N60201.AR.000092
NS MAYPORT
5090.3a

LETTER REGARDING NOTICE OF FREE PRODUCT FOUND DURING SAMPLING AT SOLID WASTE MANAGEMENT UNIT 8 NS MAYPORT FL
6/8/1992
NAVAL STATION MAYPORT

DEPARTMENT OF THE NAVY
NAVAL STATION
MAYPORT, FLORIDA 32228-0112

NAVSTA Mayport Administrative Record
Document Index Number
32228-000
19.01.00.0027

Ser N4E6/

03 JUN 1992

Jon D. Johnston
Waste Management Division
Office of RCRA and Federal Facilities
U. S. Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, GA 30365

Subj: SOLID WASTE MANAGEMENT UNIT 8, FREE PRODUCT IN TWO MONITORING WELLS, EPA ID FL9170024260, OPERATING PERMIT HO16-118598

Dear Mr. Johnston:

During initial sampling for Naval Station Mayport's (NAVSTA) RCRA Facility Investigation (RFI), the NAVY CLEAN Contractor, ABB Environmental, encountered approximately six inches of an oil/water emulsion in monitoring wells MPT-8-2 and MPT-8-3 at Solid Waste Management Unit (SWMU) 8. On April 1, 1992, we verbally reported our findings to Mr. Eric Nuzie, Florida Department of Environmental Regulation (FDER), who requested that we also contact the U. S. Environmental Protection Agency (USEPA), because the site was under the subject HSWA permit, and inquire as to the required course of action dictated by your agency.

We have enclosed the two analytical reports we received from ABB Environmental and a highlighted map of SWMU 8.

We will be performing further sampling and investigations at SWMU 8, as scheduled in Phase 2 of the RFI Work Plan submitted in October 1991, starting in July 1992. We will proceed as stated in our RFI Work Plan until further direction from your department and FDER.

For further information regarding this subject please contact Cheryl Mitchell of my staff at 904-270-6730.

Sincerely,

Chris A. Taylor

CHRIS A. TAYLOR
Commander, CEC, U. S. Navy
Public Works Officer
By direction of the
Commanding Officer

5090
Ser N4E6/

Encl:
(1) Hauser Chemical Research, Inc. Analysis of May 4, 1992
(2) Quality Analytical Laboratories, Gainesville Organics Laboratory, Chromatogram of sample submitted May 13, 1992
(3) Map, Figure 3-5 from RFI Investigation Workplan

Copy to:
FDER Tallahassee (Eric Nuzie, FFC)
SOUTHNAVFACENGCOM (Code 1855)
ABB Environmental (Greg Brown)

HAUSER

HAUSER CHEMICAL RESEARCH, INC.

CLIENT: CH2M Hill, Inc.
2567 Fairlane Drive
P.O. Box 230548
Montgomery, AL 36123

PROJECT: 92-0520
DATE: 5/4/92

HAUSER LABORATORIES, INC.
A SUBSIDIARY

Attention: Emily Williams

MATERIAL:

Two (2) samples received for analysis on 4/10/92 and labeled:

1. 21296001
2. 21296002

DESCRIPTION OF WORK:

Analysis for chlorine content, distillation, and contents of lead, cadmium and chromium. Analysis was performed per purchase order number LM577.LO.

RESULTS:

Analysis	21296001	21296002
Chlorine, wt. % ASTM D808	0.18	0.22
Distillation ASTM D86		
% over	°F	°F
IBP	212	212
5	213	212
10	213	212
20	213	212
30	214	212
40	214	212
50	214	212
60	214	212
70	214	212
80	214	213
90	214	213
FBP	249	255
Lead, ppm	<1	<1
Chromium, ppm	<0.1	<0.1
Cadmium, ppm	<0.1	<0.1

PLEASE ROUTE:
EW 5/5 LAB RECEPTIONIST
5/5 DIVISION MGR.
LM 5/5 DATA ENTRY
5/5 DATA PACKAGE

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public and these Laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from Hauser Laboratories, Inc.

5555 Airport Blvd. • Boulder, Colorado 80301 • Ph: (303) 443-4662 • FAX: (303) 441-5803

CLIENT: CH2M Hill 92-0520
PAGE: 2

	Chlorine	Distillation
Analysis Date	4/28/92	4/28/92
Extraction Date	N/A	N/A
Blank Results	0.02	N/A
Reporting Limits	0.01-5	80 -760
Reporting Units	wt. %	°F

	Lead	Cadmium
Analysis Date	5/4/92	5/4/91
Extraction Date	N/A	N/A
Blank Results	<0.03	<0.002
Detection Limit	1	0.1
Reporting Units	ppm	ppm

	Chromium
Analysis Date	5/4/92
Extraction Date	N/A
Blank Results	<0.03
Detection Limit	0.1
Reporting Units	ppm

REPORT REVIEWED BY:

Kirsten T. Larsen
Chemical Project Manager

ANALYSIS PERFORMED BY:

Paul Jaeger
Technician II

QUALITY
ANALYTICAL
LABORATORIES

Client: ABB ENVIRONMENTAL SERVICES, INC.
Attention: GREG BROWN
Address: 2590 EXECUTIVE CENTER CIRCLE EAST
BERKELEY BUILDING
TALLAHASSEE, FL 32301

Sample Number: 111811-812
Date received: 5/13/92

Dear Client:

The Gainesville Organics Laboratory received your samples with a request for analysis using the HFA (Hydrocarbon Fuel Analysis) procedure. The samples consisted of an aqueous phase overlain by a dark, oily organic phase, which was characterized by a strong odor. The organic phase of the two samples were composited and analyzed by injecting 0.5 ul into a gas chromatograph fitted with a flame ionization detector (FID).

