



2012 ANNUAL MONITORING REPORT

**HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA**

**MARCH 2013
REF. NO. 002012 (63)**

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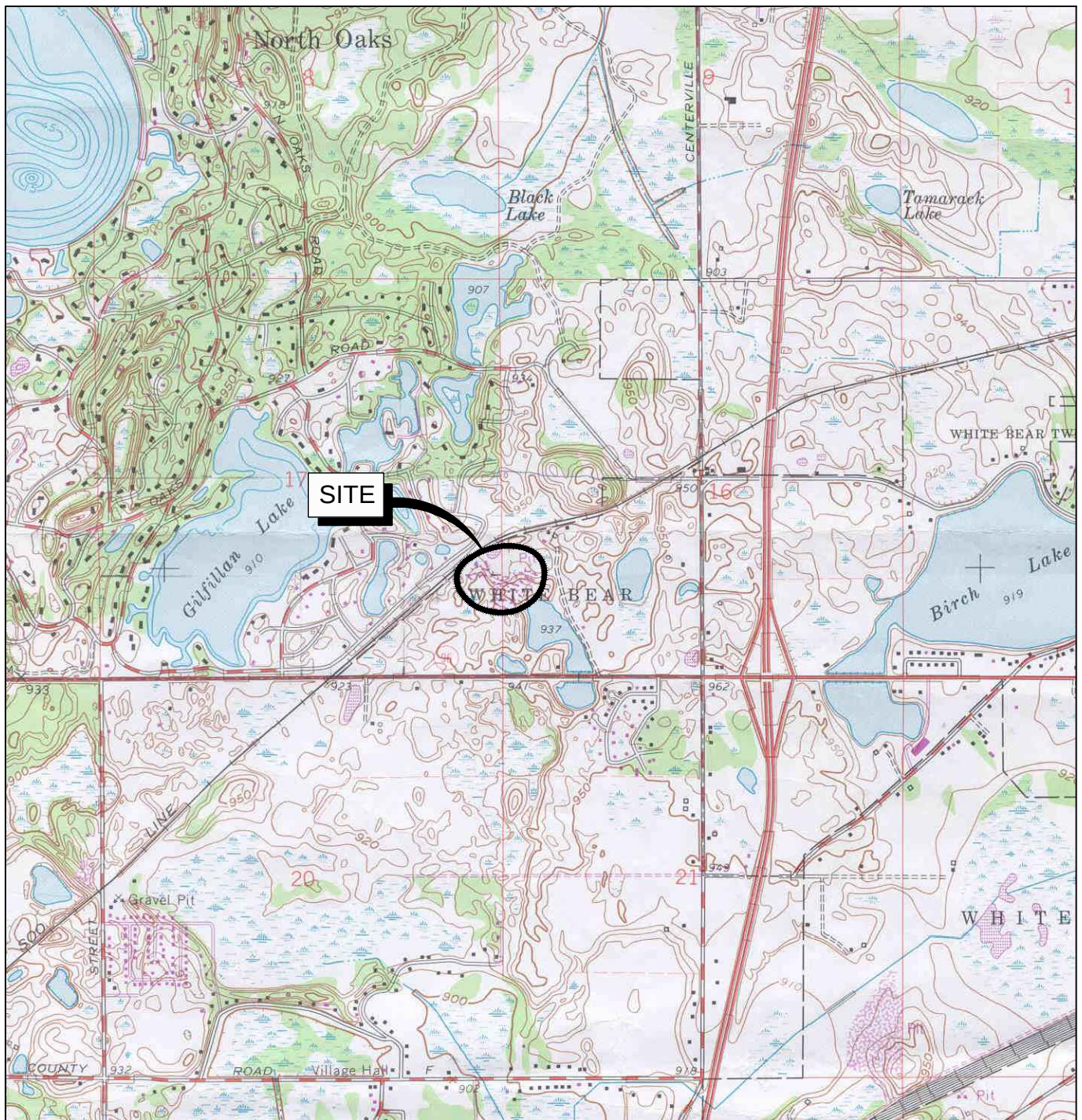
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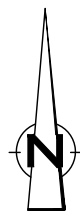
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SOURCE: USGS 7.5 MINUTE QUAD
WHITE BEAR LAKE WEST, MINN.

