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FIELD REPORT

SEDIMENT SAMPLING

THAMES RIVER

NEW LONDON, CONNECTICUT

APRIL 1990

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FIELD REPORT

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1.0 INTRODUCTION

During the period March 1-29, 1990, OSI conducted two phases of a sediment sampling project on the Thames River in the area of New London, CT. The sampling program was performed for the Maguire Group in support of their EIS for deepening of the Thames River from the Naval Submarine Base south to the mouth of the river, a US Navy proposed project.

The first phase of the work entailed the collection of two grab samples at each of ten stations for macro benthic analysis. These samples were collected on March 1st and delivered to Maguire personnel for sieving during the day they were collected. The second phase included the acquisition of cores from 2-8 feet in length at 24 stations, March 6-8.

2.0 EQUIPMENT AND PROCEDURES

2.1 Horizontal Control

Four horizontal control stations, used for vessel positioning, were selected based upon points previously established by the Coast and Geodetic Survey and OSI on both the east and west shores of the Thames River. Table 1 provides the Connecticut State Plane Coordinates for these control points.

TABLE 1

CONTROL POINTS UTILIZED DURING THE SURVEY

Control Stations	Location	
	Northing	Easting
BURR 3	183531.62	779466.85
RONALD	195704.57	782480.33
MAMACOKE POINT	203896.00	779450.28
TYDOL	207525.58	778643.58

2.2 Vertical Control

Vertical control for the project for water depths at sample station was derived from predicted tidal curves for the Thames River in combination with the soundings on the hydrographic survey sheets prepared by Gahagan and Bryant Associates, Inc. and provided by The Maguire Group. None of the cores were located directly on a sounding point thus interpolation of the sounding data was required. Mean low water (MLW) depths calculated at each sample location during the field survey generally agreed well with the interpreted depths from these sheets.

2.3 Navigation

Survey vessel positioning was accomplished with a "Hydro I" range-azimuth navigation system consisting of a manned shore station and on board instrumentation (see specification sheets in Appendix A). The shore station includes a theodolite, a laser distance measuring instrument, and a data transmitter/receiver. The onboard equipment includes a multiprism optical reflector, a shipboard data transmitter/receiver, and a data display and logging computer.

As the survey vessel departs a sample station, the shore station operator tracks the boat with the theodolite. The "Hydro I" system measures the distance and azimuth angle from a referenced x,y location used as a backsight to the prism on the boat. These measurements are then radioed to the onboard navigation computer which provides a display of vessel position as well as steering directions to the next sample location for the helmsman. Once on station, the computer records the boat's position, time of day, and water depth for post-survey processing. Final position accuracy is ±2 feet.

This navigation system was chosen in lieu of employing a two-range microwave system because of probable interference from bridges in the survey area and site-specific geometric considerations which would have required establishing many more control stations to afford equivalent survey coverage and accuracy.

2.4 Sediment Sampling Operations

2.4.1 Grab Samples

A total of 10 sites were sampled with 2 grab samples obtained at each site using a Van Veen sediment sampler. The Van Veen sampler is a surface sediment sampler ideal for benthic studies in fine grained sediments. It is capable of retrieving up to .026 m3 of sediment over a .109 m2 area of the seafloor. The majority of grabs obtained were recovered with a full sample chamber as the surface sediments at most sample locations were soft. The final locations of the 20 grab samples are listed in Table 2, and in Figure 1.

Upon retrieval of the grabs onboard the survey vessel, the sediment was washed out of the Van Veen with filtered river water into a large plastic Rubbermaid container. The Van Veen was further washed off before it was lowered for the next sample.

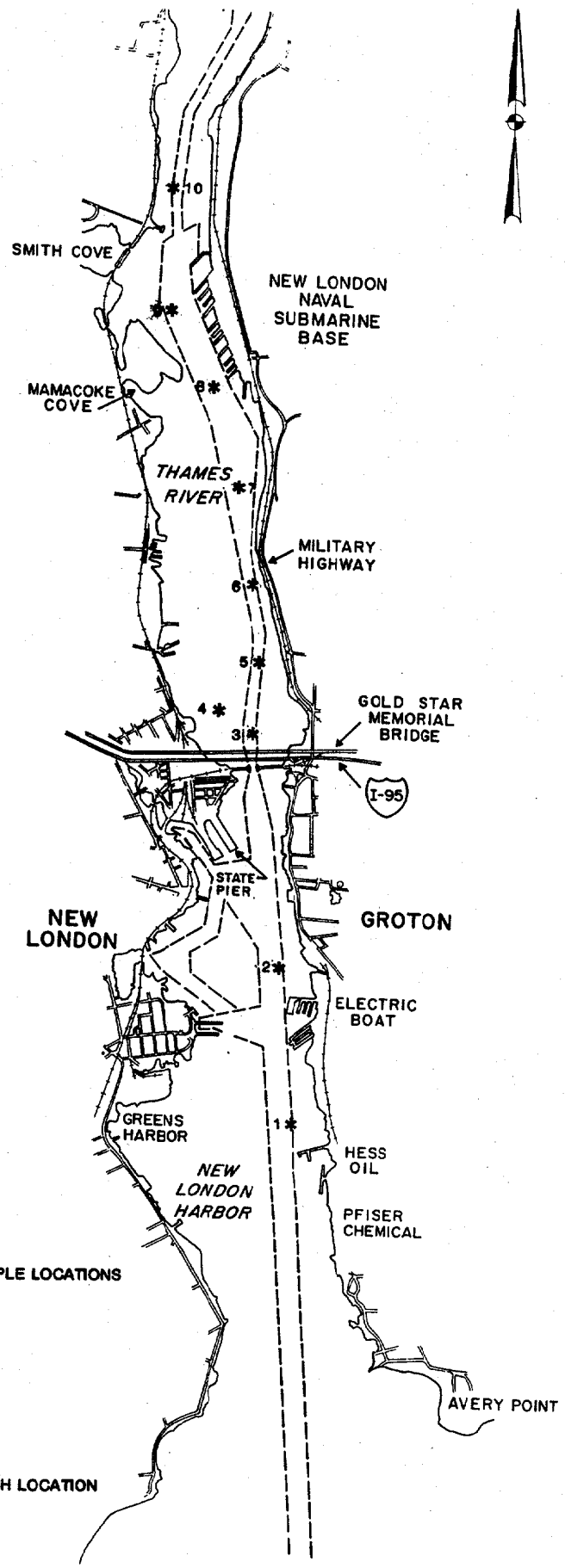
2.4.2 Core Samples

A Benthos gravity corer was employed to obtain sediment cores at 24 total sites down to a targeted depth of -42 ft MLW (see Table 3 for locations and recovery lengths). The corer was assembled for acquiring up to 10 ft cores to allow maximum sample recovery and prevent disturbance of the upper part of the core which can be caused by overfilling the core liner.

TABLE 2

GRAB SAMPLE LOCATIONS

Grab No.	Location Northing	Location Easting
1A	207692	779105
1B	207695	779106
2A	205372	779207
2B	205371	779209
3A	203411	780256
3b	203410	780255
4A	200422	781168
4B	200425	781175
5A	197970	781506
5B	197977	781515
6A	196930	781768
6B	196938	781764
7A	195346	781050
7B	195338	781049
8A	194973	781721
8B	194974	781725
9A	189108	782391
9B	189096	782385
10A	185110	782851
10B	185099	782866



* APROXIMATE BENTHIC GRAB SAMPLE LOCATIONS

NOTE: 2 SAMPLES TAKEN FOR EACH LOCATION
SCALE = NTS

FIGURE 1

TABLE 3

Core No.	Actual Location Northing	Actual Location Easting	Water Depth (ft)	Required Length (ft)	Delivered Length (ft)	Collected Day	Collected Time
1	208440	779785	36.7	5.3	4.3	3/8/90	0920
2	208028	779771	39.0	3.0	3.8	3/6/90	1615
3	207638	779780	36.6	5.4	6.0	3/6/90	1335
4	207339	779790	34.3	7.7	7.6	3/6/90	1535
5	208749	779424	35.8	6.2	5.9	3/7/90	1316
6	208470	779055	38.0	4.0	5.0	3/7/90	1349
7	207072	779233	38.6	3.4	3.8	3/8/90	0955
8	205692	778964	37.8	4.2	4.5	3/6/90	1635
9	205329	779814	37.7	4.3	5.1	3/7/90	1500
10	204338	780020	37.8	4.2	3.8	3/7/90	1539
11	204025	780400	37.6	4.4	5.1	3/7/90	1611
12	203113	780919	39.2	2.8	2.8	3/7/90	1639
13	202429	780387	38.8	3.2	3.8	3/7/90	1656
14	202234	781299	37.0	5.0	3.3	3/7/90	1721
15	200612	281183	38.3	3.7	3.8	3/8/90	1021
16	199582	780970	38.4	3.6	4.4	3/8/90	1044
17	198471	781426	36.7	5.3	4.4	3/8/90	1158
18	197274	781483	37.6	4.4	5.5	3/8/90	1220
19	195856	781815	37.8	4.2	5.5	3/8/90	1239
20	195240	781601	38.5	3.5	5.4	3/8/90	1304
21	188910	782313	37.2	4.8	3.4	3/8/90	1442
22	187565	782542	40.5	2.0	3.2	3/8/90	1458
23	184367	782947	40.2	2.0	3.3	3/8/90	1516
24	174898	783720	42.0	2.0	3.7	3/8/90	1544

Two methods of gravity coring were used during this project, each dependent on the amount of recovery needed at each particular core site. When less than 4 feet of penetration was required the top of the gravity corer was connected directly to the wire on the winch. The corer was allowed to fall from 15-20 ft above the bottom by releasing the brake on the winch. This method was appropriate for the shorter cores, but the winch friction restrained the corer, preventing it from achieving terminal velocity and not allowing full penetration for the longer cores.

For cores requiring over 4 ft of recovery and any shorter cores where extremely cohesive sediments warranted its use, a trigger arm and weight were attached to the top of the corer similar to a piston coring setup. The trigger weight was attached to the trigger arm with a 30 ft length of line resulting in a 20 ft drop, allowing the corer to reach terminal velocity on its descent into the sediment. The increase in corer velocity was sufficient to reach -42 ft MLW at all core locations.

Upon retrieving the gravity corer after each drop the core liner was recovered, the cores cut to length, capped, labelled, and stored on board. The air temperature throughout the survey was cold enough to maintain the cores at approximately the 4°C required.

Approximate locations of the core samples are shown in Figure 2.

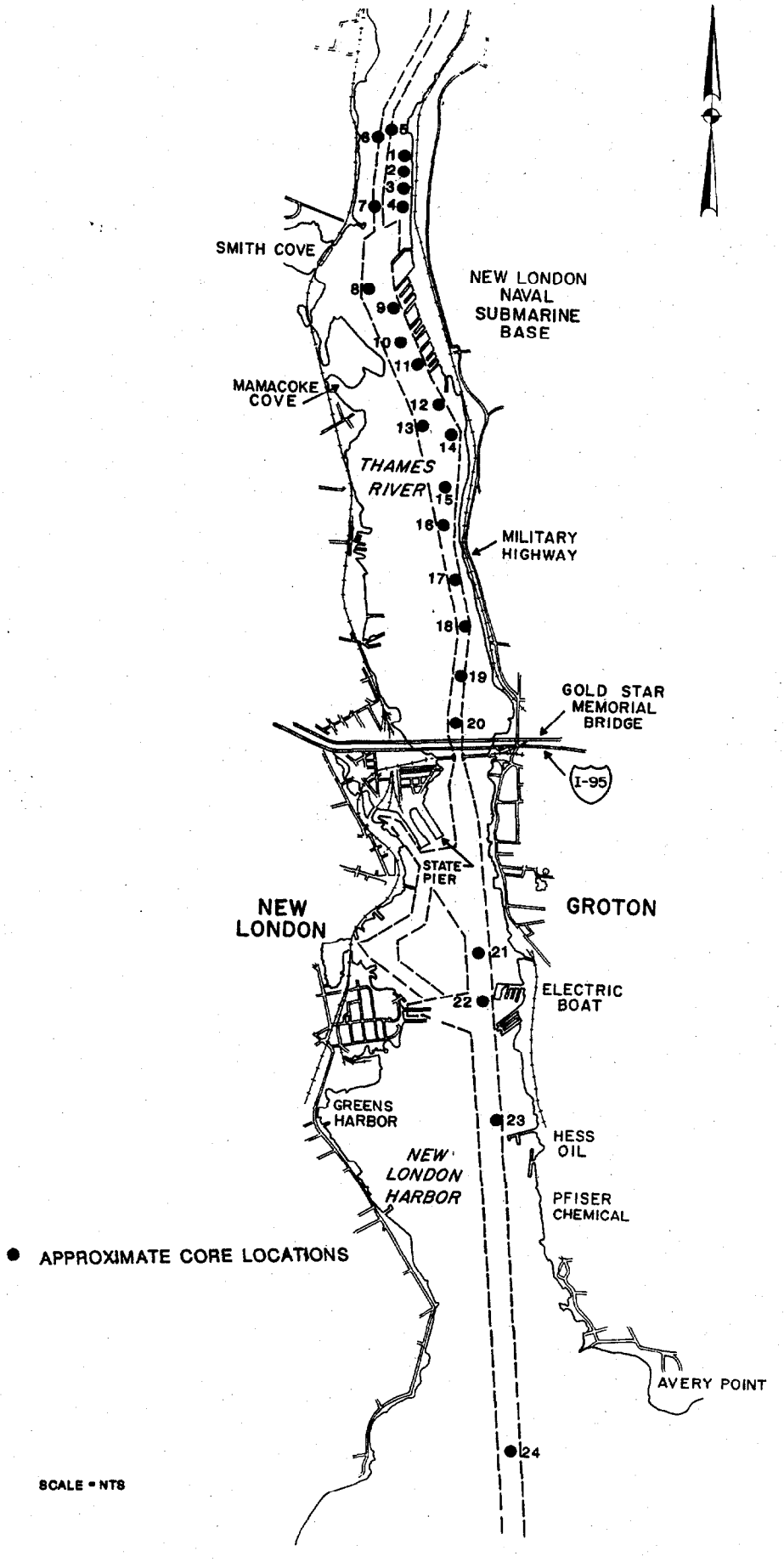

SMITH COVE
NEW LONDON NAVAL SUBMARINE BASE
MAMACOKE COVE
THAMES RIVER
MILITARY HIGHWAY
GOLD STAR MEMORIAL BRIDGE
I-95
STATE PIER
NEW LONDON
GROTON
ELECTRIC BOAT
GREENS HARBOR
HESS OIL
NEW LONDON HARBOR
PFISER CHEMICAL
AVERY POINT
APPROXIMATE CORE LOCATIONS
SCALE = NTS

FIGURE 2

4.0 DATA PRESENTATION

The grab samples obtained during this survey were delivered to Maguire personnel for sieving within a few hours of their collection. Cores were returned to OSI's office in Old Saybrook each evening where they were held at 4°C overnight. On the following day these cores were opened and subsampled by Maguire personnel. The final sample locations have been provided in Tables 2 and 3, and plotted on mylar as overlays 1-10 for use with the hydrographic survey sheets prepared by Gahagan and Bryant Associates, Inc. (Sheet Nos. W-6 to W-11, W-13 to W-15, and W-18). Chemical test results are shown on Tables 4 and 5. Benthic community composition is presented in Appendix D.

