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Section	SUPERFUND
Program	IHS (IHS)
DocCat	FACILITY

KOCH

KOCH REFINING COMPANY

RECEIVED

JUL 22 1991

Wilmington Regional Office
DEM

NC Division of Environmental Management
ATTN: Mr. Rick Shiver, P.G.
127 Cardinal Drive Ext.
Wilmington, N. C. 28403-3696

RE: Koch Refining Terminal
North, Wilmington, N. C.
RC & A Project #8646-I

Dear Mr. Shiver,

Attached is the quarterly monitoring report concerning the combined monitoring projects at the Koch Refining Company North Terminal in Wilmington, North Carolina. The recovery systems have been off for almost all of this past period due to the construction of the expanded treatment system. Upon completion of these systems remedial efforts can be continued.

If you have any questions, please contact me at your convenience,

Sincerely,

Jim Strickland

Jim Strickland
Terminal Manager

JHS/lkc

P.O. Box 3958 ▪ Wilmington, North Carolina 28406-0953 ▪ 919/799-0180

RICHARD CATLIN & ASSOCIATES, INC.

GROUND WATER MONITORING REPORT

DATE: 4/15/91 - 6/26/91

CLIENT: Koch Refining Company

LOCATION: Koch North Fuel Oil Terminal

CITY: Wilmington STATE: North Carolina

RC&A PROJECT #: 8646-I

MONITORING INTERVAL: Semi-Monthly

REPORT INTERVAL: Quarterly

DATE OF LAST REPORT: 1/9/91 - 4/15/91

MONITORING REQUIREMENTS:

Semi-Monthly: Check site's recovery operations, monitor free product accumulation and recovery.

Quarterly: Measure all monitoring and monitoring/recovery wells.

SITE VISITS THIS MONITORING PERIOD:

DATE	COMMENTS
4/30/91	Recovery operations for RW-3 & RW-4 OK; RW-5 off due to local construction. SD-1 is operated only when needed.
5/8/91	Recovery operations for RW-3, RW-4 & RW-5 off due to local construction. SD-1 is operated only when needed.
5/28/91	Recovery operations for RW-3, RW-4 & RW-5 off due to local construction. SD-1 is operated only when needed.
6/26/91	Recovery operations for RW-3, RW-4 & RW-5 off due to local construction. SD-1 is operated only when needed.

RICHARD CATLIN & ASSOCIATES, INC.

RECOVERY/TREATMENT SYSTEM STATUS

DATE: 4/14/91 - 6/26/91

A) MONITORING SYSTEM: Forty-six monitoring wells (2" monitoring wells; one piezometer 118X)
NOTE - Well 124 was permanently damaged during local excavation.

B) VOLUME OF FREE PRODUCT RECOVERED THIS PERIOD: 0 Gallons
GRAVITY SEPARATOR(S): 0 Gallons
RECOVERED PRODUCT STORAGE TANKS: 1,259 Gallons
CUMULATIVE TOTAL RECOVERED TO DATE: 8,663 Gallons
CUMULATIVE TOTAL REMOVED FROM SITE: 7,234 Gallons
PRODUCT RECOVERY SYSTEM: Three 2' diameter recovery wells (RW-3, RW-4 & RW-5); one storm drain sump (SD-1)

C) VOLUME OF TREATED GROUND WATER THIS PERIOD: No Data
CUMULATIVE TOTAL TREATED TO DATE: No Data
FLOW: No Data
TREATMENT SYSTEM: None initiated

SAMPLING: No sampling required.

D) VOLUME OF SOIL REMOVED THIS PERIOD: N/A
CUMULATIVE TOTAL REMOVED TO DATE: N/A
SOIL TREATMENT SYSTEM: None initiated

SAMPLING: No sampling required.

E) AMOUNT OF VADOSE CONTAMINATION REMOVED THIS PERIOD: N/A
CUMULATIVE TOTAL REMOVED TO DATE: N/A
VADOSE RECOVERY SYSTEM: None initiated

SAMPLING: No sampling required.

