N00129.AR.000024
NSB NEW LONDON
5090.3a

9-27-1990

ATTACHMENT NO. 1

LABORATORY ANALYSIS SUMMARY

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: BIRD ANALYSIS
Work Order: 90-11-076

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 11/02/90

NET Cambridge REPORT
02/04/91 09:06:33

Work Ord r # 90-11-076

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730
ATTEN
PHONE 617-275-3535

Lori MacKinnon
CERTIFIED BY

CONTACT MACKINNON

CLIENT ATLANTIC_NAV SAMPLES 7
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB NLON
TAKEN BY T. LLOYD-EVANS, D. BLAIS
TRANS BY B. POTOCKI
TYPE BIRD TISSUE
P.O. #
INV. # 28400

This report is approved for release by the following staff:
Laboratory Director:
Inorganic Laboratory: Michael F. Delaney
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	90 MBO 14
02	90 MBO 15
03	90 MBO 16
03	90 MBO 16 DUPLICATE
03	90 MBO 16
04	90 MBO 17
04	90 MBO 17 MS
04	90 MBO 17 MSD
04	90 MBO 17
04	90 MBO 17 DS
04	90 MBO 17 DUP
04	90 MBO 17
04	90 MBO 17 SPIKE
04	90 MBO 17 DUPLICATE
06	90 MBO 11
07	90 MBO 12
08	90 MBO 13

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. S rvices

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-073-01A,D	90 MBO 01	<2.5 mg/kg	17 mg/gm
90-11-073-02A,D	90 MBO 02	<2.5 mg/kg	15 mg/gm
90-11-073-03A,D	90 MBO 03	<2.5 mg/kg	13 mg/gm
90-11-073-04A,D	90 MBO 04	<2.5 mg/kg	16 mg/gm
90-11-073-05A,D	90 MBO 05	<2.5 mg/kg	14 mg/gm
90-11-073-06A,D	90 MBO 06	<2.5 mg/kg	13 mg/gm
90-11-073-07A,D	90 MBO 07	<2.5 mg/kg	15 mg/gm
90-11-073-08A,D	90 MBO 08	<2.5 mg/kg	16 mg/gm
90-11-073-09A,D	90 MBO 09	<2.5 mg/kg	15 mg/gm
90-11-073-10A,D	90 MBO 10	<2.5 mg/kg	17 mg/gm
90-11-076-01A,D	90 MBO 14	<2.5 mg/kg	17.5 mg/gm
90-11-076-02A,D	90 MBO 15	<2.5 mg/kg	18 mg/gm
90-11-076-03A,D	90 MBO 16	<2.5 mg/kg	18 mg/gm
90-11-076-04A,D	90 MBO 17	<2.5 mg/kg	17 mg/gm
90-11-076-04DS	90 MBO 17 DS,DUP	98%	23 mg/gm
90-[illegible]04DUP	90 MBO 17 DUP	<2.5 mg/kg	28 mg/gm

NET

Atlantic Environ. Services

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-076-06A	90 MBO 11	<2.5 mg/kg	18 mg/gm
90-11-076-07A	90 MBO 12	<2.5 mg/kg	16 mg/gm
90-11-076-08A	90 MBO 13	<2.5 mg/kg	12.7 mg/gm

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

** NOTES ON METALS ANALYSES

The samples were collected and stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

NET

NET Cambridg REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 14 SAMPLE # 01 FRACTIONS: A,B,C,D

Date & Time Collected 08/30/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 8,400 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S <0.98 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 67 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 2,700 ug/g (dry wt)	MG_I_S 310 ug/g (dry wt)	MN_I_S 2.5 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.53 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.35 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 14

FRACTION 01A TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846

Date & Time Collected 08/30/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90 Results by Sample

SAMPLE ID 90 MBO 15 SAMPLE # 02 FRACTIONS: A,B,C,D
Date & Time Collected 09/28/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S 3.1 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 13,600 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.94 ug/g (dry wt)	CR_I_S <0.94 ug/g (dry wt)	CU_I_S 3.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 91 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 430 ug/g (dry wt)	MN_I_S 2.2 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 0.77 ug/g (dry wt)	SB_I_S 5.8 ug/g (dry wt)	SE_I_S 0.38 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 26 ug/g (dry wt)					

NET.

R c iv d: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 15

FRACTION 02A TEST CODE PEST S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/28/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID 90 MBO 16 SAMPLE # 03 FRACTIONS: A,B
Date & Time Collected 09/27/90 Category TISSUE

EXPESS 01/07/91
extraction date

NET

Received: 11/02/90 Results by Sample

SAMPLE ID 90 MBO 16 FRACTION 03A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/27/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **90 MBO 16** SAMPLE # **03** FRACTIONS: **D,E**
Date & Time Collected **09/27/90** Category **TISSUE**

AG_I_S <1.3 ug/g (dry wt)	**AL_I_S** 6.5 ug/g (dry wt)	**AS_I_S** <0.58 ug/g (dry wt)	**BA_I_S** <2.9 ug/g (dry wt)	**BE_I_S** <0.19 ug/g (dry wt)	**B_I_S** 590 ug/g (dry wt)
CA_I_S 4,900 ug/g (dry wt)	**CD_I_S** <0.80 ug/g (dry wt)	**CO_I_S** <0.96 ug/g (dry wt)	**CR_I_S** <0.96 ug/g (dry wt)	**CU_I_S** 5.5 ug/g (dry wt)	**FE_I_S** 95 ug/g (dry wt)
HG_CVS <0.087 ug/g (dry wt)	**K_I_S** 3,000 ug/g (dry wt)	**MG_I_S** 260 ug/g (dry wt)	**MN_I_S** 1.5 ug/g (dry wt)	**NA_I_S** 1,100 ug/g (dry wt)	**NI_I_S** <1.3 ug/g (dry wt)
PB_I_S 0.42 ug/g (dry wt)	**SB_I_S** <4.8 ug/g (dry wt)	**SE_I_S** 0.19 ug/g (dry wt)	**TL_I_S** <0.38 mg/kg	**V_I_S** <3.8 ug/g (dry wt)	**ZN_I_S** 17 ug/g (dry wt)

SAMPLE ID **90 MBO 17** SAMPLE # **04** FRACTIONS: **A**
Date & Time Collected **09/29/90** Category **TISSUE**

EXPESS **01/07/91**
extraction date

NET

Received: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 17

FRACTION 04A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 09/29/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID 90 MBO 17 MS SAMPLE # 04 FRACTIONS: B
Date & Time Collected 09/29/90 Category TISSUE

EXPESS 01/07/91
extraction date

NET

Received: 11/02/90

NET Cambridge REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 17 MS

FRACTION 04B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 09/29/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	11%
Heptachlor	7%
Aldrin	5%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	33%
4,4'-DDE	
Endrin	6%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	6%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT

Results by Sample

Work Ord r # 90-11-076

SAMPLE ID 90 MBO 17 MSD

SAMPLE # 04 FRACTIONS: C

Date & Time Collected 09/29/90

Category TISSUE

EXPESS 01/07/91
extraction date

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 17 MSD

FRACTION 04C TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 09/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	10%
Heptachlor	5%
Aldrin	4%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	28%
4,4'-DDE	
Endrin	6%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	3%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 17 SAMPLE # 04 FRACTIONS: D,E
Date & Time Collected 09/29/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 710 ug/g (dry wt)
CA_I_S 3,900 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 4.8 ug/g (dry wt)	FE_I_S 130 ug/g (dry wt)
HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 280 ug/g (dry wt)	MN_I_S 1.1 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S 0.41 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.27 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)	ZN_I_S 17 ug/g (dry wt)

NET

SAMPLE ID 90 MBO 11 SAMPLE # 06 FRACTIONS: A,B,C,D
Date & Time Collected 08/29/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 8.7 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S <2.8 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 7,100 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.94 ug/g (dry wt)	CR_I_S <0.94 ug/g (dry wt)	CU_I_S 3.7 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 120 ug/g (dry wt)	HG_CVS <0.063 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 350 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 0.47 ug/g (dry wt)	SB_I_S <4.7 ug/g (dry wt)	SE_I_S 1.0 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

Rec ived: 11/02/90

NET Cambridge REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 11 FRACTION 06A TEST CODE PEST S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID 90 MBO 12 SAMPLE # 07 FRACTIONS: A,B,C,D
Date & Time Collected 08/29/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 7,000 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 4.7 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 110 ug/g (dry wt)	HG_CVS <0.080 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 1.1 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.6 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S <0.67 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 19 ug/g (dry wt)					

NET.

Received: 11/02/90 Results by Sampl

SAMPLE ID 90 MBO 12 FRACTION 07A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID 90 MBO 13 SAMPLE # 08 FRACTIONS: A,B,C,D
Date & Time Collected 08/30/90 Category TISSUE

AG_I_S 7.5 ug/g (dry wt)	AL_I_S 41 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S 4.0 ug/g (dry wt)	BE_I_S 0.35 ug/g (dry wt)	B_I_S 750 ug/g (dry wt)
CA_I_S 5,800 ug/g (dry wt)	CD_I_S 2.0 ug/g (dry wt)	CO_I_S 3.8 ug/g (dry wt)	CR_I_S 4.9 ug/g (dry wt)	CU_I_S 9.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 170 ug/g (dry wt)	HG_CVS <0.10 ug/g (dry wt)	K_I_S 4,200 ug/g (dry wt)	MG_I_S 370 ug/g (dry wt)	MN_I_S 2.6 ug/g (dry wt)	NA_I_S 1,500 ug/g (dry wt)
NI_I_S 7.0 ug/g (dry wt)	PB_I_S 0.50 ug/g (dry wt)	SB_I_S 23 ug/g (dry wt)	SE_I_S <0.67 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S 5.7 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

R ceived: 11/02/90

Results by Sample

SAMPLE ID 90 MBO 13 FRACTION 08A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 08/30/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 2

Spike no: 9011076-04 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	mg/~~Kg~~		
Ag	<1.37	50.0	45.1	90
Al	<5.88	0	1,920	---
As	<0.588	2000	1,980	~~4950~~ 99
B				
Ba	<2.94	2,000	1,850	93
Be	<0.196	50.0	46.4	93
Ca	3,870	0	190,000	---
Cd	<0.38	50	43	86
CN				
Co	<0.980	500	461	92
Cr	<0.980	200	189	95
Cu	4.82	250	264	104
Fe	129	0	1,620	---
Hg	<0.0909	1.00	0.436	44
K	3,130	0	16,600	---
Mg	279	0	4,130	---
Mn	1.14	500	487	97
Na	0	0	8,500	---
Ni	<1.37	500	466	93
Pb	0.412	500	500.0	~~253~~ 100
Sb	<4.90	500	533	107
Se	0.27	2,000	1,830	78
Tl	<0.39	2,000	0.489	24
V	<3.92	500	453	91
Zn	16.5	500	729	143

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 1

Duplicate: 9011076-04 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.37	<1.37	0
Al	<5.88	<5.88	0
As	<0.588	<0.588	0
B			
Ba	<2.94	5.64	200
Be	<0.196	<0.196	0
Ca	3.670	20.800	137
Cd	<0,39	<0,39	0
CN			
Co	<0.980	<0.980	0
Cr	<0.980	1.23	200
Cu	4.82	3.91	21
Fe	129	202	44
Hg	<0.0909	<0.0909	0
K	3,130	2,740	13
Mg	279	507	58
Mn	1.14	2.04	57
Na	1,100	1,200	8.7
Ni	<1.37	<1.37	0
Pb	0.412	1.65	120
Sb	<4.90	<4.90	0
Se	0.275	1.24	127
Tl	<0.39	<0.39	0
V	<3.92	<3.92	0
Zn	16.5	30.2	59

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 3

Blank: PBS
Found

Element	mg/L
Ag	<0.0070
Al	<0.030
As	<0.0030
B	<0.20
Ba	<0.015
Be	<0.0010
Ca	0.093
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.022
Hg	<0.00010
K	<0.54
Mg	<0.040
Mn	<0.0020
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	<0.025
Se	< 0.0020
Tl	< 0.0020
V	<0.020
Zn	0.0088

Test Code CNTC-S, CNTC-A RUN DATE 01.21.1991

Analyst TSm Method #

LCS's: Work Orders 9101098, 9101157, 9101164, 9101221, 9101222, 9011073, 9011076

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS 1.11.91	0.10	0.081	81
1.17.91		0.098	98
1.18.91		0.086	86

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
BLK dis S 1.11.91	<0.01	<0.01
1.17.91	<0.01	<0.01
1.18.91	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
9101157-1	<0.01	<0.01	0
9011076-4	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
9101157-1	0.100	0.098	<0.01	98
9011076-4	0.100	0.095	<0.01	95

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

N009

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Menzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

90-11-073
90-11-076

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90 MBO 01	11/7/90	0800	AREA A (MARSH) NET 1		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEAKED, DECLAWED GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04		0700	NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08		0800	NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	8/29/90	1900	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	8/30/90	0700	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by:	Date / Time	Received by:	Relinquished by	Date / Time	Received by
Denis Blais	11/7/90 11:21 am	Bonnie Tatrek			
Relinquished by:	Date / Time	Received by:	Relinquished by	Date / Time	Received for Laboratory by:
Bonnie Tatrek	11/2/90 5:25 pm	Louis Mackinnon 11/2/90 5:25 pm			

Method of Shipment

Remarks:

NET

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

90-11-073
~~N00~~
N010
90-11-076
90-11-236

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON
COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature: Trevor L. Lloyd-Evans
DENIS BLAIS (Print Name) — Signature: Denis Blais

ANALYSES

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipids				COMMENTS
90MB015	09/27/90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEARED, DECLAWE GUT REMOVED, FREEZE.
90MB016	09/27/90	0800			G			1													
90MB017	09/27/90	0800			G			1													
90MB018	09/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by	Relinquished by	Date / Time	Received by:
Denis Blais	11/7/90 11:20 am	Bonnie Potrek			
Relinquished by:	Date / Time	Received by	Relinquished by.	Date / Time	Received for Laboratory by.
Bonnie Potrek	11/2/90 5:25 pm	Lorie MacKinnon 11/2/90 5:25 pm			

Method of Shipment: NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: BIRD ANALYSIS
Work Order: 90-11-073

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Receiv d: 11/02/90

NET Cambridge REPORT
02/04/91 09:02:09

Work Ord r # 90-11-073

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

CLIENT ATLANTIC_NAV SAMPLES 10
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB NLON
TAKEN BY T. LLOYD-EVANS D. BLAIS
TRANS BY B. POTOCKI
TYPE TISSUE, BIRDS
P.O. #
INV. # 28399

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730

ATTEN
PHONE 617-275-3535

Lori MacKinnon
CERTIFIED BY

CONTACT MACKINNON

This report is approved for release by the following staff:
Laboratory Director:
Inorganic Laboratory: Michael F. Delaney
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	90 MBO 01
02	90-MBO 02
03	90 MBO 03
04	90 MBO 04
05	90 MBO 05
06	90 MBO 06
07	90 MBO 07
08	90 MBO 08
09	90 MBO 09
10	90 MBO 10

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. Servic s

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-073-01A,D	90 MBO 01	<2.5 mg/kg	17 mg/gm
90-11-073-02A,D	90 MBO 02	<2.5 mg/kg	15 mg/gm
90-11-073-03A,D	90 MBO 03	<2.5 mg/kg	13 mg/gm
90-11-073-04A,D	90 MBO 04	<2.5 mg/kg	16 mg/gm
90-11-073-05A,D	90 MBO 05	<2.5 mg/kg	14 mg/gm
90-11-073-06A,D	90 MBO 06	<2.5 mg/kg	13 mg/gm
90-11-073-07A,D	90 MBO 07	<2.5 mg/kg	15 mg/gm
90-11-073-08A,D	90 MBO 08	<2.5 mg/kg	16 mg/gm
90-11-073-09A,D	90 MBO 09	<2.5 mg/kg	15 mg/gm
90-11-073-10A,D	90 MBO 10	<2.5 mg/kg	17 mg/gm
90-11-076-01A,D	90 MBO 14	<2.5 mg/kg	17.5 mg/gm
90-11-076-02A,D	90 MBO 15	<2.5 mg/kg	18 mg/gm
90-11-076-03A,D	90 MBO 16	<2.5 mg/kg	18 mg/gm
90-11-076-04A,D	90 MBO 17	<2.5 mg/kg	17 mg/gm
90-11-076-04DS	90 MBO 17 DS,DUP	98%	23 mg/gm
90-11-076-04DUP	90 MBO 17 DUP	<2.5 mg/kg	28 mg/gm

Atlantic Environ. Services

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-076-06A	90 MBO 11	<2.5 mg/kg	18 mg/gm
90-11-076-07A	90 MBO 12	<2.5 mg/kg	16 mg/gm
90-11-076-08A	90 MBO 13	<2.5 mg/kg	12.7 mg/gm

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

** NOTES ON METALS ANALYSES

The samples were collected and stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

NET.

Rec ived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 01

SAMPLE # 01 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90

Category TISSUE

AG_I_S <1.3 ug/g (wet wt)	AL_I_S 34 ug/g (wet wt)	AS_I_S <0.58 ug/g (wet wt)	BA_I_S <2.9 ug/g (wet wt)	BE_I_S <0.19 ug/g (wet wt)	B_I_S 630 ug/g (wet wt)
CA_I_S 1,680 ug/g (wet wt)	CD_I_S <0.38 ug/g (wet wt)	CO_I_S <0.96 ug/g (wet wt)	CR_I_S <0.96 ug/g (wet wt)	CU_I_S 7.9 ug/g (wet wt)	EXPESS 01/07/91 extraction date
FE_I_S 170 ug/g (wet wt)	HG_CVS <0.10 ug/g (wet wt)	K_I_S 2,900 ug/g (wet wt)	MG_I_S 210 ug/g (wet wt)	MN_I_S 1.3 ug/g (wet wt)	NA_I_S 1,300 ug/g (wet wt)
NI_I_S 1.5 ug/g (wet wt)	PB_I_S <0.38 ug/g (wet wt)	SB_I_S <4.8 ug/g (wet wt)	SE_I_S 1.1 ug/g (wet wt)	TL_I_S <3.8 mg/kg (wet wt)	V_I_S <3.8 ug/g (wet wt)
ZN_I_S 17 ug/g (wet wt)					

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-11-073

SAMPLE ID 90 MBO 01

FRACTION 01A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Ord r # 90-11-073

SAMPLE ID 90-MBO 02

SAMPLE # 02 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 6.9 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S 4.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 13,400 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S 1.4 ug/g (dry wt)	CU_I_S 4.8 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 65 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 430 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,300 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 2.3 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 1.0 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 30 ug/g (dry wt)					

NET

Rec ived: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-073

Results by Sample

SAMPLE ID 90-MBO 02

FRACTION 02A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Rec ived: 11/02/90 Results by Sample

SAMPLE ID 90 MBO 03 SAMPLE # 03 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 8.7 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 740 ug/g (dry wt)
CA_I_S 9,100 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S 7.3 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 90 ug/g (dry wt)	HG_CVS <0.095 ug/g (dry wt)	K_I_S 3,200 ug/g (dry wt)	MG_I_S 330 ug/g (dry wt)	MN_I_S 1.8 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.0 ug/g (dry wt)	SB_I_S 6.2 ug/g (dry wt)	SE_I_S 0.94 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 24 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 03 FRACTION 03A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	1

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridg REPORT

Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 04

SAMPLE # 04 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90

Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 9.8 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 760 ug/g (dry wt)
CA_I_S 8,000 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 7.6 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 66 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 340 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.1 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.77 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 24 ug/g (dry wt)					

NET

R ceived: 11/02/90

NET Cambridge REPORT Work Order # 90-11-073
Results by Sampl

SAMPLE ID 90 MBO 04 FRACTION 04A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID 90 MBO 05 SAMPLE # 05 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 730 ug/g (dry wt)
CA_I_S 6,100 ug/g (dry wt)	CD_I_S <0.38 ug/g (dry wt)	CO_I_S <0.95 ug/g (dry wt)	CR_I_S <0.95 ug/g (dry wt)	CU_I_S 11 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 78 ug/g (dry wt)	HG_CVS <0.074 ug/g (dry wt)	K_I_S 3,200 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 2.4 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 1.9 ug/g (dry wt)	SB_I_S <4.8 ug/g (dry wt)	SE_I_S 0.80 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET

NET Cambridge REPORT Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 05

FRACTION 05A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

Results by Sample

SAMPLE ID 90 MBO 06 SAMPLE # 06 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 7.7 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 2,900 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 6.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 430 ug/g (dry wt)	HG_CVS <0.057 ug/g (dry wt)	K_I_S 3,400 ug/g (dry wt)	MG_I_S 270 ug/g (dry wt)	MN_I_S 1.7 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S 1.6 ug/g (dry wt)	PB_I_S 1.0 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.67 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-073
Results by Sample

SAMPLE ID 90 MBO 06 FRACTION 06A TEST CODE PEST S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

R ceived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 07

SAMPLE # 07 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90

Category TISSUE

AG_I_S 8.4 ug/g (dry wt)	AL_I_S 44 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S 0.40 ug/g (dry wt)	B_I_S 820 ug/g (dry wt)
CA_I_S 2,600 ug/g (dry wt)	CD_I_S 2.2 ug/g (dry wt)	CO_I_S 4.5 ug/g (dry wt)	CR_I_S 5.9 ug/g (dry wt)	CU_I_S 11 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 130 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 4,100 ug/g (dry wt)	MG_I_S 310 ug/g (dry wt)	MN_I_S 2.5 ug/g (dry wt)	NA_I_S 1,400 ug/g (dry wt)
NI_I_S 8.0 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S 21 ug/g (dry wt)	SE_I_S 0.52 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S 6.3 ug/g (dry wt)
ZN_I_S 16 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 07

FRACTION 07A TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 08 SAMPLE # 08 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 6,000 ug/g (dry wt)	CD_I_S <0.039 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 3.1 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 76 ug/g (dry wt)	HG_CVS <0.087 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 0.90 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.98 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.39 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 08

FRACTION 08A TEST CODE PEST S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

R ceived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 09 SAMPLE # 09 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <6.0 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 720 ug/g (dry wt)
CA_I_S 4,400 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S 4.3 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 150 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 280 ug/g (dry wt)	MN_I_S 1.6 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.46 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 20 ug/g (dry wt)					

NET.