A copy of the gas chromatogram resulting from the HFA of the composite sample is enclosed, together with reference chromatograms of several fossil fuel by-products (gasoline, "weathered" gasoline, mineral spirits, kerosene, JP-4 fuel, and diesel). There is no "best" match between the reference chromatograms and the chromatogram of the composite sample. The large, regularly spaced straight chain alkane peaks found in kerosene, JP-4, and diesel are absent in the composite sample. The pattern of the composite sample appears to match that of mineral spirits, but there are differences in retention time and in many of the peaks. The presence of a "hump" in the composite sample indicates that the material has undergone some weathering.

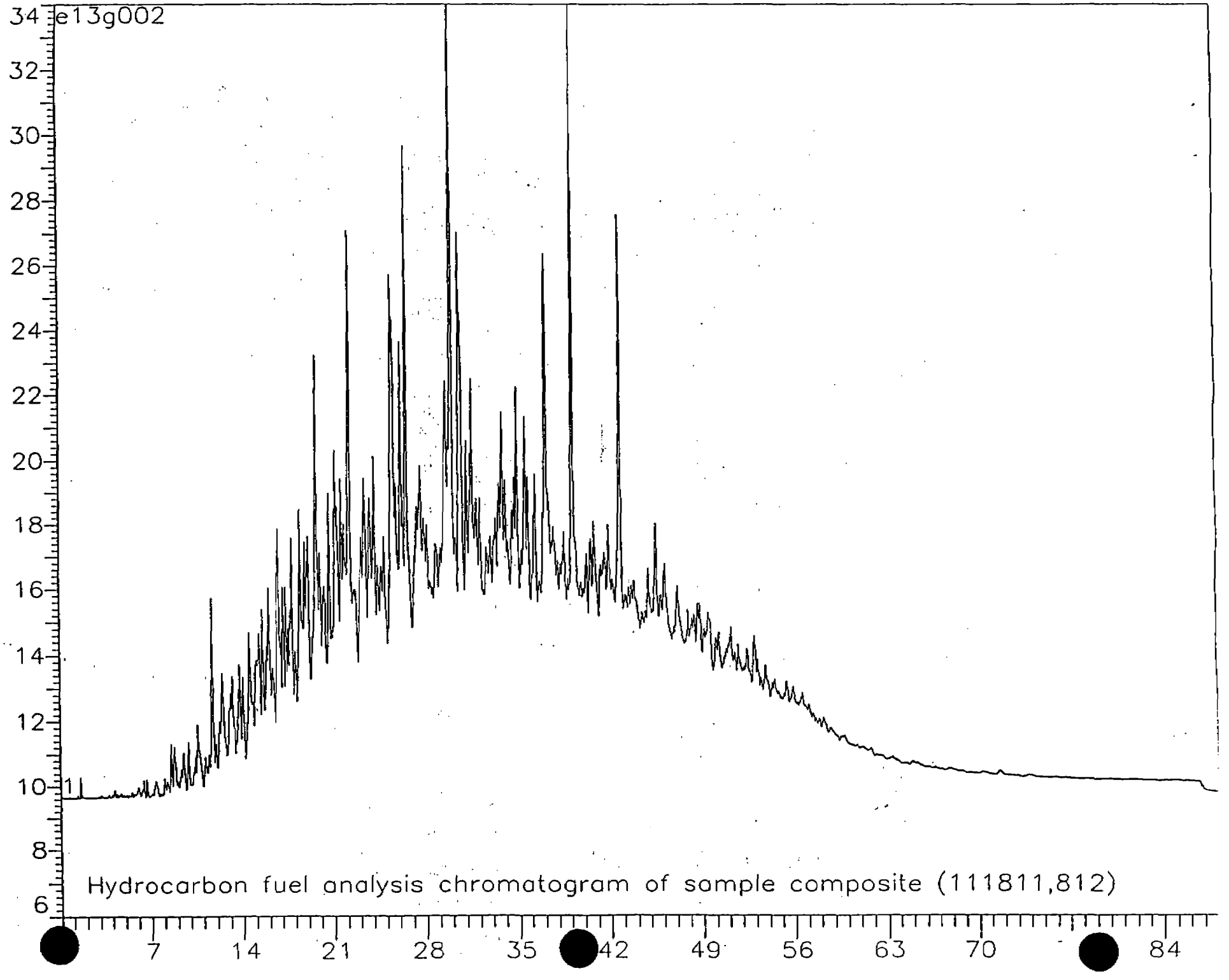
Dr. Andrés Romeu, the Gainesville laboratory Organics Division Manager, has been closely involved in the interpretation of the HFA analysis results. If you have any specific questions concerning the interpretation or the results submitted, please contact him directly.

Thank you.