F) GROUND WATER QUALITY: No ground water samples were required in the past period.

G). FIELD DATA - DATA REDUCTION OF WATER TABLE MEASUREMENTS TAKEN ON 6/26/91 (in feet) (Refer to attached figures):

WELL #	TOP OF CASING	WATER TABLE DEPTH	PRODUCT THICKNESS	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION
NORTHERN END					
101	28.88	4.48	0.00	-	24.40
102	29.88	5.14	0.00	-	24.74
103	38.90	10.51	0.03	0.02	28.40
103A	38.50	DRY	0.00	-	-
104	28.21	4.23	0.00	-	23.98
105	29.61	5.18	0.00	-	24.43
106	28.75	4.56	0.00	-	24.19
107	29.32	5.96	0.00	-	23.36
108	30.89	6.90	trace	-	23.99
109	30.04	7.45	0.00	-	22.59
110	29.02	9.08	0.00	-	19.94
112	30.55	8.75	0.00	-	21.80
113	33.28	9.61	0.12	0.09	23.76
114	34.80	10.47	0.00	-	24.33
115	31.98	9.66	trace	-	22.32
116	28.90	8.49	0.22	0.17	20.58
117	31.33	10.02	0.00	-	21.31
119	27.40	5.45	0.00	-	21.95
120	27.64	6.23	0.00	-	21.41
121	29.30	5.55	0.00	-	23.75
122	36.52	9.25	0.00	-	27.27
123	35.29	DRY	-	-	-
RECOVERY LOCATIONS					
RW-3	29.07	9.35	0.01	0.01	19.73
RW-4	39.43	9.34	0.00	-	30.09
RW-5	44.72	13.50	trace	-	31.22
SD-1	-	-	0.00	-	-

(continued)

WELL #	TOP OF CASING	WATER TABLE DEPTH	PRODUCT THICKNESS	SPECIFIC GRAVITY ADJUSTMENT	WATER TABLE ELEVATION
TANK #1					
7	43.41	11.00	0.00	-	32.41
9	44.70	13.70	0.00	-	31.00
10	46.85	15.52	0.00	-	31.33
11	44.79	7.12	0.13	0.10	37.80
12	46.21	14.66	0.00	-	31.00
13	45.79	14.11	0.00	-	31.68
14	45.66	15.16	0.00	-	30.50
15	46.83	15.64	0.00	-	31.19
16	46.29	15.36	0.00	-	30.93
17	45.32	14.18	0.00	-	31.14
18	44.57	13.71	0.00	-	30.86
19	47.31	16.16	0.00	-	31.15
TANK #4					
1	37.28	10.38	0.00	-	26.90
2	40.86	13.71	0.00	-	27.15
3	39.61	9.62	0.00	-	29.99
4	40.48	9.97	0.00	-	30.51
5	40.12	9.90	0.00	-	30.22
6	41.53	11.59	0.00	-	29.94
8	40.75	9.86	0.00	-	30.89
20	41.16	11.73	0.00	-	29.43
21	42.25	12.10	0.00	-	30.15
22	41.23	11.30	0.00	-	29.93
23	40.41	10.37	0.00	-	30.04
24	40.90	10.16	0.00	-	30.74