Receiv d: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 09

FRACTION 09A TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Receiv d: 11/02/90

NET Cambridg REPORT
R sults by Sample

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 10 SAMPLE # 10 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S 1.4 ug/g (dry wt)	AL_I_S 6.5 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 710 ug/g (dry wt)
CA_I_S 1,920 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S 1.0 ug/g (dry wt)	CU_I_S 4.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 83 ug/g (dry wt)	HG_CVS <0.087 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 230 ug/g (dry wt)	MN_I_S 2.2 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.37 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 14 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridg REPORT Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 10 FRACTION 10A TEST CODE PEST S NAME Pesticid s/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB N
Work order: 9011076
Page: 1

Duplicate: 9011076-04 (Solid)

Element	Sample mg/kg	Dupl. mg/kg	%RPD
Ag	<1.37	<1.37	0
Al	<5.88	<5.88	0
As	<0.588	<0.588	0
B			
Ba	<2.94	5.64	200
Be	<0.196	<0.196	0
Ca	3,670	20,800	137
Cd	<0,39	<0,39	0
CN			
Co	<0.980	<0.980	0
Cr	0.980	1.23	200
Cu	4.83	3.91	21
Fe	129	202	44
Hg	<0.0909	<0.0909	0
K	3,130	2,740	13
Mg	279	507	58
Mn	1.14	2.04	57
Na	1,100	1,200	8.7
Ni	<1.37	<1.37	0
Pb	0.412	1.65	120
Sb	<4.90	<4.90	0
Se	0.275	1.24	127
Tl	<0,39	<0,39	0
V	<3.92	<3.92	0
Zn	16.5	30.2	59

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 2

Spike no: 9011076-04 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/kg	mg/kg		
Ag	<1.37	50.0	45.1	90
Al	<5.88	0	1,920	---
As	<0.588	2,000	1,980	~~4950~~ 99
B				
Ba	<2.94	2,000	1,850	93
Be	<0.196	50.0	46.4	93
Ca	3,870	0	190,000	---
Cd	<0.38	50	43	86
CN				
Co	<0.980	500	461	92
Cr	<0.980	200	189	95
Cu	4.82	250	264	104
Fe	129	0	1,620	---
Hg	<0.0909	1.00	0.436	44
K	3,130	0	16,600	---
Mg	279	0	4,130	---
Mn	1.14	500	487	97
Na	0	0	8,500	---
Ni	<1.37	500	466	93
Pb	0.412	500.0	500.0	~~250~~ 100
Sb	<4.90	500	533	107
Se	0.27	2,000	1,830	78
Tl	<0.39	2,000	0.485	24
V	<3.92	500	453	91
Zn	16.5	500	729	143

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 4

Blank:	1 LCSHCL (Solid)			2 LCSHCLS (Solid)		
	True	Found	% Recov.	True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.321	32	0.0222	0.321	1446
Al	1.00	1.05	105	0.325	1.05	323
As	1.00	0.962	96			
B	1.00	1.12	112			
Ba	1.00	0.950	95	0.00480	0.950	19792
Be	0.200	0.191	96	0.0194	0.191	985
Ca	5.00	5.03	101	196	5.03	3
Cd	1.00	0.876	88			
CN						
Co	1.00	0.983	98	0.144	0.983	683
Cr	1.00	0.974	97	0.0996	0.974	978
Cu	1.00	1.01	101	6.91	1.01	15
Fe	1.00	1.01	101	32.4	1.01	5
Hg	0.0040	0.0039	98			
K	10.0	9.82	98	0.0500	9.82	19640
Mg	1.00	0.874	87	118	0.874	1
Mn	1.00	0.982	98	0.208	0.982	472
Na	5.00	5.116	102			
Ni	1.00	0.990	99	0.0609	0.990	1626
Pb	1.00	0.882	88			
Sb	1.00	0.906	91	0.211	0.906	429
Se	1.00	0.939	94			
Tl						
V	1.00	0.957	96			
Zn	1.00	0.962	96			

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 3

Matrix: PBS
Found

Element	mg/L
Ag	<0.0070
Al	<0.030
As	<0.0030
B	<0.20
Ba	<0.015
Be	<0.0010
Ca	0.097
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.022
Hg	<0.00010
K	<0.54
Mg	<0.040
Mn	<0.0020
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	<0.025
Se	< 0.0020
Tl	<0.0020
V	<0.020
Zn	0.0088

Test Code CNTC-S, CNTC-A RUN DATE 01.21.1991

Analyst TSm Method #

LCS's: Work Orders 9101098, 9101157, 9101164, 9101221, 9101222, 9011073, 9011076

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS 1.11.91	0.10	0.081	81
1.17.91		0.098	98
1.18.91		0.086	86

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
BLK dis 1.11.91	<0.01	<0.01
1.17.91	<0.01	<0.01
1.18.91	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
9101157-1	<0.01	<0.01	0
9011076-4	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
9101157-1	0.100	0.098	<0.01	98
9011076-4	0.100	0.095	<0.01	95

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

N009

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Menzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

90-11-073
90-11-076

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90 MBO 01	11/6/90	0800	AREA A (MARSH) NET 1		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEAKED, DECLAWED, GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04		0700	NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08		0800	NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	8/29/90	1900	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	8/30/90	0700	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Denis Blais	11/7/90 11:30 am	Bonnie Thatcher			
Bonnie Thatcher	11/2/90 5:25 pm	Louis McKenna 11/2/90 5:25 pm			Received for Laboratory by:

Method of Shipment: NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

90-11-073
~~N00~~
N010
90-11-076
90-11-236

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON
COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipids				COMMENTS
90MB015	09/27/90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEARED, DECLAWED GUT REMOVED, FREEZE.
90MB016	09/27/90	0800			G			1													
90MB017	09/27/90	0800			G			1													
90MB018	09/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Denis Blais	11/7/90 11:20 am	Bonnie Potocki			
Bonnie Potocki	11/2/90 5:25 pm	Lorie MacKinnon 11/2/90 5:25 pm			

Method of Shipment: NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: FROG TISSUE ANALYSIS
Work Order: 90-09-207

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 09/17/90

NET Cambridge REPORT
02/04/91 08:56:13

Work Order # 90-09-207

REPORT TO: Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN: Mr. Robert Breeding

PREPARED BY: NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730
ATTEN:
PHONE: 617-275-3535

Lori Mackinnon
CERTIFIED BY

CONTACT MACKINNON

CLIENT: ATLANTIC_NAV SAMPLES: 6
COMPANY: Atlantic Environ. Services
FACILITY: 188 Norwich Avenue
Colchester, CT 06415

WORK ID: FROG TISSUE
TAKEN: by client
TRANS: by hand delivery
TYPE: FROG TISSUE
P.O. #:
INV. #: 28398

This report is approved for release by the following staff:
Laboratory Director: Michael F. Delaney
Inorganic Laboratory:
Organic Laboratory:

DUPLICATE REPORT SENT TO: Mr. Bryan Field
Menzie,Cura, and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	POND 1A MUSCLE
01	POND 1A MUSCLE MS
01	POND 1A MUSCLE MSD
01	POND 1A MUSCLE DUP
02	POND 1B MUSCLE
02	POND 1B MUSCLE
03	POND 1C MUSCLE
03	POND 1C MUSCLE DS
03	POND 1C MUSCLE DUP
03	POND 1C MUSCLE
03	POND 1C MUSCLE SPIKE
03	POND 1C MUSCLE DUP
03	POND 1C MUSCLE
04	POND 1D MUSCLE/BONE
05	LOWER STR.1 WHOLE FROG
06	LOWER STREAM 2 MUSCLE
06	LOWER STREAM 2 MUSCLE

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. Services

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

**NOTES ON METALS ANALYSES

The samples were digested on 01/08/91.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

The samples were stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

NET.

R ceived: 09/17/90 01/14/91 16:46:18

Atlantic Environ. Services

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. Servic s

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET.

Received: 09/17/90

NET Cambridge REPORT Work Order # 90-09-207

Results by Sampl

SAMPLE ID POND 1A MUSCLE SAMPLE # 01 FRACTIONS: A,B,C,D

Date & Time Collected 09/14/90 Category TISSUE

AG_I_S 1.8 ug/g (dry wt)	AL_I_S 470 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 500 ug/g (dry wt)
CA_I_S 3,000 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S 1.2 ug/g (dry wt)	CU_I_S 2.1 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 44 ug/g (dry wt)	HG_CVS <0.10 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 270 ug/g (dry wt)	MN_I_S 3.5 ug/g (dry wt)	NA_I_S 1,000 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.39 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.65 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 11 ug/g (dry wt)					

NET

Received: 09/17/90

NET Cambridge REPORT
R sults by Sample

Work Order # 90-09-207

SAMPLE ID POND 1A MUSCLE

FRACTION 01B TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **POND 1A MUSCLE MS** SAMPLE # **01** FRACTIONS: **E**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

R ceiv d: 09/17/90

NET Cambridge REPORT Work Order # 90-09-207

Results by Sample

SAMPLE ID POND 1A MUSCLE MS FRACTION 01E TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	17%
Heptachlor	13%
Aldrin	12%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	10%
4,4'-DDE	
Endrin	6.8%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	31%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90

NET Cambridge REPORT
R sults by Sample

Work Ord r # 90-09-207

SAMPLE ID POND 1A MUSCLE MSD

SAMPLE # 01 FRACTIONS: F
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT Work Ord r # 90-09-207
Results by Sampl

SAMPLE ID POND 1A MUSCLE MSD

FRACTION 01F TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	29%
Heptachlor	20%
Aldrin	14%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	17%
4,4'-DDE	
Endrin	13%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	63%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **POND 1B MUSCLE** SAMPLE # **02** FRACTIONS: **A**
Date & Time Collected **09/14/90** Category

AG_I_S <1.4 ug/g (dry wt)	**AL_I_S** 16 ug/g (dry wt)	**AS_I_S** <0.58 ug/g (dry wt)	**BA_I_S** <2.9 ug/g (dry wt)	**BE_I_S** <0.19 ug/g (dry wt)	**B_I_S** 510 ug/g (dry wt)
CA_I_S 170 ug/g (dry wt)	**CD_I_S** <0.39 ug/g (dry wt)	**CO_I_S** <0.97 ug/g (dry wt)	**CR_I_S** <0.97 ug/g (dry wt)	**CU_I_S** <0.97 ug/g (dry wt)	**FE_I_S** 15 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	**K_I_S** 3,000 ug/g (dry wt)	**MG_I_S** 120 ug/g (dry wt)	**MN_I_S** 2.0 ug/g (dry wt)	**NA_I_S** 850 ug/g (dry wt)	**NI_I_S** <1.4 ug/g (dry wt)
PB_I_S 0.66 ug/g (dry wt)	**SB_I_S** <4.9 ug/g (dry wt)	**SE_I_S** 0.58 ug/g (dry wt)	**TL_I_S** <0.39 mg/kg	**V_I_S** <3.9 ug/g (dry wt)	**ZN_I_S** 7.2 ug/g (dry wt)

SAMPLE ID **POND 1B MUSCLE** SAMPLE # **02** FRACTIONS: **B,C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Rec ived: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-207

SAMPLE ID POND 1B MUSCLE

FRACTION 02B TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90 R sults by Sample

SAMPLE ID POND 1C MUSCLE SAMPLE # 03 FRACTIONS: A
Date & Time Collected 09/14/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 26 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 470 ug/g (dry wt)
CA_I_S 270 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S <1.0 ug/g (dry wt)	FE_I_S 15 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 220 ug/g (dry wt)	MN_I_S 3.8 ug/g (dry wt)	NA_I_S 680 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.40 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)	ZN_I_S 6.4 ug/g (dry wt)

NET

NET Cambridge REPORT
R sults by Sample

Work Order # 90-09-207
Continued From Above

SAMPLE ID POND 1C MUSCLE

SAMPLE # 03 FRACTIONS: D,G
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Rec ived: 09/17/90
Results by Sample

SAMPLE ID POND 1C MUSCLE FRACTION 03D TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90 R sults by Sample

SAMPLE ID POND 1D MUSCLE/BONE SAMPLE # 04 FRACTIONS: A,B,C,D
Date & Time Collected 09/14/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 7.5 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 420 ug/g (dry wt)
CA_I_S 240 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 1.0 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 22 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 220 ug/g (dry wt)	MN_I_S 0.58 ug/g (dry wt)	NA_I_S 930 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.78 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.88 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 7.8 ug/g (dry wt)					

NET

NET Cambridge REPORT Work Order # 90-09-207

Results by Sample

SAMPLE ID POND 1D MUSCLE/BONE FRACTION 04B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **LOWER STR.1 WHOLE FROG** SAMPLE # **05** FRACTIONS: **A,B,C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

AG_I_S <1.4 ug/g (dry wt)	**AL_I_S** 140 ug/g (dry wt)	**AS_I_S** <0.58 ug/g (dry wt)	**BA_I_S** 4.7 ug/g (dry wt)	**BE_I_S** <0.19 ug/g (dry wt)	**B_I_S** 440 ug/g (dry wt)
CA_I_S 10,600 ug/g (dry wt)	**CD_I_S** 0.55 ug/g (dry wt)	**CO_I_S** <0.97 ug/g (dry wt)	**CR_I_S** <0.97 ug/g (dry wt)	**CU_I_S** 14 ug/g (dry wt)	**EXPESS** 12/17/90 extraction date
FE_I_S 360 ug/g (dry wt)	**HG_CVS** <0.10 ug/g (dry wt)	**K_I_S** 2,700 ug/g (dry wt)	**MG_I_S** 600 ug/g (dry wt)	**MN_I_S** 18 ug/g (dry wt)	**NA_I_S** 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	**PB_I_S** 2.7 ug/g (dry wt)	**SB_I_S** <4.9 ug/g (dry wt)	**SE_I_S** 0.84 ug/g (dry wt)	**TL_I_S** <0.39 mg/kg	**V_I_S** <3.9 ug/g (dry wt)
ZN_I_S 67 ug/g (dry wt)					

NET

SAMPLE ID LOWER STR.1 WHOLE FROG FRACTION 05B TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Rec ived: 09/17/90

NET Cambridge REPORT
R sults by Sample

Work Order # 90-09-207

SAMPLE ID LOWER STREAM 2 MUSCLE SAMPLE # 06 FRACTIONS: A
Date & Time Collected 09/14/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 35 ug/g (dry wt)	AS_I_S <0.61 ug/g (dry wt)	BA_I_S <3.1 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 480 ug/g (dry wt)
CA_I_S 6,400 ug/g (dry wt)	CD_I_S <0.41 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S <1.0 ug/g (dry wt)	FE_I_S 23 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	K_I_S 2,900 ug/g (dry wt)	MG_I_S 290 ug/g (dry wt)	MN_I_S 2.2 ug/g (dry wt)	NA_I_S 1,300 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S <0.41 ug/g (dry wt)	SB_I_S 28 ug/g (dry wt)	SE_I_S 0.45 ug/g (dry wt)	TL_I_S <0.41 mg/kg	V_I_S <4.1 ug/g (dry wt)	ZN_I_S 11 ug/g (dry wt)

SAMPLE ID LOWER STREAM 2 MUSCLE SAMPLE # 06 FRACTIONS: B,C,D
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-09-207

SAMPLE ID LOWER STREAM 2 MUSCLE FRACTION 06B TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 2

Spike no: 9009207-03 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	~~mg/L~~		
Ag	<1.40	50.0	48.9	98
Al	25.4	0	2,110	---
As	<0.600	2,000	2,090	~~5225~~ 105
B				
Ba	<3.00	2,000	2,140	107
Be	<0.200	50.0	43.7	87
Ca	270	0	1,320	---
Cd	<0.400	50.0	53.2	106
CN				
Co	<1.00	500	551	110
Cr	<1.00	200	218	109
Cu	1.10	250	273	109
Fe	16.0	0	1,170	---
Hg	<0.100	1.00	0.998	100
K	3,030	0	15,800	---
Mg	224	0	1,130	---
Mn	3.22	500	558	111
Na	732	0	3,780	---
Ni	<1.40	500	494	99
Pb	<0.40	500	369	~~1845~~ 74
Sb	<5.0	500	478	96
Se	<0.40	2,000	2,350	~~29400~~ 117
Tl	<0.40	2,000	1,700	85
V	<4.00	500	521	104
Zn	6.59	500	551	109

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 1

Duplicate: 9009207-03 (Solid)

Element	Sample mg/kg	Dupl. mg/Kg	%RPD
Ag	<1.40	<1.43	0
Al	25.4	10.3	85
As	<0.600	<0.612	0
B	467	413	12
Ba	<3.00	<3.06	0
Be	<0.200	<0.204	0
Ca	270	265	2
Cd	<0.400	<0.408	0
CN			
Co	<1.00	<1.02	0
Cr	<1.00	<1.02	0
Cu	1.10	1.69	42
Fe	16.0	17.1	7
Hg	<0.100	<0.100	0
K	3,030	3,250	7
Mg	224	233	4
Mn	3.22	1.70	62
Na	732	776	6
Ni	<1.40	<1.43	0
Pb	<0.40	0.59	200
Sb	<5.0	5.1	200
Se	<0.40	0.80	200
Tl	<0.40	0.80	200
V	<4.00	<4.08	0
Zn	6.59	7.03	7

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 4

Blank:	1 LCSHCL (Solid)			2 LCSHGS (Solid)		
	True	Found	% Recov.	True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.456	46			
Al	1.00	1.79	179			
As	1.00	0.912	91			
B	1.00	1.366	137			
Ba	1.00	1.07	107			
Be	0.200	0.181	91			
Ca	5.00	5.02	100			
Cd	1.00	1.02	102			
CN						
Co	1.00	1.13	113			
Cr	1.00	1.07	107			
Cu	1.00	1.06	106			
Fe	1.00	1.14	114			
Hg				0.0127	0.0121	95
K	10.0	9.06	91			
Mg	1.00	0.933	93			
Mn	1.00	1.07	107			
Na	5.00	7.24	145			
Ni	1.00	1.00	100			
Pb	1.00	0.784	78			
Sb	1.00	0.943	94			
Se	1.00	0.885	88			
Tl						
V	1.00	1.03	103			
Zn	1.00	1.03	103			

NET

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 3

Blank: PBS
Found

Element	mg/L
Ag	<0.0070
Al	0.034
As	<0.0030
B	<0.200
Ba	<0.015
Be	<0.0010
Ca	0.084
Cd	<0.0020
CN	
Co	<0.0050
Cr	0.0050
Cu	<0.0050
Fe	0.060
Hg	<0.00010
K	0.75
Mg	<0.040
Mn	0.0061
Na	<0.25
Ni	0.0070
Pb	<0.0020
Sb	0.082
Se	0.0010
Tl	<0.0020
V	<0.020
Zn	0.0079

NET

Test Code CNTTA RUN DATE 1/4/91

Analyst rdl Method #

LCS's: Work Orders 91 01 005

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
WP586	0.100	0.099	99
↓	↓	0.096	96
		0.098	98
		0.096	96

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
DI H_2O	<0.01	<0.01
↓	↓	<0.01
		<0.01
		<0.01
		<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
91 01 005 02	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
91 01 005 02	0.100	0.104	<0.01	104%

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

№ 0015 9009207 9009225

ATLANTIC ENVIRONMENTAL SERVICES, INC.

188 Norwich Avenue, P.O. Box 297, Colchester, CT 06415
PHONE: (203) 537-0751 FAX: (203)537-6347

CHAIN OF CUSTODY RECORD

PROJECT NAME: Groton Navy Yard

PROJECT NUMBER: 104

ANALYSIS

SAMPLE NO.	DATE	TIME	GRAB	COMP	NO. OF CONT.	SAMPLE MATRIX	Frozen PRSV.	Fresh PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	COMMENTS
Pond 1A	9/14				1	Tissue	Post	Metals	1 Bullfrog - Muscle and Liver								
Pond 1B	↓				1	Tissue	Post	Metals	"						"		
Pond 1C					1	Tissue	Post	Metals	"						"		
Pond 1D					1	Tissue	Post	Metals	3 Frogs - composite muscle + liver								
Lower Stream 1					1	Tissue	Post	Metals	1 Frog - muscle + liver								
Lower Stream 2	↓				1	Tissue	Post	Metals	1 Frog - muscle + liver								
					Note: Need muscle (thigh) and												
					liver samples analyzed separately												
					Include skin with thigh muscle												

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
Jerome J. Cura	1/14/90 9:30	Jon Freshman	Jon Freshman	1/17/90 10:14	Cynthia Dailey
Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received for Laboratory by:

Method of Shipment:

Shipping Waybill No.:

Remarks: Samples stored frozen on 9/17/90
Samples received 9/17/1990 am

SAMPLED BY: Jerome J. Cura (Print Name) — Jerome J. Cura (Signature)

(Print Name) — (Signature)

NET

ATLANTIC FORM 1041
PT 1:ORIGINAL PT 2:Laboratory Project Manag r-yellow PT 3:Field Copy-pink

HP-20944 9/90

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: CONTROL FROG ANALYSIS
Work Order: 90-11-236

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 11/02/90

NET Cambridge REPORT
02/04/91 08:59:32

Work Ord r # 90-11-236

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

CLIENT ATLANTIC_NAV SAMPLES 2
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB_NLON
TAKEN BY T. LLOYD-EVANS, D. BLAIS
TRANS BY B. POTOCKI
TYPE CONTROL FROG
P.O. #
INV. # 28704

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730

ATTEN
PHONE 617-275-3535

Lori MacKinnon
CERTIFIED BY

CONTACT MACKINNON

This report is approved for release by the following staff:
Laboratory Director: Michael F. Delaney
Inorganic Laboratory:
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01 90 MBO 18 FROG CONTROL-TIS
02 90 MBO 18 FROG CONTROL-LIV

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. Servic s

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

**NOTES ON METALS ANALYSES

Due to a limited sample amount, Metals and Cyanide analysis was not done on the control frog liver.

