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July 9, 1987

Koch Fuels, Inc.
ATTN: Mr. Jim Strickland
P. O. Box 3958
Wilmington, N.C. 28406

GROUNDWATER SECTION
WILMINGTON REGIONAL OFFICE

RE: Fuel Oil Monitoring,
Koch Fuels, Wilmington, NC
RC&A Project # 8729

Dear Mr. Strickland:

Attached is our monthly monitoring report concerning the fuel oil recovery project at the Koch Fuels, Inc., terminal in Wilmington, N.C. An additional copy is enclosed for you to forward to Mr. Rick Shiver, P.G., of the N. C. Division of Environmental Management, 7225 Wrightsville Avenue, Wilmington, N. C. 28403-3696.

If you have any questions or requests, please do not hesitate to contact our office. We will continue to monitor the site and report to you again next month.

Sincerely,

Stephan A. Tyler

Stephan A. Tyler
Project Geologist

Richard G. Catlin

Richard G. Catlin, P.E., P.G.
President

Enclosures

SAT/nd

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GROUND WATER MONITORING REPORT

DATE: 7/9/87

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WILMINGTON REGIONAL OFFICE

CLIENT: Koch Fuels, Inc.

PROJECT: Koch Fuel Oil Terminal, Fuel Oil Recovery Project,
Wilmington, NC

RC&A PROJECT #: 8729

MONITORING INTERVAL: Weekly site visits to pump free product
and for maintenance; water table and free product thick-
ness data collected monthly.

REPORT INTERVAL: Monthly

MONITORING DATES - THIS REPORT: 6/8/87, 6/16/87 & 6/22/87

MONITORING/CLEAN-UP SYSTEM DESCRIPTION:

- 1) Monitoring Wells: Twenty three (23) - 101, 102, 103, 103A, 104, 105, 106, 107, 108, 109, 110, 112, 113, 114, 115, 116, 117, 119, 120, 121, 122, 123 & 124)
- 2) Recovery Wells: One (1) 24" - RW-3 - utilizes a suction pump for water table depression and 1 (one) scavenger pump for free product removal.
- 3) Discharge System:
 - A) Water: The suction pump water effluent is pumped to a double gravity separator, as a safety factor, prior to discharge to an infiltration trench.
 - B) Free Product: Free product from the scavenger pump is pumped to a product holding tank.

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I. PROJECT SUMMARY - THIS PERIOD:

- A) **PLUME CONTAINMENT:** The free product boundaries remain undefined to the northeast and northwest of the existing monitoring well perimeter. accumulations of fuel oil were found in wells 103A and 124.
- B) **CLEAN-UP:** Dewatering activity of recovery well RW-3 continues to apparently capture the free product plume. Isolated accumulations of fuel oil like those observed in monitoring wells 103A and 124 will be carefully monitored in the months ahead to determine if additional action is necessary to remove product.
- C) **RECOMMENDED MODIFICATIONS:** No modifications are proposed at this time.

II. FIELD DATA:

- A) **DATA REDUCTION OF MEASUREMENTS TAKEN ON 6/22/87:**
(Refer to Figures 1 and 2.)

<u>WELL #</u>	<u>TOP OF CASING</u>	<u>WATER TABLE DEPTH</u>	<u>PRODUCT THICKNESS</u>	<u>SPECIFIC GRAVITY ADJUSTMENT</u>	<u>WATER TABLE ELEVATION</u>
101	28.88	3.98'	-	-	24.90
102	29.88	4.18'	-	-	25.70
103	38.50	9.20'	-	-	29.30
103A	38.90	8.48'	0.19'	0.15	30.57
104	28.21	3.47'	-	-	24.74
105	29.61	4.28'	-	-	25.33
106	-	3.74'	-	-	-
107	29.32	5.36'	0.12'	0.09	24.05
108	30.89	5.96'	-	-	24.93
109	30.04	7.61'	0.04'	0.03	22.46
110	29.02	9.93'	-	-	19.09
112	30.55	8.35'	0.03'	0.02	22.22
113	33.28	9.09'	0.86'	0.66	24.85
114	34.80	9.25'	0.14'	0.11	25.66
115	31.98	8.96'	0.04'	0.03	23.05
116	28.90	8.16'	trace	-	20.74
117	31.33	9.42'	-	-	21.91
119	27.40	4.94'	-	-	22.46
120	27.64	5.99'	-	-	21.65
121	29.30	4.66'	-	-	24.64
122	36.52	7.52'	-	-	29.00
123	35.29	7.29'	-	-	28.00
124	36.78	5.59'	trace	-	31.19
RW-3	29.07	13.72'	0.72'	0.55	15.90