5.0 FIELD OBSERVATIONS

The following summary of field observations is included to provide additional information which may prove helpful in later stages of the Thames River Dredging Project.

The grab samples and cores obtained during this survey displayed generally uniform sediment characteristics throughout the study area. The majority of the grab samples penetrated 12-18 cm into black, anoxic mud on the surface with the exception of Grab 7 which retrieved some sand, pebbles, and cobbles as well. Generally, the surficial sediments in this section of the Thames River are highly anoxic, however, an oxidized surface layer approximately 2-3 mm thick was evident at several locations.

The gravity cores exhibited the same surficial sediments while identifying some minor variations in sediment characteristics

TABLE 4

SUMMARY
GRAIN SIZE DISTRIBUTION

STATION	% MASS FINER THAN .075 MM*
1	43.49
2	45.04
3	41.51
4	42.18
5	58.46
6	59.76
7	48.88
8	41.78
9	46.33
10	48.39
11	49.38
12	30.49
13	34.92
14	41.72
15	49.70
16	47.34
17	52.82
18	49.34
19	36.65
20	39.07
21	49.77
22	52.84
23	54.12
24	53.25

* U.S. Standard Sieve Size 200

TABLE 5

CORE SAMPLING ANALYSES

PARAMETER	UNIT	DETECTION LIMIT	STATION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2-
% Water	%	.01%	30.57	35.85	36.56	34.03	35.89	37.72	34.72	34.45	34.58	29.16	39.93	29.39	33.22	29.34	28.72	32.24	26.02	25.59	30.40	24.71	26.68	25.85	42.94	23.
Total Organic Compounds	mg/kg	12	28645	36902	62876	27133	27981	29415	31183	21390	25939	22532	42654	18711	22358	21911	19161	16944	16220	26595	16118	13409	14208	11458	15433	945
Total Petroleum Hydrocarbons	mg/kg	15	103	157	142	589*					242*		589*													
Arsenic	mg/kg	variable	7.68	7.30	4.26	8.34	4.78	4.58	6.38	8.01	7.43	4.31	5.82	7.89	5.77	8.70	4.32	6.79	5.43	7.91	5.65	5.50	5.37	4.04	6.04	4.
Cadmium	mg/kg	variable	1.10	1.35	1.38	1.18	1.16	2.23	1.48	1.48	1.29	1.25	1.24	1.00	1.30	1.38	0.95	0.77	0.74	0.91	1.01	0.84	1.24	1.05	1.26	1.
Chromium	mg/kg	variable	27.80	39.10	37.50	34.70	31.50	34.40	35.40	34.90	29.40	24.90	50.00	31.60	30.40	29.00	27.50	26.80	20.70	25.20	25.90	22.00	27.90	24.80	26.60	22.
Mercury	mg/kg	variable	0.09	0.12	0.13	0.15	0.10	0.06	ND	0.10	0.09	0.03	0.30	0.18	0.10	0.04	ND	0.08	0.02	0.04	0.03	0.02	0.12	0.03	0.05	0.
Lead	mg/kg	variable	28.30	58.80	48.00	40.00	33.50	35.90	34.60	41.80	30.10	24.40	58.10	41.10	31.40	31.00	28.00	21.10	20.40	24.70	26.60	20.70	35.70	25.80	25.00	19.
Copper	mg/kg	variable	22.50	40.90	38.70	34.70	25.50	24.10	24.50	26.40	22.40	10.00	36.90	32.10	21.20	21.30	18.80	18.30	10.40	15.20	14.80	10.70	17.90	13.30	14.70	10.
Zinc	mg/kg	variable	47.30	83.60	81.30	73.90	49.70	61.30	54.70	77.60	59.20	43.20	64.10	62.70	55.00	56.30	67.90	46.30	38.70	55.00	44.90	46.30	58.20	38.10	56.30	37.
Nickel	mg/kg	variable	13.40	24.70	15.70	14.10	13.20	16.80	15.90	18.10	15.50	15.50	13.60	11.00	16.30	15.30	13.80	16.00	10.20	13.00	15.20	13.00	16.90	14.60	20.00	15.
Aldrin	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Alpha-BHC	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Beta-Bhc	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Gamma-BHC	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Delta-BHC	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Chlordane	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
4,4-DDD	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
4,4-DDE	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
4,4-DDT	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Dieldrin	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Endosulfan I	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Endosulfan Sulfate	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Endrin Aldehyde	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Heptachlor Epoxide	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Toxaphene	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Methoxychlor	ug/kg	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1016	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1221	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1232	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1242	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1248	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1254	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
PCB-1260	ug/kg	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
Pyrene	ug/kg	20	192	103	106	347	88	ND	133	ND	ND	ND	187	185	ND	37	ND	ND	ND	ND	ND	1024	ND	ND	ND	ND
Benzo (Anthracene)	ug/kg	20	500	ND	ND	223	ND	483	467	ND	77	ND	548	160	ND	ND	ND	ND	ND	ND	ND	649	422	366	474	100
Chrysene	ug/kg	20	155	ND	ND	108	67	70	109	ND	87	ND	310	ND	44	ND	ND	86	ND	ND	74	567	79	ND	49	ND
BenzoPyrene	ug/kg	20	610	ND	ND	168	ND	78	ND	ND	ND	ND	300	ND	ND	ND	ND	ND	ND	ND	ND	258	310	257	334	314
Phenanthrene	ug/kg	20	ND	ND	ND	117	ND	ND	ND	ND	ND	ND	157	ND	ND	ND	ND	ND	ND	ND	ND	87	ND	ND	ND	ND
Fluoranthene	ug/kg	20	378	ND	ND	221	ND	85	211	ND	ND	ND	463	202	ND	ND	ND	ND	ND	ND	ND	1100	40	ND	ND	ND
Monobutyl Tin	mg/kg	20	ND	ND	ND	ND					ND		ND	ND												
Dibutyl Tin	mg/kg	4	ND	ND	ND	ND					ND		ND	ND												
Tributyl Tin	mg/kg	4	ND	ND	ND	ND					ND		ND	ND												

* 50 mg/kg detection limit

Note: testing for Arochlor 1254 yielded ND (no detection) on Stations 5 and 6
testing for Bromoform, Methylene Chloride and Total Cyanide on Station 9 yielded ND
testing for VOC (Volatile Organic Compounds) on Station 11 yielded ND

below the sediment surface. Cores 1-5, located in and around the submarine berths, revealed a brown mud several feet below the surface which continued down to the base of the cores. Most of the remaining cores to the south and closer to the channel revealed a gray colored mud below the surface. Several of the cores containing gray mud also had a higher percentage of sand at the bottom of the core as noticed by hand sampling the cutter head upon retrieving the corer on deck.

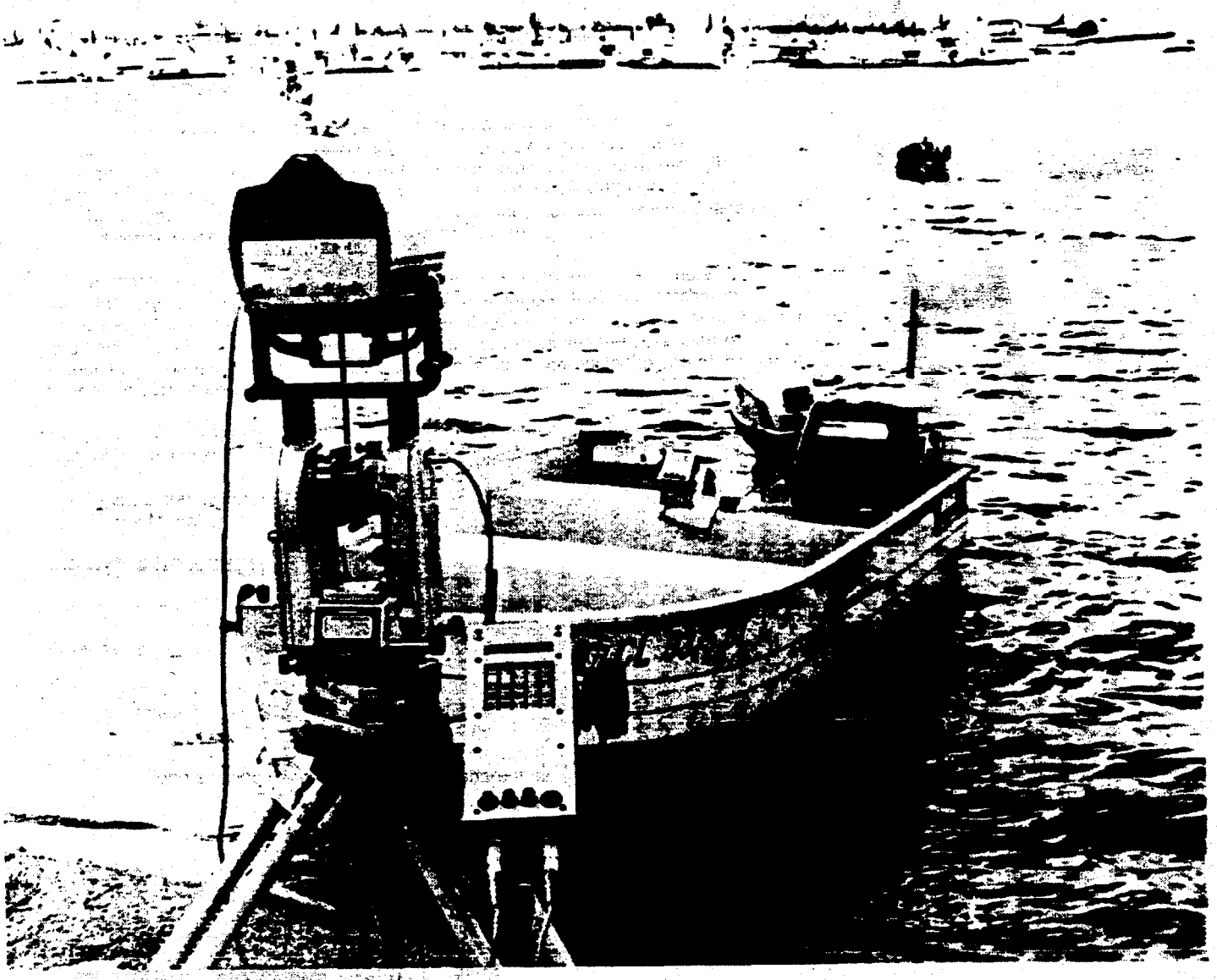
Both the brown and gray mud exhibit high compaction and cohesive strength which, combined with friction at the sediment-core liner interface, exceed the pressure and gravitational force of the corer at a critical depth into the sediment. This results in a "pile driving" affect of the corer since the sediment can no longer enter the core barrel. Below this critical depth the sediment is simply pushed aside as the corer penetrates until the sediment friction and cohesive strength stop its descent. Typically the corer penetrated its full 10-foot length. At all locations where sample was not recovered fully to -42 ft MLW, more than one attempt was made and in all cases penetration exceeded -42 ft.

APPENDIX A

EQUIPMENT SPECIFICATIONS

Hydro I

FULLY AUTOMATED RANGE AZIMUTH SURVEYING SYSTEM



THE HYDRO I IS A HIGHLY RELIABLE AND FULLY AUTOMATED HYDROGRAPHIC POSITIONING SYSTEM THAT CAN BE INTERFACED WITH YOUR EXISTING SOUNDING EQUIPMENT AND COMPUTER, TO PROVIDE YOU WITH A COMPLETE HYDROGRAPHIC SURVEYING PACKAGE INCLUDING COMPUTERIZED MAPPING.

International Measurement and Control Company
300 E. Mineral Suite #5
Littleton, Colorado 80122
(303) 797-7722

SYSTEM OVERVIEW

The Hydro I is a very compact range azimuth surveying system which makes it ideal for small boat situations. The system will automatically collect an (x,y) coordinate and a depth reading at a pre-set distance interval. The diagram below shows an example of the system programmed on a parallel line grid with a 50 ft. offset between lines. It has also been programmed to store an (x,y) coordinate and a depth reading at 10 ft. intervals. After entering the Start and End Points of the first grid line the system will automatically enter new line coordinates when surveying a parallel line grid. When surveying non-parallel lines, line coordinates can be stored and recalled as needed.