Sincerely,

Don Hash
Client Services

ENCL (2)



Hydrocarbon fuel analysis chromatogram of sample composite (111811,812)

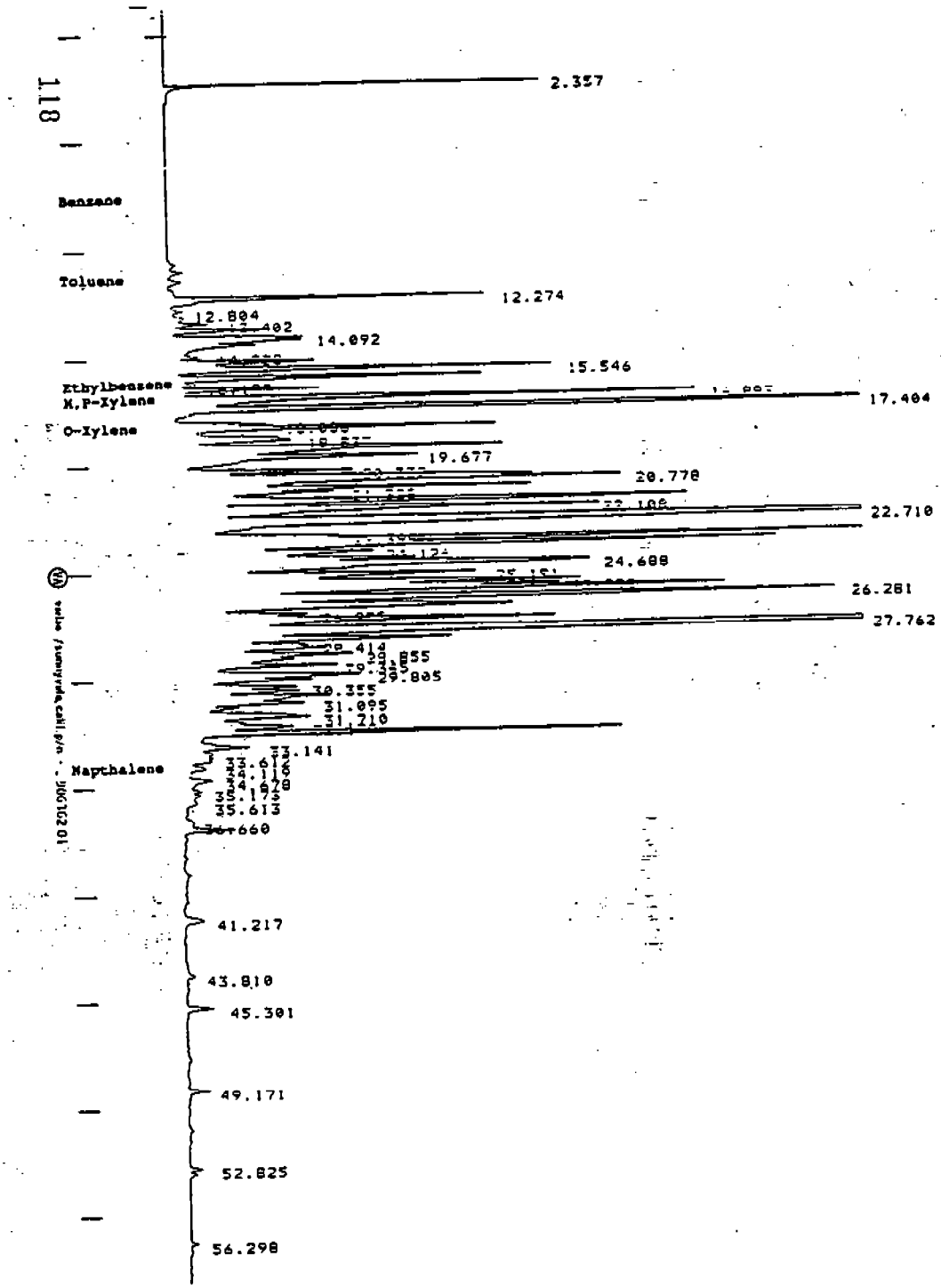


FIG. 3. Mineral Spirits

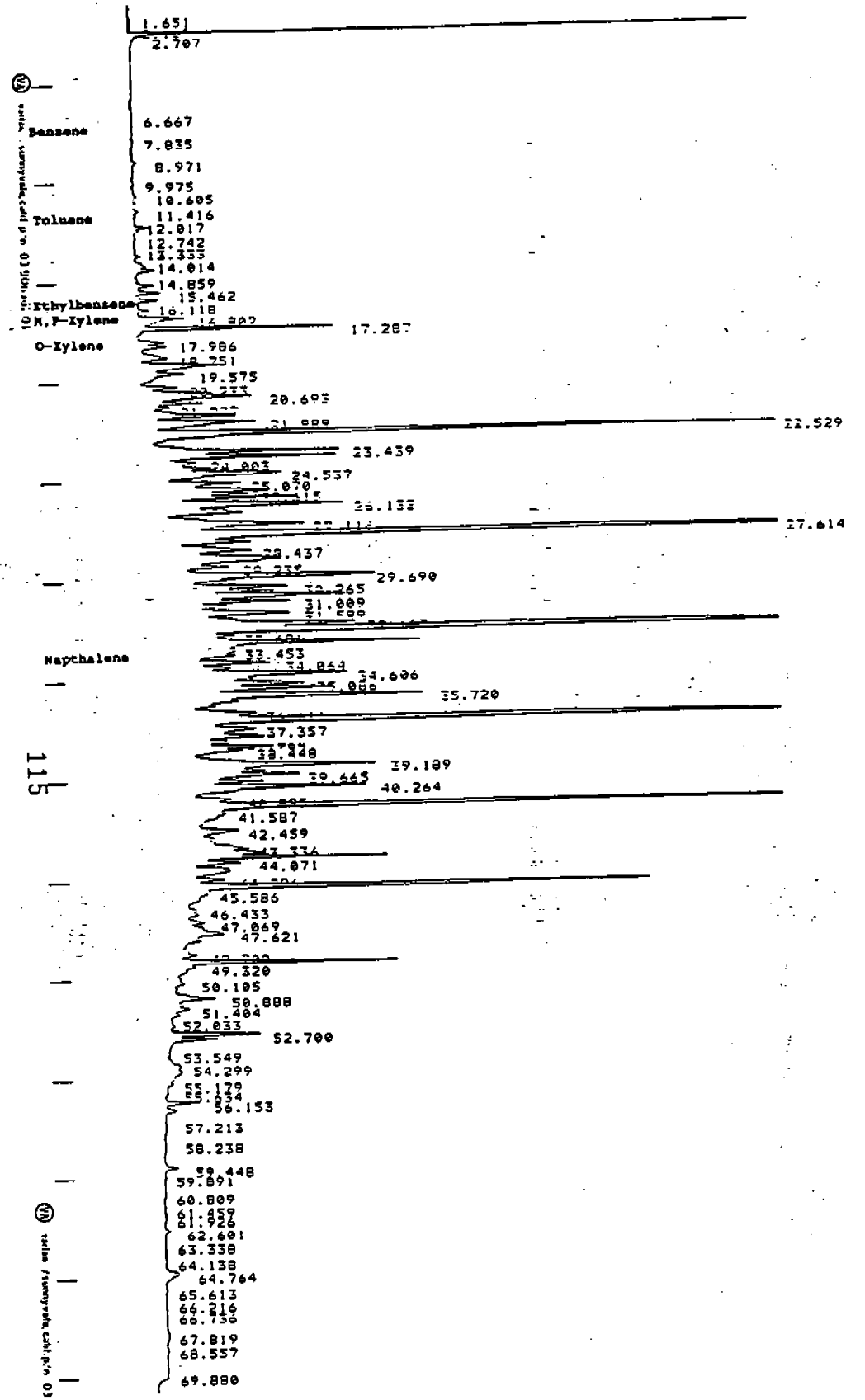


FIG. 4. Kerosene

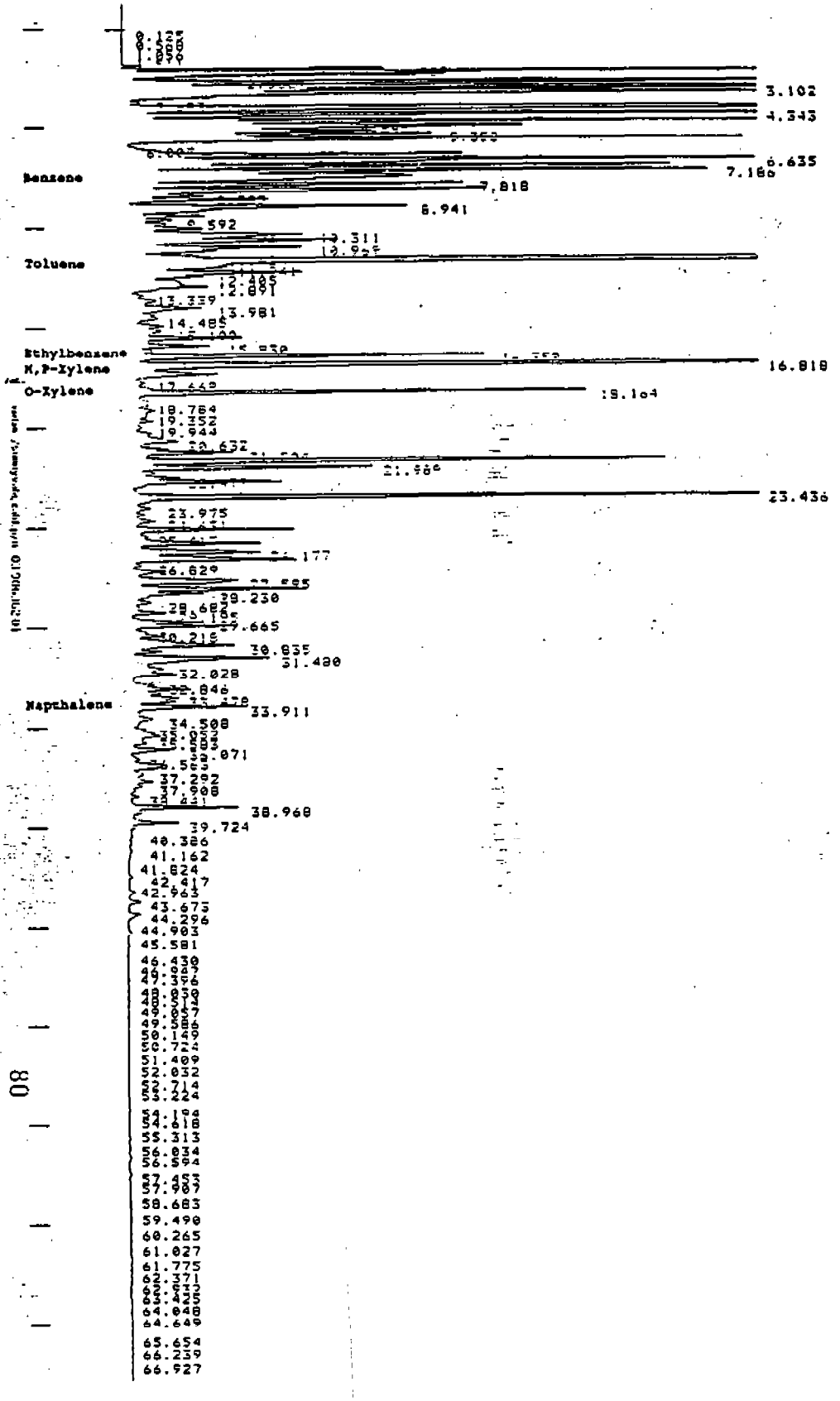


FIG. 1. Gasoline