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B) FREE PRODUCT RECOVERY DATA:

1) Free Product Recovered This Period:

<u>DATE</u>	<u>AMOUNT</u>	GROUNDWATER SECTION WILMINGTON REGIONAL OFFICE
6/8/87 through 6/22/87	29 gallons	

2) Free Product Recovered To Date: 130 Gallons

C) MONITORING/RECOVERY SYSTEM STATUS:

1) Monitoring Wells:

<u>DATE:</u>	<u>MEASURED</u>	<u>OBSERVATIONS & MODIFICATIONS:</u>
6/22/87	<u>X</u>	All wells measured

2) Recovery Well Pumps: (Suction & Scavenger Pumps)

<u>DATE:</u>	<u>OPERATION CHECKED</u>	<u>OBSERVATIONS & MODIFICATIONS:</u>
6/8/87	<u>X</u>	Operation OK
6/16/87	<u>X</u>	Operation OK
6/22/87	<u>X</u>	Operation OK

3) Discharge System:

a) Separator:

<u>DATE:</u>	<u>OPERATION CHECKED</u>	<u>OBSERVATIONS & MODIFICATIONS:</u>
6/8/87	<u>X</u>	Operation OK
6/16/87	<u>X</u>	Operation OK
6/22/87	<u>X</u>	Operation OK

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b) Product Holding Tank:

DATE:	CHECKED	OBSERVATIONS & MODIFICATIONS:
6/8/87	<u>X</u>	Operation OK
6/16/87	<u>X</u>	Operation OK
6/22/87	<u>X</u>	Operation OK

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c) Infiltration Trench:

DATE:	CHECKED	OBSERVATIONS & MODIFICATIONS:
6/8/87	<u>X</u>	Operation OK
6/16/87	<u>X</u>	Operation OK
6/22/87	<u>X</u>	Operation OK

III. DISCUSSION: (Refer to Figures 1 and 2.)

A) PLUME MANAGEMENT:

1) Current direction of ground water flow:

Surficial ground water continues to flow to the northwest toward the Cape Fear River.

2) Summarize observed changes in potentiometric surface:

No significant changes since the last report.

3) Summarize hydrologic, project-related, or other factors associated with changes noted above:

N/A

4) Is free product plume inside areal extent of monitoring/recovery system?

YES X NO

If no, outline comments and recommendations below:

Dewatering efforts appear to have contained the known free product plume at this site. Isolated accumulations of free product appear relatively insignificant, but will be monitored closely.

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B. FREE PRODUCT RECOVERY:

- 1) Summarize observed changes in areal extent of free product plume and/or direction of plume migration:

No significant change in the plume size or movement in the past month.

- 2) Comments on free product recovery:

Dewatering and free product recovery continuing successfully. Free product was pumped weekly in June to the product holding tank.

- 3) Recommended recovery system modifications:

- a) Systemic additions or modifications:

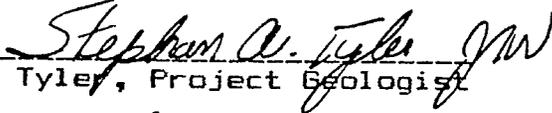
None required at the present time.

- b) Special Maintenance:

None required as of last visit.