NAVIGATE AND SOUND DISPLAY EXAMPLES

The system provides navigation information both for navigating to the Start Point of a grid in the "Navigate Mode" and for keeping on line as soundings are being stored in the "Sound Mode".

NAVIGATE MODE
(Navigating to a New Line)

180°	45°	75'
Azimuth to Start Point	Azimuth of Desired Line	Distance to Start Point

In the Navigate Example in the diagram below, the boat operator would be provided with the information in the display above. From where the boat is located it needs to proceed 75 ft. straight south at a heading of 180° to arrive at the start of the next line which runs at a heading of 45°.

SOUND MODE
(Collecting depths & positions at preset increments)

D ■■■> D

This display would be provided in the Sound Mode Example below. Each block has been assigned a value of 5 ft., therefore the display is indicating the boat is off course to the left 15 ft. The arrow indicates the direction to return to course. The D indicates the data collector is on.

In both navigate and sound mode three additional displays are accessible.

X ± 999999.99 F

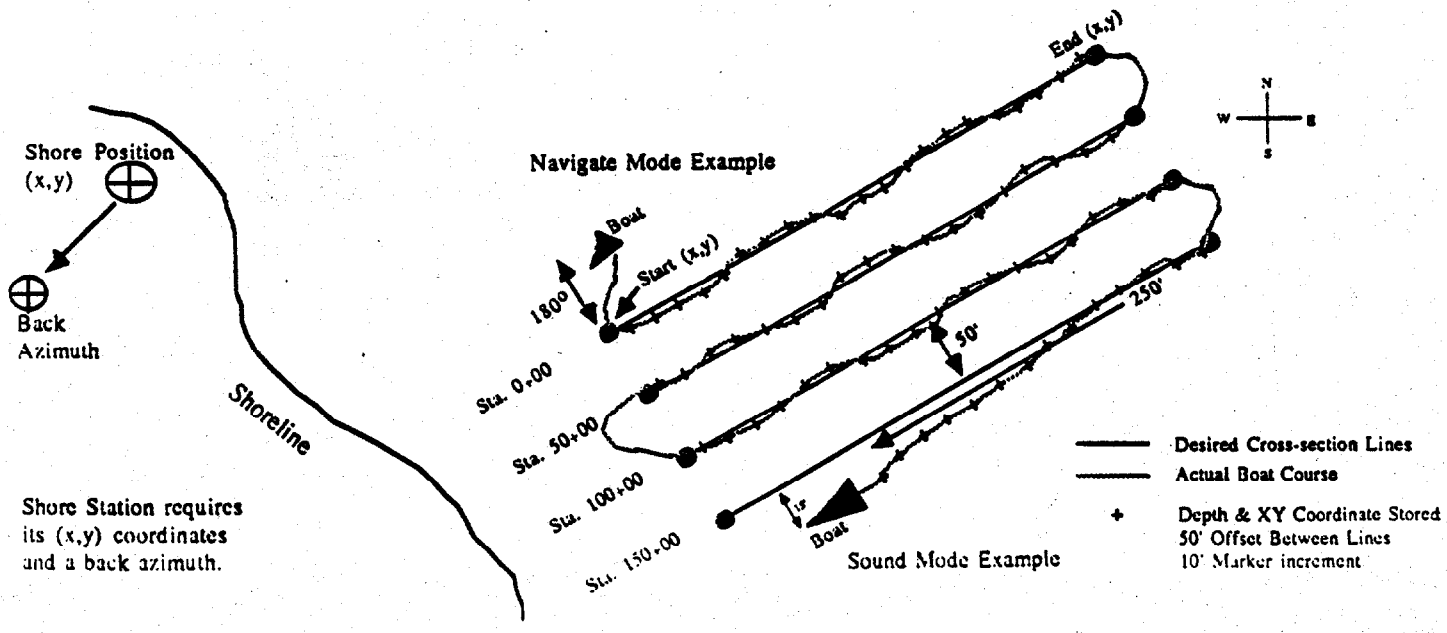
x coordinate of boat position

Y ± 999999.99 F

y coordinate of boat position

- 15 F	+250 N
Distance off line	Distance on line

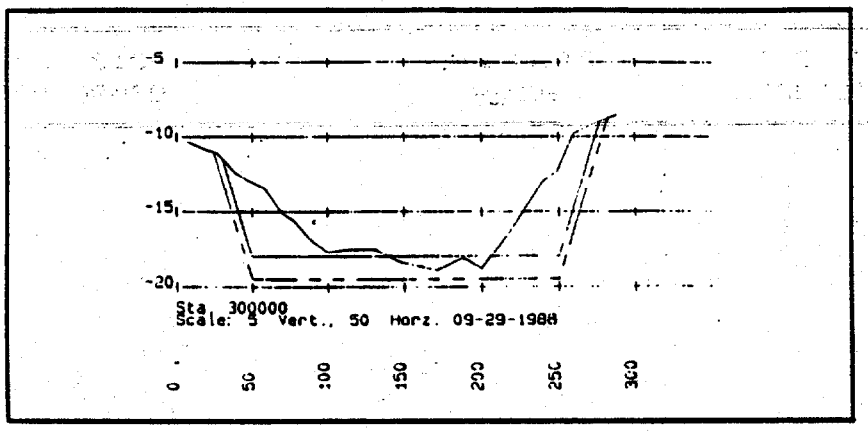
Refer to Sound Mode Example.
In this situation the boat is off line to the left 15 ft. and 250 ft. along the line from the start point.



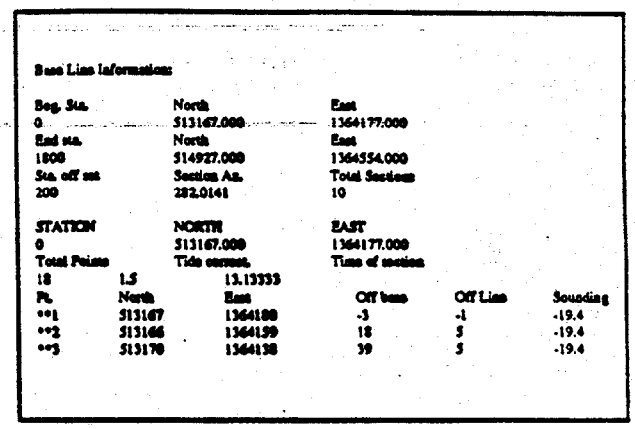
FIELD TO FINISH SOFTWARE

The IMC Post Processing software package is IBM compatible, very easy to use, and enables operator to:

A. Download data from Data Collector
B. Edit Data (on screen graphics)
C. Enter Tide Corrections
D. Plot Plan View (color select for depth highlighting)
E. Plot Cross Section View
F. Draw in Desired Dredge Template and Over-Dredge Template
G. Compute Dredge Volumes and Over-Dredge Volumes (fill also)
H. Print out of x, y coord., Dist. on line, Dist. off-line, Depths.



CROSS-SECTION VIEW WITH DREDGE TEMPLATE

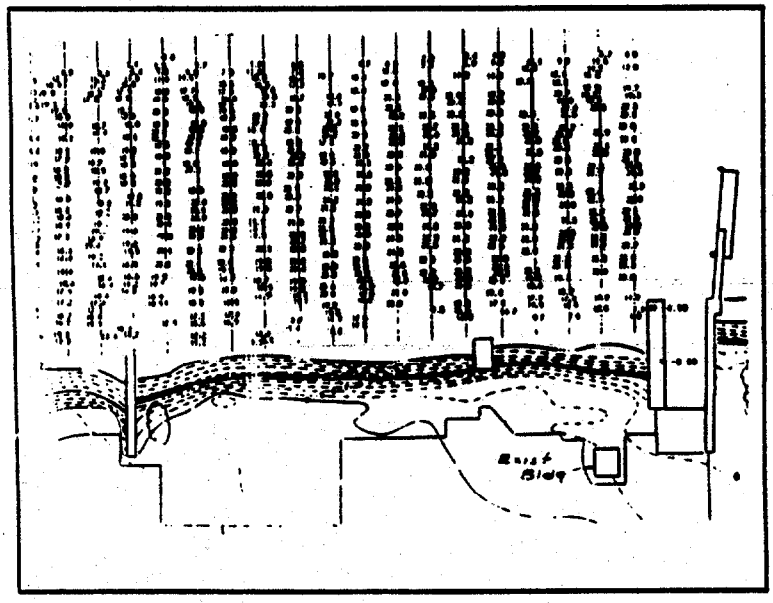


Base Line Information:

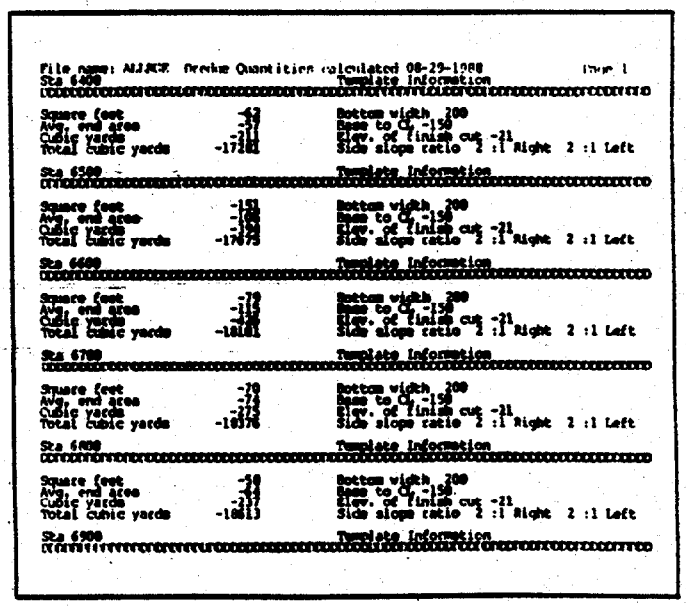
Beg. Sta.	North	East
0	513167.000	1364177.000
End sta.	North	East
1800	514927.000	1364554.000
Sta. off set	Section Az.	Total Sections
200	282.0141	10
STATION	NORTH	EAST
0	513167.000	1364177.000
Total Points	Tide correct.	Time of section
18	1.5	13.13333

Pt.	North	East	Off base	Off Line	Sounding
**1	513167	1364180	-3	-1	-19.4
**2	513166	1364199	18	5	-19.4
**3	513170	1364138	39	5	-19.4

PRINTED DATA



PLOT PLAN VIEW
(centered or digitized to existing map)



File name: [illegible] Dredge Quantities calculated 08-29-1988 Page 1

Sta 6400		Template information
Square feet	-42	Bottom width 200
Avg. end area	-37	Base to Cl -150
Cubic yards	-211	Elev. of finish cut -21
Total cubic yards	-17282	Side slope ratio 2 :1 Right 2 :1 Left
Sta 6500		Template information
Square feet	-151	Bottom width 200
Avg. end area	-108	Base to Cl -150
Cubic yards	-[illegible]	Elev. of finish cut -21
Total cubic yards	-17673	Side slope ratio 2 :1 Right 2 :1 Left
Sta 6600		Template information
Square feet	-79	Bottom width 200
Avg. end area	-115	Base to Cl -150
Cubic yards	-[illegible]	Elev. of finish cut -21
Total cubic yards	-18181	Side slope ratio 2 :1 Right 2 :1 Left
Sta 6700		Template information
Square feet	-70	Bottom width 200
Avg. end area	-74	Base to Cl -150
Cubic yards	-[illegible]	Elev. of finish cut -21
Total cubic yards	-18578	Side slope ratio 2 :1 Right 2 :1 Left
Sta 6800		Template information
Square feet	-50	Bottom width 200
Avg. end area	-[illegible]	Base to Cl -150
Cubic yards	-[illegible]	Elev. of finish cut -21
Total cubic yards	-18813	Side slope ratio 2 :1 Right 2 :1 Left
Sta 6900		Template information

DREDGE VOLUME PRINT-OUT

STANDARD SYSTEM EQUIPMENT:

1. Hydro I Laser
2. Lietz DT5 Theodolite
3. Quick Track Endless Tangent
4. Shore/Ship Voice and Data Links
5. Navigator Box
6. 12,000 Point Data Collector (x,y,z=1 Point)
7. Rechargeable Batteries w/chargers
8. RS232 Computer Interface

OPTIONAL EQUIPMENT:

1. IMC Post Processing Software Package
2. Fathometer
3. Fathometer Digitizer
4. Computer
5. Plotter
6. Prisms with omni Directional Cylinder
7. Tri-Pod
8. External Gel Cell Batteries
9. Internal Time Clock
10. High Gain Antennas
11. 30 A.H. Gel Cells

STANDARD SYSTEM FEATURES:

1. Navigation Directional Indicators which include:
   A. Navigation to Start Point of Line
   B. Course Navigation - Left/Right Steering Indicator
2. Interface to Sounder
3. Distance Measurement 5 times per second
4. Vertical & Horizontal angle measurement 2 times per second
5. Conversion to x,y, or station range positioning
6. Position update time .7 seconds
7. Depths recorded at distance intervals
8. Automatic computation of next line coordinates
9. Parallel and non-parallel line modes
10. Real time data output

SYSTEM SPECIFICATIONS

1. HYDRO I LASER: CLASS I EYE SAFE (CFR 21)
   A. Range: 5000m (to a triple prism)
   B. Update Rate: 5 times/sec.
   C. Accuracy: ±2 ft.
   D. Beam Width: 7 milliradians Hor. x 2 milliradians Ver.
   E. Power Source: 12 V DC