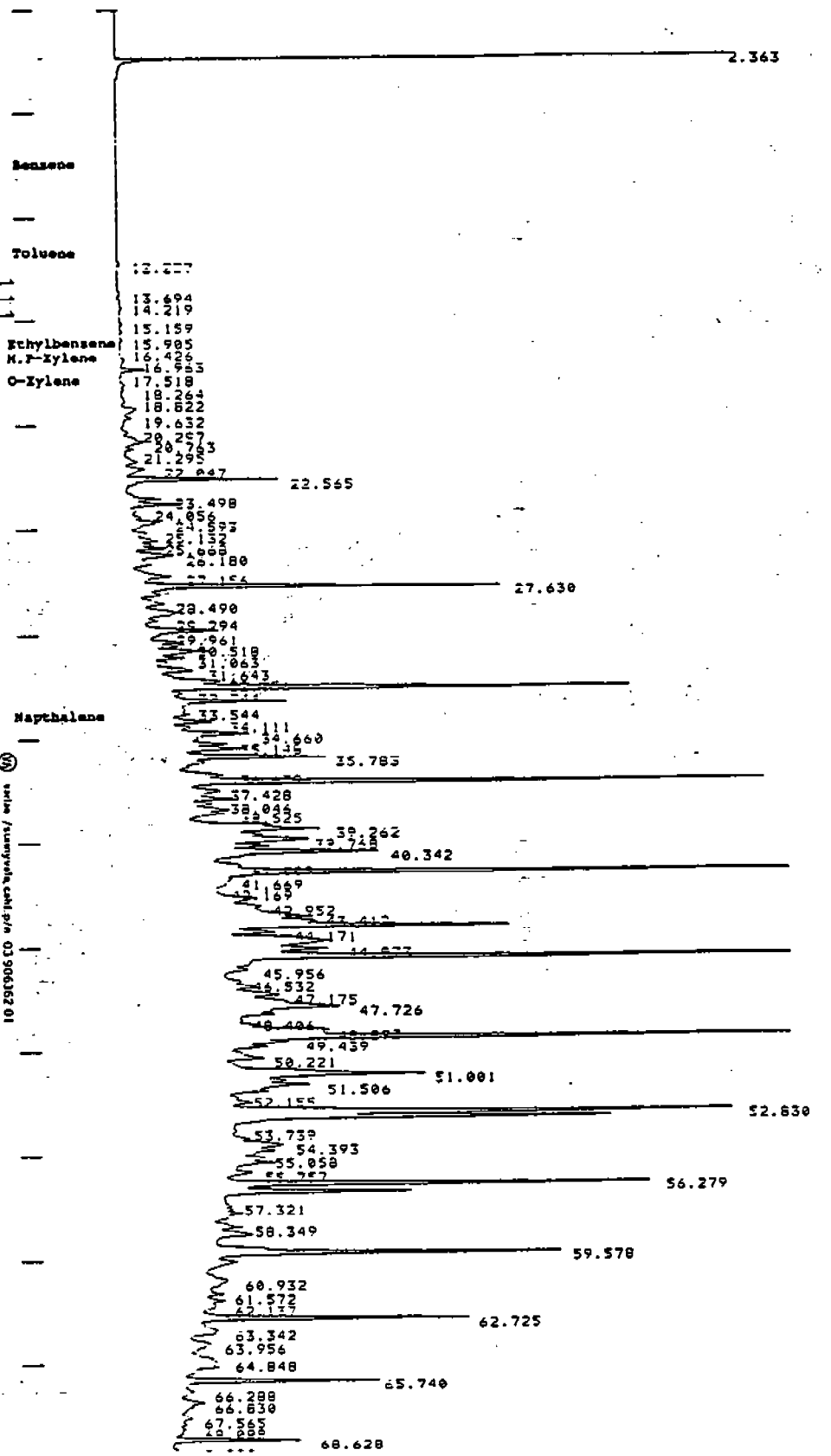

2.363
Benzene
Toluene
13.694
14.219
15.159
Ethylbenzene
15.905
M,P-Xylene
16.426
O-Xylene
17.518
18.264
18.822
19.632
21.295
22.565
23.498
24.056
26.180
27.630
28.490
29.294
31.063
31.643
Napthalene
33.544
34.660
35.783
37.428
38.046
39.262
40.342
41.669
44.171
45.956
46.532
47.175
47.726
49.439
