



# CITY OF GREENSBORO

NORTH CAROLINA

July 27, 1993

P.O. BOX 3136  
GREENSBORO, NC 27402-3136

JUL 29 1993

Ms. Sharon Cihak  
Toxic & Health Hazard Specialist  
Guilford County  
1002 Meadowood Drive  
Greensboro, NC 27409

Re: Ground Water Contamination  
Intersection Improvement  
West Market, Muirs Chapel, Spring Garden

Tax Map 375-1-36  
Tax Map 377-1-1  
Tax Map 384-1-1

QUALITY OIL COMPANY  
BP OIL COMPANY  
EXXON STATION

Dear Ms. Cihak:

The City of Greensboro is presently in the process of purchasing right-of-way for an intersection improvement at the above referenced locations. Enclosed, please find copies of a limited environmental study (ground water and soil) on the above referenced properties, which was commissioned by the City of Greensboro. The City of Greensboro requires, either an environmental statement included in our deed of conveyance, or an environmental study, either deed or study would have to warrant that the property being purchased is not contaminated. You will note that the study did not find soil contamination at these properties; however, there is ground water contamination at all three sites. It will be necessary that while constructing the intersection improvement that we disturb the soil. Our question is does your agency anticipate our construction being halted to remediate the ground water contamination or what action will result from our ground disturbing construction?

I have enclosed, for your convenience, a copy of the engineering and right-of-way drawing which shows the construction and the area being disturbed.

This intersection improvement is a very high priority project; we are, therefore, requesting that you advise us of your decision as soon as possible.

Sincerely,

Louise P. Schneider  
Real Estate Agent

Enclosure



P.O. Box 18631, Greensboro, NC 27419  
(919) 855-7295 • FAX: (919) 855-7598

June 30, 1993

Louise Schneider  
City of Greensboro  
PO Box 3136  
Greensboro, NC 27402-3136

Re: Limited environmental study at corners of West Market Street, Muirs Chapel Road and Spring Garden Street: BP Oil, Quality Oil, and Exxon

Dear Ms. Schneider;

At your request we made three soil borings, one at each of the above sites. One soil sample and one ground water sample was taken from each boring. The sample results are attached.

At each site, the boring location was picked after consulting with a representative from each station. This was done to insure that no underground utilities or product pipes would be hit. As we stated in our proposal to you, the locations were also in the natural areas at the BP and the Exxon Station. This was not possible at the Quality Oil station so we made this boring through the asphalt surface. A sketch of each station is attached to show the boring locations (the sketches are not to scale).

At each site, the boring was advanced to 15 feet. The augers were then pulled out of the boring and a split spoon soil sample was obtained. The soils were gathered in tubes provided by the laboratory. The tubes were labeled, wrapped in tin foil and placed in an ice cooler until delivered to the lab. The split spoon and the augers were cleaned between each boring location.

After the soil sample was obtained from each site, we continued each boring to a depth of 25 feet at the BP station and to a depth of 30 feet at the Quality Oil station and the Exxon station. Again, the augers were pulled out of the boring and a water sample was obtained using a disposable bailer to obtain the sample. The water was placed in containers provided by the laboratory, labeled and placed in an ice cooler until delivered to the lab.

After each boring was finished, the borings were sealed with bentonite. The borings were then filled with the soils removed from the borings. At the Quality Oil station where we bore through the asphalt, motar mix was used to patch the asphalt.

page 2, Ms. Schneider

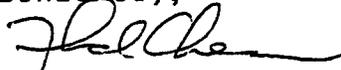
Ground water was measured in the BP Oil boring at 22 feet 3 inches. Ground water was measured in the Quality Oil boring at 27 feet 1 inch. Ground water was measured in the Exxon boring at 23 feet 8 inches. Each depth is from the ground surface to the water in each boring.

All three soil samples were tested for gasoline. Less than 10 ppm were detected at each station. 10 ppm is the current state action level for gasoline, therefore these results indicate that no gas contamination is present in these samples. However, the ground water samples do show results that indicate the presence of gas in the ground water at each station. Each sample does show benzene, ethyl benzene, toluene, and xylenes.

I have sent a copy of the sample results of the BP Oil station, the site map showing the boring location, and a short letter to Mr. Shelby Fillingim. A copy of that letter is attached here.

If you have any questions, please let me know.