J. Reed Whitesell, Project Mgr., Quality Assurance Officer



Stephan A. Tyler, Project Geologist

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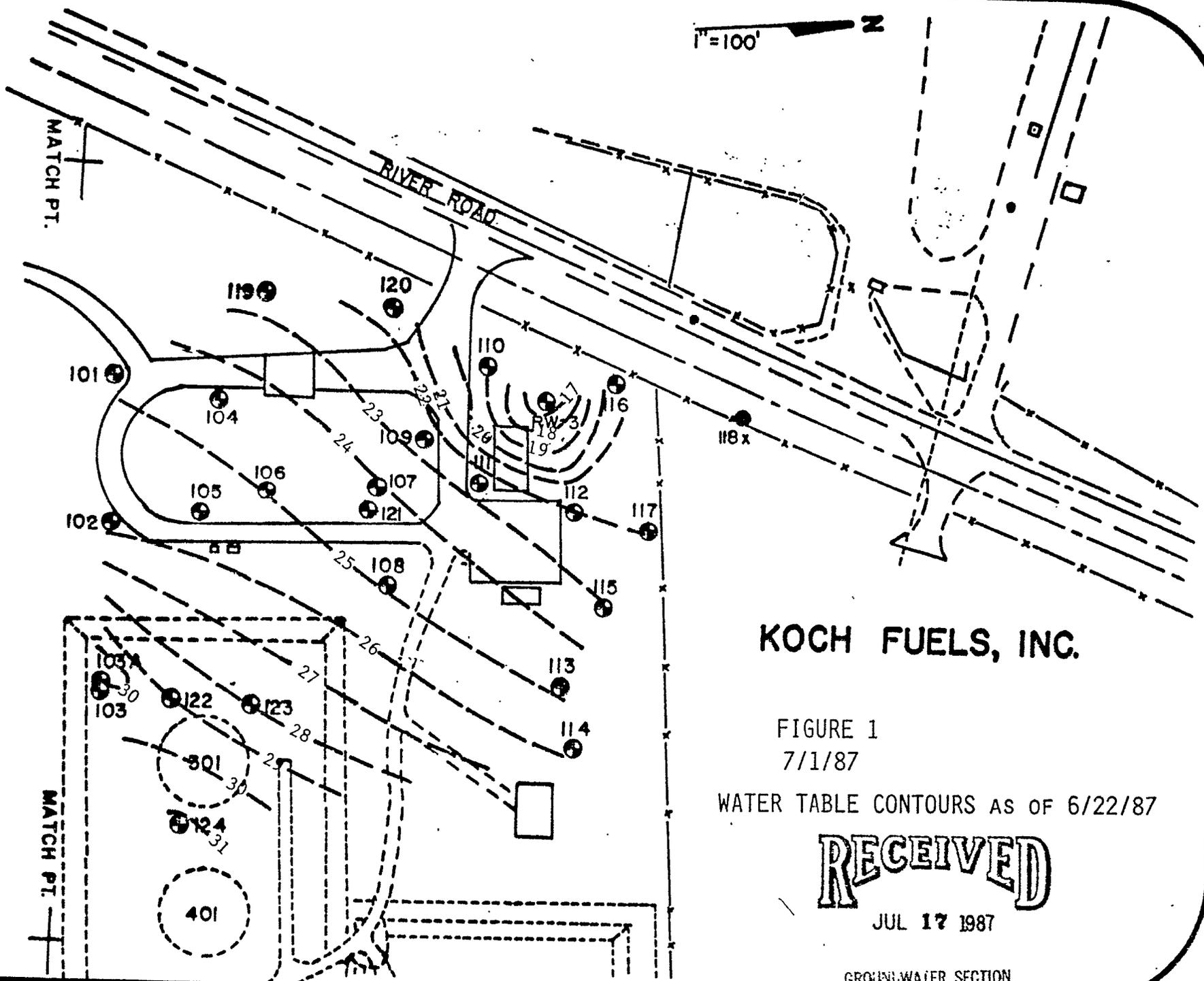
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1"=100'



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FIGURE 1
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WATER TABLE CONTOURS AS OF 6/22/87