50.221
51.001
51.506
52.830
53.739
54.393
55.058
56.279
57.321
58.349
59.578
60.932
61.572
62.725
63.342
63.956
64.848
65.740
66.288
66.830
67.565
68.628

FIG. 6. Diesel

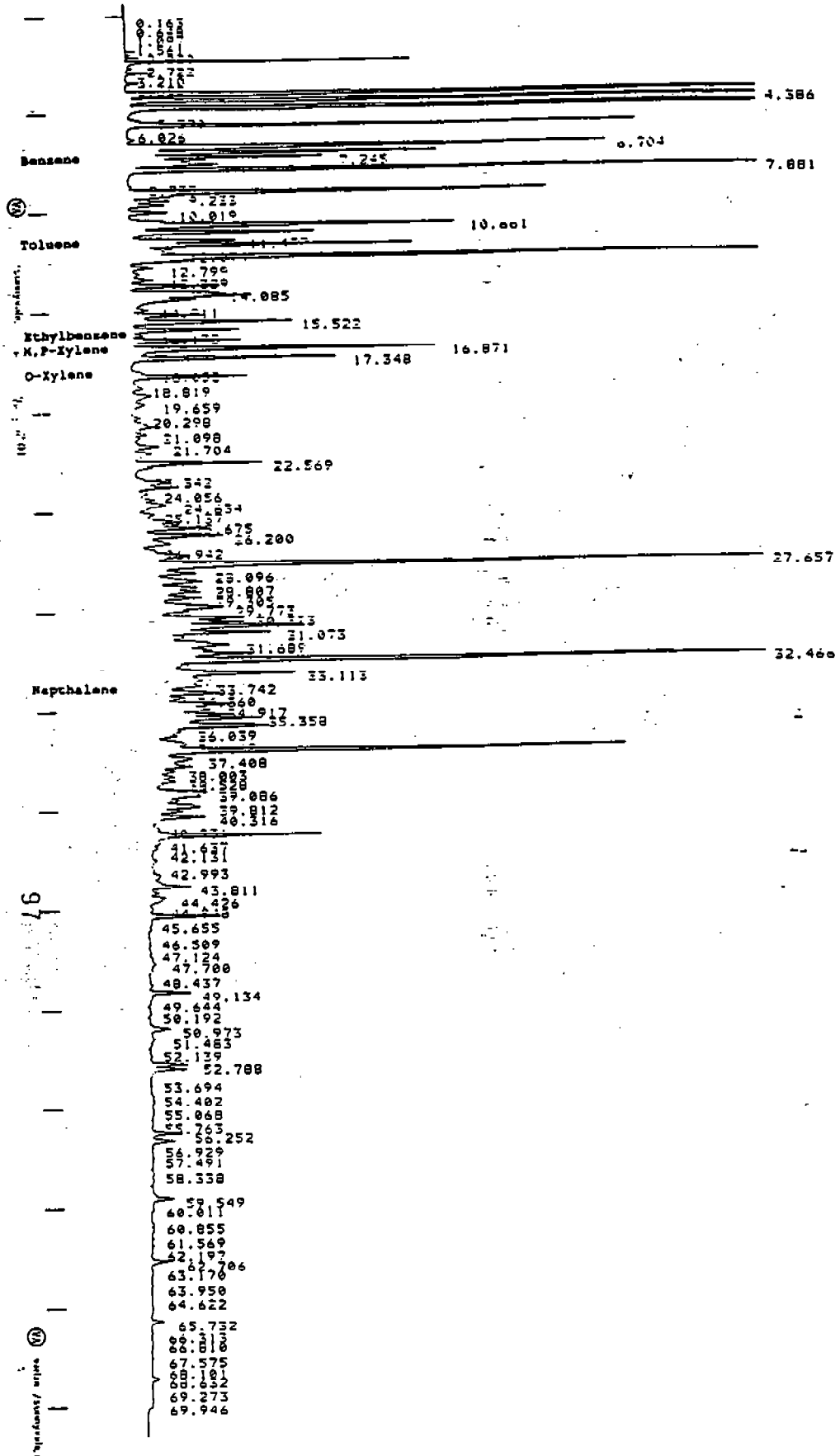

Benzene
Toluene
Ethylbenzene
M,P-Xylene
O-Xylene
Napthalene
4.386
7.881
10.001
15.522
16.871
17.348
22.569
27.657
32.466
33.113
33.742
35.358
36.039
37.408
39.086
40.316
42.131
42.993
43.811
44.426
45.655
46.509
47.124
47.700
48.437
49.134
49.644
50.192
50.973
51.483
52.139
52.788
53.694
54.402
55.068
56.252
56.929
57.491
58.338
59.549
60.011
60.855
61.569
62.197
63.170
63.950
64.622
65.732
66.313
66.810
67.575
68.101
68.632
69.273
69.946