Sincerely,



Thad Chesson





**GUILFORD LABORATORIES, INC.**

P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

06-24-1993

**REPORT OF ANALYSIS**

Customer : **PIEDMONT ENVIROMENTAL**  
**PO BOX 18631**  
**GREENSBORO N.C. 27419**  
ATTN: **SHERWOOD CHESSON**

Job # : **PES30616**

P.O. # : **CITY OF GSO**

Sample : **#2628 EXXON SOIL**

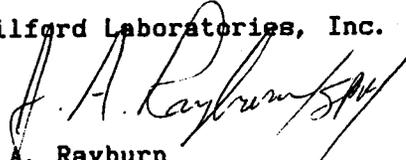
**RESULTS**

2628  
-----

TPH as Gasoline by EPA 5030(ppm)

<10

Guilford Laboratories, Inc.

  
J. A. Rayburn



# GUILFORD LABORATORIES, INC.

P.O. Box 9735/Plaza Station/Greensboro, N.C. 27408

## GC/MS Purgeables EPA Method 624 Report of Analysis

Report Date: June 28, 1993

Job #: PES30616

Customer: Piedmont Environmental  
P.O. Box 18631  
Greensboro, NC 27419

Attn: Sherwood Chesson  
P.O.#: City of Greensboro

Sample : #2629 Exxon ground water

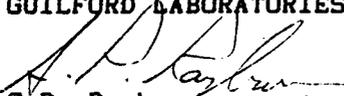
Collected: 06/16/93

Analyzed: 06/22/93

<u>Compound</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>
√Benzene	3.0	ug/L	< 4.4
Bromodichloromethane	< 2.2	ug/L	< 2.2
Bromoform	< 4.7	ug/L	< 4.7
Bromomethane	ND	ug/L	-----
Carbon Tetrachloride	< 2.8	ug/L	< 2.8
Chlorobenzene	< 6.0	ug/L	< 6.0
Chloroethane	ND	ug/L	-----
2-chloroethylvinyl ether	ND	ug/L	-----
Chloroform	< 1.6	ug/L	< 1.6
Chloromethane	ND	ug/L	-----
Dibromochloromethane	< 3.1	ug/L	< 3.1
1,2-dichlorobenzene	ND	ug/L	-----
1,3-dichlorobenzene	ND	ug/L	-----
1,4-dichlorobenzene	ND	ug/L	-----
1,1-dichloroethane	< 4.7	ug/L	< 4.7
1,2-dichloroethane	< 2.8	ug/L	< 2.8
1,1-dichloroethene	< 2.8	ug/L	< 2.8
trans-1,2-dichloroethene	< 1.6	ug/L	< 1.6
1,2-dichloropropane	< 6.0	ug/L	< 6.0
cis-1,3-dichloropropene	< 5.0	ug/L	< 5.0
trans-1,3-dichloropropene	ND	ug/L	-----
Ethyl Benzene	11.7	ug/L	< 7.2
Methylene chloride	< 2.8	ug/L	< 2.8
Methyl tert-Butyl Ether	ND	ug/L	-----
1,1,2,2-tetrachloroethane	< 6.9	ug/L	< 6.9
Tetrachloroethene	< 4.1	ug/L	< 4.1
Toluene	9.7	ug/L	< 6.0
1,1,1-trichloroethane	< 3.8	ug/L	< 3.8
1,1,2-trichloroethane	< 5.0	ug/L	< 5.0
1,1,2-trichloroethene	< 1.9	ug/L	< 1.9
Trichlorofluoromethane	ND	ug/L	-----
Vinyl chloride	ND	ug/L	-----
Total Xylenes	44	ug/L	< 6.0

ND = Not Detected

GUILFORD LABORATORIES, INC.

  
S.P. Rayburn

MANLEY AVENUE

R/W MON.

EX. 90.0' F

R/W MON.

N 13° 42' 16" W

JOHN'S PLUMBING REPAIR  
TM 384-1-3  
DB 3111 PG 759  
DB 3014 PG 300 (R/W)

EXXON CORPORATION  
TM 384-1-1  
DB 2525 PG 405  
DB 2547 PG 866 (R/W)  
DB 3014 PG 303 (R/W)

WEST MARKET STREET (US 421)

PT OF LOTS 100-102  
DB 3013 PG 465 (R/W)

S 77° 21' 47" W

S 72° 51' 10" W

S 73° 19' 31" W 168.17'

N 73° 05' 00" E 120.60'

2 SQ. FT.

AREA= 566 SQ. FT.

AREA= 3710 SQ. FT.