2. LIETZ DT5: ELECTRONIC THEODOLITE
   A. Accuracy: ± 5 Arc Sec.
   B. Resolution: 10 Arc Sec.
   C. Power Source: Rechargeable 6 Volt Ni Cad

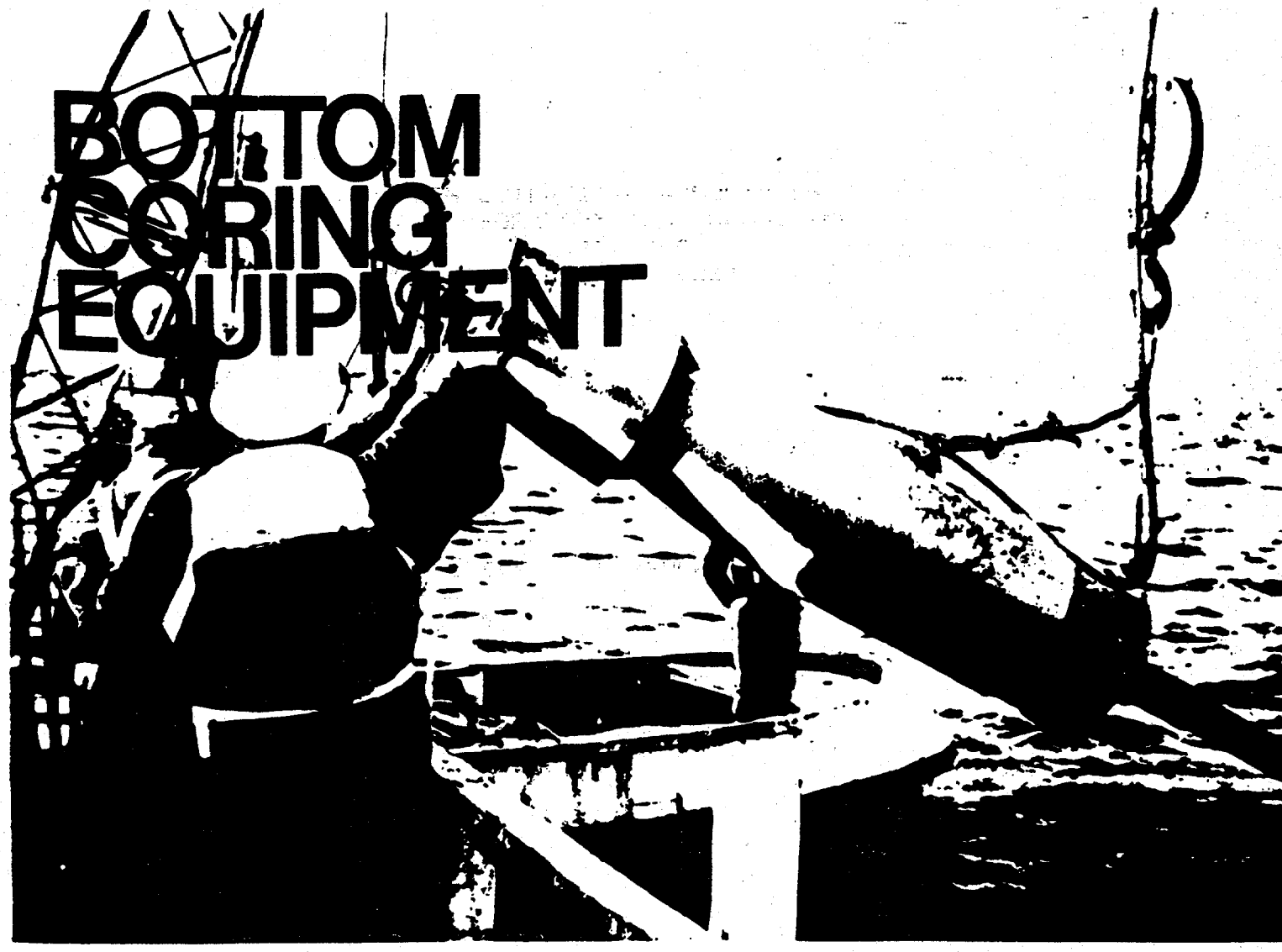
3. HYDROLINKS (Data Transmitters)
   A. Radio: 4 Watt Half-Duplex Voice/Data Communications
   B. Radio Range: 3 miles
   C. Power Source: 12 VDC

4. DATA COLLECTOR
   A. 12,000 Point Storage (1 Point = x,y, depth)
   B. Real Time Serial Output

Data transferred is standard ACSII format via RS232 Serial Link.

International Measurement & Control Company is continuously upgrading and improving it's products. Specifications may change without notice.

BOTTOM CORING EQUIPMENT



GRAVITY, PISTON AND BOOMERANG® CORERS

Specifications subject to change without notice.

Data Sheet BCE c Benthos, Inc., April 1978

BENTHOS Inc.
NORTH FALMOUTH, MA 02556 USA 617-563-5917 Telex 940884

MODEL 2171
GRAVITY CORER

FEATURES

- CORE SAMPLES TO 1.5 METERS LONG.
- A LOW-COST CORER WHICH IS SIMPLE AND RELIABLE IN OPERATION. CAN BE USED WITH OR WITHOUT STEEL BARREL.
- POSITIVE O-RING SEALED VALVE PREVENTS CORE WASHOUT.
- ADJUSTABLE WEIGHT STAND.
- STAINLESS STEEL CORE CATCHER.
- EASILY DISASSEMBLED FOR SHIPPING AND HANDLING.

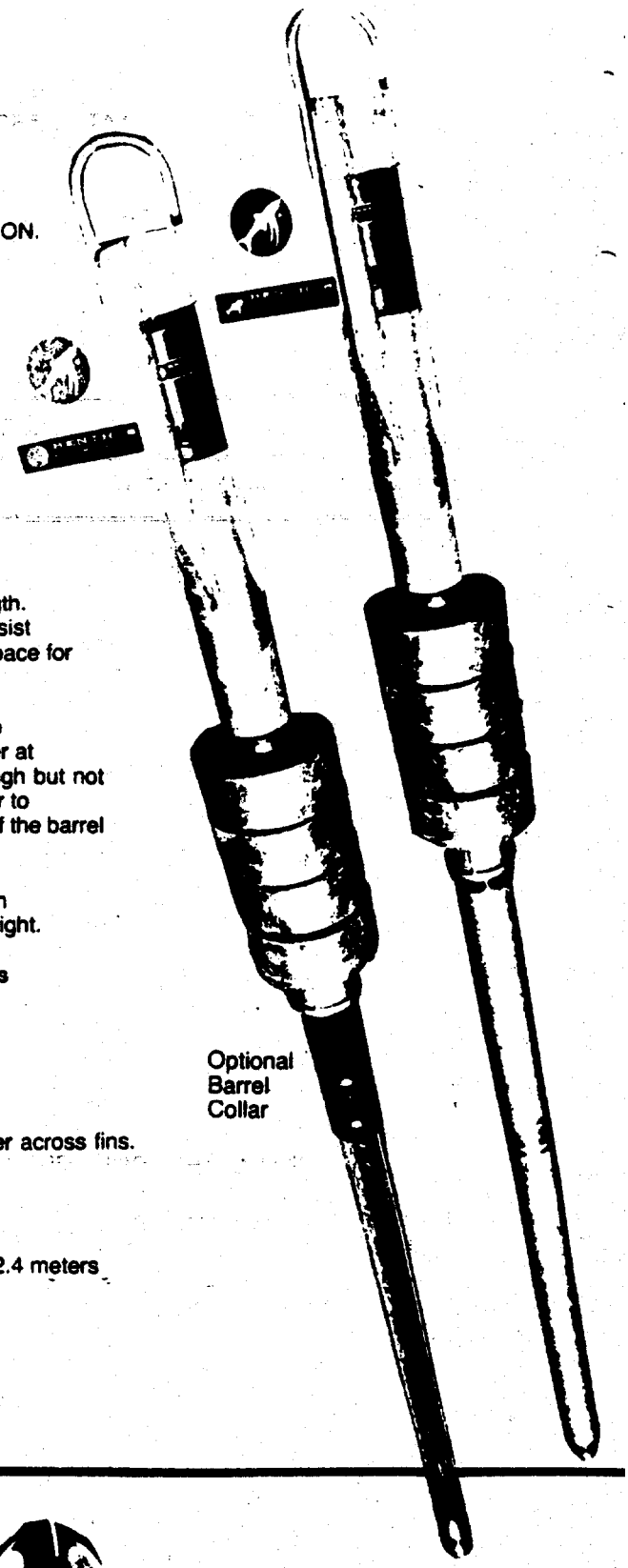
DESCRIPTION

The Gravity Corer is a general purpose tool for obtaining sediment cores in harbors, rivers, lakes or in the deep ocean. Cores are 67 mm (2⅝ inches) in diameter and as long as 1.5 meters (5 feet) depending on sediment strength. The weight stand is constructed of galvanized steel with stabilizing fins to assist straight bottom penetration. It has four 20 kg (44 pound) lead weights with space for two additional weights for penetration of hard bottom sediments.

A watertight valve at the top of the core liner prevents washout of the sample while the corer is being raised to the surface. The stainless steel core catcher at the bottom of the liner has flexible fingers that allow the core to pass through but not slide back out. The galvanized steel barrel completely encloses the core liner to protect it from damage. A manganese bronze nose cone screws to the end of the barrel to form the cutting edge.

For use in soft sediments, the steel barrel may be eliminated by the use of an optional barrel collar (2170-BC) and nose cone (2170-NCL) as illustrated at right.

The Benthos gravity corer is often used as a pilot corer for large piston corers such as the Model 2450.



Optional Barrel Collar

SPECIFICATIONS

Weight: 118 kg (250 pounds) with four weights in place.

Dimensions: 2.7 meters (9 feet) overall length x 40 cm (16 inches) diameter across fins.

Drive Weights, 2171-W: Four 20 kg (44 pounds) lead weights supplied; two additional weights can be added.

Core Liner, 2171-CL: 67 mm (2⅝ inches) I.D. x 73 mm (2⅞ inches) O.D. x 2.4 meters (8 feet) long cellulose acetate butyrate transparent tubing.

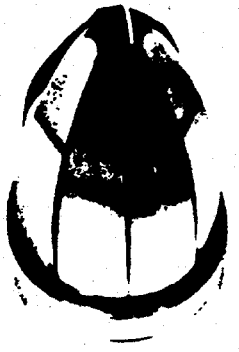
Valve, 2171-VR: PVC plastic, O-ring sealed.

Nose Cone, 2171-NCB: Manganese bronze.

Core Catcher, 1890-CC: Stainless steel with flexible fingers.

CORE LINER

This transparent plastic liner is installed inside the steel barrel of a sediment corer so that the cores can be removed from the corer, visually inspected and stored without extruding them. The liner is available in lengths up to 6 meters with squarely cut and bevelled ends. Polyethylene caps for sealing the liners after the core is taken are available.



CORE CATCHER

This welded stainless steel core catcher i used at the bottom of sediment coring tub. Its leaf-spring fingers work like a Chines finger puzzle to allow the core to move u through the core tube but prevent it from slid ing back out. It has an inside diameter of 6. cm (2.6 inches) with an outside diameter of 7. cm (2.87 inches) and is made to fit the Bentho core liner.

APPENDIX B

EASTERN SCIENTIFIC ASSOCIATES

LAB SHEETS

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 1

SAMPLE #: MG-9035

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS	103	3/20/90	15 MG/KG	EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 1

SAMPLE #: MG-9023

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	7.68	3/22	0.18	7060
CADMIUM	1.10	3/19	0.095	7130
CHROMIUM	27.8	3/19	0.95	7190
MERCURY	0.09	3/23	0.02	7471
LEAD	28.3	3/19	0.95	7420
COPPER	22.5	3/19	0.95	7210
ZINC	47.3	3/19	0.95	7950
NICKEL	13.4	3/19	0.95	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #1

SAMPLE #: MG-9023

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 98.90 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	94.08g	98.80 %
10	93.01g	97.68 %
20	86.21g	90.54 %
40	8.22g	84.25 %
60	N/A	N/A
100	N/A	N/A
200	41.41g	43.49 %

TOTAL MASS = 95.22g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH #0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9023 STATION 1
DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/20/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITTAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #1

SAMPLE #: MG-9023

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	30.57%	3/14/90	0.01%	EPA/CE-81-1
TOC	28,645 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #1

SAMPLE #: MG-9023

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	192	20
BENZO(a)ANTHRACENE	500	20
CHRYSENE	155	20
BENZO(a)PYRENE	610	20
PHENANTHRENE	ND	20
FLUORANTHENE	378	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 2

SAMPLE #: MG-9001

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	7.3	3/22	0.18	7060
CADMIUM	1.35	3/19	0.082	7130
CHROMIUM	39.1	3/19	0.82	7190
MERCURY	0.12	3/23	0.02	7471
LEAD	58.8	3/19	0.98	7420
COPPER	40.9	3/19	0.82	7210
ZINC	83.6	3/19	0.82	7950
NICKEL	24.7	3/19	0.82	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 2

SAMPLE #: MG-9015

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS ---------	157	---- 3/20/90	----15 MG/KG	--- EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #2

SAMPLE #: MG-9001

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.59 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	68.08g	99.59 %
10	68.08g	99.59 %
20	62.46g	91.37 %
40	57.18g	83.65 %
60	N/A	N/A
100	N/A	N/A
200	30.79g	45.04 %

TOTAL MASS = 68.36g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: PROJ #1[illegible]
STATION [illegible]
SAMPLE #: MG-9001
DATE/TIME COLLECTED: 3/9/90