The samples were stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Thallium, and Lead were run by graphite furnace.

NET

Rec ived: 09/17/90 01/14/91 16:46:18

Atlantic Environ. Services

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. S rvic s

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236-02	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET

R ceived: 11/02/90

NET Cambridge REPORT

W rk Order # 90-11-236

Results by Sample

SAMPLE ID 90 MBO 18 FROG CONTROL-TIS SAMPLE # 01 FRACTIONS: A,B,C,D
Date & Time Collected 08/10/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 13 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 450 ug/g (dry wt)
CA_I_S 240 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 1.1 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 13 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 240 ug/g (dry wt)	MN_I_S 0.68 ug/g (dry wt)	NA_I_S 860 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.65 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 7.4 ug/g (dry wt)					

NET.

Received: 11/02/90

NET Cambridg REPORT Work Order # 90-11-236

Results by Sample

SAMPLE ID 90 MBO 18 FROG CONTROL-TIS FRACTION 01A TEST CODE PEST S NAME P sticides/PCBS-soil-SW846

Date & Time Collected 08/10/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Rec iv d: 11/02/90

NET Cambridg REPORT
R sults by Sampl

Work Ord r # 90-11-236

SAMPLE ID 90 MBO 18 FROG CONTROL-LIV SAMPLE # 02 FRACTIONS: A,B
Date & Time Collected 08/10/90 Category LIVER

EXPESS 12/17/90
extraction date

NET

NET Cambridge REPORT Work Order # 90-11-236

Results by Sample

SAMPLE ID 90 MBO 18 FROG CONTROL-LIV FRACTION 02A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/10/90 Category LIVER

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	2

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 1

Duplicate: 9009207-03 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.40	<1.43	0
Al	25.8	10.36	85
As	<0.600	<0.612	0
B	467	413	12
Ba	<3.00	<3.06	0
Be	<0.200	<0.204	0
Ca	270	265	2
Cd	<0.400	<0.408	0
CN			
Co	<1.00	<1.02	0
Cr	<1.00	<1.02	0
Cu	1.10	1.69	42
Fe	16.0	17.1	7
Hg	<0.100	<0.100	0
K	3,030	3,250	7
Mg	224	233	4
Mn	3.22	1.70	62
Na	732	776	6
Ni	<1.40	<1.43	0
Pb	<0.40	0.59	200
Sb	<5.00	<5.10	0
Se	<0.40	1.40	200
Tl	<0.40	0.80	200
V	<4.00	<4.08	0
Zn	6.59	7.03	7

NET

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 2

Spike no: 9009207-03 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	mg/Kg		
Ag	<1.40	50.0	48.9	98
Al	25.8	0	1,980	---
As	<0.600	2,000	2,090	~~5225~~ 105
B				
Ba	<3.00	2,000	1,870	94
Be	<0.200	50.0	46.9	94
Ca	302	0	1,310	---
Cd	<0.400	50.0	53.2	106
CN				
Co	<1.00	500	551	110
Cr	<1.00	200	218	109
Cu	1.10	250	273	109
Fe	16.0	0	1,170	---
Hg	<0.100	1.00	0.998	100
K	3,030	0	15,800	---
Mg	224	0	1,130	---
Mn	3.22	500	558	111
Na	732	0	3,780	---
Ni	<1.40	500	494	99
Pb	<0.40	500	369	~~1845~~ 74
Sb	<5.00	500	478	96
Se	0.40	2,000	2,350	~~23480~~ 117
Tl	<0.40	2,000	~~2,700~~ 1,700	85
V	<4.00	500	521	104
Zn	6.59	500	551	109

NET

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 4

Blank:	1 LCSHCL (Solid) True	Found	% Recov.	2 LCSHGS (Solid) True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.458	46			
Al	1.00	1.19	119			
As	1.00	0.912	91			
B	1.00	1.366	137			
Ba	1.00	0.983	98			
Be	0.200	0.188	94			
Ca	5.00	5.32	106			
Cd	1.00	1.02	102			
CN						
Co	1.00	1.13	113			
Cr	1.00	1.07	107			
Cu	1.00	1.06	106			
Fe	1.00	1.14	114			
Hg				0.0127	0.0121	95
K	10.0	9.06	91			
Mg	1.00	0.933	93			
Mn	1.00	1.07	107			
Na	5.00	7.24	145			
Ni	1.00	1.00	100			
Pb	1.00	0.784	78			
Sb	1.00	0.943	94			
Se	1.00	0.885	88			
Tl	~~<0.40~~	~~0.80~~	~~200~~			
V	1.00	1.03	103			
Zn	1.00	1.03	103			

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 3

Blank: PBS
Found

Element	mg/L
Ag	<0.0070
Al	<0.030
As	<0.0030
B	<0.200
Ba	<0.015
Be	0.0019
Ca	0.17
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.060
Hg	<0.00010
K	0.75
Mg	<0.040
Mn	0.0061
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	0.082
Se	<0.0010
Tl	<0.0020
V	<0.020
Zn	0.0079

NET

Test Code CN RUN DATE 1/4/91

Analyst rdl Method #

LCS's: Work Orders 90 ~~09~~ 09 207 rdl , 90 11 236

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS Z Rinsed V3/91	0.100	0.091	91 %
A Rinsed V4/91		0.098	98 %
B Not Rinsed 1/4/91		0.096	96 %
C Not Rinsed 1/4/91		0.094	94 %

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
Blk	<0.01	<0.01
Blk II	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
90 09 207 03 Orig.	5.8 µg	<4.6 µg	23%
03 post dig.	5.8 µg	5.8 µg	0%
90 11 236 01 post dig.	0.166	0.168	1.2%

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
90 09 207 03 DS	25	~~4.2~~ 22 rdl 1/9/91	~~22~~ 4.2 rdl 1/9/91	

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{\text{(sample + spike) - (sample)}}{\text{spike}}$ X 100 (spikes)

NET

N009

90-11-072
90-11-076

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Menzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90 MBO 01	9/10	0800	AREA A (MARSH) NET 1		G			1	ANIMAL	FREEZE		✓	✓			✓					SPECIMENS SIGNED, ~~DEBEARED, DECLAWED~~ GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04		0700	NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08		0800	NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	9/10/90	1700	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	9/10/90	0800	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by	Date / Time	Received by	Relinquished by	Date / Time	Received by
Denis Blais	11/2/90 11:[illegible] am	[illegible]			
Relinquished by	Date / Time	Received by	Relinquished by	Date / Time	Received for Laboratory by
[illegible]	11/2/90 5:[illegible] pm	Lorie McKinnon	11/2/90 5:25 pm		

Method of Shipment

Remarks:

NET

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON
COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

~~N00~~ N010
90-11-076
90-11-236

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER C/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenolics	Body Lipids				COMMENTS
90MB015	11/27/90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEARED, DECLAWED GUT REMOVED, FREEZE.
90MB016	09/27/90	0800			G			1													
90MB017	09/27/90	0800			G			1													
90MB018	09/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by:	Relinquished by	Date / Time	Received by:
Denis Blais	11/2/90 11:20am	Bonnie Potter			
Relinquished by:	**Date / Time**	**Received by:**	**Relinquished by:**	**Date / Time**	**Received for Laboratory by:**
Bonnie Potter	11/2/90 5:25pm	Lorie MacKinnon	11/2/90 5:25pm		

Method of Shipment NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: FROG LIVER ANALYSIS
Work Order: 90-09-225

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Rec ived: 09/17/90

NET Cambridge REPORT Work Order # 90-09-225
02/04/91 09:00:32

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730
ATTEN
PHONE 617-275-3535

Lori MacKinnon
CERTIFIED BY

CONTACT MACKINNON

CLIENT ATLANTIC_NAV SAMPLES 5
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID FROG LIVER
TAKEN by client
TRANS by hand delivery
TYPE tissue
P.O. #
INV. # 28703

This report is approved for release by the following staff:
Laboratory Director: Michael F. Delaney
Inorganic Laboratory:
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01 POND 1A LIVER
02 POND 1B LIVER
03 POND 1C LIVER
04 POND 1D LIVER
06 LOWER STREAM 2 LIVER

TEST CODES and NAMES used on this report

EXPESS Ext-pesticides/PCBs-SW846
PEST_S Pesticides/PCBS-soil-SW846

NET

Atlantic Environ. Services

NOTES ON PESTICIDE ANALYSIS

The extract for sample POND 1D LIVER was lost in a laboratory accident. It was therefore removed from the workorder. The lipid analysis, however, was done for this sample.

The frog with ID Lower Stream A was too small for a liver analysis to be done.

Due to a limited sample amount for the liver analysis, Pesticides/PCB's and lipid analysis only were able to be done.

NET.

Receiv d: 09/17/90 01/14/91 16:46:18

Atlantic Environ. Servic s

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. Services

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET.

R c ived: 09/17/90

NET Cambridg REPORT

R sults by Sample

Work Order # 90-09-225

SAMPLE ID **POND 1A LIVER**

SAMPLE # **01** FRACTIONS: **G,J**

Date & Time Collected **09/14/90**

Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1A LIVER

FRACTION 01G TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.9

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90

NET Cambridge REPORT

Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1B LIVER

SAMPLE # 02 FRACTIONS: C,D

Date & Time Collected 09/14/90

Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridg REPORT
R sults by Sampl

Work Order # 90-09-225

SAMPLE ID POND 1B LIVER

FRACTION 02C TEST CODE PEST_S NAME Pesticides/PCBS-s il-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	3.0

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Rec ived: 09/17/90

NET Cambridge REPORT

Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1C LIVER

SAMPLE # 03 FRACTIONS: C,D

Date & Time Collected 09/14/90

Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridg REPORT
Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1C LIVER

FRACTION 03C TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **LOWER STREAM 2 LIVER** SAMPLE # **06** FRACTIONS: **C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT Work Ord r # 90-09-225

Results by Sample

SAMPLE ID LOWER STREAM 2 LIVER FRACTION 06C TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	2

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

N_ 0015 9009007 9009225

ATLANTIC ENVIRONMENTAL SERVICES, INC.

188 Norwich Avenue, P.O. Box 297, Colchester, CT 06415

PHONE: (203) 537-0751 FAX: (203)537-6347

CHAIN OF CUSTODY RECORD

PROJECT NAME: Groton Navy Yard

PROJECT NUMBER: 104

ANALYSIS

SAMPLE NO.	DATE	TIME	GRAB	COMP	NO. OF CONT.	SAMPLE MATRIX	Frozen PRSV.	Frozen PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	COMMENTS
Pond 1A	9/14				1	Tissue	Post	Metals	1	Bullfrog - Muscle and Liver							
Pond 1B	↓				1	Tissue	Post	Metals	"						"		
Pond 1C					1	Tissue	Post	Metals	"						"		
Pond 1D					1	Tissue	Post	Metals	3	Frogs - composite muscle & liver							
Lower Stream 1					1	Tissue	Post	Metals	1	Frog - muscle & liver							
Lower Stream 2	↓				1	Tissue	Post	Metals	1	Frog - muscle & liver							

NOTE: Need muscle (thigh) and liver samples analyzed separately. Include skin with thigh muscle

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
Jerome J. Cura	1/16/90 9:30	Jon Freshman	Jon Freshman	1/17/90 10:14	Cynthia Daly
Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received for Laboratory by:

Method of Shipment:

Shipping Waybill No.:

Remarks: Samples stored frozen on 1/17/90
Samples received 9/17/1990 LAM

SAMPLED BY: Jerome J. Cura (Print Name) Jerome J. Cura Signature

(Print Name) Signature

NET

ATLANTIC FORM 1041

PT 1:ORIGINAL PT 2:Laboratory Project Manager-y llow PT 3:Field Copy-pink

HP-20944 9/90

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: CONTROL FROG ANALYSIS
Work Order: 90-11-236

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 11/02/90

NET Cambridg REPORT
02/04/91 08:59:32

Work Order # 90-11-236

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730
ATTEN
PHONE 617-275-3535

Lori MacKinnon
CERTIFIED BY

CONTACT MACKINNON

CLIENT ATLANTIC_NAV SAMPLES 2
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB NLON
TAKEN BY T. LLOYD-EVANS, D. BLAIS
TRANS BY B. POTOCKI
TYPE CONTROL FROG
P.O. #
INV. # 28704

This report is approved for release by the following staff:
Laboratory Director: Michael F. Delaney
Inorganic Laboratory:
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01 90 MBO 18 FROG CONTROL-TIS
02 90 MBO 18 FROG CONTROL-LIV

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. S rvices

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

**NOTES ON METALS ANALYSES

Due to a limited sample amount, Metals and Cyanide analysis was not done on the control frog liver.

The samples were stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Thallium, and Lead were run by graphite furnace.

NET.

Received: 09/17/90

NET Cambridge REPORT
01/14/91 16:46:18

Work Ord r # 90-09-207

Atlantic Environ. Servic s

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. Servic s

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236-02	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET

Received: 11/02/90

NET Cambridg REPORT
Results by Sampl

Work Order # 90-11-236

SAMPLE ID 90 MBO 18 FROG CONTROL-TIS SAMPLE # 01 FRACTIONS: A,B,C,D
Date & Time Collected 08/10/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 13 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 450 ug/g (dry wt)
CA_I_S 240 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 1.1 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 13 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 240 ug/g (dry wt)	MN_I_S 0.68 ug/g (dry wt)	NA_I_S 860 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.65 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 7.4 ug/g (dry wt)					

NET.

Received: 11/02/90

NET Cambridge REPORT Work Order # 90-11-236

Results by Sample

SAMPLE ID 90 MBO 18 FROG CONTROL-TIS FRACTION 01A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846

Date & Time Collected 08/10/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

R ceiv d: 11/02/90

NET Cambridge REPORT
R sults by Sampl

Work Order # 90-11-236

SAMPLE ID 90 MBO 18 FROG CONTROL-LIV SAMPLE # 02 FRACTIONS: A,B
Date & Time Collected 08/10/90 Category LIVER

EXPESS 12/17/90
extraction date

NET

R c ived: 11/02/90

NET Cambridg REPORT Work Order # 90-11-236

Results by Sample

SAMPLE ID 90 MBO 18 FROG CONTROL-LIV FRACTION 02A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846

Date & Time Collected 08/10/90 Category LIVER

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	2

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 1

Duplicate: 9009207-03 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.40	<1.43	0
Al	25.8	10.36	85
As	<0.600	<0.612	0
B	467	413	12
Ba	<3.00	<3.06	0
Be	<0.200	<0.204	0
Ca	270	265	2
Cd	<0.400	<0.408	0
CN			
Co	<1.00	<1.02	0
Cr	<1.00	<1.02	0
Cu	1.10	1.69	42
Fe	16.0	17.1	7
Hg	<0.100	<0.100	0
K	3,030	3,250	7
Mg	224	233	4
Mn	3.22	1.70	62
Na	732	776	6
Ni	<1.40	<1.43	0
Pb	<0.40	0.59	200
Sb	<5.00	<5.10	0
Se	<0.40	1.40	200
Tl	<0.40	0.80	200
V	<4.00	<4.08	0
Zn	6.59	7.03	7

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 2

Spike no: 9009207-03 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	mg/~~Kg~~		
Ag	<1.40	50.0	48.9	98
Al	25.8	0	1,980	---
As	<0.600	2,000	2,090	~~5225~~ 105
B				
Ba	<3.00	2,000	1,870	94
Be	<0.200	50.0	46.9	94
Ca	202	0	1,210	---
Cd	<0.400	50.0	53.2	106
CN				
Co	<1.00	500	551	110
Cr	<1.00	200	218	109
Cu	1.10	250	273	109
Fe	16.0	0	1,170	---
Hg	<0.100	1.00	0.998	100
K	3,030	0	15,800	---
Mg	224	0	1,130	---
Mn	3.22	500	558	111
Na	732	0	3,780	---
Ni	<1.40	500	494	99
Pb	<0.40	500	369	~~1845~~ 74
Sb	<5.00	500	478	96
Se	0.40	2,000	2,350	~~23480~~ 117
Tl	<0.40	2,000	~~2,700~~ 1,700	85
V	<4.00	500	521	104
Zn	6.59	500	551	109

NET

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 4

Blank:	1 LCSHCL (Solid)			2 LCSHGS (Solid)		
	True	Found	% Recov.	True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.458	46			
Al	1.00	1.19	119			
As	1.00	0.912	91			
B	1.00	1.366	137			
Ba	1.00	0.983	98			
Be	0.200	0.188	94			
Ca	5.00	5.32	106			
Cd	1.00	1.02	102			
CN						
Co	1.00	1.13	113			
Cr	1.00	1.07	107			
Cu	1.00	1.06	106			
Fe	1.00	1.14	114			
Hg				0.0127	0.0121	95
K	10.0	9.06	91			
Mg	1.00	0.933	93			
Mn	1.00	1.07	107			
Na	5.00	7.24	145			
Ni	1.00	1.00	100			
Pb	1.00	0.784	78			
Sb	1.00	0.943	94			
Se	1.00	0.885	88			
Tl	~~<0.40~~	~~0.80~~	~~200~~			
V	1.00	1.03	103			
Zn	1.00	1.03	103			

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011236
Page: 3

Blank: PBS
Found

Element	mg/L
Ag	<0.0070
Al	<0.020
As	<0.0030
B	<0.200
Ba	<0.015
Be	0.0019
Ca	0.17
Cd	<0.0020
Ch	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.060
Hg	<0.00010
K	0.75
Mg	<0.040
Mn	0.0061
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	0.082
Se	<0.0010
Tl	<0.0020
V	<0.020
Zn	0.0079

NET

Test Code CN RUN DATE 1/4/91

Analyst rdl Method #

LCS's: Work Orders 90 ~~09~~ 09 207 rdl, 90 11 236

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS Z Rinsed 1/3/91	0.100	0.091	91 %
A Rinsed 1/4/91		0.098	98 %
B Not Rinsed 1/4/91		0.096	96 %
C Not Rinsed 1/4/91		0.094	94 %

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
Blk	<0.01	<0.01
Blk II	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
90 09 207 03 Orig.	5.8 µg	<4.6 µg	23%
03 post dig.	5.8 µg	5.8 µg	0%
90 11 236 01 postdig.	0.166	0.168	1.2%

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
90 09 207 03 DS	25	~~4.2~~ 22 rdl 1/9/91	~~22~~ 4.2 rdl 1/9/91	

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

N009

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Manzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

90-11-072
90-11-076

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY

TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90MBO 01	7/10	1800	AREA A (MARSH) NET 1		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, ~~DEBEARED~~, DECLAWED, GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04			0700 NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08			0800 NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	7/9/90	1900	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	7/10/90	0800	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by:	Date / Time	Received by:	Relinquished by.	Date / Time	Received by.
Denis Blais	11/2/90 11:[illegible]	[illegible]			
Relinquished by	**Date / Time**	**Received by:**	**Relinquished by**	**Date / Time**	**Received for Laboratory by**
[illegible]	11/2/90 5:[illegible] pm	Louis MacKinnon	11/2/90 5:25 pm		

Method of Shipment

Remarks:

NET

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

90-11-073
~~N00~~
N010
90-11-076
90-11-236

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON
COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipids				COMMENTS
90MB015	09/27/90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEARED, DECLAWED, GUT REMOVED, FREEZE.
90MB016	09/27/90	0800			G			1													
90MB017	09/27/90	0800			G			1													
90MB018	08/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Denis Blais	11/2/90 11:20 am	Bonnie Potrek			
Bonnie Potrek	11/2/90 5:25 pm	Lorie MacKinnon 11/2/90 5:25 pm			Received for Laboratory by:

Method of Shipment

Remarks:

NET

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: FROG TISSUE ANALYSIS
Work Order: 90-09-207

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 09/17/90

NET Cambridge REPORT
02/04/91 08:56:13

Work Ord r # 90-09-207

REPORT TO: Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN: Mr. Robert Breeding

CLIENT: ATLANTIC NAV SAMPLES: 6
COMPANY: Atlantic Environ. Services
FACILITY: 188 Norwich Avenue
Colchester, CT 06415

WORK ID: FROG TISSUE
TAKEN: by client
TRANS: by hand delivery
TYPE: FROG TISSUE
P.O. #:
INV. #: 28398

PREPARED BY: NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730

ATTEN:
PHONE: 617-275-3535

Lani MacKinnon
CERTIFIED BY

CONTACT: MACKINNON

This report is approved for release by the following staff:
Laboratory Director: Michael F. Delaney
Inorganic Laboratory:
Organic Laboratory:

DUPLICATE REPORT SENT TO: Mr. Bryan Field
Menzie,Cura, and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	POND 1A MUSCLE
01	POND 1A MUSCLE MS
01	POND 1A MUSCLE MSD
01	POND 1A MUSCLE DUP
02	POND 1B MUSCLE
02	POND 1B MUSCLE
03	POND 1C MUSCLE
03	POND 1C MUSCLE DS
03	POND 1C MUSCLE DUP
03	POND 1C MUSCLE
03	POND 1C MUSCLE SPIKE
03	POND 1C MUSCLE DUP
03	POND 1C MUSCLE
04	POND 1D MUSCLE/BONE
05	LOWER STR.1 WHOLE FROG
06	LOWER STREAM 2 MUSCLE
06	LOWER STREAM 2 MUSCLE

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. Services

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

**NOTES ON METALS ANALYSES

The samples were digested on 01/08/91.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

The samples were stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

NET

Receiv d: 09/17/90 01/14/91 16:46:18

Atlantic Environ. Services

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. S rvic s

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET

NET Cambridge REPORT
Results by Sampl

Work Ord r # 90-09-207

SAMPLE ID POND 1A MUSCLE
SAMPLE # 01 FRACTIONS: A,B,C,D
Date & Time Collected 09/14/90 Category TISSUE