NIP L5

N 19° 21' 54" W 62.05'

NIP

N 19° 21' 54" W 112.56'

NIP

EX. NAIL

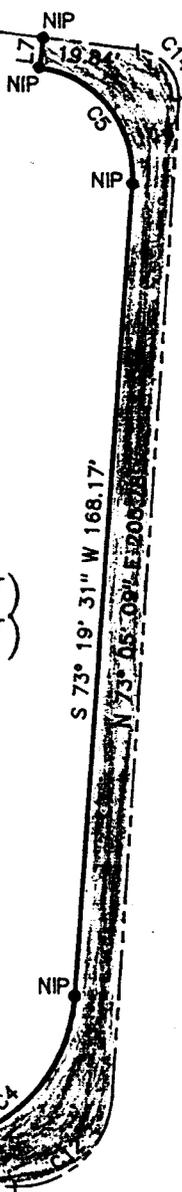
C11

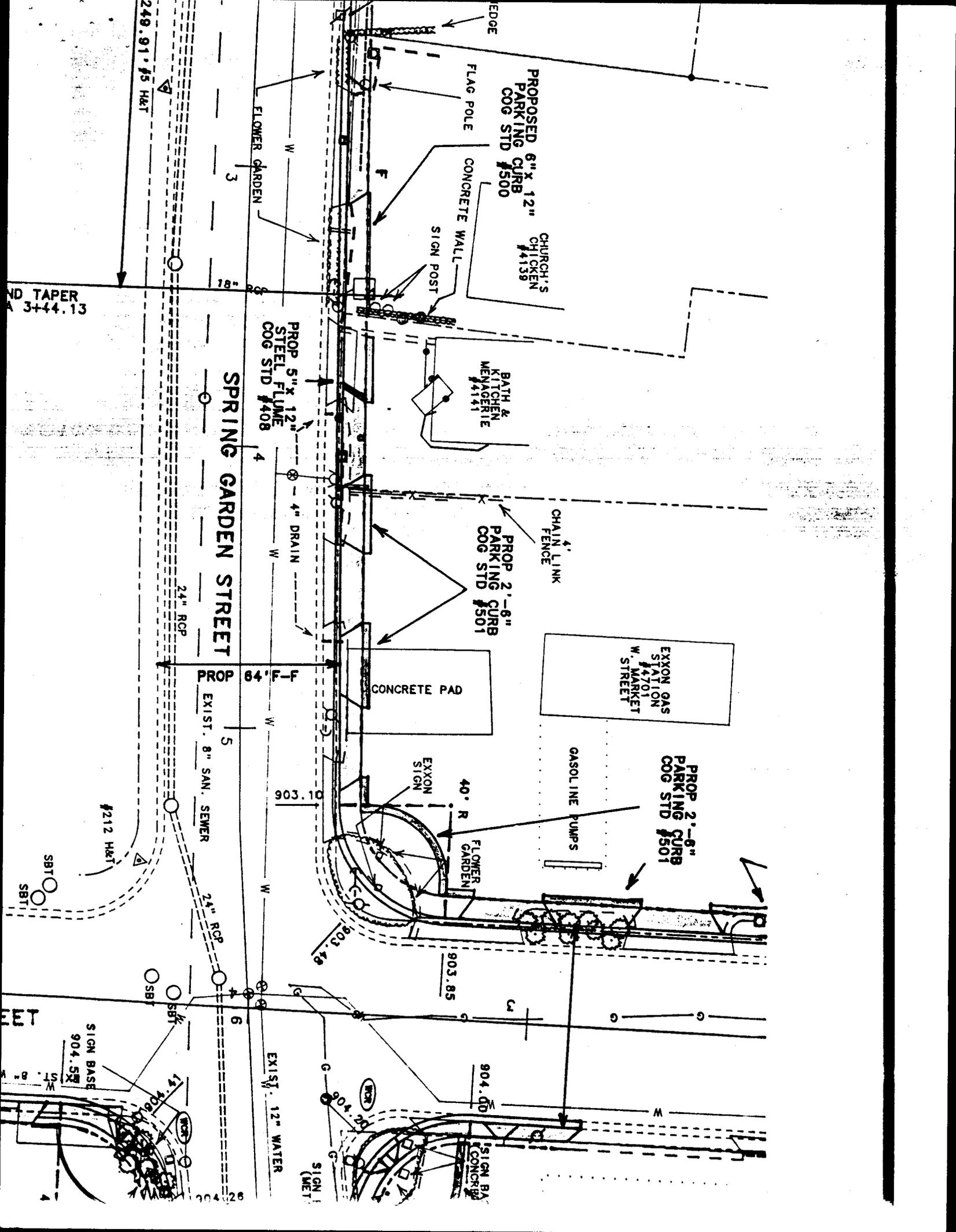
EIP

C15

S 19° 52' 24" E 77.60'