PESTICIDES — **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
ALDRIN	ND		20
ALPHA-BHC	ND		20
BETA-BHC	ND		20
GAMMA-BHC	ND		20
DELTA-BHC	ND		20
CHLORDANE	ND		20
4,4'-DDD	ND		20
4,4'-DDE	ND		20
4,4'-DDT	ND		20
DIELDRIN	ND		20
ENDOSULFAN I	ND		20
ENDOSULFAN II	ND		20
ENDOSULFAN SULFATE	ND		20
ENDRIN	ND		20
ENDRIN ALDEHYDE	ND		20
HEPTACHLOR	ND		20
HEPTACHLOR EPOXIDE	ND		20
TOXAPHENE	ND		20
METHOXYCHLOR	ND		20

PCBs — **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
PCB-1016	ND		10
PCB-1221	ND		10
PCB-1232	ND		10
PCB-1242	ND		10
PCB-1248	ND		10
PCB-1254	ND		10
PCB-1260	ND		10

ND=NONE DETECTED **DATE OF ANALYSIS 3/15/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/19/90

T. F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #2

SAMPLE #: MG-9001

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	33.85%	3/14/90	0.01%	EPA/CE-81-1
TOC	36.902 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 2

SAMPLE #: MG-9001

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	**103**	**20**
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 3

SAMPLE #: MG-9016

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS ---------	142	---- 3/20/90	----15 MG/KG	--- EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 3

SAMPLE #: MG-9003

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.26	3/22	0.17	7060
CADMIUM	1.38	3/19	0.090	7130
CHROMIUM	37.5	3/19	0.90	7190
MERCURY	0.13	3/23	0.02	7471
LEAD	48.0	3/19	0.90	7420
COPPER	38.7	3/19	0.90	7210
ZINC	81.3	3/19	0.90	7950
NICKEL	15.7	3/19	0.90	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #3

SAMPLE #: MG9003

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 98.38 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	78.12g	98.38 %
10	77.57g	97.68 %
20	71.04g	89.46 %
40	64.09g	80.71 %
60	N/A	N/A
100	N/A	N/A
200	32.96g	41.51 %

TOTAL MASS = 79.41g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN. BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE PROJ # [illegible]
STATION [illegible]
SAMPLE #: MG-[illegible]
DATE/TIME COLLECTED: 3/9/90

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/15/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO

THE MAGUIRE GROUP
ATTN: JOE MARTWELL
[illegible] STREET
NEW LONDON, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #[illegible]
STATION [illegible]

SAMPLE #: MG-9006

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	36.56%	3/14/90	0.01%	EPA/CE-[illegible]
TOC	62.875 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY

FM/RIBLN
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 3

SAMPLE #: MG-9003

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	**106**	**20**
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 4

SAMPLE #: MG-9018

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS ---------	589	---- 3/15/90	----50 MG/KG	--- EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 4

SAMPLE #: MG-9009

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	8.34	3/22	0.18	7060
CADMIUM	1.18	3/19	0.092	7130
CHROMIUM	34.7	3/19	0.92	7190
MERCURY	0.15	3/23	0.02	7471
LEAD	40.0	3/19	0.92	7420
COPPER	34.7	3/19	0.92	7210
ZINC	73.9	3/19	0.92	7950
NICKEL	14.1	3/19	0.92	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #4

SAMPLE #: MG-9009

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.21 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	90.32g	99.11 %
10	89.17g	97.85 %
20	81.27g	89.18 %
40	72.13g	79.15 %
60	N/A	N/A
100	N/A	N/A
200	38.44g	42.18 %

TOTAL MASS = 91.13g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

[illegible]

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	[illegible]	[illegible]
ALPHA-BHC	ND	[illegible]
[illegible]	ND	[illegible]
GAMMA-BHC	ND	[illegible]
DELTA-BHC	ND	[illegible]
CHLORDANE	ND	[illegible]
4,4'-DDD	ND	[illegible]
4,4'-DDE	ND	[illegible]
4,4'-DDT	ND	[illegible]
DIELDRIN	ND	[illegible]
ENDOSULFAN I	ND	[illegible]
ENDOSULFAN II	ND	[illegible]
ENDOSULFAN SULFATE	ND	[illegible]
ENDRIN	ND	[illegible]
ENDRIN ALDEHYDE	ND	[illegible]
HEPTACHLOR	ND	[illegible]
HEPTACHLOR EPOXIDE	ND	[illegible]
TOXAPHENE	ND	[illegible]
METHOXYCHLOR	ND	[illegible]

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	[illegible]
PCB-1221	ND	[illegible]
PCB-1232	ND	[illegible]
PCB-1242	ND	[illegible]
PCB-1248	ND	[illegible]
PCB-1254	ND	[illegible]
PCB-1260	ND	[illegible]

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. McCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

[illegible]

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	34.03%	[illegible]	[illegible]	[illegible]
TOC	27,132 MG/KG	3/16/90	12 MG/KG	[illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY [illegible] PERSONNEL. IF NOTED BELOW.

VERIFIED BY

FM/[illegible]
[illegible]

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere

[illegible] MCCOMMAS, DIRECTOR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH 0463

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 4

SAMPLE #: MG-9009

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	347	20
BENZO(a)ANTHRACENE	223	20
CHRYSENE	108	20
BENZO(a)PYRENE	168	20
PHENANTHRENE	117	20
FLUORANTHENE	221	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
AROCLOR 1254	ND	[illegible]	10 [illegible]	[illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

FM RIDLK
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerrier

T. F. MCCOMMAS, DIRECTOR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 5

SAMPLE #: MG-9008

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.78	3/22	0.18	7060
CADMIUM	1.16	3/19	0.080	7130
CHROMIUM	31.5	3/19	0.80	7190
MERCURY	0.10	3/23	0.02	7471
LEAD	33.5	3/19	0.80	7420
COPPER	25.5	3/19	0.80	7210
ZINC	49.7	3/19	0.80	7950
NICKEL	13.2	3/19	0.80	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #5

SAMPLE #: MG-9008

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.97 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	95.19g	99.97 %
10	95.19g	99.97 %
20	94.55g	98.90 %
40	91.75g	95.97 %
60	N/A	N/A
100	N/A	N/A
200	55.89g	58.46 %

TOTAL MASS = 95.60g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

Robert LaFleur

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS

ND = NONE DETECTED

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #[illegible]
STATION 5

SAMPLE #: MG-9008

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	88	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	67	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/21/90

T.F.MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS

ND = NONE DETECTED

Robert LaJeunesse

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 6

SAMPLE #: MG-9006

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.58	3/22	0.19	7060
CADMIUM	2.23	3/19	0.094	7130
CHROMIUM	34.4	3/19	0.94	7190
MERCURY	0.06	3/23	0.02	7471
LEAD	35.9	3/19	0.94	7420
COPPER	24.1	3/19	0.94	7210
ZINC	61.3	3/19	0.94	7950
NICKEL	16.8	3/19	0.94	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #6

SAMPLE #: MG-9006

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.75 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	82.61g	99.75 %
10	82.61g	99.75 %
20	79.90g	96.47 %
40	74.67g	90.16 %
60	N/A	N/A
100	N/A	N/A
200	49.12g	59.76 %

TOTAL MASS = 82.82g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/15/90

T. F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB PERSONNEL. IF NOTED BELOW

VERIFIED BY:

[illegible]

REPORT IS AN ACCURATE [illegible] SAMPLE RECEIVED IN THIS LABORATORY

Robert LaZerre

[illegible] MCCONNAY, DIRECTOR
ROBERT LAZERRIERE, [illegible]

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 6

SAMPLE #: MG-9006

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	483	20
CHRYSENE	70	20
BENZO(a)PYRENE	78	20
PHENANTHRENE	ND	20
FLUORANTHENE	85	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/21/90

T.F.MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 7

SAMPLE #: MG-9030

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	6.38	3/22	0.23	7060
CADMIUM	1.48	3/19	0.088	7130
CHROMIUM	35.4	3/19	0.88	7190
MERCURY	ND	3/23	0.02	7471
LEAD	34.6	3/19	0.88	7420
COPPER	24.5	3/19	0.88	7210
ZINC	54.7	3/19	0.88	7950
NICKEL	15.9	3/19	0.88	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #7

SAMPLE #: MG-9030

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.18 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	89.78g	99.18 %
10	89.06g	98.39 %
20	80.38g	88.80 %
40	71.74g	79.25 %
60	N/A	N/A
100	N/A	N/A
200	44.25g	48.88 %

TOTAL MASS = 90.52g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 1306c
SAMPLE #: MG-9030 STATION
DATE/TIME COLLECTED: 3/12/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED DATE OF ANALYSIS 3/21/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPC88080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

[illegible]

[illegible]

[illegible]

[illegible]

Robert LaFerrière

[illegible] DIRECTOR
ROBERT LAFERRIERE, CHIEF [illegible]

(203) 774-6814 CT LABORATORY PH 3465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #7

SAMPLE #: MG-9030

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	133	20
BENZO(a)ANTHRACENE	467	20
CHRYSENE	109	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	211	20

DATE OF ANALYSIS 3/16/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

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EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 8

SAMPLE #: MG-9002

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	8.01	3/22	0.20	7060
CADMIUM	1.48	3/19	0.097	7130
CHROMIUM	34.9	3/19	0.97	7190
MERCURY	0.10	3/23	0.02	7471
LEAD	41.8	3/19	0.97	7420
COPPER	26.4	3/19	0.97	7210
ZINC	77.6	3/19	0.97	7950
NICKEL	18.1	3/19	0.97	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITTAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #8

SAMPLE #: MG-9002

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.34 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	82.44g	99.34 %
10	80.74g	97.29 %
20	70.31g	84.72 %
40	60.37g	72.74 %
60	N/A	N/A
100	N/A	N/A
200	34.67g	41.78 %

TOTAL MASS = 82.99g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	ND	[illegible]
[illegible]	ND	10
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

[illegible]

Robert LaJeunesse

[illegible]

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS

ND = NONE DETECTED

[illegible] SPECIFIED SAMPLE TAKEN [illegible] PERSONNEL. IF NOTED BELOW

[illegible]

Robert LaGerrie

[illegible]

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 8

SAMPLE #: MG-9002

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 9

SAMPLE #: MG-9017

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS	242	3/15/90	50 MG/KG	EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT ST S.
NEW BRITAIN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #9

SAMPLE #: MG-9021

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL CYANIDE	ND	3/13/90	2.0 UG/KG	SW-846 9012

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #9

SAMPLE #: MG-9020

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
METHYLENE CHLORIDE	ND	3/12/90	100 UG/KG	SW-846 8010

% SURROGATE RECOVERY

1-CHLORO-2-FLUOROBENZENE 101 %

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 9

SAMPLE #: MG-9007

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	7.43	3/22	0.25	7060
CADMIUM	1.29	3/19	0.084	7130
CHROMIUM	29.4	3/19	0.84	7190
MERCURY	0.09	3/23	0.02	7471
LEAD	30.1	3/19	0.84	7420
COPPER	22.4	3/19	0.84	7210
ZINC	59.2	3/19	0.84	7950
NICKEL	15.5	3/19	0.84	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #9

SAMPLE #: MG-9007

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.38 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	90.64g	99.38 %
10	90.52g	99.24 %
20	83.55g	91.60 %
40	65.77g	72.11 %
60	N/A	N/A
100	N/A	N/A
200	42.26g	46.33 %

TOTAL MASS = 91.21g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: [illegible]
STATION #[illegible]
SAMPLE #: MG-[illegible]
DATE/TIME COLLECTED: [illegible]/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
ALDRIN	ND		20
ALPHA-BHC	ND		20
BETA-BHC	ND		20
GAMMA-BHC	ND		20
DELTA-BHC	ND		20
CHLORDANE	ND		20
4,4'-DDD	ND		20
4,4'-DDE	ND		20
4,4'-DDT	ND		20
DIELDRIN	ND		20
ENDOSULFAN I	ND		20
ENDOSULFAN II	ND		20
ENDOSULFAN SULFATE	ND		20
ENDRIN	ND		20
ENDRIN ALDEHYDE	ND		20
HEPTACHLOR	ND		20
HEPTACHLOR EPOXIDE	ND		20
TOXAPHENE	ND		20
METHOXYCHLOR	ND		20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
PCB-1016	ND		10
PCB-1221	ND		10
PCB-1232	ND		10
PCB-1242	ND		10
PCB-1248	ND		10
PCB-1254	ND		10
PCB-1260	ND		10

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN. BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #15066
STATION #9

SAMPLE #: MG-9007

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	34.58%	3/14/90	0.01%	EPA/CE-81-1
TOC	25,939 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 9

SAMPLE #: MG-9007

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	**77**	**20**
CHRYSENE	**87**	**20**
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 10

SAMPLE #: MG-9004

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.31	3/22	0.16	7060
CADMIUM	1.25	3/19	0.079	7130
CHROMIUM	24.9	3/19	0.79	7190
MERCURY	0.03	3/23	0.02	7471
LEAD	24.4	3/19	0.79	7420
COPPER	10.0	3/19	0.79	7210
ZINC	43.2	3/19	0.79	7950
NICKEL	15.5	3/19	0.79	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #10

SAMPLE #: MG-9004

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 97.75 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	96.12g	97.75 %
10	95.89g	97.52 %
20	93.69g	95.28 %
40	81.68g	83.07 %
60	N/A	N/A
100	N/A	N/A
200	47.58g	48.39 %

TOTAL MASS = 98.33g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN. BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: PROJ #[illegible]
STATION #[illegible]
SAMPLE #: MC-[illegible]
DATE/TIME COLLECTED: 3/9/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/15/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPC88080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: [illegible]
[illegible]
NEW BRITAIN, CT

SOURCE OF SAMPLE: FRAMES [illegible]
PROJECT #[illegible]
STATION #[illegible]