AG_I_S 1.8 ug/g (dry wt)	AL_I_S 470 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 500 ug/g (dry wt)
CA_I_S 3,000 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S 1.2 ug/g (dry wt)	CU_I_S 2.1 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 44 ug/g (dry wt)	HG_CVS <0.10 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 270 ug/g (dry wt)	MN_I_S 3.5 ug/g (dry wt)	NA_I_S 1,000 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.39 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.65 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 11 ug/g (dry wt)					

NET

Received: 09/17/90

NET Cambridge REPORT Work Order # 90-09-207

Results by Sample

SAMPLE ID POND 1A MUSCLE FRACTION 01B TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **POND 1A MUSCLE MS** SAMPLE # **01** FRACTIONS: **E**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

NET Cambridge REPORT Work Order # 90-09-207

Results by Sample

SAMPLE ID POND 1A MUSCLE MS FRACTION 01E TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	17%
Heptachlor	13%
Aldrin	12%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	10%
4,4'-DDE	
Endrin	6.8%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	31%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID POND 1A MUSCLE MSD SAMPLE # 01 FRACTIONS: F
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Rec ived: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-207

SAMPLE ID POND 1A MUSCLE MSD

FRACTION 01F TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	29%
Heptachlor	20%
Aldrin	14%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	17%
4,4'-DDE	
Endrin	13%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	63%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90

NET Cambridge REPORT
R sults by Sample

W rk Order # 90-09-207

SAMPLE ID POND 1B MUSCLE SAMPLE # 02 FRACTIONS: A
Date & Time Collected 09/14/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 16 ug/g (dry wt)	AS_I_S <0.58 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 510 ug/g (dry wt)
CA_I_S 170 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.97 ug/g (dry wt)	CR_I_S <0.97 ug/g (dry wt)	CU_I_S <0.97 ug/g (dry wt)	FE_I_S 15 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 120 ug/g (dry wt)	MN_I_S 2.0 ug/g (dry wt)	NA_I_S 850 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S 0.66 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.58 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)	ZN_I_S 7.2 ug/g (dry wt)

SAMPLE ID POND 1B MUSCLE SAMPLE # 02 FRACTIONS: B,C,D
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Rec ived: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-207

SAMPLE ID POND 1B MUSCLE

FRACTION 02B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-207

SAMPLE ID POND 1C MUSCLE SAMPLE # 03 FRACTIONS: A
Date & Time Collected 09/14/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 26 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 470 ug/g (dry wt)
CA_I_S 270 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S <1.0 ug/g (dry wt)	FE_I_S 15 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 220 ug/g (dry wt)	MN_I_S 3.8 ug/g (dry wt)	NA_I_S 680 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.40 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)	ZN_I_S 6.4 ug/g (dry wt)

NET

SAMPLE ID POND 1C MUSCLE

SAMPLE # 03 FRACTIONS: D,G
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT
Results by Sampl

Work Ord r # 90-09-207

SAMPLE ID POND 1C MUSCLE

FRACTION 03D TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90

NET Cambridge REPORT

Results by Sample

Work Order # 90-09-207

SAMPLE ID POND 1D MUSCLE/BONE SAMPLE # 04 FRACTIONS: A,B,C,D

Date & Time Collected 09/14/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 7.5 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 420 ug/g (dry wt)
CA_I_S 240 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 1.0 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 22 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 220 ug/g (dry wt)	MN_I_S 0.58 ug/g (dry wt)	NA_I_S 930 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.78 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.88 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 7.8 ug/g (dry wt)					

NET

R ceived: 09/17/90

NET Cambridge REPORT Work Ord r # 90-09-207
Results by Sampl

SAMPLE ID POND 1D MUSCLE/BONE FRACTION 04B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID LOWER STR.1 WHOLE FROG SAMPLE # 05 FRACTIONS: A,B,C,D
Date & Time Collected 09/14/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 140 ug/g (dry wt)	AS_I_S <0.58 ug/g (dry wt)	BA_I_S 4.7 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 440 ug/g (dry wt)
CA_I_S 10,600 ug/g (dry wt)	CD_I_S 0.55 ug/g (dry wt)	CO_I_S <0.97 ug/g (dry wt)	CR_I_S <0.97 ug/g (dry wt)	CU_I_S 14 ug/g (dry wt)	EXPESS 12/17/90 extraction date
FE_I_S 360 ug/g (dry wt)	HG_CVS <0.10 ug/g (dry wt)	K_I_S 2,700 ug/g (dry wt)	MG_I_S 600 ug/g (dry wt)	MN_I_S 18 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 2.7 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.84 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 67 ug/g (dry wt)					

NET.

SAMPLE ID LOWER STR.1 WHOLE FROG FRACTION 05B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **LOWER STREAM 2 MUSCLE** SAMPLE # **06** FRACTIONS: **A**
Date & Time Collected **09/14/90** Category

AG_I_S <1.4 ug/g (dry wt)	**AL_I_S** 35 ug/g (dry wt)	**AS_I_S** <0.61 ug/g (dry wt)	**BA_I_S** <3.1 ug/g (dry wt)	**BE_I_S** <0.20 ug/g (dry wt)	**B_I_S** 480 ug/g (dry wt)
CA_I_S 6,400 ug/g (dry wt)	**CD_I_S** <0.41 ug/g (dry wt)	**CO_I_S** <1.0 ug/g (dry wt)	**CR_I_S** <1.0 ug/g (dry wt)	**CU_I_S** <1.0 ug/g (dry wt)	**FE_I_S** 23 ug/g (dry wt)
HG_CVS <0.10 ug/g (dry wt)	**K_I_S** 2,900 ug/g (dry wt)	**MG_I_S** 290 ug/g (dry wt)	**MN_I_S** 2.2 ug/g (dry wt)	**NA_I_S** 1,300 ug/g (dry wt)	**NI_I_S** <1.4 ug/g (dry wt)
PB_I_S <0.41 ug/g (dry wt)	**SB_I_S** 28 ug/g (dry wt)	**SE_I_S** 0.45 ug/g (dry wt)	**TL_I_S** <0.41 mg/kg	**V_I_S** <4.1 ug/g (dry wt)	**ZN_I_S** 11 ug/g (dry wt)

SAMPLE ID **LOWER STREAM 2 MUSCLE** SAMPLE # **06** FRACTIONS: **B,C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-207

SAMPLE ID LOWER STREAM 2 MUSCLE FRACTION 06B TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/22/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 2

Spike no: 9009207-03 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	~~mg/L~~ µg/L		
Ag	<1.40	50.0	48.9	98
Al	25.4	0	2,110	---
As	<0.600	2,000	2,090	~~5225~~ 105
B				
Ba	<3.00	2,000	2,140	107
Be	<0.200	50.0	43.7	87
Ca	270	0	1,320	---
Cd	<0.400	50.0	53.2	106
CN				
Co	<1.00	500	551	110
Cr	<1.00	200	218	109
Cu	1.10	250	273	109
Fe	16.0	0	1,170	---
Hg	<0.100	1.00	0.998	100
K	3,030	0	15,800	---
Mg	224	0	1,130	---
Mn	3.22	500	558	111
Na	732	0	3,780	---
Ni	<1.40	500	494	99
Pb	<0.40	500	369	~~1845~~ 74
Sb	<5.0	600	478	96
Se	<0.40	2,000	2,350	~~29400~~ 117
Tl	<0.40	2,000	1,700	85
V	<4.00	500	521	104
Zn	6.59	500	551	109

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 1

Duplicate: 9009207-03 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.40	<1.43	0
Al	25.4	10.3	85
As	<0.600	<0.612	0
B	467	413	12
Ba	<3.00	<3.06	0
Be	<0.200	<0.204	0
Ca	270	265	2
Cd	<0.400	<0.408	0
CN			
Co	<1.00	<1.02	0
Cr	<1.00	<1.02	0
Cu	1.10	1.69	42
Fe	16.0	17.1	7
Hg	<0.100	<0.100	0
K	3,030	3,250	7
Mg	224	233	4
Mn	3.22	1.70	62
Na	732	776	6
Ni	1.40	<1.43	0
Pb	<0.40	0.59	200
Sb	<5.0	5.1	200
Se	<0.40	1.80	200
Tl	<0.40	0.90	200
V	<4.00	<4.08	0
Zn	6.59	7.03	7

NET

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 4

Blank:	1 LCSHCL (Solid)			2 LCSHGS (Solid)		
	True	Found	% Recov.	True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.456	46			
Al	1.00	1.79	179			
As	1.00	0.912	91			
B	1.00	1.366	137			
Ba	1.00	1.07	107			
Be	0.200	0.181	91			
Ca	5.00	5.02	100			
Cd	1.00	1.02	102			
CN						
Co	1.00	1.13	113			
Cr	1.00	1.07	107			
Cu	1.00	1.06	106			
Fe	1.00	1.14	114			
Hg				0.0127	0.0121	95
K	10.0	9.06	91			
Mg	1.00	0.933	93			
Mn	1.00	1.07	107			
Na	5.00	7.24	145			
Ni	1.00	1.00	100			
Pb	1.00	0.784	78			
Sb	1.00	0.943	94			
Se	1.00	0.885	88			
Tl						
V	1.00	1.03	103			
Zn	1.00	1.03	103			

NET

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: FROG TISSU
Work order: 9009207
Page: 3

Blank: PBS

Element	Found mg/L
Ag	<0.0070
Al	0.034
As	<0.0030
B	<0.200
Ba	<0.015
Be	<0.0010
Ca	0.084
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.060
Hg	<0.00010
K	0.75
Mg	<0.040
Mn	0.0061
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	0.082
Se	<0.0010
Tl	<0.0020
V	<0.020
Zn	0.0079

NET

Test Code CNTTA RUN DATE 1/4/91

Analyst rdl Method #

LCS's: Work Orders 91 01 005

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
WP586	0.100	0.099	99
↓	↓	0.096	96
		0.098	98
		0.096	96

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
DI H_2O	<0.01	<0.01
↓	↓	<0.01
		<0.01
		<0.01
		<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
91 01 005 02	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
91 01 005 02	0.100	0.104	<0.01	104%

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{\text{(sample + spike) - (sample)}}{\text{spike}}$ X 100 (spikes)

NET

№ 0015 9009007
9009225

ATLANTIC ENVIRONMENTAL SERVICES, INC.
188 Norwich Avenue, P.O. Box 297, Colch ster, CT 06415
PHONE: (203) 537-0751 FAX: (203)537-6347

CHAIN OF CUSTODY RECORD

PROJECT NAME: Groton Navy Yard

PROJECT NUMBER: 104

ANALYSIS

SAMPLE NO.	DATE	TIME	GRAB	COMP	NO. OF CONT.	SAMPLE MATRIX	Frozen PRSV.	Frozen PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	COMMENTS
Pond 1A	9/14				1	Tissue	Prot	Metals	1	Bullfrog - Muscle and Liver							
Pond 1B	↓				1	Tissue	Prot	Metals	1						"		
Pond 1C					1	Tissue	Prot	Metals	"						"		
Pond 1D					1	Tissue	Prot	Metals	3	Frogs - composite muscle + liver							
Lower Stream 1					1	Tissue	Prot	Metals	1	Frog - muscle + liver							
Lower Stream 2	↓				1	Tissue	Prot	Metals	1	Frog - muscle + liver							
					Note:	Need	muscle	(thigh)	and								
						liver	samples	analyzed	separately								
						Include	skin	with	thigh	muscle							

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
Jerome J. Cura	1/16/90 9:30	Jon Freshman	Jon Freshman	1/17/90 10:14	Cynthia Dilly
Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received for Laboratory by:

Method of Shipment:

Shipping Waybill No.:

Remarks:
Samples stored frozen @ 9/17/90
Samples received 9/17/1990 @ am

SAMPLED BY: Jerome J. Cura (Print Name) — Jerome J. Cura Signature
(Print Name) — Signature

NET

ATLANTIC FORM 1041
PT 1:ORIGINAL PT 2:Laboratory Project Manager-y llow PT 3:Field Copy-pink

HP-20944 9/90

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: FROG LIVER ANALYSIS
Work Order: 90-09-225

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

R c iv d: 09/17/90

NET Cambridge REPORT
02/04/91 09:00:32

Work Ord r # 90-09-225

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730
ATTEN
PHONE 617-275-3535

Lorie Mackinnon
CERTIFIED BY

CONTACT MACKINNON

CLIENT ATLANTIC_NAV SAMPLES 5
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID FROG LIVER
TAKEN by client
TRANS by hand delivery
TYPE tissue
P.O. #
INV. # 28703

This report is approved for release by the following staff:
Laboratory Director:
Inorganic Laboratory: Michael F. Delaney
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01 POND 1A LIVER
02 POND 1B LIVER
03 POND 1C LIVER
04 POND 1D LIVER
06 LOWER STREAM 2 LIVER

TEST CODES and NAMES used on this report

EXPESS Ext-pesticides/PCBs-SW846
PEST_S Pesticides/PCBS-soil-SW846

NET

Atlantic Environ. Services

NOTES ON PESTICIDE ANALYSIS

The extract for sample POND 1D LIVER was lost in a laboratory accident. It was therefore removed from the workorder. The lipid analysis, however, was done for this sample.

The frog with ID Lower Stream A was too small for a liver analysis to be done.

Due to a limited sample amount for the liver analysis, Pesticides/PCB's and lipid analysis only were able to be done.

NET

Receiv d: 09/17/90

NET Cambridge REPORT
01/14/91 16:46:18

Work Order # 90-09-207

Atlantic Environ. S rvic s

Percent Lipids Analysis in Frog Tissue and Liver (per gram of tissue extracted).

NET ID	Sample ID	Matrix	Percent Lipids
90-09-207-01B	POND 1A	TISSUE	4 mg/gm
90-09-207-01B MS	POND 1A DUP	TISSUE	8 mg/gm
90-09-207-01B MSD	POND 1A DUP	TISSUE	7.2 mg/gm
90-09-207-02B	POND 1B	TISSUE	1 mg/gm
90-09-207-03B	POND 1C	TISSUE	1 mg/gm
90-09-207-04B	POND 1D	TISSUE	7 mg/gm
90-09-207-05B	LOWER STREAM 1	TISSUE	5 mg/gm
90-09-207-06B	LOWER STREAM 2	TISSUE	0 mg/gm
90-09-225-01G	POND 1A	LIVER	24.4 mg/gm
90-09-225-02C	POND 1B	LIVER	18.5 mg/gm
90-09-225-03C	POND 1C	LIVER	0 mg/gm
90-09-225-04C	POND 1D	LIVER	112 mg/gm
90-09-225-06C	LOWER STREAM 2	LIVER	93.3 mg/gm
90-11-236-01A	90 MBO 18	TISSUE	0 mg/gm
90-11-236-02A	90 MBO 18	LIVER	7.5 mg/gm

NET

Atlantic Environ. Servic s

Cyanide Analysis in Frog Tissue and Liver (wet weight).

NET ID	Sample ID	Matrix	Cyanide
90-09-207-01C	POND 1A	TISSUE	<4.7 mg/kg
90-09-207-02C	POND 1B	TISSUE	17 mg/kg
90-09-207-03G	POND 1C	TISSUE	5.8 mg/kg
90-09-207-03H	POND 1C SPIKE	TISSUE	71%
90-09-207-03I	POND 1C DUPLICATE	TISSUE	<4.6 mg/kg
90-09-207-04C	POND 1D	TISSUE	4.1 mg/kg
90-09-207-05C	LOWER STREAM 1	TISSUE	<10 mg/kg
90-09-207-06C	LOWER STREAM 2	TISSUE	5.4 mg/kg
90-09-225	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		
90-11-236-01	90 MBO 18-CONTROL	TISSUE	56 mg/kg
90-11-236	LIVER ANALYSIS NOT DONE--LIMITED SAMPLE		

NET.

Received: 09/17/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1A LIVER

SAMPLE # 01 FRACTIONS: G,J
Date & Time Collected 09/14/90 Category TISSUE

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridge REPORT Work Order # 90-09-225

Results by Sample

SAMPLE ID POND 1A LIVER

FRACTION 01G TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.9

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT

Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1B LIVER

SAMPLE # 02 FRACTIONS: C,D

Date & Time Collected 09/14/90

Category TISSUE

EXPESS 12/17/90
extraction date

NET

NET Cambridge REPORT
R sults by Sampl

SAMPLE ID POND 1B LIVER

FRACTION 02C TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	3.0

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

SAMPLE ID **POND 1C LIVER** SAMPLE # **03** FRACTIONS: **C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridg REPORT
Results by Sample

Work Order # 90-09-225

SAMPLE ID POND 1C LIVER

FRACTION 03C TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/14/90 Category TISSUE

Analysis
Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 09/17/90

NET Cambridge REPORT
R sults by Sample

Work Order # 90-09-225

SAMPLE ID **LOWER STREAM 2 LIVER**

SAMPLE # **06** FRACTIONS: **C,D**
Date & Time Collected **09/14/90** Category **TISSUE**

EXPESS 12/17/90
extraction date

NET

Received: 09/17/90

NET Cambridg REPORT Work Ord r # 90-09-225

Results by Sample

SAMPLE ID LOWER STREAM 2 LIVER FRACTION 06C TEST CODE PEST_S NAME P sticides/PCBs-soil-SW846

Date & Time Collected 09/14/90 Category TISSUE

Analysis Completed: 01/25/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	2

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

№ 0015 9009207 9009225

ATLANTIC ENVIRONMENTAL SERVICES, INC.
188 Norwich Avenue, P.O. Box 297, Colchest r, CT 06415
PHONE: (203) 537-0751 FAX: (203)537-6347

CHAIN OF CUSTODY RECORD

PROJECT NAME: Groton Navy Yard

PROJECT NUMBER: 104

ANALYSIS

SAMPLE NO.	DATE	TIME	GRAB	COMP	NO. OF CONT.	SAMPLE MATRIX	Frozen PRSV.	Frozen PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	PRSV.	COMMENTS
Pond 1A	9/14				1	Tissue	Prot	Metals	1	Bullfrog - Muscle and Liver								
Pond 1B	↓				1	Tissue	Prot	Metals	"							"		
Pond 1C					1	Tissue	Prot	Metals	"							"		
Pond 1D					1	Tissue	Prot	Metals	3	Frogs - composite muscle + liver								
Lower Stream 1					1	Tissue	Prot	Metals	1	Frog - muscle + liver								
Lower Stream 2	↓				1	Tissue	Prot	Metals	1	Frog - muscle + liver								

Note: Need muscle (thigh) and liver samples analyzed separately. Include skin with thigh muscle

Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received by:
Jerome J. Cura	1/16/90 9:30	Jon Freshman	Jon Freshman	1/17/90 10:14	Cynthia Dailey
Relinquished by:	Date/Time	Received by:	Relinquished by:	Date/Time	Received for Laboratory by:

Method of Shipment:

Shipping Waybill No.:

Remarks: Samples stored frozen on 1/17/90
Samples received 9/17/1990 AM

SAMPLED BY: Jerome J. Cura (Print Name) Jerome J. Cura Signature

(Print Name) Signature

NET

ATLANTIC FORM 1041
PT 1:ORIGINAL PT 2:Laboratory Project Manager-y llow PT 3:Field Copy-pink

HP-20944 9/90

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: BIRD ANALYSIS
Work Order: 90-11-073

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Received: 11/02/90 02/04/91 09:02:09

REPORT TO Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

CLIENT ATLANTIC NAV SAMPLES 10
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB NLON
TAKEN BY T. LLOYD-EVANS D. BLAIS
TRANS BY B. POTOCKI
TYPE TISSUE, BIRDS
P.O. #
INV. # 28399

PREPARED BY NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730

Lori MacKinnon
CERTIFIED BY

ATTEN
PHONE 617-275-3535

CONTACT MACKINNON

This report is approved for release by the following staff:
Laboratory Director:
Inorganic Laboratory: Michael F. Delaney
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	90 MBO 01
02	90-MBO 02
03	90 MBO 03
04	90 MBO 04
05	90 MBO 05
06	90 MBO 06
07	90 MBO 07
08	90 MBO 08
09	90 MBO 09
10	90 MBO 10

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Received: [illegible] [illegible] 09:02:09

Atlantic Environ. Services

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-073-01A,D	90 MBO 01	<2.5 mg/kg	17 mg/gm
90-11-073-02A,D	90 MBO 02	<2.5 mg/kg	15 mg/gm
90-11-073-03A,D	90 MBO 03	<2.5 mg/kg	13 mg/gm
90-11-073-04A,D	90 MBO 04	<2.5 mg/kg	16 mg/gm
90-11-073-05A,D	90 MBO 05	<2.5 mg/kg	14 mg/gm
90-11-073-06A,D	90 MBO 06	<2.5 mg/kg	13 mg/gm
90-11-073-07A,D	90 MBO 07	<2.5 mg/kg	15 mg/gm
90-11-073-08A,D	90 MBO 08	<2.5 mg/kg	16 mg/gm
90-11-073-09A,D	90 MBO 09	<2.5 mg/kg	15 mg/gm
90-11-073-10A,D	90 MBO 10	<2.5 mg/kg	17 mg/gm
90-11-076-01A,D	90 MBO 14	<2.5 mg/kg	17.5 mg/gm
90-11-076-02A,D	90 MBO 15	<2.5 mg/kg	18 mg/gm
90-11-076-03A,D	90 MBO 16	<2.5 mg/kg	18 mg/gm
90-11-076-04A,D	90 MBO 17	<2.5 mg/kg	17 mg/gm
90-11-076-04DS	90 MBO 17 DS,DUP	98%	23 mg/gm
90-[illegible]04DUP	90 MBO 17 DUP	<2.5 mg/kg	28 mg/gm

NET

Atlantic Environ. Services

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-076-06A	90 MBO 11	<2.5 mg/kg	18 mg/gm
90-11-076-07A	90 MBO 12	<2.5 mg/kg	16 mg/gm
90-11-076-08A	90 MBO 13	<2.5 mg/kg	12.7 mg/gm