Stephan A. Tyler, Manager, Monitoring Operations

Bruce Parris, Project Geologist

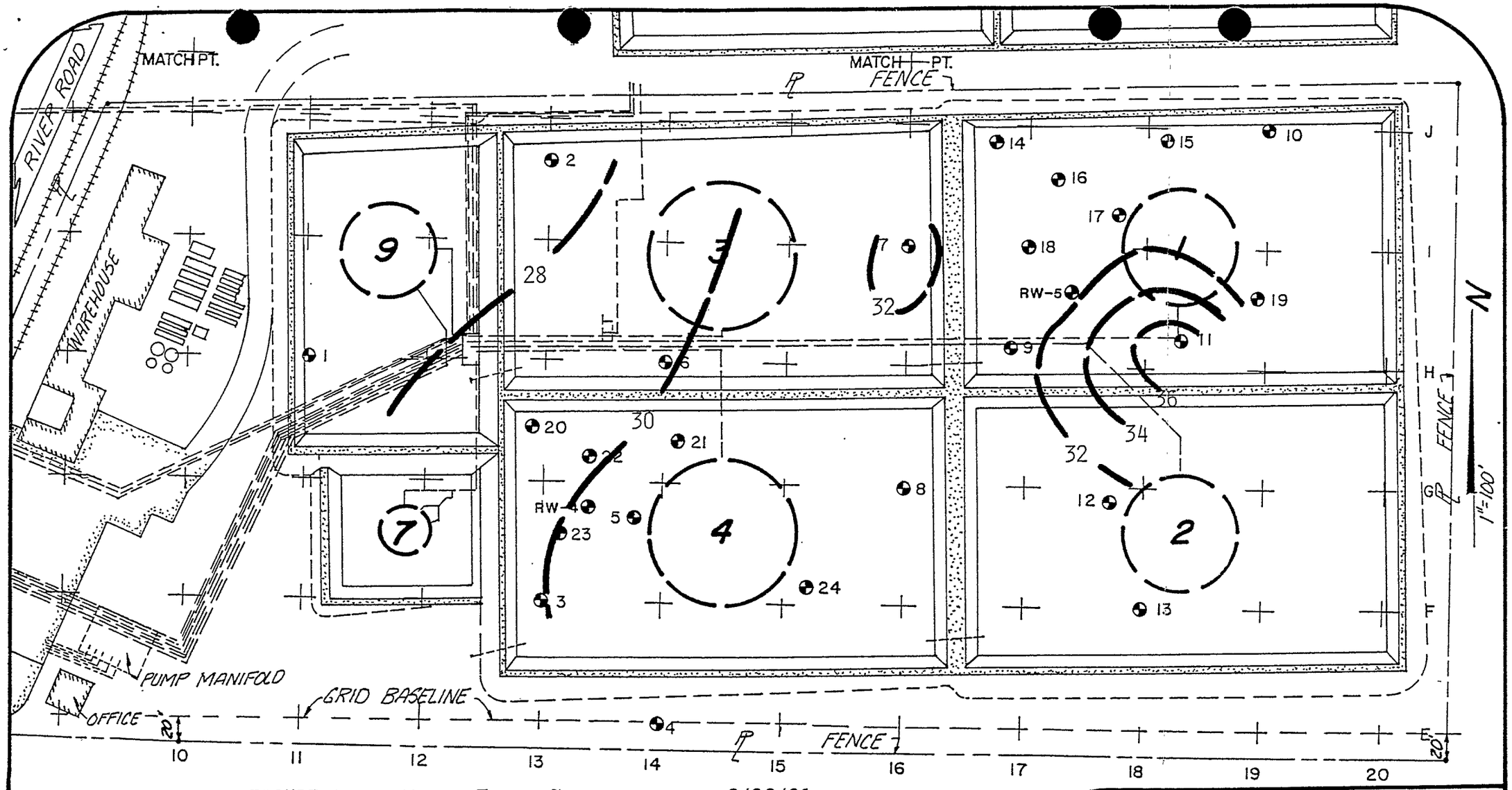

FIGURE 1 WATER TABLE CONTOURS AS OF 6/26/91
CONTOUR INTERVAL 2.00'

KOCH FUELS, INC.
WILMINGTON, N.C.

RICHARD CATLIN & ASSOCIATES, INC.