FIG. 5. JP-4

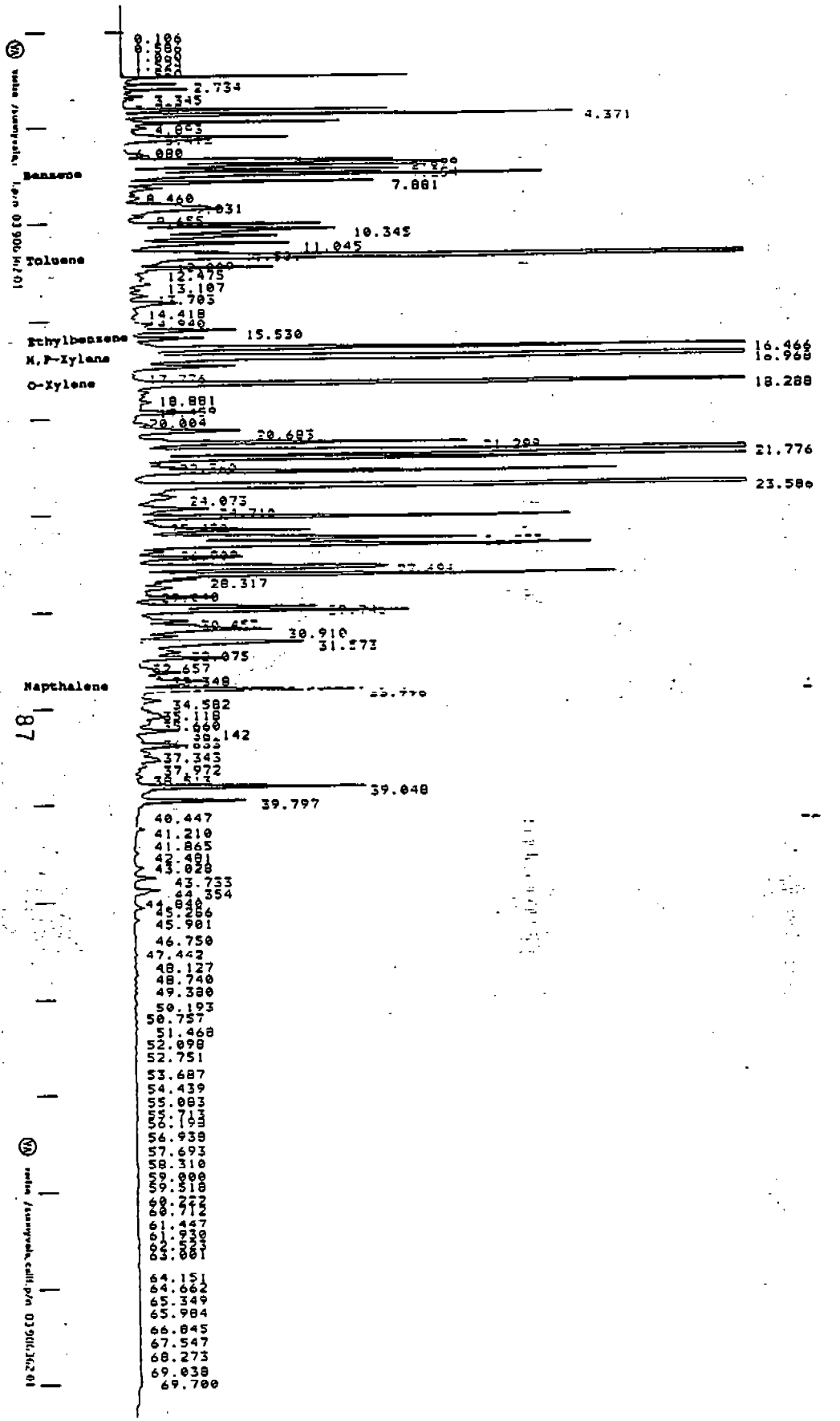


FIG. 2. "Weathered Gasoline"

DATE 4/9/92 | PURCHASE ORDER # LM5772Ø

CLIENT NAME: CH2M HILL / LMG

REPORT TO: EMILY WILLIAMS

BATCH # 21296

REQUESTED COMP. DATE: 4/23/92

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

Rec'd by [illegible] Date 5/13/92

SHIP TO: Nauco Chemicals
5680 Central Avenue
Boulder, CO 80306

~~92B13~~ 92G130

REPORT TO:
EMILY WILLIAMS
CH2M HILL
2567 FAIRLANE DRIVE
MONTGOMERY, AL 36116
(205) 271-1444
(205) 277-5763 FAX

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	Bomb combustion/IC hydrolysis ASTM D-808 (mo	Report to 0.01%	Extraction ASTM D-3237 Pb (GFAA)	Cr (GFAA) Cd (GFAA)	Boiling point distillation ASTM D86					
						21296001	1	✓	✓	✓	✓	✓		111	811		
						21296002	1	✓	✓	✓	✓	✓			812		
						5 Days			HFA								
						DUE 5/12/92											