SAMPLE # MG-9004

TYPE OF SUPPLY: [illegible] MATERIAL

DATE/TIME COLLECTED: 3/[illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	29.16%	3/14/90	0.01%	EPA/CE-81-1
TOC	22,532 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 10

SAMPLE #: MG-9004

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 11

SAMPLE #: MG-9019

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
TOTAL PETROLEUM HYDROCARBONS ---------	589	---- 3/15/90	----50 MG/KG	--- EPA 418.1

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/TPHSOIL
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCE, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #11

SAMPLE #: MG-9022

DATE/TIME COLLECTED: 3/9/90

EPA METHOD 8240 GC/MS
VOLATILE ORGANICS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
BENZENE	ND	10
BROMODICHLOROMETHANE	ND	10
BROMOFORM	ND	10
BROMOMETHANE	ND	10
CARBON TETRACHLORIDE	ND	10
CHLOROBENZENE	ND	10
CHLOROETHANE	ND	10
2-CHLOROETHYLVINYL ETHER	ND	100
CHLOROFORM	ND	10
CHLOROMETHANE	ND	10
DIBROMOCHLOROMETHANE	ND	10
1,2-DICHLOROBENZENE	ND	10
1,3-DICHLOROBENZENE	ND	10
1,4-DICHLOROBENZENE	ND	10
1,1-DICHLOROETHANE	ND	10
1,2-DICHLOROETHANE	ND	10
1,1-DICHLOROETHENE	ND	10
TRANS-1,2-DICHLOROETHENE	ND	10
1,2-DICHLOROPROPANE	ND	10
cis-1,3-DICHLOROPROPANE	ND	10
TRANS-1,3-DICHLOROPROPANE	ND	10
ETHYLBENZENE	ND	10
METHYLENE CHLORIDE	ND	100
1,1,2,2-TETRACHLOROETHANE	ND	10
TETRACHLOROETHENE	ND	10
TOLUENE	ND	10
1,1,1-TRICHLOROETHANE	ND	10
1,1,2-TRICHLOROETHANE	ND	10
TRICHLOROETHENE	ND	10
TRICHLOROFLUOROMETHANE	ND	10
VINYL CHLORIDE	ND	10
TOTAL XYLENES	ND	10
ACROLEIN	ND	100
ACRYLONITRILE	ND	100

% SURROGATE RECOVERY

TOLUENE-D8	N/A %
4-BROMOFLUOROBENZENE	N/A %
1,2-DICHLOROETHANE-D4	N/A %

ND=NONE DETECTED DATE OF ANALYSIS 3/20/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8240RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 11

SAMPLE #: MG-9010

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.82	3/22	0.16	7060
CADMIUM	1.24	3/19	0.080	7130
CHROMIUM	50.0	3/19	0.80	7190
MERCURY	0.30	3/23	0.02	7471
LEAD	58.1	3/19	0.80	7420
COPPER	36.9	3/19	0.80	7210
ZINC	64.1	3/19	0.80	7950
NICKEL	13.6	3/19	0.80	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #11

SAMPLE #: MG-9010

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.10 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	99.18g	98.89 %
10	98.19g	97.91 %
20	92.65g	92.38 %
40	86.00g	85.75 %
60	N/A	N/A
100	N/A	N/A
200	49.52g	49.38 %

TOTAL MASS = 100.29g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER PROJ #13066 STATION #11

SAMPLE #: MG-9010

DATE/TIME COLLECTED: 3/9/90

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/15/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #11

SAMPLE #: MG-9010

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	39.93%	3/14/90	0.01%	EPA/CE-81-1
TOC	42.654 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 11

SAMPLE #: MG-9010

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	187	20
BENZO(a)ANTHRACENE	548	20
CHRYSENE	310	20
BENZO(a)PYRENE	300	20
PHENANTHRENE	157	20
FLUORANTHENE	463	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 12

SAMPLE #: MG-9012

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	7.89	3/22	0.19	7060
CADMIUM	1.00	3/19	0.093	7130
CHROMIUM	31.6	3/19	0.93	7190
MERCURY	0.18	3/23	0.02	7471
LEAD	41.1	3/19	0.93	7420
COPPER	32.1	3/19	0.93	7210
ZINC	62.7	3/19	0.93	7950
NICKEL	11.0	3/19	0.93	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #12

SAMPLE #: MG9012

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.47 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	108.93g	97.22 %
10	107.26g	95.73 %
20	102.44g	91.43 %
40	87.93g	78 %
60	N/A	N/A
100	N/A	N/A
200	34.16g	30.49 %

TOTAL MASS = 112.04g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: PROJ #10061
STATION #12

SAMPLE #: MG-9012

DATE/TIME COLLECTED: 3/9/90

PESTICIDES — **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
ALDRIN	ND		20
ALPHA-BHC	ND		20
BETA-BHC	ND		20
GAMMA-BHC	ND		20
DELTA-BHC	ND		20
CHLORDANE	ND		20
4,4'-DDD	ND		20
4,4'-DDE	ND		20
4,4'-DDT	ND		20
DIELDRIN	ND		20
ENDOSULFAN I	ND		20
ENDOSULFAN II	ND		20
ENDOSULFAN SULFATE	ND		20
ENDRIN	ND		20
ENDRIN ALDEHYDE	ND		20
HEPTACHLOR	ND		20
HEPTACHLOR EPOXIDE	ND		20
TOXAPHENE	ND		20
METHOXYCHLOR	ND		20

PCBs — **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
PCB-1016	ND		10
PCB-1221	ND		10
PCB-1232	ND		10
PCB-1242	ND		10
PCB-1248	ND		10
PCB-1254	ND		10
PCB-1260	ND		10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #12

SAMPLE #: MG-9012

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	29.39%	3/14/90	0.01%	EPA/CE-81-1
TOC	18,711 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 12

SAMPLE #: MG-9012

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	**185**	**20**
BENZO(a)ANTHRACENE	**160**	**20**
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	**202**	**20**

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 13

SAMPLE #: MG-9011

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.77	3/22	0.19	7060
CADMIUM	1.30	3/19	0.079	7130
CHROMIUM	30.4	3/19	0.79	7190
MERCURY	0.10	3/23	0.02	7471
LEAD	31.4	3/19	0.79	7420
COPPER	21.2	3/19	0.79	7210
ZINC	55.0	3/19	0.79	7950
NICKEL	16.3	3/19	0.79	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #13

SAMPLE #: MG9011

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 97.23 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	84.10g	95.51 %
10	81.75g	92.84 %
20	69.25g	78.65 %
40	57.78g	65.62 %
60	N/A	N/A
100	N/A	N/A
200	30.75g	34.92 %

TOTAL MASS = 88.05g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: PROJ [illegible]
STATION #
SAMPLE #: MP-PC11
DATE/TIME COLLECTED: [illegible]

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPC88080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
[illegible]
[illegible]
NEW BRITAIN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #170[illegible]
STATION #[illegible]
SAMPLE # MG-9011
TYPE OF SAMPLE: SEDIMENT MATERIAL
DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	33.22%	3/14/90	0.01%	EPA/CE-81-1
TOC	21,359 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 13

SAMPLE #: MG-9011

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	**44**	**20**
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 14

SAMPLE #: MG-9005

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	8.70	3/22	0.17	7060
CADMIUM	1.38	3/19	0.088	7130
CHROMIUM	29.0	3/19	0.88	7190
MERCURY	0.04	3/23	0.02	7471
LEAD	31.0	3/19	0.88	7420
COPPER	21.3	3/19	0.88	7210
ZINC	56.3	3/19	0.88	7950
NICKEL	15.3	3/19	0.88	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
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EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #14

SAMPLE #: MG-9005

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.28 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	93.93g	99.28 %
10	90.16g	95.30 %
20	77.16g	81.56 %
40	67.39g	71.23 %
60	N/A	N/A
100	N/A	N/A
200	39.46g	41.72 %

TOTAL MASS = 94.61g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

[illegible]

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]
GAMMA-BHC	ND	[illegible]
[illegible]	ND	[illegible]
CHLORDANE	ND	[illegible]
4,4'-DDD	ND	[illegible]
4,4'-DDE	ND	[illegible]
4,4'-DDT	ND	[illegible]
DIELDRIN	ND	[illegible]
ENDOSULFAN I	ND	[illegible]
ENDOSULFAN II	ND	[illegible]
ENDOSULFAN SULFATE	ND	[illegible]
ENDRIN	ND	[illegible]
ENDRIN ALDEHYDE	ND	[illegible]
HEPTACHLOR	ND	[illegible]
HEPTACHLOR [illegible]	ND	[illegible]
[illegible]	ND	[illegible]
[illegible]	ND	[illegible]

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED DATE OF ANALYSIS 3/15/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCUMMOS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/[illegible]
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY [illegible] PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/RIBLK
GR

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerrière

[illegible] MCCONMAS, DIRECTOR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH 0145

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION 14

SAMPLE #: MG-9005

DATE/TIME COLLECTED: 3/9/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	**37**	**20**
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/13/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/21/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 15

SAMPLE #: MG-9029

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.32	3/22	0.19	7060
CADMIUM	0.951	3/19	0.094	7130
CHROMIUM	27.5	3/19	0.94	7190
MERCURY	ND	3/23	0.02	7471
LEAD	28.0	3/19	0.94	7420
COPPER	18.8	3/19	0.94	7210
ZINC	67.9	3/19	0.94	7950
NICKEL	13.8	3/19	0.94	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #13

SAMPLE #: MG-9029

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.03 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	101.67	99.03 %
10	100.11g	97.51 %
20	89.43g	87.10 %
40	8.43g	78.34 %
60	N/A	N/A
100	N/A	N/A
200	51.03g	49.70 %

TOTAL MASS = 102.67g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITTAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9029 STATION 15
DATE/TIME COLLECTED: 3/12/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
ALDRIN	ND		20
ALPHA-BHC	ND		20
BETA-BHC	ND		20
GAMMA-BHC	ND		20
DELTA-BHC	ND		20
CHLORDANE	ND		20
4,4'-DDD	ND		20
4,4'-DDE	ND		20
4,4'-DDT	ND		20
DIELDRIN	ND		20
ENDOSULFAN I	ND		20
ENDOSULFAN II	ND		20
ENDOSULFAN SULFATE	ND		20
ENDRIN	ND		20
ENDRIN ALDEHYDE	ND		20
HEPTACHLOR	ND		20
HEPTACHLOR EPOXIDE	ND		20
TOXAPHENE	ND		20
METHOXYCHLOR	ND		20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
PCB-1016	ND		10
PCB-1221	ND		10
PCB-1232	ND		10
PCB-1242	ND		10
PCB-1248	ND		10
PCB-1254	ND		10
PCB-1260	ND		10

ND=NONE DETECTED **DATE OF ANALYSIS 3/21/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS

ND = NONE DETECTED

[illegible] SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

[illegible]

[illegible]

REPORT IS AN ACCURATE [illegible] SAMPLE RECEIVED IN THIS LABORATORY

Robert Lafleur

T.F. MCCORMAS, DIRECTOR
ROBERT LAFLEURIERE, ASSIST. DIRECTOR

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITTAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13065
STATION #15

SAMPLE #: MG-9029

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 16

SAMPLE #: MG-9028

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	6.79	3/22	0.22	7060
CADMIUM	0.772	3/19	0.087	7130
CHROMIUM	26.8	3/19	0.87	7190
MERCURY	0.08	3/23	0.02	7471
LEAD	21.1	3/19	0.87	7420
COPPER	18.3	3/19	0.87	7210
ZINC	46.3	3/19	0.87	7950
NICKEL	16.0	3/19	0.87	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #16

SAMPLE #: MG9028

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.25 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	94.56g	99.25 %
10	93.77g	98.43 %
20	83.24g	87.37 %
40	73.78g	77.44 %
60	N/A	N/A
100	N/A	N/A
200	45.10g	47.34 %

TOTAL MASS = 95.27g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9028 STATION 16
DATE/TIME COLLECTED: 3/12/90

PESTICIDES METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/20/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
TOC	[illegible]	[illegible]	[illegible]	[illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

CERTIFIED BY

FM RIBLK
MP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerrie

[illegible]
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #16

SAMPLE #: MG-9028

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	**86**	**20**
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 17

SAMPLE #: MG-9027

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.43	3/22	0.19	7060
CADMIUM	0.735	3/19	0.091	7130
CHROMIUM	20.7	3/19	0.91	7190
MERCURY	0.02	3/23	0.02	7471
LEAD	20.4	3/19	0.91	7420
COPPER	10.4	3/19	0.91	7210
ZINC	38.7	3/19	0.91	7950
NICKEL	10.2	3/19	0.91	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #17

SAMPLE #: MG9027

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 98.18 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	105.04g	99.18 %
10	103.31g	97.55 %
20	92.42g	87.26 %
40	83.03g	79.40 %
60	N/A	N/A
100	N/A	N/A
200	55.94g	52.82 %

TOTAL MASS =105.91g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9027 STATION 17
DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	3/11/90	[illegible]	EPA [illegible]
[illegible]	18.220 MG/KG	3/16/90	12 MG/KG	EPA [illegible]

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

T.F. MCCOMMAS, DIRECTOR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #17

SAMPLE #: MG-9027

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 18

SAMPLE #: MG-9026

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	7.91	3/22	0.22	7060
CADMIUM	0.905	3/19	0.091	7130
CHROMIUM	25.2	3/19	0.91	7190
MERCURY	0.04	3/23	0.02	7471
LEAD	24.7	3/19	0.91	7420
COPPER	15.2	3/19	0.91	7210
ZINC	55.0	3/19	0.91	7950
NICKEL	13.0	3/19	0.91	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #18

SAMPLE #: MG-9026

DATE/TIME COLLECTED: 3/9/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.11 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	100.43g	99.11 %
10	98.77g	97.47 %
20	86.44g	85.31 %
40	76.45g	75.45 %
60	N/A	N/A
100	N/A	N/A
200	50.00g	49.34 %

TOTAL MASS = 101.33g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/21/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH #0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9026 STATION 18
DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
[illegible]
[illegible]
NEW ARTISAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #[illegible]
STATION #[illegible]
SAMPLE #: [illegible]

TYPE OF SAMPLE: DREDGE MATERIAL

DATE TIME COLLECTED: [illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	25.59%	3/14/90	0.01%	EPA/CE-81-
TOC	26.595 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #18

SAMPLE #: MG-9026

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	ND	20
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 19

SAMPLE #: MG-9024

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.65	3/22	0.18	7060
CADMIUM	1.01	3/19	0.095	7130
CHROMIUM	25.9	3/19	0.95	7190
MERCURY	0.03	3/23	0.02	7471
LEAD	26.6	3/19	0.95	7420
COPPER	14.8	3/19	0.95	7210
ZINC	44.9	3/19	0.95	7950
NICKEL	15.2	3/19	0.95	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #19

SAMPLE #: MG9024

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 97.35 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	90.98g	97.35 %
10	86.98g	93.17 %
20	72.38g	77.53 %
40	62.12g	66.35 %
60	N/A	N/A
100	N/A	N/A
200	34.22g	36.65 %

TOTAL MASS = 93.36g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH #0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT.