SPRING GARDEN STREET

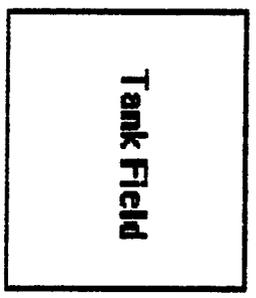




S P R I N G G A R D E N S T R



Exxon Station



Tank Field

M A N L E Y A V E

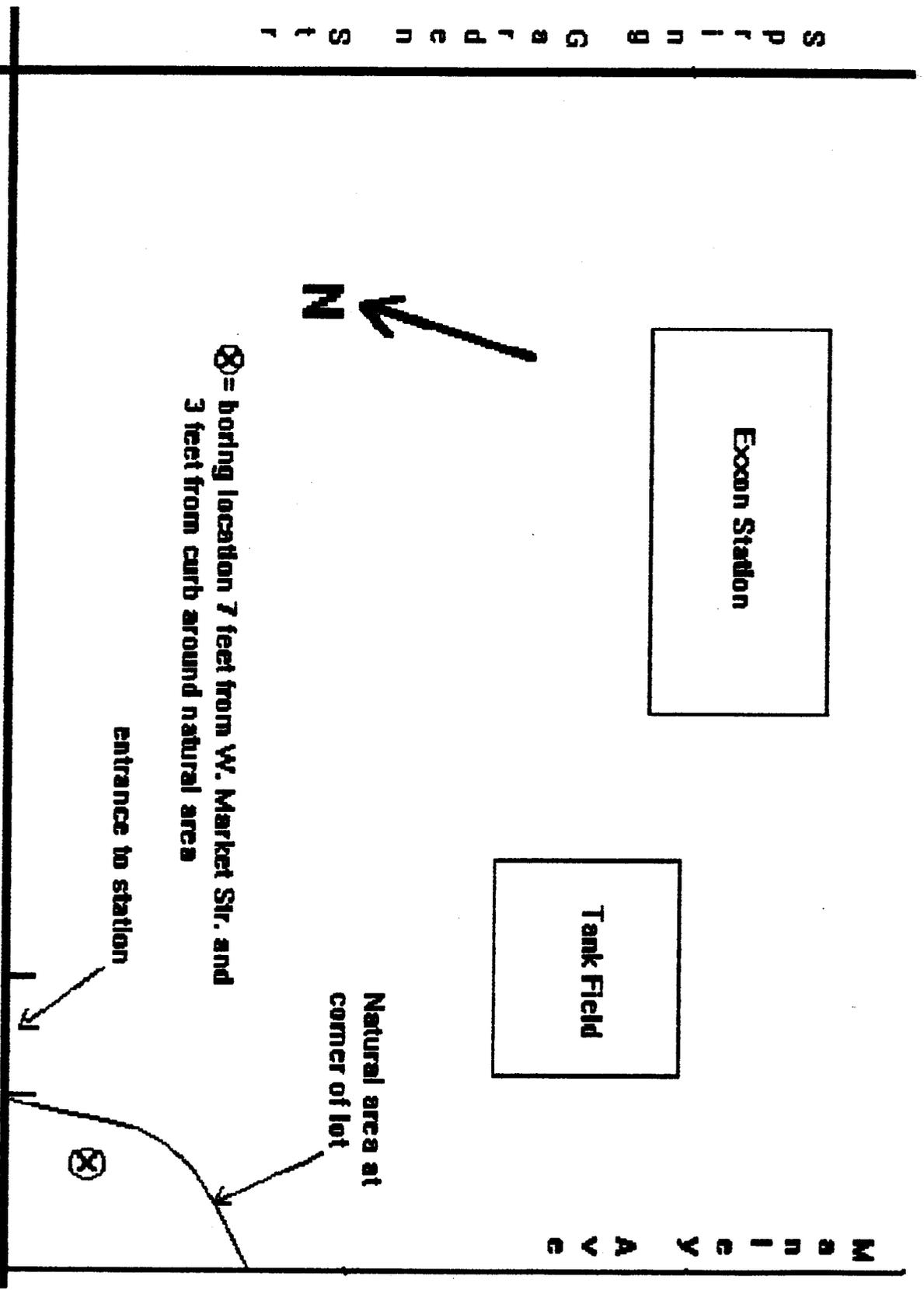


N

⊗ = boring location 7 feet from W. Market Str. and 3 feet from curb around natural area

entrance to station

Natural area at corner of lot



West Market Street