PLEASE INCLUDE ON REPORT:

1. DATE OF ANALYSIS
2. DATE OF EXTRACTION
3. METHOD BLANK RESULTS
4. CITE ANALYSIS METHOD
5. ANALYTE REPORTING LIM
6. REPORTING UNITS
7. SIGNED CHAIN OF CUSTO

SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____

AIR BILL #

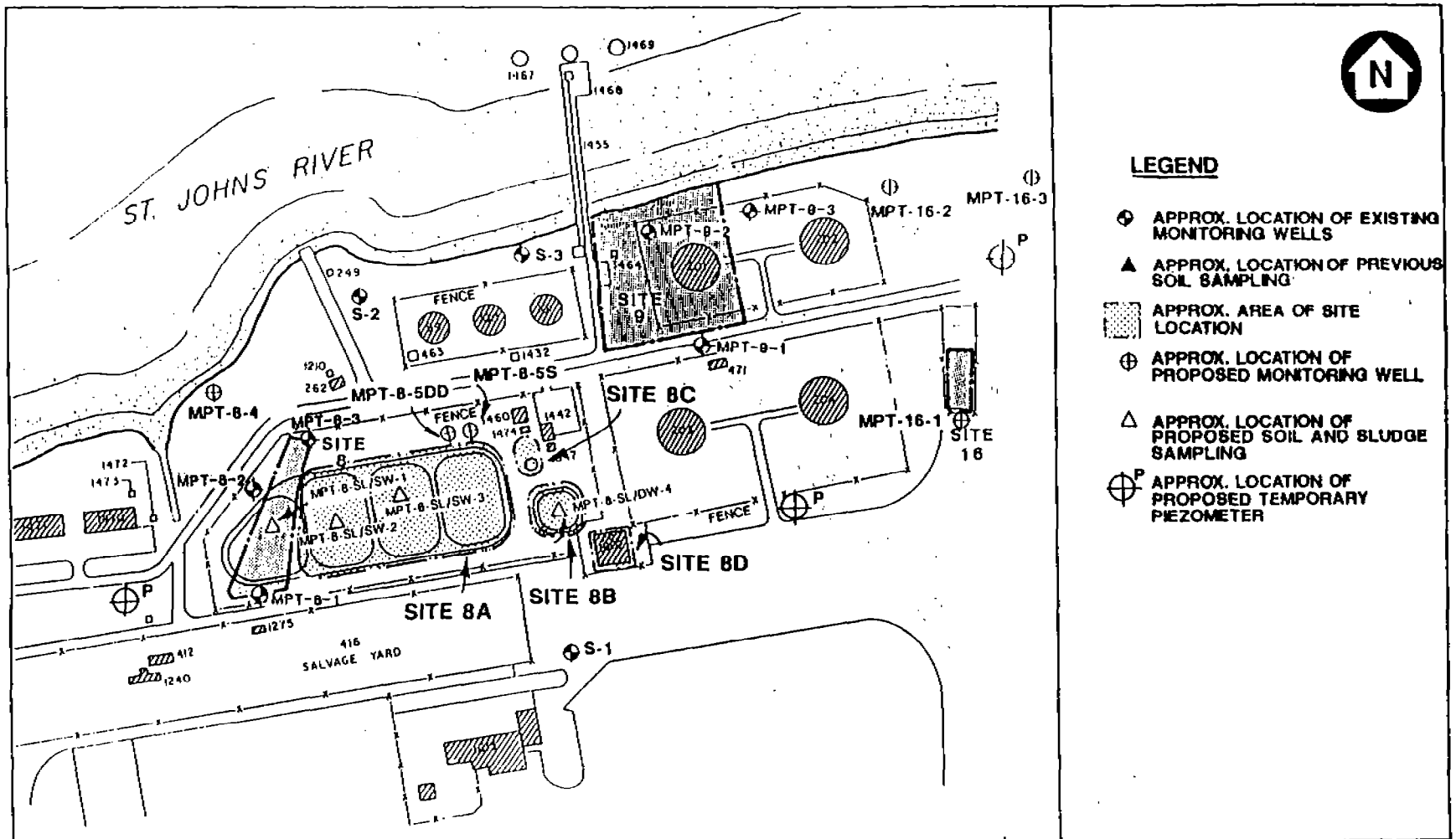
RELINQUISHED BY: [signature] | DATE/TIME 4/9/92 1600 | RECEIVED BY: [signature] | DATE/TIME 4/10/92 | [signature] 5/13/92 11:40

COMMENTS: Samples sent to Alachua, Fla. 12 May 92 2:00 [illegible]

PLEASE REPORT METHOD BLANK RESULTS AS # 21296ZW1

[signature]
AUTHORIZED SIGNATURE

Copy sent w/ Ack 4/17/92



APPROX. SCALE

0 225 450 FT

FIGURE 3-5

LOCATIONS OF EXPLORATIONS
(SITE 8, 8A, 8B, 8C, 8D, 9, AND 16)
SWMU 6, 7, 8, 9, 10, 11, AND 16

RCRA FACILITY
INVESTIGATION
WORKPLAN
U.S. NAVAL STATION
MAYPORT, FLORIDA

Encl (3)