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9024 STATION 19
DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-ODE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: DOE WARDWELL
[illegible] COURT STREET
NEW BRITAIN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #[illegible]
STATION #[illegible]

SAMPLE #: MG-[illegible]

TYPE OF SAMPLE: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/9/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% MOD	30.40%	3/14/90	0.01%	EPA/CE-81-1
TOC	16,110 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY.

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/[illegible]/90

T.F. MCDOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLY
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #19

SAMPLE #: MG-9024

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	ND	20
CHRYSENE	**74**	**20**
BENZO(a)PYRENE	ND	20
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 20

SAMPLE #: MG-9025

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.50	3/22	0.19	7060
CADMIUM	0.836	3/19	0.090	7130
CHROMIUM	22.0	3/19	0.90	7190
MERCURY	0.02	3/23	0.02	7471
LEAD	20.7	3/19	0.90	7420
COPPER	10.7	3/19	0.90	7210
ZINC	46.3	3/19	0.90	7950
NICKEL	13.0	3/19	0.90	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #20

SAMPLE #: MG9025

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 97.58 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	92.48g	97.58 %
10	90.77g	95.78 %
20	77.52g	81.79 %
40	66.38g	70.04 %
60	N/A	N/A
100	N/A	N/A
200	37.03g	39.07 %

TOTAL MASS = 94.77g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

(203) 774-6814 CT LABORATORY PH #0463

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9025 STATION 20

DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/16/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
[illegible]
[illegible]
NEW BRITAIN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT [illegible]
STATION [illegible]
SAMPLE [illegible]

TYPE OF SUPPLY: [illegible]

DATE/TIME CORRECTED: [illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	[illegible]	0.01%	EPA/CE-81-1
TOC	[illegible] MG/KG	3/16/90	[illegible] MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

FM/RIBLK
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere

T.F. McCOMMAS, DIRECTOR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #20

SAMPLE #: MG-9025

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	1,024	20
BENZO(a)ANTHRACENE	649	20
CHRYSENE	567	20
BENZO(a)PYRENE	258	20
PHENANTHRENE	87	20
FLUORANTHENE	1,100	20

DATE OF ANALYSIS 3/15/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/22/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814

CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 21

SAMPLE #: MG-9032

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	5.37	3/22	0.22	7060
CADMIUM	1.24	3/19	0.095	7130
CHROMIUM	27.9	3/19	0.95	7190
MERCURY	0.12	3/23	0.02	7471
LEAD	35.7	3/19	0.95	7420
COPPER	17.9	3/19	0.95	7210
ZINC	58.2	3/19	0.95	7950
NICKEL	16.9	3/19	0.95	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

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EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #21

SAMPLE #: MG9032

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 98.57 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	100.99g	98.57 %
10	99.16g	96.79 %
20	87.12g	85.04 %
40	77.49g	75.64 %
60	N/A	N/A
100	N/A	N/A
200	50.99g	49.77 %

TOTAL MASS =102.45g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:

THE MAGUIRE GROUP
ATTN: [illegible] WARDWELL
[illegible]
NEW BRITAIN, CT

SOURCE OF SAMPLE: THAMES [illegible]
PROJECT [illegible]
STATION #21

SAMPLE # MG-[illegible]

TYPE OF SAMPLE: REDUE MATERIAL

DATE TIME COLLECTED: [illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	26.58%	3/14/90	0.01%	EPA/[illegible]
TOC	14,208 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT L3066
SAMPLE #: MG-9032 STATION 21
DATE/TIME COLLECTED: 3/12/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/23/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #21

SAMPLE #: MG-9032

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	422	20
CHRYSENE	79	20
BENZO(a)PYRENE	310	20
PHENANTHRENE	ND	20
FLUORANTHENE	40	20

DATE OF ANALYSIS 3/22/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/23/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 22

SAMPLE #: MG-9034

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.04	3/22	0.18	7060
CADMIUM	1.05	3/19	0.093	7130
CHROMIUM	24.8	3/19	0.93	7190
MERCURY	0.03	3/23	0.02	7471
LEAD	25.8	3/19	0.93	7420
COPPER	13.3	3/19	0.93	7210
ZINC	38.1	3/19	0.93	7950
NICKEL	14.6	3/19	0.93	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #22

SAMPLE #: MG9034

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 98.76 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	102.20g	98.76 %
10	100.44g	97.06 %
20	89.46g	86.45 %
40	80.11g	77.42 %
60	N/A	N/A
100	N/A	N/A
200	54.68g	52.84 %

TOTAL MASS =103.48g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
[illegible]
NEW BRITAIN, CT

SOURCE OF SAMPLE: [illegible]
PROJECT #[illegible]
STATION #[illegible]
SAMPLE #: MG-[illegible]
TYPE OF SAMPLE: SEDIMENT
DATE/TIME COLLECTED: 3/13/90

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
% H2O	25.83	3/14/90	0.01%	EPA/CE-81-1
TOC	11,158 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIL
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9034 STATION 22
DATE/TIME COLLECTED: 3/12/90

PESTICIDES **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs **METHOD SWA-846 8080**

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED **DATE OF ANALYSIS 3/23/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #22

SAMPLE #: MG-9034

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	**366**	**20**
CHRYSENE	ND	20
BENZO(a)PYRENE	**257**	**20**
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/22/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/23/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 23

SAMPLE #: MG-9033

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	6.04	3/22	0.18	7060
CADMIUM	1.26	3/19	0.084	7130
CHROMIUM	26.6	3/19	0.84	7190
MERCURY	0.05	3/23	0.02	7471
LEAD	25.0	3/19	0.84	7420
COPPER	14.7	3/19	0.84	7210
ZINC	56.3	3/19	0.84	7950
NICKEL	20.0	3/19	0.84	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION #23

SAMPLE #: MG9033

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.06 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	114.05g	98.94 %
10	112.78g	97.84 %
20	101.58g	88.12 %
40	91.49g	79.37 %
60	N/A	N/A
100	N/A	N/A
200	62.37g	54.12 %

TOTAL MASS =115.27g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

[illegible]

THE MAGUIRE GROUP
[illegible]
[illegible]
NEW [illegible]

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #[illegible]
STATION #[illegible]

SAMPLE #: MG [illegible]

TYPE OF [illegible]: [illegible]

DATE/TIME COLLECTED: [illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	[illegible]	3/14/90	0.01%	EPA/CE[illegible]
TOC	15,[illegible] MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/RIBLK
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9033 STATION 23
DATE/TIME COLLECTED: 3/12/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
ALDRIN	ND	20
ALPHA-BHC	ND	20
BETA-BHC	ND	20
GAMMA-BHC	ND	20
DELTA-BHC	ND	20
CHLORDANE	ND	20
4,4'-DDD	ND	20
4,4'-DDE	ND	20
4,4'-DDT	ND	20
DIELDRIN	ND	20
ENDOSULFAN I	ND	20
ENDOSULFAN II	ND	20
ENDOSULFAN SULFATE	ND	20
ENDRIN	ND	20
ENDRIN ALDEHYDE	ND	20
HEPTACHLOR	ND	20
HEPTACHLOR EPOXIDE	ND	20
TOXAPHENE	ND	20
METHOXYCHLOR	ND	20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PCB-1016	ND	10
PCB-1221	ND	10
PCB-1232	ND	10
PCB-1242	ND	10
PCB-1248	ND	10
PCB-1254	ND	10
PCB-1260	ND	10

ND=NONE DETECTED DATE OF ANALYSIS 3/23/90

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

(203) 774-6814 CT LABORATORY PH 0465

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #23

SAMPLE #: MG-9033

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	**474**	**20**
CHRYSENE	**49**	**20**
BENZO(a)PYRENE	**334**	**20**
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/22/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/23/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT 06051

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
STATION 24

SAMPLE #: MG-9031

TYPE OF SUPPLY: DREDGE MATERIAL

DATE/TIME COLLECTED: 3/12/90

ANALYSIS PERFORMED	RESULTS MG/KG	DATE OF ANALYSIS	DETECTION LIMITS MG/KG	METHOD OF ANALYSIS
				SWA-846 3RD EDITION
ARSENIC	4.02	3/22	0.17	7060
CADMIUM	1.09	3/19	0.086	7130
CHROMIUM	22.0	3/19	0.86	7190
MERCURY	0.06	3/23	0.02	7471
LEAD	19.2	3/19	0.86	7420
COPPER	10.4	3/19	0.86	7210
ZINC	37.5	3/19	0.86	7950
NICKEL	15.2	3/19	0.86	7520

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/27/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLK
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #24

SAMPLE #: MG-9031

DATE/TIME COLLECTED: 3/12/90

SIEVE SIZE REPORT

% RECOVERY OF SAMPLE = 99.49 %

U.S. STANDARD SIEVE SIZE	MASS FINER THAN	% FINER THAN
4	101.04g	99.49 %
10	98.57g	97.06 %
20	86.62g	85.29 %
40	77.20g	76.01 %
60	N/A	N/A
100	N/A	N/A
200	54.08g	53.25 %

TOTAL MASS = 101.56g

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW

VERIFIED BY:

FM/SIEVERPT
GP

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert Laferriere 3/22/90

T.F. MCCOMMAS, DIRECTOR DATE
OR
ROBERT LAFERRIERE, CHIEF CHEMIST

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

[illegible]

ANALYSIS PERFORMED	RESULTS	DATE OF ANALYSIS	DETECTION LIMITS	METHOD OF ANALYSIS
[illegible]	33.37%	3/14/90	0.01%	[illegible]
TOC	9,433 MG/KG	3/16/90	12 MG/KG	EPA 9060

ND = NONE DETECTED

THIS IS A CERTIFIED SAMPLE TAKEN BY LAB. PERSONNEL. IF NOTED BELOW.

VERIFIED BY:

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY

Robert LaFerriere 3/19/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/RIBLA
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAQUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT 13066
SAMPLE #: MG-9031 STATION 31
DATE/TIME COLLECTED: 3/12/90

PESTICIDES — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
ALDRIN	ND		20
ALPHA-BHC	ND		20
BETA-BHC	ND		20
GAMMA-BHC	ND		20
DELTA-BHC	ND		20
CHLORDANE	ND		20
4,4'-DDD	ND		20
4,4'-DDE	ND		20
4,4'-DDT	ND		20
DIELDRIN	ND		20
ENDOSULFAN I	ND		20
ENDOSULFAN II	ND		20
ENDOSULFAN SULFATE	ND		20
ENDRIN	ND		20
ENDRIN ALDEHYDE	ND		20
HEPTACHLOR	ND		20
HEPTACHLOR EPOXIDE	ND		20
TOXAPHENE	ND		20
METHOXYCHLOR	ND		20

PCBs — METHOD SWA-846 8080

PARAMETERS	RESULTS (UG/KG)		DETECTION LIMITS (UG/KG)
PCB-1016	ND		10
PCB-1221	ND		10
PCB-1232	ND		10
PCB-1242	ND		10
PCB-1248	ND		10
PCB-1254	ND		10
PCB-1260	ND		10

ND=NONE DETECTED **DATE OF ANALYSIS 3/23/90**

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert Laferriere 3/23/90

T.F. MCCOMMAS, DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/PPCB8080
GP

EASTERN SCIENTIFIC ASSOCIATES
DIV. OF LABORATORY RESOURCES, INC.
P.O. BOX 700
BROOKLYN, CT 06234

REPORT TO:
THE MAGUIRE GROUP
ATTN: BOB WARDWELL
1 COURT STREET
NEW BRITIAN, CT

SOURCE OF SAMPLE: THAMES RIVER
PROJECT #13066
STATION #24

SAMPLE #: MG-9031

DATE/TIME COLLECTED: 3/12/90

POLYNUCLEAR AROMATIC HYDROCARBONS

EPA METHOD 8270 GC/MS

PARAMETERS	RESULTS (UG/KG)	DETECTION LIMITS (UG/KG)
PYRENE	ND	20
BENZO(a)ANTHRACENE	**100**	**20**
CHRYSENE	ND	20
BENZO(a)PYRENE	**314**	**20**
PHENANTHRENE	ND	20
FLUORANTHENE	ND	20

DATE OF ANALYSIS 3/21/90

ND=NONE DETECTED

REPORT IS AN ACCURATE ANALYSIS OF SAMPLE RECEIVED IN THIS LABORATORY.