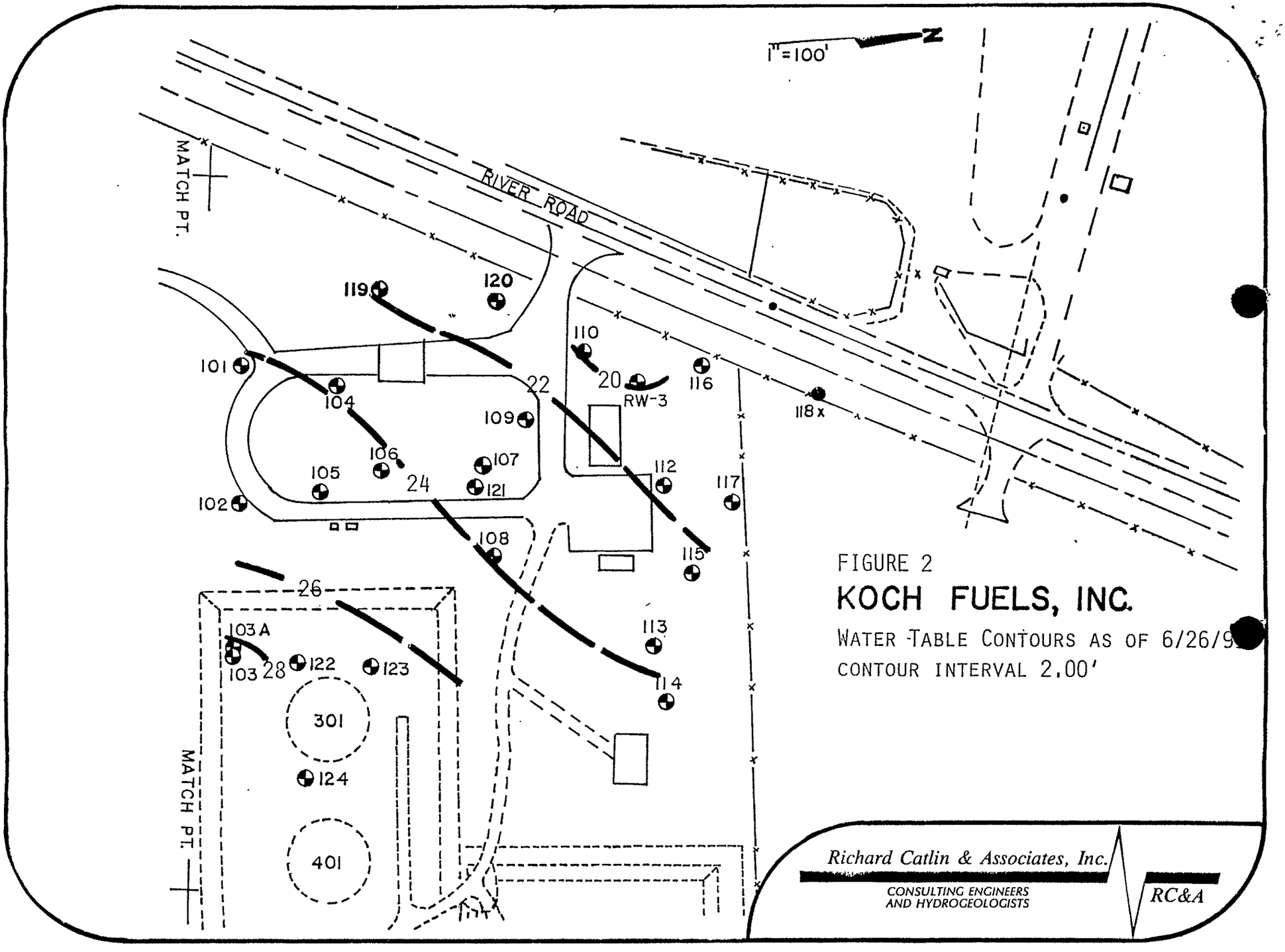

FIGURE 2

KOCH FUELS, INC.

WATER TABLE CONTOURS AS OF 6/26/9

CONTOUR INTERVAL 2.00'

Richard Catlin & Associates, Inc.