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

** NOTES ON METALS ANALYSES

The samples were collected and stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

NET

R ceiv d: 11/02/90

NET Cambridge REPORT

Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 01

SAMPLE # 01 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.3 ug/g (wet wt)	AL_I_S 34 ug/g (wet wt)	AS_I_S <0.58 ug/g (wet wt)	BA_I_S <2.9 ug/g (wet wt)	BE_I_S <0.19 ug/g (wet wt)	B_I_S 630 ug/g (wet wt)
CA_I_S 1,680 ug/g (wet wt)	CD_I_S <0.38 ug/g (wet wt)	CO_I_S <0.96 ug/g (wet wt)	CR_I_S <0.96 ug/g (wet wt)	CU_I_S 7.9 ug/g (wet wt)	EXPESS 01/07/91 extraction date
FE_I_S 170 ug/g (wet wt)	HG_CVS <0.10 ug/g (wet wt)	K_I_S 2,900 ug/g (wet wt)	MG_I_S 210 ug/g (wet wt)	MN_I_S 1.3 ug/g (wet wt)	NA_I_S 1,300 ug/g (wet wt)
NI_I_S 1.5 ug/g (wet wt)	PB_I_S <0.38 ug/g (wet wt)	SB_I_S <4.8 ug/g (wet wt)	SE_I_S 1.1 ug/g (wet wt)	TL_I_S <3.8 mg/kg (wet wt)	V_I_S <3.8 ug/g (wet wt)
ZN_I_S 17 ug/g (wet wt)					

NET

Receiv d: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-11-073

SAMPLE ID 90 MBO 01

FRACTION 01A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT Work Order # 90-11-073

Results by Sample

SAMPLE ID 90-MBO 02 SAMPLE # 02 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 6.9 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S 4.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 13,400 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S 1.4 ug/g (dry wt)	CU_I_S 4.8 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 65 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 430 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,300 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 2.3 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 1.0 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 30 ug/g (dry wt)					

NET

Receiv d: 11/02/90

NET Cambridge REPORT
R sults by Sampl

Work Order # 90-11-073

SAMPLE ID 90-MBO 02

FRACTION 02A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Receiv d: 11/02/90

NET Cambridg REPORT

Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 03

SAMPLE # 03 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90

Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 8.7 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 740 ug/g (dry wt)
CA_I_S 9,100 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S 7.3 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 90 ug/g (dry wt)	HG_CVS <0.095 ug/g (dry wt)	K_I_S 3,200 ug/g (dry wt)	MG_I_S 330 ug/g (dry wt)	MN_I_S 1.8 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.0 ug/g (dry wt)	SB_I_S 6.2 ug/g (dry wt)	SE_I_S 0.94 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 24 ug/g (dry wt)					

NET

Rec ived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 03

FRACTION 03A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	1

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridg REPORT

Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 04

SAMPLE # 04 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 9.8 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 760 ug/g (dry wt)
CA_I_S 8,000 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 7.6 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 66 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 340 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.1 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.77 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 24 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 04

FRACTION 04A TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 05 SAMPLE # 05 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 730 ug/g (dry wt)
CA_I_S 6,100 ug/g (dry wt)	CD_I_S <0.38 ug/g (dry wt)	CO_I_S <0.95 ug/g (dry wt)	CR_I_S <0.95 ug/g (dry wt)	CU_I_S 11 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 78 ug/g (dry wt)	HG_CVS <0.074 ug/g (dry wt)	K_I_S 3,200 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 2.4 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 1.9 ug/g (dry wt)	SB_I_S <4.8 ug/g (dry wt)	SE_I_S 0.80 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET

Rec ived: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 05

FRACTION 05A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT

Results by Sample

Work Order # 90-11-073

SAMPLE ID 90 MBO 06

SAMPLE # 06 FRACTIONS: A,B,C,D

Date & Time Collected 08/16/90

Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 7.7 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 2,900 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 6.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 430 ug/g (dry wt)	HG_CVS <0.057 ug/g (dry wt)	K_I_S 3,400 ug/g (dry wt)	MG_I_S 270 ug/g (dry wt)	MN_I_S 1.7 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S 1.6 ug/g (dry wt)	PB_I_S 1.0 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.67 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridg REPORT
Results by Sampl

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 06

FRACTION 06A TEST CODE PEST S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT
R sults by Sampl

Work Order # 90-11-073

SAMPLE ID 90 MBO 07 SAMPLE # 07 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S 8.4 ug/g (dry wt)	AL_I_S 44 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S 0.40 ug/g (dry wt)	B_I_S 820 ug/g (dry wt)
CA_I_S 2,600 ug/g (dry wt)	CD_I_S 2.2 ug/g (dry wt)	CO_I_S 4.5 ug/g (dry wt)	CR_I_S 5.9 ug/g (dry wt)	CU_I_S 11 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 130 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 4,100 ug/g (dry wt)	MG_I_S 310 ug/g (dry wt)	MN_I_S 2.5 ug/g (dry wt)	NA_I_S 1,400 ug/g (dry wt)
NI_I_S 8.0 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S 21 ug/g (dry wt)	SE_I_S 0.52 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S 6.3 ug/g (dry wt)
ZN_I_S 16 ug/g (dry wt)					

NET

R ceiv d: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-073
Results by Sampl

SAMPLE ID 90 MBO 07

FRACTION 07A TEST CODE PEST_S NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Receiv d: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 08 SAMPLE # 08 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 6,000 ug/g (dry wt)	CD_I_S <0.039 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 3.1 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 76 ug/g (dry wt)	HG_CVS <0.087 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 0.90 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.98 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.39 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

Rec ived: 11/02/90

NET Cambridge REPORT
R sults by Sampl

Work Order # 90-11-073

SAMPLE ID 90 MBO 08

FRACTION 08A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT
Results by Sample

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 09 SAMPLE # 09 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <6.0 ug/g (dry wt)	AS_I_S <0.60 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 720 ug/g (dry wt)
CA_I_S 4,400 ug/g (dry wt)	CD_I_S <0.40 ug/g (dry wt)	CO_I_S <1.0 ug/g (dry wt)	CR_I_S <1.0 ug/g (dry wt)	CU_I_S 4.3 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 150 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 280 ug/g (dry wt)	MN_I_S 1.6 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S 0.46 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 20 ug/g (dry wt)					

NET.

R ceiv d: 11/02/90

NET Cambridge REPORT Work Order # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 09

FRACTION 09A TEST CODE PEST S NAME Pesticides/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridge REPORT
Results by Sample

Work Ord r # 90-11-073

SAMPLE ID 90 MBO 10 SAMPLE # 10 FRACTIONS: A,B,C,D
Date & Time Collected 08/16/90 Category TISSUE

AG_I_S 1.4 ug/g (dry wt)	AL_I_S 6.5 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 710 ug/g (dry wt)
CA_I_S 1,920 ug/g (dry wt)	CD_I_S <0.39 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S 1.0 ug/g (dry wt)	CU_I_S 4.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 83 ug/g (dry wt)	HG_CVS <0.087 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 230 ug/g (dry wt)	MN_I_S 2.2 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S <0.40 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.37 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 14 ug/g (dry wt)					

NET

R ceived: 11/02/90

NET Cambridg REPORT

Work Ord r # 90-11-073

Results by Sample

SAMPLE ID 90 MBO 10

FRACTION 10A TEST CODE PEST S NAME P sticid s/PCBS-soil-SW846

Date & Time Collected 08/16/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.75

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 1

Duplicate: 9011076-04 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.37	<1.37	0
Al	5.88	<5.88	0
As	<0.588	<0.580	0
B			
Ba	<2.94	5.64	200
Be	<0.196	<0.196	0
Ca	3.670	20.800	137
Cd	<0,39	<0,39	0
CN			
Co	<0.980	<0.980	0
Cr	<0.980	1.23	200
Cu	4.82	3.91	21
Fe	129	202	44
Hg	<0.0909	<0.0909	0
K	3,130	2,740	13
Mg	279	507	58
Mn	1.14	2.04	57
Na	1,100	1,200	8.7
Ni	<1.37	<1.37	0
Pb	0.412	1.65	120
Sb	<4.90	<4.90	0
Se	0.275	1.24	127
Tl	<0,39	<0,39	0
V	<3.92	<3.92	0
Zn	16.5	30.2	59

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 2

Spike no: 9011076-04 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	mg/~~Kg~~		
Ag	<1.37	50.0	45.1	90
Al	<5.86	0	1,920	---
As	<0.588	2000	1,980	~~4750~~ 99
B				
Ba	12.94	2,000	1,850	93
Be	<0.196	50.0	46.4	93
Ca	3,870	0	190,000	---
Cd	<0.38	50	43	86
CN				
Co	<0.980	500	461	92
Cr	<0.980	200	189	95
Cu	4.82	250	264	104
Fe	129	0	1.620	---
Hg	<0.0909	1.00	0.436	44
K	3,130	0	16.600	---
Mg	279	0	4.130	---
Mn	1.14	500	487	97
Na	0	0	8,500	---
Ni	<1.37	500	466	93
Pb	0.412	500.0	500.0	~~253~~ 100
Sb	<4.90	500	533	107
Se	0.27	2,000	1,830	78
Tl	<0.39	2,000	0.485	24
V	<3.92	500	453	91
Zn	16.5	500	729	143

QC SUMMARY FOR INORGANICS REPORT: LABORATORY CONTROL STANDARDS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 4

Blank:	1 LCSHCL (Solid)			2 LCSHCLS (Solid)		
	True	Found	% Recov.	True	Found	% Recov.
Element	mg/L	mg/L		mg/L	mg/L	
Ag	1.00	0.321	32	0.0222	0.321	1446
Al	1.00	1.05	105	0.325	1.05	323
As	1.00	0.962	96			
B	1.00	1.12	112			
Ba	1.00	0.950	95	0.00480	0.950	19792
Be	0.200	0.191	96	0.0194	0.191	985
Ca	5.00	5.03	101	196	5.03	3
Cd	1.00	0.876	88			
CN						
Co	1.00	0.983	98	0.144	0.983	683
Cr	1.00	0.974	97	0.0996	0.974	978
Cu	1.00	1.01	101	6.91	1.01	15
Fe	1.00	1.01	101	22.4	1.01	5
Hg	0.0040	0.0039	98			
K	10.0	9.82	98	0.0500	9.82	19640
Mg	1.00	0.874	87	118	0.874	1
Mn	1.00	0.982	98	0.208	0.982	472
Na	5.00	5.116	102			
Ni	1.00	0.990	99	0.0609	0.990	1626
Pb	1.00	0.882	88			
Sb	1.00	0.906	91	0.211	0.906	429
Se	1.00	0.939	94			
Tl						
V	1.00	0.957	96			
Zn	1.00	0.962	96			

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

N[redacted]-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 3

Blank: PBS
Found

Element

	mg/L
Ag	<0.0070
Al	<0.030
As	<0.0030
B	<0.20
Ba	<0.015
Be	<0.0010
Ca	0.093
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.022
Hg	<0.00010
K	<0.54
Mg	<0.040
Mn	<0.0020
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	<0.025
Se	<0.0020
Tl	<0.0020
V	<0.020
Zn	0.0088

Test Code CNTC-S, CNTC-A RUN DATE 01.21.1991

Analyst TSm Method #

LCS's: Work Orders 9101098, 9101157, 9101164, 9101221, 9101222, 9011073, 9011076

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS 1.11.91	0.10	0.081	81
1.17.91		0.098	98
1.18.91		0.086	86

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
BLK dis 1.11.91	<0.01	<0.01
1.17.91	<0.01	<0.01
1.18.91	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
9101157-1	<0.01	<0.01	0
9011076-4	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
9101157-1	0.100	0.098	<0.01	98
9011076-4	0.100	0.095	<0.01	95

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

N009

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Menzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc.

90-11-073
90-11-076

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90 MBO 01	11/2/90	0800	AREA A (MARSH) NET 1		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEAKED, DECLAWED, GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04		0700	NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08		0800	NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	8/29/90	1900	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	8/30/90	0700	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Denis Blais	11/2/90 11:30am	Bonnie Tatrek			
Bonnie Tatrek	11/2/90 5:25pm	Louis McKinnon 11/2/90 5:25pm			Received for Laboratory by:

Method of Shipment
NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

90-11-073

~~N00~~

N010

90-11-076

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON

COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA

ADDRESS

PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730

Formerly Cambridge Analytical Associates, Inc

90-11-236

SAMPLED BY

TREVOR LLOYD-EVANS (Print Name) — Signature: Trevor L. Lloyd-Evans

DENIS BLAIS (Print Name) — Signature: Denis Blais

ANALYSES

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipids				COMMENTS
90MB015	09/27/90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED, DEBEARED, DECLAWED, GUT REMOVED, FREEZE.
90MB016	09/29/90	0800			G			1													
90MB017	09/29/90	0800			G			1													
90MB018	09/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE			✓	✓			✓				WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by:	Relinquished by	Date / Time	Received by:
Denis Blais	11/7/90 11:20 am	Bonnie Potock			
Bonnie Potock	11/2/90 5:25 pm	Lorie MacKinnon 11/2/90 5:25 pm			Received for Laboratory by:

Method of Shipment

NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

R E P O R T T O

Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
Attn: Mr. Robert Breeding
Mr. Bryan Field
Work ID: BIRD ANALYSIS
Work Order: 90-11-076

P.O. No.:

NET Atlantic, Cambridge Division
12 Oak Park
Bedford, MA 01730

NET

Rec ived: 11/02/90

NET Cambridg REPORT
02/04/91 09:06:33

Work Ord r # 90-11-076

REPORT TO
Atlantic Environ. Services
188 Norwich Avenue
P.O. Box 297
Colchester, CT 06415
ATTEN Mr. Robert Breeding

PREPARED BY
NET Atlantic, Cambridge Div.
12 Oak Park
Bedford, MA 01730

Lorie MacKinnon
CERTIFIED BY

ATTEN
PHONE 617-275-3535

CONTACT MACKINNON

CLIENT ATLANTIC_NAV SAMPLES 7
COMPANY Atlantic Environ. Services
FACILITY 188 Norwich Avenue
Colchester, CT 06415

WORK ID NAVY NSB_NLON
TAKEN BY T. LLOYD-EVANS, D. BLAIS
TRANS BY B. POTOCKI
TYPE BIRD TISSUE
P.O. #
INV. # 28400

This report is approved for release by the following staff:
Laboratory Director:
Inorganic Laboratory: Michael P. Delaney
Organic Laboratory:

SEND ADDITIONAL REPORT TO: Mr. Bryan Field
Menzie, Cura and Assoc.
1 Courthouse Lane Suite 2
Chelmsford, MA 01824

SAMPLE IDENTIFICATION

01	90 MBO 14
02	90 MBO 15
03	90 MBO 16
03	90 MBO 16 DUPLICATE
03	90 MBO 16
04	90 MBO 17
04	90 MBO 17 MS
04	90 MBO 17 MSD
04	90 MBO 17
04	90 MBO 17 DS
04	90 MBO 17 DUP
04	90 MBO 17
04	90 MBO 17 SPIKE
04	90 MBO 17 DUPLICATE
06	90 MBO 11
07	90 MBO 12
08	90 MBO 13

TEST CODES and NAMES used on this report

AG_I_S	Silver (Ag)-ICP
AL_I_S	Aluminum (Al)-ICP
AS_I_S	Arsenic (As)-ICP
BA_I_S	Barium (Ba)-ICP
BE_I_S	Beryllium (Be)-ICP
B_I_S	Boron (B)-ICP
CA_I_S	Calcium (Ca)-ICP
CD_I_S	Cadmium (Cd)-ICP
CO_I_S	Cobalt (Ca)-ICP
CR_I_S	Chromium (Cr)-ICP
CU_I_S	Copper (Cu)-ICP
EXPESS	Ext-pesticides/PCBs-SW846
FE_I_S	Iron (Fe)-ICP
HG_CVS	Mercury (Hg)-cold vapor
K_I_S	Potassium (K)-ICP
MG_I_S	Magnesium (Mg)-ICP
MN_I_S	Manganese (Mn)-ICP
NA_I_S	Sodium (Na)-ICP
NI_I_S	Nickel (Ni)-ICP
PB_I_S	Lead (Pb)-ICP
PEST_S	Pesticides/PCBS-soil-SW846
SB_I_S	Antimony (Sb)-ICP
SE_I_S	Selenium (Se)-ICP
TL_I_S	Thallium (Tl)-ICP
V_I_S	Vanadium (V)-ICP
ZN_I_S	Zinc (Zn)-ICP

NET

Atlantic Environ. Services

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-073-01A,D	90 MBO 01	<2.5 mg/kg	17 mg/gm
90-11-073-02A,D	90 MBO 02	<2.5 mg/kg	15 mg/gm
90-11-073-03A,D	90 MBO 03	<2.5 mg/kg	13 mg/gm
90-11-073-04A,D	90 MBO 04	<2.5 mg/kg	16 mg/gm
90-11-073-05A,D	90 MBO 05	<2.5 mg/kg	14 mg/gm
90-11-073-06A,D	90 MBO 06	<2.5 mg/kg	13 mg/gm
90-11-073-07A,D	90 MBO 07	<2.5 mg/kg	15 mg/gm
90-11-073-08A,D	90 MBO 08	<2.5 mg/kg	16 mg/gm
90-11-073-09A,D	90 MBO 09	<2.5 mg/kg	15 mg/gm
90-11-073-10A,D	90 MBO 10	<2.5 mg/kg	17 mg/gm
90-11-076-01A,D	90 MBO 14	<2.5 mg/kg	17.5 mg/gm
90-11-076-02A,D	90 MBO 15	<2.5 mg/kg	18 mg/gm
90-11-076-03A,D	90 MBO 16	<2.5 mg/kg	18 mg/gm
90-11-076-04A,D	90 MBO 17	<2.5 mg/kg	17 mg/gm
90-11-076-04DS	90 MBO 17 DS,DUP	98%	23 mg/gm
90-[illegible]04DUP	90 MBO 17 DUP	<2.5 mg/kg	28 mg/gm

Atlantic Environ. S rvic s

Percent Lipids Analysis in Bird Tissue (per gram of tissue extracted).
Cyanide Analysis in Bird Tissue.

NET ID	Sample ID	Cyanide	Percent Lipids
90-11-076-06A	90 MBO 11	<2.5 mg/kg	18 mg/gm
90-11-076-07A	90 MBO 12	<2.5 mg/kg	16 mg/gm
90-11-076-08A	90 MBO 13	<2.5 mg/kg	12.7 mg/gm

** NOTES ON ALL ANALYSES

All analyses were reported on a wet weight basis.

** NOTES ON METALS ANALYSES

The samples were collected and stored in glass (Borosilicate) containers.
The reported Boron results may be elevated due to leaching from the glass.

Arsenic, Selenium, Lead, and Thallium were run by graphite furnace.

NET.

SAMPLE ID 90 MBO 14 SAMPLE # 01 FRACTIONS: A,B,C,D
Date & Time Collected 08/30/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 700 ug/g (dry wt)
CA_I_S 8,400 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S <0.98 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 67 ug/g (dry wt)	HG_CVS <0.083 ug/g (dry wt)	K_I_S 2,700 ug/g (dry wt)	MG_I_S 310 ug/g (dry wt)	MN_I_S 2.5 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 0.53 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.35 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)
ZN_I_S 22 ug/g (dry wt)					

NET.