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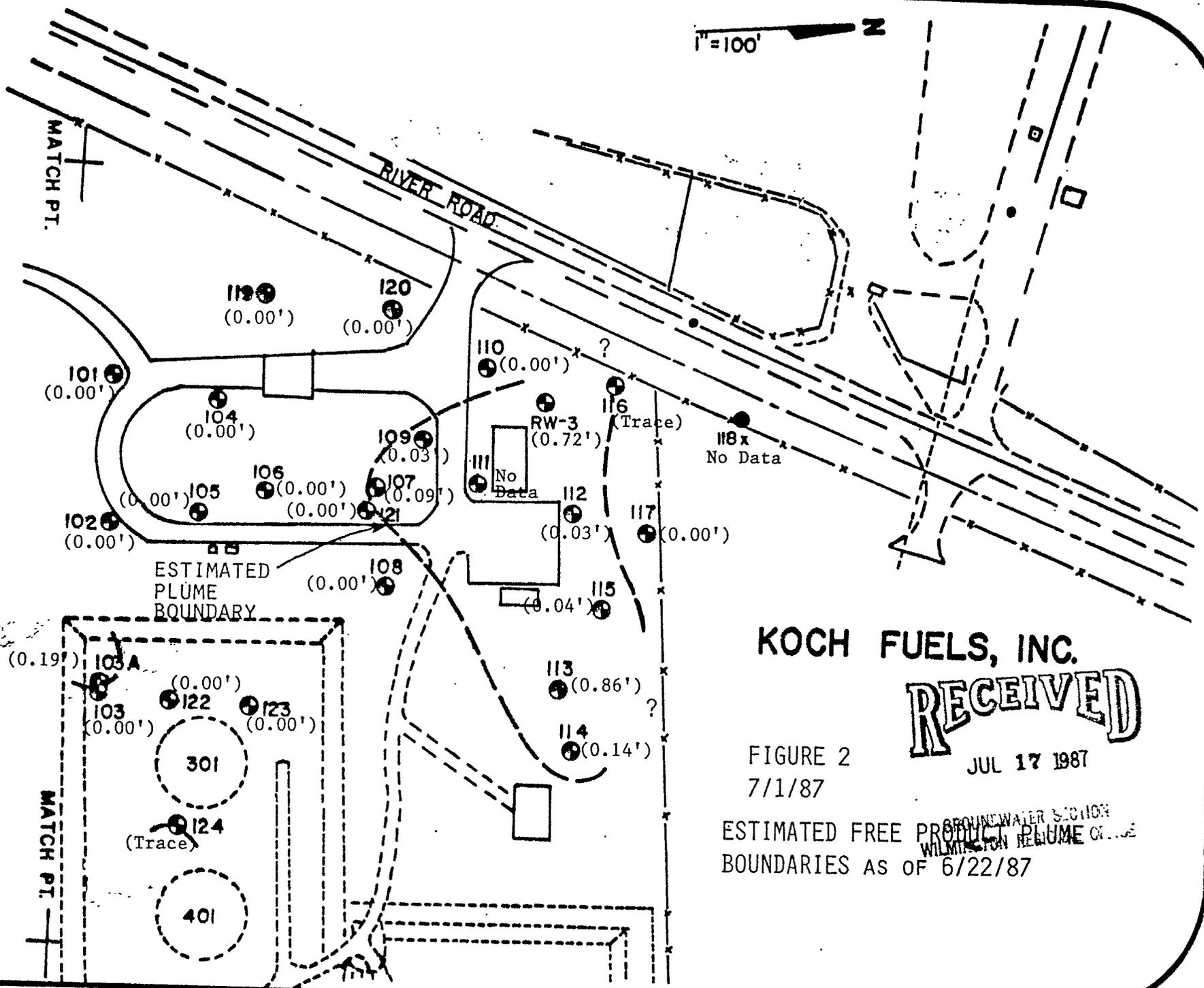
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FIGURE 2
7/1/87
ESTIMATED FREE PRODUCT PLUME BOUNDARIES AS OF 6/22/87
BROWN WATER SECTION
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