Robert LaFerriere 3/23/90

T.F.MCCOMMAS,DIRECTOR DATE
ROBERT LAFERRIERE, CHIEF CHEMIST

FM/8270RPT
GP

APPENDIX C

C.A.L. TECHNOLOGIES, INC.

LAB SHEETS

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-1	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-221	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	5.34	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

FORM: ORGTIN01

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-2	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-222	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	7.51	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-3	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-223	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	7.19	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-4	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-225	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	6.46	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

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(2) N.D. = Non-Detectable, less than concentration indicated

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-9	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-224	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	6.48	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

FORM: ORGTIN01

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-11	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-226	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	5.89	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

FORM: ORGTIN01

C.A.L. TECHNOLOGIES INC. ENVIRONMENTAL, ANALYTICAL LABORATORIES, INC.
19 ROSS STREET, SOMERVILLE, N.J. 08876,(201)725-6927, FAX (201)725-6927

ANALYSIS OF MONOBUTYL, DIBUTYL AND TRIBUTYL TIN COMPOUNDS USING HYDRIDE DERIVATIVE FORMATION, GAS CHROMATOGRAPHY/ ELECTRON CAPTURE DETECTION, FORM: ORGTIN01

CLIENT	MAGUIRE GROUP INC.	MATRIX	SEDIMENT
CLIENT I.D.	13066-12	DATE EXTRACTED	3/19/90
CAL SAMPLE #	90-227	DATE ANALYZED	4/10/90
DATE COLLECTED	3/7/90	ANALYST	J.H./ T.S.
DATE RECEIVED	3/13/90	REPORT DATE	4/10/90
DILUTION FACTOR	5.30	SAMPLE LOCATION	

COMPOUND	CONCENTRATION MG/KG (PPM)	PQL, MG/KG (1)
MONOBUTYL TIN	N.D. < 20.0	20.0
DIBUTYL TIN	N.D. < 4.00	4.00
TRIBUTYL TIN	N.D. < 4.00	4.00

Thomas Sabatino,
C.A.L. TECHNOLOGIES INC.

(1) PQL = Practical Quantitation limit, Miligrams/ Liter (MG/L)
(2) N.D. = Non-Detectable, less than concentration indicated

APPENDIX D

BENTHIC COMMUNITY COMPOSITION

Thames River Dredging Project / Benthic Community Composition

The following indicates bethic community composition in the Thames River estuary, Connecticut. Samples are reported as the number of individuals per 0.109 m^2 Van Veen grab sample. Samples were washed on a 1mm sieve and fixed in 10% formalin. Samples were later transferred to 70% ethanol and sorted under a dissecting microscope. A and B refer to the replicate samples at each station.

STATION 1:

	A	B
Polychaeta		
Nephtys incisa	11	10
Prionospio sp. A	3	2
Prionospio steenstrupi	1	
Mediomastus ambisecta	72	8
Notomastus sp.		1
Scolelepis squamata	6	
Streblospio benedicti	14	2
Tharyx sp.	30	9
Spio sp.	1	
Maldanopsis elongata	16	5
Lumbrinereis tenuis	1	1
Pherusa affinis	1	3
Paraonis gracilis	3	
Amphicteis sp.	1	2
Spiochaetopterus oculatus	1	1
Oligochaeta	45	2
Bivalvia		
Yoldia limuata	128	14
Nucula proxima	184	115
Mulinia lateralis	439	24
Macoma tenta	7	10
Pitar morrhuana	1	
Tellina sp.	1	
Mercenaria mercenaria	1	1
Gastropoda		
Retusa canaliculata	12	
Haminoea solitaria	5	
Mitrella lunata	5	1
Crepidula fornucata		1
Crustacea		
Ampilesca abdita	1	1

Edotea triloba		3
Enteropnuesta	1	

STATION 2

	A	B
Polychaeta		
Nephtys incisa	3	12
Mediomastus ambisecta	5	6
Tharyx sp.		1
Maldanopsis elongata	1	2
Pherusa affinis	1	
Paraonis gracilis		1
Oligochaeta		2
Bivalvia		
Yoldia limuata	17	36
Nucula proxima	37	86
Mulinia lateralis	25	117
Macoma tenta		3
Pitar morrhuana	2	
Gastropoda		
Retusa canaliculata	2	1
Haminoea solitaria	2	1
Crepidula fornicata		45
Crepidula plana		28
Bittium alternatum		1
Crustacea		
Ampilesca abdita	1	
Nemertinea		1

STATION 3

	A	B
Polychaeta		
Nephtys incisa	8	12
Mediomastus ambisecta	2	1
Tharyx sp.		1
Pherusa affinis		1
Lumbrinereis tenuis	5	3
Pectinaria gouldii	1	15
Phyllodoce mucosa		1
Leptidonatus squamata		2
Oligochaeta	1	4
Bivalvia		
Yoldia limuata	14	3
Nucula proxima	143	286
Mulinia lateralis	101	10
Macoma tenta	1	1
Pitar morrhuana	4	1
Mercenaria mercenaria		1
Petricola pholadiformis	1	
Pandora gouldiana		3
Gastropoda		
Crepidula plana	1	
Bittium alternatum		11
Mitrella lunata		3
Eupluera caudata		6
Crustacea		
Ampilesca abdita	4	1
Rhithropanopeus herbstii		2

STATION 4	A	B
Polychaeta		
Nephtys incisa	4	1
Mediomastus ambisecta		3
Tharyx sp.		1
Maldanopsis elongata	2	1
Streblospio benedicti		4
Bivalvia		
Mulinia lateralis	5	
Crustacea		
Pagurus longicarpus	2	
Hemichordata		1

STATION 5	A	B
Polychaeta		
Nephtys incisa	8	6
Mediomastus ambisecta	9	1
Maldanopsis elongata	2	
Bivalvia		
Nucula proxima	1	1
Mulinia lateralis	2	9
Gastropoda		
Retusa canaliculata	1	
Porifera		
Cliona sp.	numerous colonies	

STATION 6	A	B
Polychaeta		
Nephtys incisa	3	3
Mediomastus ambisecta	3	
Oligochaeta	1	4
Bivalvia		
Yoldia limuata	2	6
Nucula proxima	30	24
Mulinia lateralis	25	101
Macoma tenta		1

Pandora gouldiana	1
Mercenaria mercenaria	1

STATION 7:

	A	B
Polychaeta		
Nephtys incisa	3	2
Polydora websteri	5	3
Tharyx sp.	6	3
Maldanopsis elongata	9	1
Lumbrinereis tenuis	26	18
Clymenella torquata	3	2
Pherusa affinis	4	9
Amphicteis sp.	2	
Amphrete acutifrons	7	3
Spio sp.	1	
Phyllodoce mucosa	4	1
Phyllodoce sp. a	1	
Antinoella sarsi	1	
Lepidonatus squamata	3	8
Sabella microthalma	1	
Potamilla reniformis	24	20
Terebellid sp.	2	2
Paraonis gracilis		2
Capitella sp.		1
Oligochaeta	1	
Bivalvia		
Yoldia limuata	1	
Nucula proxima	1	
Arca ponderosa	2	10
Mercenaria mercenaria		1
Petricola pholadiformis		2
Gastropoda		
Crepidula fornicata		12
Crepidula plana	3	3
Urosalpinx cinirea		1
Crustacea		
Ampilesca abdita	1	4
Corophium sp.	1	5
Rhithropanopeus harrisii	2	5
Enteropnuesta		1

Nermetinea 1

STATION 8	A	B
Polychaeta		
Nephtys incisa	6	8
Mediomastus ambisecta	2	
Lumbrinereis tenuis	1	
Streblospio benedicti		1
Bivalvia		
Mulinia lateralis	4	3

STATION 9	A	B
Polychaeta		
Nephtys incisa	2	5
Mediomastus ambisecta	1	
Tharyx sp.		1
Oligochaeta	1	1
Bivalvia		
Mulinia lateralis	1	3

STATION 10	A	B
Polychaeta		
Nephtys incisa	6	4
Mediomastus ambisecta	1	
Bivalvia		
Mulinia lateralis	10	6

APPENDIX E

CHAIN OF CUSTODY FORMS

CHAIN OF CUSTODY RECORD

Proj. No.

Project Name: THAMES R.

SAMPLERS (Signature): [signature] J P Gardner

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
#1	1-MARCH 90	1021		✓	SOUTHERN MOST SITE	2	SAMPLE #1A
#1		10:30		✓	" " "		SAMPLE #1B
#10	MARCH 90	1326		✓	NORTHERN MOST SITE	2	SAMPLE #10A
#10		1339		✓	" " "		SAMPLE #10B
#9	MARCH 90	1359		✓	WEST OF PIER 13	2	SAMPLE #9 A
#9		1409		✓	" " "		SAMPLE #9B
#8	MARCH 90	1421		✓	WEST OF PIER 1	2	SAMPLE #8A
#8	MARCH 90	1432		✓			SAMPLE #8B
#7	MARCH 90	1450		✓		2	SAMPLE #7A
#7		1502		✓			SAMPLE #7B
#6	MARCH 90	1513		✓	EAST OF C.G ACADAMY	2	SAMPLE #6A
#6		1519		✓	" " " "	"	SAMPLE #6B
#5	MARCH 90	1527		✓	" " " "	2	SAMPLE #5A
#5		1533		✓	" " " "		SAMPLE #5B

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-1-90	Clinton Webb			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Clinton Webb	3-2-90	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	

CHAIN OF CUSTODY RECORD

Proj. No.

Project Name: THAMES. R.

SAMPLERS (Signature): [signature] J P Gardner

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS							REMARKS
#3	MARCH 90	1718		✓	NORTH OF I 95 BRIDGE	2							SAMPLE #3A
#3		1725		✓	" " " "								SAMPLE #3B
#4	MARCH 90	1741		✓	OUTSIDE CHAN ABOVE BRIDGE	2							SAMPLE #4A
#4		1748		✓	" " " "								SAMPLE #4B
#2	MARCH 90	1831		✓	SOUTH OF I 95 BRIDGE	2							SAMPLE #2A
#2		1836		✓	" " " "								SAMPLE #2B

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	3-2-90	Clinton Webb			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Clinton Webb	3-2-90	Roman Zajac			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	

CHAIN OF CUSTODY RECORD

Proj. No.: 13066

Project Name: THAMES RIVER E.I.S.

SAMPLERS (Signature): Clinton Webb, [illegible]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Table 1A 1-500ml 2-40ml	PCB (Arochlor) 250ml or 500ml	Tot. Pet. Hydro 950ml per 500ml	Meth. Chl. Bromo 2-40ml	Total Cyanide 250ml or 500ml	VOC 2-40ml	Grain Size Dist. 250 ml per 500ml	REMARKS
[illegible]														
1	3/9	10:15	✓			5	X		X				X	
19	3/9	10:30	✓			4	X						X	
20	3/9	10:30	✓			4	X						X	
18	3/9	11:00	✓			4	X						X	
17	3/9	11:00	✓			4	X						X	
16	3/9	12:00	✓			4	X						X	
15	3/9	12:15	✓			4	X						X	
7	3/9	12:30	✓			4	X						X	
24	3/9	1:00	✓			4	X						X	
21	3/9	1:15	✓			4	X						X	
23	3/9	1:30	✓			4	X						X	
22	3/9	2:00	✓			4	X						X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Clinton Webb	3/12/90	Karen Powell 1304			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks

*500ml sample size

CHAIN OF CUSTODY RECORD

Proj. No. 13066

Project Name: THAMES RIVER E.I.S.

SAMPLERS (Signature): Clinton Webb, Stuart Reed, Kenneth Prosser

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Table 1A 1-500ml 2-40ml	PCB (Aroclor) 250ml	Tot. Pet. Hydro 250ml	Meth. Chl. Bromo 2-40ml	Total Cyanide 250ml	VOC 2-40ml	Grain Size Dist. 250ml	REMARKS
2	3/7	15:04	✓			5	X		X			X		
8	3/7	16:09	✓			4	X					X		
3	3/7	16:23	✓			5	X		X			X		
10	3/8		✓			4	X					X*		
14	3/8		✓			4	X					X*		
6	3/8		✓			5	X	X*				X*		
9	3/8		✓			8	X		X	X	X	X*		
5	3/8		✓			5	X	X*				X*		
4	3/8		✓			5	X		X			X*		
11	3/8		✓			7	X		X		X	X		
13	3/8		✓			4	X					X*		
12	3/8		✓			4	X		X			X*		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Clinton Webb	3-9-90 11:40	Karen Power			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks

90-221

CHAIN OF CUSTODY RECORD

Proj. No.	Project Name
13066	Thames River ETS

SAMPLERS (Signature) Clinton Webb

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Tributyl Tin 500ml (differential)						REMARKS
1	3/7	10:15	✓		Sediment	1	X						Report & Invoice to Dr Donald G. Dobay
					Store in refrigerator								

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Clinton Webb	3/9/90	Donald G Dobay			
Donald G Dobay	3/12/90	TO FedX			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks
		Valerie Toffoli 3/13/90 9:55 AM		

N-22-90-127

CHAIN OF CUSTODY RECORD

Proj. No. 13066

Project Name: Thames River ETS

SAMPLERS (Signature): Steve Ferro

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	Tributyl Tin differential 500ml						REMARKS
2	3/7	15:04	✓		Sediment	1	X						500 ml. wm amber screw cap bottles
3	3/7		✓			1	X						Report & Invoice to
9	3/8		✓			1	X						Dr Donald G. Dobay PE
4	3/8		✓			1	X						1 Court St
11	3/8		✓			1	X						New Britain, CT 06051
12	3/8		✓										203-224-9141
					Store in refrigerator								

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Stephen Ferro	3/8 17:00	Donald G. Dobay			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Donald G. Dobay	3/12/90	To Fed X			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		Valerie Taffali 3/13/90 9:55AM			