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Ord r # 90-11-076

SAMPLE ID 90 MBO 14

FRACTION 01A TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 08/30/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 15 SAMPLE # 02 FRACTIONS: A,B,C,D
Date & Time Collected 09/28/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S 3.1 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 13,600 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.94 ug/g (dry wt)	CR_I_S <0.94 ug/g (dry wt)	CU_I_S 3.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 91 ug/g (dry wt)	HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 430 ug/g (dry wt)	MN_I_S 2.2 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 0.77 ug/g (dry wt)	SB_I_S 5.8 ug/g (dry wt)	SE_I_S 0.38 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 26 ug/g (dry wt)					

NET

R ceived: 11/02/90

NET Cambridg REPORT
Results by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 15

FRACTION 02A TEST CODE PEST S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 09/28/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

R ceived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 16

SAMPLE # 03 FRACTIONS: A,B
Date & Time Collected 09/27/90

Category TISSUE

EXPESS 01/07/91
extraction date

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 16

FRACTION 03A TEST CODE PEST_8 NAME Pesticides/PCBS-soil-SW846
Date & Time Collected 09/27/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT

Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 16 SAMPLE # 03 FRACTIONS: D,E
Date & Time Collected 09/27/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 6.5 ug/g (dry wt)	AS_I_S <0.58 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 590 ug/g (dry wt)
CA_I_S 4,900 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.96 ug/g (dry wt)	CR_I_S <0.96 ug/g (dry wt)	CU_I_S 5.5 ug/g (dry wt)	FE_I_S 95 ug/g (dry wt)
HG_CVS <0.087 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 260 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)	NI_I_S <1.3 ug/g (dry wt)
PB_I_S 0.42 ug/g (dry wt)	SB_I_S <4.8 ug/g (dry wt)	SE_I_S 0.19 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)	ZN_I_S 17 ug/g (dry wt)

SAMPLE ID 90 MBO 17 SAMPLE # 04 FRACTIONS: A
Date & Time Collected 09/29/90 Category TISSUE

EXPESS 01/07/91
extraction date

NET

NET Cambridg REPORT Work Ord r # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 17

FRACTION 04A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 09/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
R sults by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 17 MS

SAMPLE # 04 FRACTIONS: B
Date & Time Collected 09/29/90

Category TISSUE

EXPESS 01/07/91
extraction date

NET

Received: 11/02/90

NET Cambridge REPORT Work Ord r # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 17 MS

FRACTION 04B TEST CODE PEST S NAME Pesticid s/PCBS-soil-SW846

Date & Time Collected 09/29/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	11%
Heptachlor	7%
Aldrin	5%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	33%
4,4'-DDE	
Endrin	6%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	6%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 17 MSD

SAMPLE # 04 FRACTIONS: C
Date & Time Collected 09/29/90

Category TISSUE

EXPESS 01/07/91
extraction date

NET

NET Cambridg REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 17 MSD

FRACTION 04C TEST CODE PEST_S NAME P sticides/PCBS-soil-SW846
Date & Time Collected 09/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	10%
Heptachlor	5%
Aldrin	4%
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	28%
4,4'-DDE	
Endrin	6%
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	3%
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

Rec ived: 11/02/90

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 17

SAMPLE # 04 FRACTIONS: D,E
Date & Time Collected 09/29/90 Category

AG_I_S <1.4 ug/g (dry wt)	AL_I_S <5.9 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <2.9 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 710 ug/g (dry wt)
CA_I_S 3,900 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.98 ug/g (dry wt)	CR_I_S <0.98 ug/g (dry wt)	CU_I_S 4.8 ug/g (dry wt)	FE_I_S 130 ug/g (dry wt)
HG_CVS <0.091 ug/g (dry wt)	K_I_S 3,100 ug/g (dry wt)	MG_I_S 280 ug/g (dry wt)	MN_I_S 1.1 ug/g (dry wt)	NA_I_S 1,100 ug/g (dry wt)	NI_I_S <1.4 ug/g (dry wt)
PB_I_S 0.41 ug/g (dry wt)	SB_I_S <4.9 ug/g (dry wt)	SE_I_S 0.27 ug/g (dry wt)	TL_I_S <0.39 mg/kg	V_I_S <3.9 ug/g (dry wt)	ZN_I_S 17 ug/g (dry wt)

NET

NET Cambridge REPORT
Results by Sample

Work Order # 90-11-076
Continued From Above

SAMPLE ID 90 MBO 11 SAMPLE # 06 FRACTIONS: A,B,C,D
Date & Time Collected 08/29/90 Category TISSUE

AG_I_S <1.3 ug/g (dry wt)	AL_I_S 8.7 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S <2.8 ug/g (dry wt)	BE_I_S <0.19 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 7,100 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.94 ug/g (dry wt)	CR_I_S <0.94 ug/g (dry wt)	CU_I_S 3.7 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 120 ug/g (dry wt)	HG_CVS <0.063 ug/g (dry wt)	K_I_S 3,300 ug/g (dry wt)	MG_I_S 350 ug/g (dry wt)	MN_I_S 1.5 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.3 ug/g (dry wt)	PB_I_S 0.47 ug/g (dry wt)	SB_I_S <4.7 ug/g (dry wt)	SE_I_S 1.0 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S <3.8 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

Receiv d: 11/02/90

NET Cambridge REPORT
R sults by Sample

Work Ord r # 90-11-076

SAMPLE ID 90 MBO 11

FRACTION 06A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846
Date & Time Collected 08/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridg REPORT
R sults by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 12 SAMPLE # 07 FRACTIONS: A,B,C,D
Date & Time Collected 08/29/90 Category TISSUE

AG_I_S <1.4 ug/g (dry wt)	AL_I_S 11 ug/g (dry wt)	AS_I_S <0.59 ug/g (dry wt)	BA_I_S <3.0 ug/g (dry wt)	BE_I_S <0.20 ug/g (dry wt)	B_I_S 670 ug/g (dry wt)
CA_I_S 7,000 ug/g (dry wt)	CD_I_S <0.80 ug/g (dry wt)	CO_I_S <0.99 ug/g (dry wt)	CR_I_S <0.99 ug/g (dry wt)	CU_I_S 4.7 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 110 ug/g (dry wt)	HG_CVS <0.080 ug/g (dry wt)	K_I_S 3,000 ug/g (dry wt)	MG_I_S 320 ug/g (dry wt)	MN_I_S 1.1 ug/g (dry wt)	NA_I_S 1,200 ug/g (dry wt)
NI_I_S <1.4 ug/g (dry wt)	PB_I_S 1.6 ug/g (dry wt)	SB_I_S <5.0 ug/g (dry wt)	SE_I_S <0.67 ug/g (dry wt)	TL_I_S <0.40 mg/kg	V_I_S <4.0 ug/g (dry wt)
ZN_I_S 19 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridge REPORT
Results by Sampl

Work Order # 90-11-076

SAMPLE ID 90 MBO 12

FRACTION 07A TEST CODE PEST_S NAME Pesticid s/PCBS-soil-SW846
Date & Time Collected 08/29/90 Category TISSUE

Analysis
Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

NET Cambridg REPORT
Results by Sample

Work Order # 90-11-076

SAMPLE ID 90 MBO 13 SAMPLE # 08 FRACTIONS: A,B,C,D
Date & Time Collected 08/30/90 Category TISSUE

AG_I_S 7.5 ug/g (dry wt)	AL_I_S 41 ug/g (dry wt)	AS_I_S <0.57 ug/g (dry wt)	BA_I_S 4.0 ug/g (dry wt)	BE_I_S 0.35 ug/g (dry wt)	B_I_S 750 ug/g (dry wt)
CA_I_S 5,800 ug/g (dry wt)	CD_I_S 2.0 ug/g (dry wt)	CO_I_S 3.8 ug/g (dry wt)	CR_I_S 4.9 ug/g (dry wt)	CU_I_S 9.2 ug/g (dry wt)	EXPESS 01/07/91 extraction date
FE_I_S 170 ug/g (dry wt)	HG_CVS <0.10 ug/g (dry wt)	K_I_S 4,200 ug/g (dry wt)	MG_I_S 370 ug/g (dry wt)	MN_I_S 2.6 ug/g (dry wt)	NA_I_S 1,500 ug/g (dry wt)
NI_I_S 7.0 ug/g (dry wt)	PB_I_S 0.50 ug/g (dry wt)	SB_I_S 23 ug/g (dry wt)	SE_I_S <0.67 ug/g (dry wt)	TL_I_S <0.38 mg/kg	V_I_S 5.7 ug/g (dry wt)
ZN_I_S 21 ug/g (dry wt)					

NET

Received: 11/02/90

NET Cambridg REPORT Work Order # 90-11-076

Results by Sample

SAMPLE ID 90 MBO 13

FRACTION 08A TEST CODE PEST_S NAME P sticid s/PCBS-soil-SW846

Date & Time Collected 08/30/90 Category TISSUE

Analysis Completed: 01/26/91

Compound	ug/g-dry(a)
alpha-BHC	
beta-BHC	
delta-BHC	
gamma-BHC (Lindane)	
Heptachlor	
Aldrin	
Heptachlor Epoxide	
alpha-Endosulfan	
Dieldrin	
4,4'-DDE	
Endrin	
beta-Endosulfan	
4,4'-DDD	
Endrin Aldehyde	
Endosulfan Sulfate	
4,4'-DDT	
Methoxychlor	
Chlordane	
Toxaphene	
Aroclor 1016	
Aroclor 1221	
Aroclor 1232	
Aroclor 1242	
Aroclor 1248	
Aroclor 1254	
Aroclor 1260	
DETECTION LIMIT	0.8

(a) - Concentrations less than the detection limit are left blank. Detection limits for Aroclors are ten times the nominal detection limit.

NET

INORGANIC BATCH QC DATA

NET

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 2

Spike no: 9011076-04 (Solid)

Element	Sample Found	Spike Added	Spike Found	% Recov.
	mg/Kg	mg/~~Kg~~		
Ag	<1.37	50.0	45.1	90
Al	<5.88	0	1,920	---
As	<0.588	2000	1,980	~~4950~~ 99
B				
Ba	<2.94	2,000	1,850	93
Be	<0.196	50.0	46.4	93
Ca	3,870	0	190,000	---
Cd	<0.38	50	43	86
CN				
Co	<0.980	500	461	92
Cr	<0.980	200	189	95
Cu	4.82	250	264	104
Fe	129	0	1,620	---
Hg	<0.0909	1.00	0.436	44
K	3,130	0	16,600	---
Mg	279	0	4,130	---
Mn	1.14	500	487	97
Na	0	0	8,500	---
Ni	<1.37	500	466	93
Pb	0.412	500.0	500.0	~~253~~ 100
Sb	<4.90	500	533	107
Se	0.27	2,000	1,830	78
Tl	<0.39	2,000	0.489	24
V	<3.92	500	453	91
Zn	16.5	500	729	143

NET

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 1

Duplicate: 9011076-04 (Solid)

Element	Sample mg/Kg	Dupl. mg/Kg	%RPD
Ag	<1.37	<1.37	0
Al	<5.88	<5.88	0
As	<0.588	<0.588	0
B			
Ba	<2.94	5.64	200
Be	<0.196	<0.196	0
Ca	3.670	20.800	137
Cd	<0.39	<0.39	0
CN			
Co	<0.980	<0.980	0
Cr	<0.980	1.23	200
Cu	4.82	3.91	21
Fe	129	202	44
Hg	<0.0909	<0.0909	0
K	3,130	2,740	13
Mg	279	507	58
Mn	1.14	2.04	57
Na	1,100	1,200	8.7
Ni	<1.37	<1.37	0
Pb	0.412	1.65	120
Sb	<4.90	<4.90	0
Se	0.275	1.24	127
Tl	<0.39	<0.39	0
V	<3.92	<3.92	0
Zn	16.5	30.2	59

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NET-CAMBRIDGE DIVISION
Date of report: 01/31/91

Work ID: NAVY NSB_N
Work order: 9011076
Page: 3

Blank: PBS
Found

Element	mg/L
Ag	<0.0070
Al	<0.030
As	<0.0030
B	<0.20
Ba	<0.015
Be	<0.0010
Ca	0.093
Cd	<0.0020
CN	
Co	<0.0050
Cr	<0.0050
Cu	<0.0050
Fe	0.022
Hg	<0.00010
K	<0.54
Mg	<0.040
Mn	<0.0020
Na	<0.25
Ni	<0.0070
Pb	<0.0020
Sb	<0.025
Se	< 0.0020
Tl	< 0.0020
V	<0.020
Zn	0.0088

Test Code CNTC-S, CNTC-A RUN DATE 01.21.1991

Analyst TSm Method #

LCS's: Work Orders 9101098, 9101157, 9101164, 9101221, 9101222, 9011073, 9011076

LCS ID	Expected Value (mg/l)	Found Value (mg/l)	% REC
LCS 1.11.91	0.10	0.081	81
1.17.91	↓	0.098	98
1.18.91	↓	0.086	86

Blanks:

Blank	DET. LIMIT (ug/ml)	Found (ug/ml)
BLK dis 1.11.91	<0.01	<0.01
1.17.91	<0.01	<0.01
1.18.91	<0.01	<0.01

Duplicates:

Sample ID	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	% RPD
9101157-1	<0.01	<0.01	0
9011076-4	<0.01	<0.01	0

Spikes:

Sample ID	Spike Concentration (mg/l)	Sample & Spike Concentration (mg/l)	Sample Concentration	% REC
9101157-1	0.100	0.098	<0.01	98
9011076-4	0.100	0.095	<0.01	95

% REC = $\frac{\text{found}}{\text{expected}}$ X 100 (LCS'S)

% RPD = $\frac{\text{sample - duplicate}}{\{(\text{sample + dup}) / 2\}}$ X 100

% REC = $\frac{(\text{sample + spike}) - (\text{sample})}{\text{spike}}$ X 100 (spikes)

NET

N009

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB - NLON
COMPANY Atlantic Env. Services/Menzie-Cura
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

90-11-073
90-11-076

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenols	Body Lipid				COMMENTS
90 MBO 01	11/7/90	0800	AREA A (MARSH) NET 1		G			1	ANIMAL	FREEZE			✓	✓			✓				SPECIMENS SKINNED OF BEAKED, DECLAWED GUT REMOVED, FREEZE.
90 MBO 02			NET 5		G			1													
90 MBO 03			NET 6		G			1													
90 MBO 04		0700	NET 6		G			1													
90 MBO 05			NET 6		G			1													
90 MBO 06			NET 6		G			1													
90 MBO 07			NET 6		G			1													
90 MBO 08		0800	NET 6		G			1													
90 MBO 09			NET 6		G			1													
90 MBO 10			NET 6		G			1													
90 MBO 11	8/29/90	1900	NET 6		G			1													
90 MBO 12			NET 6		G			1													
90 MBO 13	8/30/90	0700	NET 6		G			1													
90 MBO 14			NET 8		G			1													

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
Denis Blais	11/2/90 11:30 am	Bonnie Thorsten			
Bonnie Thorsten	11/2/90 5:25 pm	Louis Mackinnon 11/2/90 5:25 pm			Received for Laboratory by:

Method of Shipment: NET

Remarks:

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

90-11-073
~~N00~~
N010
90-11-076
90-11-236

CHAIN OF CUSTODY RECORD

PROJECT NAME NAVY NSB-NLON
COMPANY ATLANTIC ENV. SERVICES/MENZIE-CURA
ADDRESS
PHONE (203) 537-0751

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Atlantic, Inc., Cambridge Division, 12 Oak Drive, Bedford, MA 01730
Formerly Cambridge Analytical Associates, Inc

SAMPLED BY
TREVOR LLOYD-EVANS (Print Name) — Signature
DENIS BLAIS (Print Name) — Signature

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	GRAB	COMP	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	Volatile Organics	Extractable Organics	Pesticides/PCBs	Metals	Cyanide	Phenolics	Body Lipids				COMMENTS
90MB015	11-7-90	0800	ROCKY HILL RD., PLYMOUTH, MA		G			1	ANIMAL	FREEZE		✓	✓			✓					SPECIMENS SKINNED, DEFEATED, DECAPITATED, GUT REMOVED, FREEZE.
90MB016	09/27/90	0800			G			1													
90MB017	09/27/90	0800			G			1													
90MB018	09/10/90	1800	WINNETUXET RD. PLYMPTON, MA		G			1	WHOLE ANIMAL	FREEZE		✓	✓			✓					WHOLE ANIMAL FROZEN

Relinquished by:	Date / Time	Received by	Relinquished by	Date / Time	Received by:
Denis Blais	11/7/90 11:00 am	Bonnie Potter			
Relinquished by:	**Date / Time**	**Received by:**	**Relinquished by:**	**Date / Time**	**Received for Laboratory by**
Bonnie Potter	11/2/90 5:25 pm	Lorie MacKinnon	11/2/90 5:25 pm		

Method of Shipment
Remarks:

NET

PT 1 — ORIGINAL PT 2 NET Project Manager—Yellow PT 3—Customer Copy—Pink

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

90ER22

Lab Name: NET-CAMBRIDGE DIVISION Contract:

Lab Code: CAMBRG Case No.: South SAS No.: SDG No.: 250SCW

10190-ER28

Matrix (soil/water): WATER Lab Sample ID: 10194-015

Level (low/med): LOW Date Received: 10/12/90

% 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	60.00	U	N*E	P
7440-36-0	Antimony	60.00	U		P
7440-38-2	Arsenic	2.80	B		F
7440-39-3	Barium	32.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-41-7	Cadmium	5.00	U	N*	F
7440-70-2	Calcium	146.00	B		P
7440-47-3	Chromium	10.00	U	*	P
7440-48-4	Cobalt	20.00	U		P
7440-50-8	Copper	5.00	B		P
7439-89-6	Iron	76.40	B		P
7439-92-1	Lead	6.00		N*S	F
7439-95-4	Magnesium	70.00	U		P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	0.20	U		CV 11/13/90
7440-02-0	Nickel	15.00	U		P
7440-09-7	Potassium	830.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	8.00	U	N	P
7440-23-5	Sodium	229.00	B		~~NF~~ P 11/13/90
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	11.00	U		P
7440-66-6	Zinc	24.00		N*	P
	Cyanide	5.00	U		~~NF~~ C 11/13/90

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: NET-CAMBRIDGE DIVISION Contract:

Lab Code: CAMBRG Case No.: Edison SAS No.: SDG No.: 1622CS

SOW No.: 7/87

EPA Sample No.		Lab Sample ID.
42U		10213-01S
44S		10213-02S
6MW202	100990-6mw2 (0-2)	10131-02S
6MW224	100990-6mw2 (2-4)	10131-03S
6TB802		10131-01S
6TB802D	100990-6TB8 (0-2)	10131-01S2
809666		09493-01S
809667		09493-02S
809668		09493-03S
809669		09493-04S
809670		09493-05S
809671		09493-06S
809672		09493-07S
809673		09493-08S
809674		09493-09S
809675		09493-10S
809676		09493-11S
809677		09493-12S
809678		09493-13S
809679		09493-14S
142US		10130-01DS
142U		10130-01S
111U		10150-02S
111UD		10150-02S2
111US		10150-02DS

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Ellen Wolf for P. Epelman

Date: _____

NET

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB802

Lab Name: NET-CAMBRIDGE DIVISION Contract: 100990-6TB8 (0-2)

Lab Code: CAMBRG Case No.: Edison SAS No.: SDG No.: 1622CS

Matrix (soil/water): SOIL Lab Sample ID: 10131-01S

Level (low/med): LOW Date Received: 10/10/90

% Solids: 89.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8910.00		E	P
7440-36-0	Antimony	2.30	B	W N	~~NF~~ F
7440-38-2	Arsenic	2.40		+	F
7440-39-3	Barium	105.00			P
7440-41-7	Beryllium	0.58	B		P
7440-41-7	Cadmium	5.60			P
7440-70-2	Calcium	1320.00			P
7440-47-3	Chromium	18.30		N*	P
7440-48-4	Cobalt	5.20	B		P
7440-50-8	Copper	38.40		N*	P
7439-89-6	Iron	11700.00		E	P
7439-92-1	Lead	448.00		S	F
7439-95-4	Magnesium	2370.00		E	P
7439-96-5	Manganese	128.00		N E	P
7439-97-6	Mercury	0.11	U	*	CV
7440-02-0	Nickel	14.40			P
7440-09-7	Potassium	1760.00			P
7782-49-2	Selenium	0.45	U	W	F
7440-22-4	Silver	6.20		N*	P
7440-23-5	Sodium	267.00	B		P
7440-28-0	Thallium	0.67	U		F
7440-62-2	Vanadium	26.90			P
7440-66-6	Zinc	68.10			P
	Cyanide	1.40	U		~~NF~~ C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks as artifacts.

NET

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW202

Lab Name: NET-CAMBRIDGE DIVISION Contract:

108990 - 6mw2 - (0-2)

Lab Code: CAMBRG Case No.: Edison SAS No.: SDG No.: 1622CS

Matrix (soil/water): SOIL Lab Sample ID: 10131-02S

L vel (low/med): LOW Date Received: 10/10/90

% Solids: 90.2

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9030.00		E	P	
7440-36-0	Antimony	2.00	B	WN	~~NFH~~	F
7440-38-2	Arsenic	3.40			F	
7440-39-3	Barium	72.70			P	
7440-41-7	Beryllium	0.41	B		P	
7440-41-7	Cadmium	4.00			P	
7440-70-2	Calcium	1490.00			P	
7440-47-3	Chromium	12.90		N*	P	
7440-48-4	Cobalt	5.30	B		P	
7440-50-8	Copper	22.60		N*	P	
7439-89-6	Iron	11600.00		E	P	
7439-92-1	Lead	459.00			F	
7439-95-4	Magnesium	2470.00		E	P	
7439-96-5	Manganese	132.00		NE	P	
7439-97-6	Mercury	0.14		*	CV	
7440-02-0	Nickel	12.50			P	
7440-09-7	Potassium	1070.00	B		P	
7782-49-2	Selenium	0.44	U	W	F	
7440-22-4	Silver	1.80	U	N*	P	
7440-23-5	Sodium	279.00	B		P	
7440-28-0	Thallium	0.67	U		F	
7440-62-2	Vanadium	22.40			P	
7440-66-6	Zinc	51.70			P	
	Cyanide	1.30	U		~~NF~~	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks as artifacts.

NET

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW224

Lab Name: NET-CAMBRIDGE DIVISION Contract: 100990- 6mw2-(2-4)

Lab Code: CAMBRG Case No.: Edison SAS No.: SDG No.: 1622CS

Matrix (soil/water): SOIL Lab Sample ID: 10131-03S

Level (low/med): LOW Date Received: 10/10/90

% Solids: 87.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700.00		E	P
7440-36-0	Antimony	4.10	B	WN	~~NP~~ F
7440-38-2	Arsenic	1.50	B		F
7440-39-3	Barium	84.10			P
7440-41-7	Beryllium	0.54	B		P
7440-41-7	Cadmium	2.20			P
7440-70-2	Calcium	2070.00			P
7440-47-3	Chromium	14.50		N*	P
7440-48-4	Cobalt	8.40	B		P
7440-50-8	Copper	33.50		N*	P
7439-89-6	Iron	16600.00		E	P
7439-92-1	Lead	8.80			F
7439-95-4	Magnesium	5630.00		E	P
7439-96-5	Manganese	360.00		NE	P
7439-97-6	Mercury	0.11	U	*	CV
7440-02-0	Nickel	14.60			P
7440-09-7	Potassium	3810.00			P
7782-49-2	Selenium	0.46	U	W	F
7440-22-4	Silver	1.80	U	N*	P
7440-23-5	Sodium	842.00	B		P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	37.90			P
7440-66-6	Zinc	101.00			P
	Cyanide	1.40	U		~~NP~~ C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks as artifacts.