CONSULTING ENGINEERS AND HYDROGEOLOGISTS

RC&A

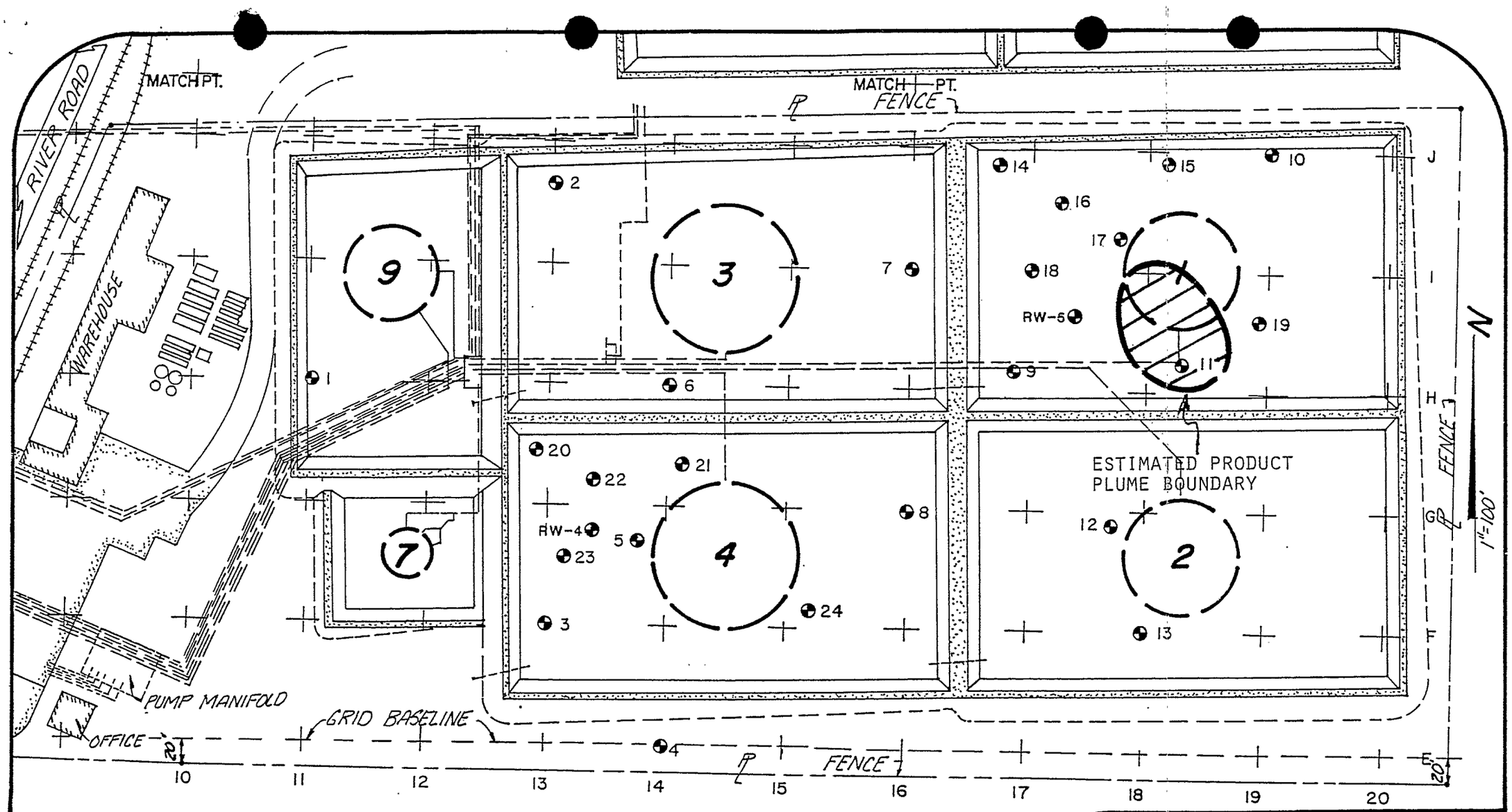

FIGURE 3 ESTIMATED PRODUCT PLUME BOUNDARY AS OF 6/26/91

KOCH FUELS, INC.
WILMINGTON, N.C.

RICHARD CATLIN & ASSOCIATES, INC.