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: NET-CAMBRIDGE DIVISION Contract:

Lab Code: CAMBRG Case No.: SWNAS SAS No.: SDG No.: 16340S

SOW No.: 7/87

EPA Sample No.		Lab Sample ID.
6MW102	101190-6mw1-(0-2)	10179-03S
6MW646	101190-6mw6-(4-6)	10179-04S
6MW646D		10179-04SD
6MW646S		10179-04DS
6TB102	101190-6TB1-(0-2)	10179-03S
6TB124	101190-6TB1-(2-4)	10179-05S
MW146	101190-6MW1-(4-6)	10179-01S
MW5502	101590-6mw55-(0-2)	10249-01S
MW55810	101590-6mw55-(8-10)	10249-02S
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---
---		---

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: Dana M. Lambert for P. Epelman

Date: 12/4/90

NET

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW146

Lab Name: NET-CAMBRIDGE DIVISION Contract: 101190-6mwt-(4-6)

Lab Code: CAMBRG Case No.: SWNAS SAS No.: SDG No.: 163405

Matrix (soil/water): SOIL Lab Sample ID: 10179-015

Level (low/med): LOW Date Received: 10/18/90

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9630.00			P
7440-36-0	Antimony	6.10	U	N	F
7440-38-2	Arsenic	7.50			F
7440-39-3	Barium	111.00			P
7440-41-7	Beryllium	0.37	B		P
7440-41-7	Cadmium	3.10			P
7440-70-2	Calcium	2430.00			P
7440-47-3	Chromium	19.40			F
7440-48-4	Cobalt	9.10	B		P
7440-50-8	Copper	32.00			F
7439-89-6	Iron	18000.00		*	F
7439-92-1	Lead	37.30		*S	F
7439-95-4	Magnesium	4660.00			P
7439-96-5	Manganese	312.00		N	F
7439-97-6	Mercury	0.13	U	N	CV
7440-02-0	Nickel	13.40			P
7440-09-7	Potassium	4050.00			P
7782-49-2	Selenium	0.49	U	NW	F
7440-22-4	Silver	1.70	U		P
7440-23-5	Sodium	638.00	B		P
7440-28-0	Thallium	0.78	U		F
7440-62-2	Vanadium	31.70			P
7440-66-6	Zinc	117.00		E	P
	Cyanide	1.50	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

U.S. EPA - CLP

2 402

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB102

Lab Name: NET-CAMBRIDGE DIVISION Contract:

101190-6TB1-(0-2)

Lab Code: CAMBRG Case No.: SWNAS SAS No.: SDG No.: 1c34C5

Matrix (soil/water): SOIL Lab Sample ID: 10179-023

Level (low/med): LOW Date Received: 10/12/90

% Solids: 95.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14500.00			P
7440-36-0	Antimony	5.20	U	N	P
7440-38-2	Arsenic	1.50	B		P
7440-39-3	Barium	141.00			P
7440-41-7	Beryllium	0.39	B		P
7440-41-7	Cadmium	4.10			P
7440-70-2	Calcium	2760.00			P
7440-47-3	Chromium	35.00			P
7440-48-4	Cobalt	12.90			P
7440-50-8	Copper	55.70			P
7439-89-6	Iron	17600.00		*	P
7439-92-1	Lead	27.60		*S	P
7439-95-4	Magnesium	7010.00			P
7439-96-5	Manganese	270.00		N	P
7439-97-6	Mercury	0.14		N	CV
7440-02-0	Nickel	22.90			P
7440-09-7	Potassium	5150.00			P
7782-49-2	Selenium	0.42	U	N	P
7440-22-4	Silver	1.50	U		P
7440-23-5	Sodium	459.00	B		P
7440-28-0	Thallium	0.63	U		P
7440-62-2	Vanadium	45.60			P
7440-66-6	Zinc	55.10		E	P
	Cyanide	1.20	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

U.S. EPA - CLP

2 403

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW102

Lab Name: NET-CAMBRIDGE DIVISION Contract: 101190-6mw1-(0-2)

Lab Code: CAMBRG Case No.: SUNAS SAS No.: SDG No.: 16340S

Matrix (soil/water): SOIL Lab Sample ID: 10179-033

Level (low/med): LOW Date Received: 10/12/90

% Solids: 87.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5740.00			P
7440-36-0	Antimony	5.70	U	N	P
7440-38-2	Arsenic	3.40			F
7440-39-3	Barium	57.30			P
7440-41-7	Beryllium	0.30	B		F
7440-41-7	Cadmium	2.40			P
7440-70-2	Calcium	1820.00			P
7440-47-3	Chromium	15.80			P
7440-48-4	Cobalt	5.40	B		F
7440-50-8	Copper	33.90			P
7439-89-6	Iron	10600.00	*		P
7439-92-1	Lead	31.30	*		F
7439-95-4	Magnesium	2280.00			P
7439-96-5	Manganese	199.00		N	F
7439-97-6	Mercury	0.15		N	CV
7440-02-0	Nickel	10.60			F
7440-09-7	Potassium	1170.00			P
7782-49-2	Selenium	0.46	U	NW	F
7440-22-4	Silver	1.60	U		P
7440-23-5	Sodium	57.30	U		P
7440-28-0	Thallium	0.65	U	W	F
7440-62-2	Vanadium	23.60			F
7440-66-6	Zinc	133.00		E	P
	Cyanide	1.40	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

2 404

U.S. EPA - CLP

5

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW646

Lab Name: NET-CAMBRIDGE DIVISION Contract: 101190-6mw6-(4-6)

Lab Code: CAMBRG Case No.: SWNAS SAS No.: SDG No.: 163403

Matrix (soil/water): SOIL Lab Sample ID: 10179-04S

Level (low/med): LOW Date Received: 10/12/90

% Solids: 88.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9630.00			P
7440-36-0	Antimony	5.60	U	N	P
7440-38-2	Arsenic	2.10	B		F
7440-39-3	Barium	108.00			P
7440-41-7	Beryllium	0.29	B		P
7440-41-7	Cadmium	3.60			P
7440-70-2	Calcium	2320.00			P
7440-47-3	Chromium	19.70			P
7440-48-4	Cobalt	5.10	B		F
7440-50-8	Copper	31.60			F
7439-89-6	Iron	22500.00		*	P
7439-92-1	Lead	27.10		*S	F
7439-95-4	Magnesium	5090.00			P
7439-96-5	Manganese	324.00		N	P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	13.20			P
7440-09-7	Potassium	4330.00			P
7782-49-2	Selenium	0.45	U	NW	F
7440-22-4	Silver	1.60	U		F
7440-23-5	Sodium	599.00	B		P
7440-28-0	Thallium	0.67	U		F
7440-62-2	Vanadium	32.50			P
7440-66-6	Zinc	91.00		E	P
	Cyanide	1.30	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

U.S. EPA - CLP

2 405 6

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB124

Lab Name: NET-CAMBRIDGE DIVISION Contract:

Lab Code: CAMBRG Case No.: SWNAS SAS No.: 101190-6TB1-(2-4) SDG No.: 1634CS

Matrix (soil/water): SOIL Lab Sample ID: 10179-05E

Level (low/med): LOW Date Received: 10/12/90

% Solids: 94.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10800.00			P
7440-36-0	Antimony	5.30	U	N	P
7440-38-2	Arsenic	1.60	B		F
7440-39-3	Barium	111.00			P
7440-41-7	Beryllium	1.50			P
7440-41-7	Cadmium	2.90			P
7440-70-2	Calcium	2030.00			P
7440-47-3	Chromium	29.60			F
7440-48-4	Cobalt	14.60			P
7440-50-8	Copper	227.00			P
7439-89-6	Iron	16800.00	*		P
7439-92-1	Lead	168.00	*		F
7439-95-4	Magnesium	5000.00			P
7439-96-5	Manganese	272.00		N	P
7439-97-6	Mercury	0.19		N	CV
7440-02-0	Nickel	30.00			P
7440-09-7	Potassium	3770.00			P
7782-49-2	Selenium	0.42	U	NW	F
7440-22-4	Silver	1.50	U		P
7440-23-5	Sodium	304.00	B		P
7440-28-0	Thallium	0.64	U	W	F
7440-62-2	Vanadium	33.60			P
7440-66-6	Zinc	676.00		E	P
	Cyanide	1.50	U		C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

FORM I - IN

NET

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5S02

Lab Name: NET-CAMBRIDGE DIVISION Contract:

Lab Code: CAMBRG Case No.: SWNAS SAS No.: 101590-6mw5S-(0-2) SDG No.: 1634CS

Matrix (soil/water): SOIL Lab Sample ID: 10249-01S

Level (low/med): LOW Date Received: 10/17/90

% Solids: 94.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12600.00			P
7440-36-0	Antimony	5.30	U	N	P
7440-38-2	Arsenic	1.20	B		F
7440-39-3	Barium	69.80			P
7440-41-7	Beryllium	0.30	B		P
7440-41-7	Cadmium	2.90			P
7440-70-2	Calcium	1770.00			P
7440-47-3	Chromium	20.70			P
7440-48-4	Cobalt	12.80			P
7440-50-8	Copper	32.60			P
7439-89-6	Iron	17000.00	*		P
7439-92-1	Lead	2.50	*		F
7439-95-4	Magnesium	6590.00			P
7439-96-5	Manganese	237.00		N	P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	15.30			F
7440-09-7	Potassium	2550.00			P
7782-49-2	Selenium	0.42	U	N	F
7440-22-4	Silver	1.50	U		F
7440-23-5	Sodium	60.50	B		P
7440-28-0	Thallium	0.64	U	W	F
7440-62-2	Vanadium	33.50			P
7440-66-6	Zinc	34.20		C	P
	Cyanide	1.20	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW5S810

Lab Name: NET-CAMBRIDGE DIVISION Contract:

101590-6mw5s-(8-10)

Lab Code: CAMBRG Case No.: SWNAS SAS No.: SDG No.: 16340S

Matrix (soil/water): SOIL Lab Sample ID: 10249-085

Level (low/med): LOW Date Received: 10/17/90

% Solids: 97.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4850.00			P
7440-36-0	Antimony	5.10	U	N	P
7440-38-2	Arsenic	1.90	B	W	P
7440-39-3	Barium	28.00	B		P
7440-41-7	Beryllium	0.20	U		P
7440-41-7	Cadmium	1.00	B		P
7440-70-2	Calcium	981.00	B		P
7440-47-3	Chromium	6.20			P
7440-48-4	Cobalt	3.50	B		P
7440-50-8	Copper	10.60			P
7439-89-6	Iron	6480.00		*	P
7439-92-1	Lead	2.30		*	P
7439-95-4	Magnesium	2070.00			P
7439-96-5	Manganese	155.00		N	P
7439-97-6	Mercury	0.10	U	N	CV
7440-02-0	Nickel	7.50	B		P
7440-09-7	Potassium	1730.00			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	1.40	U		P
7440-23-5	Sodium	147.00	B		P
7440-28-0	Thallium	0.61	U		P
7440-62-2	Vanadium	9.00	B		P
7440-66-6	Zinc	25.60		E	P
	Cyanide	1.20	U	N	C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:

There were rocks present as artifacts.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8631

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzen	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6MW10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8631

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW10_2RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Cod : CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-3RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8655

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 Date Analyzed: 10/23/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	8	BJ
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzen	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW10_2RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-3RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8655

Lev l: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 Date Analyzed: 10/23/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW14_6

Lab Nam : CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8629

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	BJ
75-15-0	Carbon Disulfide	1	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW14_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8629

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW14_6RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-1RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8659

Lev 1: (low/med) LOW Date Received: 10/12/90

% Moistur : not dec. 9 Date Analyzed: 10/23/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	4	J
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	36	B
75-15-0	Carbon Disulfide	7	
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	4	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	4	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

30057

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6MW14_6RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Cod : CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-1RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8659

L vel: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 Date Analyzed: 10/23/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW20_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5680

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/19/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

30071

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6MW20_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5680

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/19/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW20_2RE

Lab Nam : CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-2RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8636

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	5	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	7	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

30077

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6MW20_2RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-2RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8636

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30086

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW22_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5681

Lev l: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 Date Analyzed: 10/19/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	10	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Tolu ne	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

30087

EPA SAMPLE NO.

6MW22_4

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5681

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 Date Analyzed: 10/19/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S0_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01AX

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8670

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	2	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylen (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW5S0_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01AX

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8670

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 Date Analyzed: 10/24/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S8_10

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02AX

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8671

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 Date Analyzed: 10/24/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

30101

EPA SAMPLE NO.

6MW5S8_10

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02AX

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8671

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 Date Analyzed: 10/24/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30106

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW64_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8632

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	14	B
75-15-0	Carbon Disulfide	2	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	2	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

30107

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6MW64_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8632

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8630

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	4	BJ
75-15-0	Carbon Disulfide	1	J
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorob nzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6TB10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8630

L v l: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB12_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8633

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylen (t tal)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6TB12_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8633

L vel: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB12_4RE

Lab Nam : CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-5RE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D8660

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 Date Analyzed: 10/23/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6TB12_4RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-5RE

Sampl wt/vol: 5.0 (g/mL) G Lab File ID: D8660

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 Date Analyzed: 10/23/90

Column (pack/cap) PACK Dilution Factor: 1.0

Numb r TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB80-2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5683

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/19/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

40142B

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6TB80-2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H5683

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 10/19/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB80_2RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01ARE

Sample wt/vol: 5.0 (g/mL) G Lab File ID: D9021

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 11/20/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl Acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	3	J
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	9	
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6TB80_2RE

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01ARE

Sampl wt/vol: 5.0 (g/mL) G Lab File ID: D9021

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 Date Analyzed: 11/20/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30151

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ER28

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01AX

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9252

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/20/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	1	J
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylb nzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ER28

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01AX

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9252

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/20/90

Column (pack/cap) CAP Dilution Factor: 1.0

Numb r TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30157A

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB18

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010131-04A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5524

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. ____ Date Analyzed: 10/17/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB18

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010131-04A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5524

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. ____ Date Analyzed: 10/17/90

Column (pack/cap) PACK Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30158

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB19

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-02AX

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9253

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/20/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylen (total)	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB19

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-02AX

Sampl wt/vol: 5.0 (g/mL) ML Lab File ID: G9253

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/20/90

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	1	BJ
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	3	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

30160

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB19

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-02AX

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G9253

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/20/90

Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

30166

EPA SAMPLE NO.

TB19(1017)

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010249-02A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5644

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/22/90

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB19(1017)

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010249-02A

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K5644

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ Date Analyzed: 10/22/90

Column (pack/cap) PACK Dilution Factor: 1.0

Numb r TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

40046

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4165

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 dec. 10 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
100-51-6	Benzyl Alcohol	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
39638-32-9	bis(2-Chloroisopropyl)Ether	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-Di-n-Propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
65-85-0	Benzoic Acid	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	370	U
208-96-8	Acenaphthyl ne	370	U
606-20-2	2,6-Dinitrotoluene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4165

Lev l: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 dec. 10 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	370	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-10-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	200	J
120-12-7	Anthracene	39	J
84-74-2	Di-n-Butylphthalate	370	U
206-44-0	Fluoranthene	330	J
129-00-0	Pyrene	370	
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)Anthracene	190	J
218-01-9	Chrysene	190	J
117-81-7	bis(2-Ethylhexyl)Phthalate	370	U
117-84-0	Di-n-Octyl Phthalate	370	U
205-99-2	Benzo(b)Fluoranthene	210	JY
207-08-9	Benzo(k)Fluoranthene	88	JY
50-32-8	Benzo(a)Pyrene	370	U
193-39-5	Indeno(1,2,3-cd)Pyrene	370	U
53-70-3	Dibenz(a,h)Anthracene	370	U
191-24-2	Benzo(g,h,i)Perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4165

L v l: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 dec. 10 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	6.20	220	J
2.	Unknown aldol	7.60	630	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW14_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4152

L vel: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 dec. 9 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
39638-32-9	bis(2-Chloroisopropyl)Ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW14_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01B

Sampl wt/vol: 30.0 (g/mL) G Lab File ID: E4152

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 dec. 9 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-10-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	99	J
120-12-7	Anthracene	360	U
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	190	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)Anthracene	110	J
218-01-9	Chrysene	150	J
117-81-7	bis(2-Ethylhexyl)Phthalate	94	J
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	160	JY
207-08-9	Benzo(k)Fluoranthene	65	JY
50-32-8	Benzo(a)Pyrene	360	U
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

40068

EPA SAMPLE NO.

6MW14_6

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4152

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 dec. 9 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/27/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	7.00	180000	J
2.	Unknown aldol	7.80	150	J
3.	Unknown aldol	7.90	5900	J
4.	Unknown	8.80	290	J
5.	Unknown	10.40	150	J
6.	Unknown	12.20	480	J
7.	Unknown	13.00	5100	J
8.	Unknown hydrocarbon	17.50	150	J
9.	Unknown hydrocarbon	18.80	180	J
10.	Unknown hydrocarbon	20.00	550	J
11.	Unknown hydrocarbon	22.20	150	J

40097

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW20_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4246

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	U
111-44-4	bis(2-Chloroethyl)Ether	1900	U
95-57-8	2-Chlorophenol	1900	U
541-73-1	1,3-Dichlorobenzene	1900	U
106-46-7	1,4-Dichlorobenzene	1900	U
100-51-6	Benzyl Alcohol	1900	U
95-50-1	1,2-Dichlorobenzene	1900	U
95-48-7	2-Methylphenol	1900	U
39638-32-9	bis(2-Chloroisopropyl)Ether	1900	U
106-44-5	4-Methylphenol	1900	U
621-64-7	N-Nitroso-Di-n-Propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
65-85-0	Benzoic Acid	9100	U
111-91-1	bis(2-Chloroethoxy)Methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
120-82-1	1,2,4-Trichlorobenzene	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
59-50-7	4-Chloro-3-Methylphenol	1900	U
91-57-6	2-Methylnaphthalene	1900	U
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	9100	U
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	9100	U
131-11-3	Dimethyl Phthalate	1900	U
208-96-8	Acenaphthylene	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW20_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4246

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	9100	U
83-32-9	Acenaphthene	1900	U
51-28-5	2,4-Dinitrophenol	9100	U
100-02-7	4-Nitrophenol	9100	U
132-64-9	Dibenzofuran	1900	U
121-14-2	2,4-Dinitrotoluene	1900	U
84-66-2	Diethylphthalate	1900	U
7005-72-3	4-Chlorophenyl-phenylether	1900	U
86-73-7	Fluorene	1900	U
100-10-6	4-Nitroaniline	9100	U
534-52-1	4,6-Dinitro-2-Methylphenol	9100	U
86-30-6	N-Nitrosodiphenylamine (1)	1900	U
101-55-3	4-Bromophenyl-phenylether	1900	U
118-74-1	Hexachlorobenzene	1900	U
87-86-5	Pentachlorophenol	9100	U
85-01-8	Phenanthrene	210	J
120-12-7	Anthracene	1900	U
84-74-2	Di-n-Butylphthalate	1900	U
206-44-0	Fluoranthene	490	J
129-00-0	Pyrene	430	J
85-68-7	Butylbenzylphthalate	1900	U
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)Anthracene	240	J
218-01-9	Chrysene	250	J
117-81-7	bis(2-Ethylhexyl)Phthalate	190	BJ
117-84-0	Di-n-Octyl Phthalate	1900	U
205-99-2	Benzo(b)Fluoranthene	380	JY
207-08-9	Benzo(k)Fluoranthene	240	JY
50-32-8	Benzo(a)Pyrene	1900	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1900	U
53-70-3	Dib nz(a,h)Anthracene	1900	U
191-24-2	B nzo(g,h,i)Perylene	1900	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW20_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4246

Lev l: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 5.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown hydrocarbon	19.10	950	J
2.	Unknown	25.91	1700	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW22_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4233

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 dec. 13 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
39638-32-9	bis(2-Chloroisopropyl)Ether	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-Di-n-Propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	1800	U
111-91-1	bis(2-Chloroethoxy)Methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	380	U
208-96-8	Acenaphthylene	89	J
606-20-2	2,6-Dinitrotoluene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW22_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4233

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 dec. 13 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	49	J
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	66	J
100-10-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	710	
120-12-7	Anthracene	190	J
84-74-2	Di-n-Butylphthalate	380	U
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	760	U
56-55-3	Benzo(a)Anthracene	710	
218-01-9	Chrysene	730	
117-81-7	bis(2-Ethylhexyl)Phthalate	59	BJ
117-84-0	Di-n-Octyl Phthalate	380	U
205-99-2	Benzo(b)Fluoranthene	1000	Y
207-08-9	Benzo(k)Fluoranthene	300	JY
50-32-8	Benzo(a)Pyrene	780	
193-39-5	Indeno(1,2,3-cd)Pyrene	680	
53-70-3	Dibenz(a,h)Anthrac ne	130	J
191-24-2	Benzo(g,h,i)Perylene	610	

(1) - Cannot be separated from Diphenylamin

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW22_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4233

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 dec. 13 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 11

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	6.70	460	J
2.	Unknown hydrocarbon	19.00	150	J
3.	Unknown	21.50	150	J
4.	Unknown PAH mw=204	22.10	150	J
5.	Unknown	23.90	310	J
6.	Unknown PAH mw=216	24.40	340	J
7.	Unknown	25.71	610	J
8.	Unknown	25.81	230	J
9.	Unknown	25.91	3800	J
10.	Unknown	26.01	190	J
11.	Unknown PAH mw=252	29.71	770	J

40155

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5SO_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4234

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl Alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
39638-32-9	bis(2-Chloroisopropyl)Ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	1700	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

40156

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S0_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4234

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-10-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)Phthalate	350	U
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo(b)Fluoranthene	350	U
207-08-9	Benzo(k)Fluoranthene	350	U
50-32-8	Benzo(a)Pyrene	350	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U
53-70-3	Dibenz(a,h)Anthracene	350	U
191-24-2	Benzo(g,h,i)Perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW5SO_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4234

Lev l: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	6.70	530	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S8_10

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4197

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/17/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl Alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
39638-32-9	bis(2-Chloroisopropyl)Ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-Di-n-Propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	1700	U
111-91-1	bis(2-Chloroethoxy)Methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl Phthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluen	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S8_10

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4197

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/17/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-10-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-Butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)Anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)Phthalate	55	BJ
117-84-0	Di-n-Octyl Phthalate	350	U
205-99-2	Benzo(b)Fluoranthene	350	U
207-08-9	Benzo(k)Fluoranthene	350	U
50-32-8	Benzo(a)Pyrene	350	U
193-39-5	Indeno(1,2,3-cd)Pyrene	350	U
53-70-3	Dibenz(a,h)Anthracen	350	U
191-24-2	Benzo(g,h,i)Perylene	350	U

(1) - Cannot be separat d from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW5SB_10

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4197

Level: (low/med) LOW Date Received: 10/17/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/17/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	6.90	490	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW64_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4166

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 dec. 8 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	bis(2-Chloroisopropyl)Ether	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-Di-n-Propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	1700	U
111-91-1	bis(2-Chloroethoxy)Methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	42	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethyl Phthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW64_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4166

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 dec. 8 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-Methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	37	J
84-74-2	Di-n-Butylphthalate	360	U
206-44-0	Fluoranthene	250	J
129-00-0	Pyrene	410	
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)Anthracene	170	J
218-01-9	Chrysene	170	J
117-81-7	bis(2-Ethylhexyl)Phthalate	120	J
117-84-0	Di-n-Octyl Phthalate	360	U
205-99-2	Benzo(b)Fluoranthene	200	JY
207-08-9	Benzo(k)Fluoranthene	360	U
50-32-8	Benzo(a)Pyrene	360	U
193-39-5	Indeno(1,2,3-cd)Pyrene	360	U
53-70-3	Dibenz(a,h)Anthracene	360	U
191-24-2	Benzo(g,h,i)Perylene	360	U

(1) - Cannot be separated from Diphenylamine

40176

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW64_6

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4166

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 dec. 8 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 18

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	7.60	1200	J
2.	Unknown aldol	12.90	1200	J
3.	Unknown	15.40	140	J
4.	Unknown	15.90	140	J
5.	Unknown hydrocarbon	16.10	180	J
6.	Unknown	16.60	220	J
7.	Unknown hydrocarbon	16.90	180	J
8.	Unknown	17.00	140	J
9.	Unknown	17.10	360	J
10.	Unknown hydrocarbon	17.50	250	J
11.	Unknown	17.80	140	J
12.	Unknown	18.20	140	J
13.	Unknown	18.30	140	J
14.	Unknown	18.40	180	J
15.	Unknown hydrocarbon	18.80	180	J
16.	Unknown hydrocarbon	20.00	650	J
17.	Unknown hydrocarbon	22.20	140	J
18.	Unknown hydrocarbon	23.30	140	J

40211

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4164

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 dec. 0 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
39638-32-9	bis(2-Chloroisopropyl)Ether	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1600	U
111-91-1	bis(2-Chloroethoxy)Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U

40212

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4164

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 dec. 0 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-10-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	55	J
120-12-7	Anthracene	330	U
84-74-2	Di-n-Butylphthalate	330	U
206-44-0	Fluoranthene	66	J
129-00-0	Pyrene	140	J
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)Anthracene	100	J
218-01-9	Chrysene	93	J
117-81-7	bis(2-Ethylhexyl)Phthalate	410	
117-84-0	Di-n-Octyl Phthalate	330	U
205-99-2	Benzo(b)Fluoranthene	150	JY
207-08-9	Benzo(k)Fluoranthene	47	JY
50-32-8	Benzo(a)Pyrene	330	U
193-39-5	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3	Dibenz(a,h)Anthracene	330	U
191-24-2	Benzo(g,h,i)P rylene	330	U

(1) - Cannot b separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6TB10_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4164

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 dec. 0 Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown aldol	7.50	130	J
2.	Unknown aldol	7.60	470	J
3.	Unknown hydrocarbon	17.50	170	J
4.	Unknown hydrocarbon	18.70	230	J
5.	Unknown hydrocarbon	20.00	570	J
6.	Unknown hydrocarbon	22.20	170	J
7.	Unknown hydrocarbon	23.30	130	J
8.	Unknown	24.90	200	J
9.	Unknown	25.00	200	J
10.	Unknown	26.11	200	J

40240

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB12_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05B

Sample wt/vol: 20.0 (g/mL) G Lab File ID: F4355

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/05/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	G
108-95-2	Phenol	520	U
111-44-4	bis(2-Chloroethyl)Ether	520	U
95-57-8	2-Chlorophenol	520	U
541-73-1	1,3-Dichlorobenzene	520	U
106-46-7	1,4-Dichlorobenzene	520	U
100-51-6	Benzyl Alcohol	520	U
95-50-1	1,2-Dichlorobenzene	520	U
95-48-7	2-Methylphenol	520	U
39638-32-9	bis(2-Chloroisopropyl)Ether	520	U
106-44-5	4-Methylphenol	520	U
621-64-7	N-Nitroso-Di-n-Propylamine	520	U
67-72-1	Hexachloroethane	520	U
98-95-3	Nitrobenzene	520	U
78-59-1	Isophorone	520	U
88-75-5	2-Nitrophenol	520	U
105-67-9	2,4-Dimethylphenol	520	U
65-85-0	Benzoic Acid	2500	U
111-91-1	bis(2-Chloroethoxy)Methane	520	U
120-83-2	2,4-Dichlorophenol	520	U
120-82-1	1,2,4-Trichlorobenzene	520	U
91-20-3	Naphthalene	520	U
106-47-8	4-Chloroaniline	520	U
87-68-3	Hexachlorobutadiene	520	U
59-50-7	4-Chloro-3-Methylphenol	520	U
91-57-6	2-Methylnaphthalene	520	U
77-47-4	Hexachlorocyclopentadiene	520	U
88-06-2	2,4,6-Trichlorophenol	520	U
95-95-4	2,4,5-Trichlorophenol	2500	U
91-58-7	2-Chloronaphthalene	520	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethyl Phthalate	520	U
208-96-8	Ac naphthylene	140	J
606-20-2	2,6-Dinitrotoluene	520	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB12_4

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05B

Sampl wt/vol: 20.0 (g/mL) G Lab File ID: F4355

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/05/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2500	U
83-32-9	Acenaphthene	520	U
51-28-5	2,4-Dinitrophenol	2500	U
100-02-7	4-Nitrophenol	2500	U
132-64-9	Dibenzofuran	520	U
121-14-2	2,4-Dinitrotoluene	520	U
84-66-2	Diethylphthalate	520	U
7005-72-3	4-Chlorophenyl-phenylether	520	U
86-73-7	Fluorene	520	U
100-10-6	4-Nitroaniline	2500	U
534-52-1	4,6-Dinitro-2-Methylphenol	2500	U
86-30-6	N-Nitrosodiphenylamine (1)	520	U
101-55-3	4-Bromophenyl-phenylether	520	U
118-74-1	Hexachlorobenzene	520	U
87-86-5	Pentachlorophenol	2500	U
85-01-8	Phenanthrene	520	U
120-12-7	Anthracene	52	J
84-74-2	Di-n-Butylphthalate	520	U
206-44-0	Fluoranthene	110	J
129-00-0	Pyrene	210	J
85-68-7	Butylbenzylphthalate	520	U
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)Anthracene	110	J
218-01-9	Chrysene	210	J
117-81-7	bis(2-Ethylhexyl)Phthalate	130	J
117-84-0	Di-n-Octyl Phthalate	520	U
205-99-2	Benzo(b)Fluoranthene	600	Y
207-08-9	Benzo(k)Fluoranthene	100	JY
50-32-8	Benzo(a)Pyrene	320	J
193-39-5	Indeno(1,2,3-cd)Pyrene	300	J
53-70-3	Dibenz(a,h)Anthracene	520	U
191-24-2	Benzo(g,h,i)Perylene	370	J

(1) - Cannot be separated from Diphenylamine

40242

EPA SAMPLE NO.

6TB12_4

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05B

Sample wt/vol: 20.0 (g/mL) G Lab File ID: F4355

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 dec. 5 Date Extracted: 10/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 12/05/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown hydrocarbon	14.40	1100	J
2.	Unknown hydrocarbon	14.80	580	J
3.	Unknown	15.10	840	J
4.	Unknown	15.50	680	J
5.	Unknown hydrocarbon	16.10	1100	J
6.	Unknown	16.20	840	J
7.	Unknown	16.70	1300	J
8.	Unknown hydrocarbon	16.80	1500	J
9.	Unknown hydrocarbon	16.90	1400	J
10.	Unknown hydrocarbon	17.40	2300	J
11.	Unknown hydrocarbon	18.00	2000	J
12.	Unknown	18.10	1000	J
13.	Unknown hydrocarbon	18.70	11000	J
14.	Unknown hydrocarbon	19.20	740	J
15.	Unknown	19.30	790	J
16.	Unknown hydrocarbon	19.80	4300	J
17.	Unknown hydrocarbon	20.20	1000	J
18.	Unknown hydrocarbon	20.70	1500	J
19.	Unknown hydrocarbon	20.80	1400	J
20.	Unknown hydrocarbon	21.80	950	J

40287

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB80_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4245

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3700	U
111-44-4	bis(2-Chloroethyl)Ether	3700	U
95-57-8	2-Chlorophenol	3700	U
541-73-1	1,3-Dichlorobenzene	3700	U
106-46-7	1,4-Dichlorobenzene	3700	U
100-51-6	Benzyl Alcohol	3700	U
95-50-1	1,2-Dichlorobenzene	3700	U
95-48-7	2-Methylphenol	3700	U
39638-32-9	bis(2-Chloroisopropyl)Ether	3700	U
106-44-5	4-Methylphenol	3700	U
621-64-7	N-Nitroso-Di-n-Propylamine	3700	U
67-72-1	Hexachloroethane	3700	U
98-95-3	Nitrobenzene	3700	U
78-59-1	Isophorone	3700	U
88-75-5	2-Nitrophenol	3700	U
105-67-9	2,4-Dimethylphenol	3700	U
65-85-0	Benzoic Acid	18000	U
111-91-1	bis(2-Chloroethoxy)Methane	3700	U
120-83-2	2,4-Dichlorophenol	3700	U
120-82-1	1,2,4-Trichlorobenzene	3700	U
91-20-3	Naphthalene	3700	U
106-47-8	4-Chloroaniline	3700	U
87-68-3	Hexachlorobutadiene	3700	U
59-50-7	4-Chloro-3-Methylphenol	3700	U
91-57-6	2-Methylnaphthalene	3700	U
77-47-4	Hexachlorocyclopentadiene	3700	U
88-06-2	2,4,6-Trichlorophenol	3700	U
95-95-4	2,4,5-Trichlorophenol	18000	U
91-58-7	2-Chloronaphthalene	3700	U
88-74-4	2-Nitroaniline	18000	U
131-11-3	Dimethyl Phthalate	3700	U
208-96-8	Acenaphthylene	3700	U
606-20-2	2,6-Dinitrotoluene	3700	U

40288

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB80_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4245

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	18000	U
83-32-9	Acenaphthene	3700	U
51-28-5	2,4-Dinitrophenol	18000	U
100-02-7	4-Nitrophenol	18000	U
132-64-9	Dibenzofuran	3700	U
121-14-2	2,4-Dinitrotoluene	3700	U
84-66-2	Diethylphthalate	3700	U
7005-72-3	4-Chlorophenyl-phenylether	3700	U
86-73-7	Fluorene	3700	U
100-10-6	4-Nitroaniline	18000	U
534-52-1	4,6-Dinitro-2-Methylphenol	18000	U
86-30-6	N-Nitrosodiphenylamine (1)	3700	U
101-55-3	4-Bromophenyl-phenylether	3700	U
118-74-1	Hexachlorobenzene	3700	U
87-86-5	Pentachlorophenol	18000	U
85-01-8	Phenanthrene	440	J
120-12-7	Anthracene	3700	U
84-74-2	Di-n-Butylphthalate	3700	U
206-44-0	Fluoranthene	670	J
129-00-0	Pyrene	680	J
85-68-7	Butylbenzylphthalate	3700	U
91-94-1	3,3'-Dichlorobenzidine	7500	U
56-55-3	Benzo(a)Anthracene	3700	U
218-01-9	Chrysene	3700	U
117-81-7	bis(2-Ethylhexyl)Phthalate	450	BJ
117-84-0	Di-n-Octyl Phthalate	3700	U
205-99-2	Benzo(b)Fluoranthene	3700	U
207-08-9	Benzo(k)Fluoranthene	3700	U
50-32-8	Benzo(a)Pyrene	3700	U
193-39-5	Indeno(1,2,3-cd)Pyrene	3700	U
53-70-3	Dibenz(a,h)Anthracen	3700	U
191-24-2	Benzo(g,h,i)Perylene	3700	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6TB80_2

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01B

Sample wt/vol: 30.0 (g/mL) G Lab File ID: F4245

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. 12 Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 10.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ER28

Lab Name: CAMBRG Contract: NSB NLON

Lab Cod : CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J9223

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/14/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

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
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	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
65-85-0	Benzoic Acid	50	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	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalat	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

40301

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ER28

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J9223

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/14/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	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
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	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	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	51	
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	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)Perylen	10	U

(1) - Cannot be separated from Diphenylamine

40302

EPA SAMPLE NO.

ER28

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01B

Sample wt/vol: 1000 (g/mL) ML Lab File ID: J9223

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. ____ dec. ____ Date Extracted: 10/14/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/21/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	20.90	8.0	J
2.	Unknown	21.80	18	J
3.	Unknown	23.90	110	J

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW102

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-03

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 10 dec. __ Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/11/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.8	U
319-85-7	beta-BHC	8.8	U
319-86-8	delta-BHC	8.8	U
58-89-9	Lindane	8.8	U
76-44-8	Heptachlor	8.8	U
309-00-2	Aldrin	8.8	U
1024-57-3	Heptachlor epoxide	8.8	U
959-98-8	Endosulfan I	8.8	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	88	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	88	U
5103-74-2	gamma-Chlordane	88	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	88	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	88	U
53469-21-9	Aroclor-1242	88	U
12672-29-6	Aroclor-1248	88	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW146

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 9 dec. __ Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.8	U
319-85-7	beta-BHC	8.8	U
319-86-8	delta-BHC	8.8	U
58-89-9	Lindane	8.8	U
76-44-8	Heptachlor	8.8	U
309-00-2	Aldrin	8.8	U
1024-57-3	Heptachlor epoxide	8.8	U
959-98-8	Endosulfan I	8.8	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	88	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	88	U
5103-74-2	gamma-Chlordane	88	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	88	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	88	U
53469-21-9	Aroclor-1242	88	U
12672-29-6	Aroclor-1248	88	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

50025

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW202

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. __ Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/08/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.1	U
319-85-7	beta-BHC	9.1	U
319-86-8	delta-BHC	9.1	U
58-89-9	Lindane	9.1	U
76-44-8	Heptachlor	9.1	U
309-00-2	Aldrin	9.1	U
1024-57-3	Heptachlor epoxide	9.1	U
959-98-8	Endosulfan I	9.1	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	91	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	91	U
5103-74-2	gamma-Chlordane	91	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	91	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	91	U
53469-21-9	Aroclor-1242	91	U
12672-29-6	Aroclor-1248	91	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

50032

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW224

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 13 dec. __ Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/08/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.2	U
319-85-7	beta-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	Lindane	9.2	U
76-44-8	Heptachlor	9.2	U
309-00-2	Aldrin	9.2	U
1024-57-3	Heptachlor epoxide	9.2	U
959-98-8	Endosulfan I	9.2	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	92	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	92	U
5103-74-2	gamma-Chlordane	92	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	92	U
11104-28-2	Aroclor-1221	92	U
11141-16-5	Aroclor-1232	92	U
53469-21-9	Aroclor-1242	92	U
12672-29-6	Aroclor-1248	92	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

50038

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S02

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-01

Sample wt/vol: 29.6 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: ~~09/26/90~~ 10/17/90 MVC 1/25/90

% Moisture: not dec. 5 dec. __ Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.5	U
319-85-7	beta-BHC	8.5	U
319-86-8	delta-BHC	8.5	U
58-89-9	Lindane	8.5	U
76-44-8	Heptachlor	8.5	U
309-00-2	Aldrin	8.5	U
1024-57-3	Heptachlor epoxide	8.5	U
959-98-8	Endosulfan I	8.5	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	85	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	85	U
5103-74-2	gamma-Chlordane	85	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

50042

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW5S810

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010249-02

Sample wt/vol: 30.2 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: ~~09/28/90~~ 10/17/90 MYC 1/25/90

% Moisture: not dec. 5 dec. __ Date Extracted: 10/23/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/28/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.4	U
319-85-7	beta-BHC	8.4	U
319-86-8	delta-BHC	8.4	U
58-89-9	Lindane	8.4	U
76-44-8	Heptachlor	8.4	U
309-00-2	Aldrin	8.4	U
1024-57-3	Heptachlor epoxide	8.4	U
959-98-8	Endosulfan I	8.4	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	84	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	84	U
5103-74-2	gamma-Chlordane	84	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	84	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	84	U
53469-21-9	Aroclor-1242	84	U
12672-29-6	Aroclor-1248	84	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

50046

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW646

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-04

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 8 dec. __ Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.7	U
319-85-7	beta-BHC	8.7	U
319-86-8	delta-BHC	8.7	U
58-89-9	Lindane	8.7	U
76-44-8	Heptachlor	8.7	U
309-00-2	Aldrin	8.7	U
1024-57-3	Heptachlor epoxide	8.7	U
959-98-8	Endosulfan I	8.7	U
60-57-1	Dieldrin	17	U
72-55-9	4,4'-DDE	17	U
72-20-8	Endrin	17	U
33213-65-9	Endosulfan II	17	U
72-54-8	4,4'-DDD	17	U
1031-07-8	Endosulfan sulfate	17	U
50-29-3	4,4'-DDT	17	U
72-43-5	Methoxychlor	87	U
53494-70-5	Endrin ketone	17	U
5103-71-9	alpha-Chlordane	87	U
5103-74-2	gamma-Chlordane	87	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	87	U
11104-28-2	Aroclor-1221	87	U
11141-16-5	Aroclor-1232	87	U
53469-21-9	Aroclor-1242	87	U
12672-29-6	Aroclor-1248	87	U
11097-69-1	Aroclor-1254	170	U
11096-82-5	Aroclor-1260	170	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB102

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 0 dec. __ Date Extracted: 10/19/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/18/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	8.0	U
319-85-7	beta-BHC	8.0	U
319-86-8	delta-BHC	8.0	U
58-89-9	Lindane	8.0	U
76-44-8	Heptachlor	8.0	U
309-00-2	Aldrin	8.0	U
1024-57-3	Heptachlor epoxide	8.0	U
959-98-8	Endosulfan I	8.0	U
60-57-1	Dieldrin	16	U
72-55-9	4,4'-DDE	16	U
72-20-8	Endrin	16	U
33213-65-9	Endosulfan II	16	U
72-54-8	4,4'-DDD	16	U
1031-07-8	Endosulfan sulfate	16	U
50-29-3	4,4'-DDT	16	U
72-43-5	Methoxychlor	80	U
53494-70-5	Endrin ketone	16	U
5103-71-9	alpha-Chlordane	80	U
5103-74-2	gamma-Chlordane	80	U
8001-35-2	Toxaphene	160	U
12674-11-2	Aroclor-1016	80	U
11104-28-2	Aroclor-1221	80	U
11141-16-5	Aroclor-1232	80	U
53469-21-9	Aroclor-1242	80	U
12672-29-6	Aroclor-1248	80	U
11097-69-1	Aroclor-1254	160	U
11096-82-5	Aroclor-1260	160	U

50054

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB124

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010179-05

Sample wt/vol: 20.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. 5 dec. __ Date Extracted: 10/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/11/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	13	U
319-85-7	beta-BHC	13	U
319-86-8	delta-BHC	13	U
58-89-9	Lindane	13	U
76-44-8	Heptachlor	13	U
309-00-2	Aldrin	13	U
1024-57-3	Heptachlor epoxide	13	U
959-98-8	Endosulfan I	13	U
60-57-1	Dieldrin	25	U
72-55-9	4,4'-DDE	25	U
72-20-8	Endrin	25	U
33213-65-9	Endosulfan II	25	U
72-54-8	4,4'-DDD	25	U
1031-07-8	Endosulfan sulfate	25	U
50-29-3	4,4'-DDT	25	U
72-43-5	Methoxychlor	130	U
53494-70-5	Endrin ketone	25	U
5103-71-9	alpha-Chlordane	130	U
5103-74-2	gamma-Chlordane	130	U
8001-35-2	Toxaphene	250	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	250	U
11096-82-5	Aroclor-1260	450	X

50061

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6TB802

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9010131-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

Level: (low/med) LOW Date Received: 10/10/90

% Moisture: not dec. 12 dec. __ Date Extracted: 10/16/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 11/08/90

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	9.1	U
319-85-7	beta-BHC	9.1	U
319-86-8	delta-BHC	9.1	U
58-89-9	Lindane	9.1	U
76-44-8	Heptachlor	9.1	U
309-00-2	Aldrin	9.1	U
1024-57-3	Heptachlor epoxide	9.1	U
959-98-8	Endosulfan I	9.1	U
60-57-1	Dieldrin	18	U
72-55-9	4,4'-DDE	18	U
72-20-8	Endrin	18	U
33213-65-9	Endosulfan II	18	U
72-54-8	4,4'-DDD	18	U
1031-07-8	Endosulfan sulfate	18	U
50-29-3	4,4'-DDT	18	U
72-43-5	Methoxychlor	91	U
53494-70-5	Endrin ketone	18	U
5103-71-9	alpha-Chlordane	91	U
5103-74-2	gamma-Chlordane	91	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	91	U
11104-28-2	Aroclor-1221	91	U
11141-16-5	Aroclor-1232	91	U
53469-21-9	Aroclor-1242	91	U
12672-29-6	Aroclor-1248	91	U
11097-69-1	Aroclor-1254	180	U
11096-82-5	Aroclor-1260	180	U

50068

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ER28

Lab Name: CAMBRG Contract: NSB NLON

Lab Code: CAMBRG Case No.: FD255 SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: 9010184-01

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

Level: (low/med) LOW Date Received: 10/12/90

% Moisture: not dec. __ dec. __ Date Extracted: 10/17/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 11/22/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

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	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
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	1.0	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U