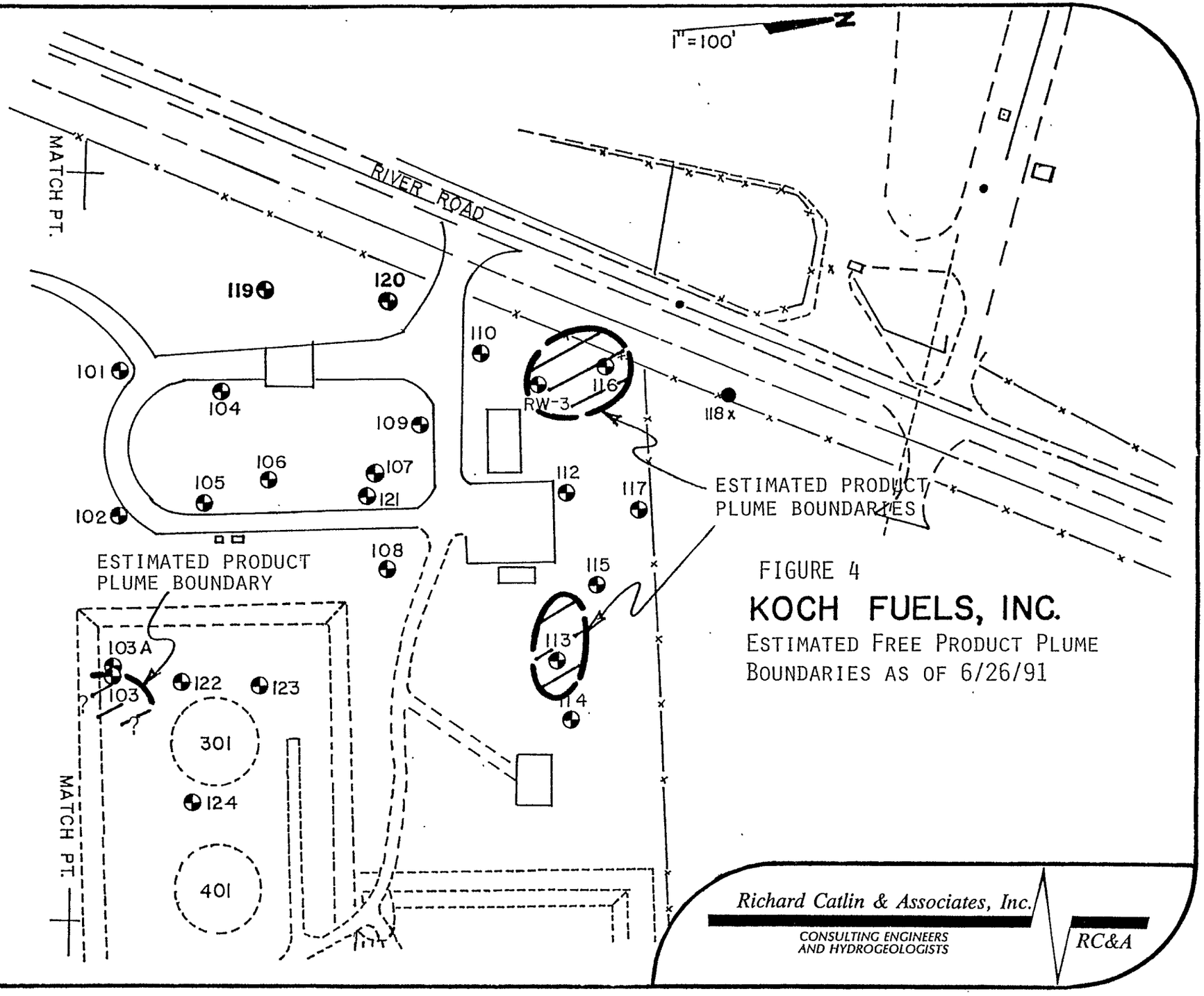

FIGURE 4

KOCH FUELS, INC.

ESTIMATED FREE PRODUCT PLUME BOUNDARIES AS OF 6/26/91

Richard Catlin & Associates, Inc.

CONSULTING ENGINEERS AND HYDROGEOLOGISTS

RC&A