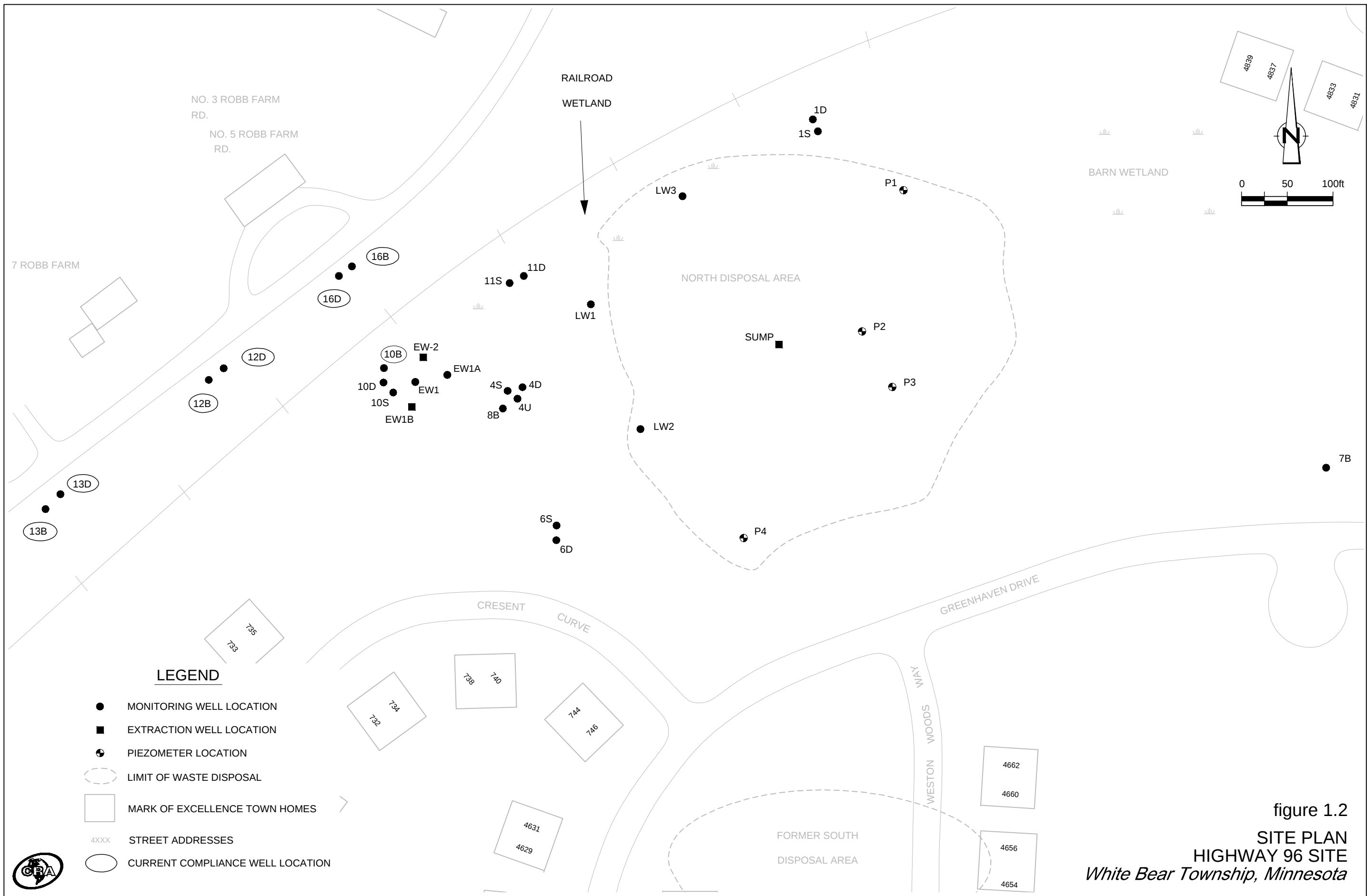


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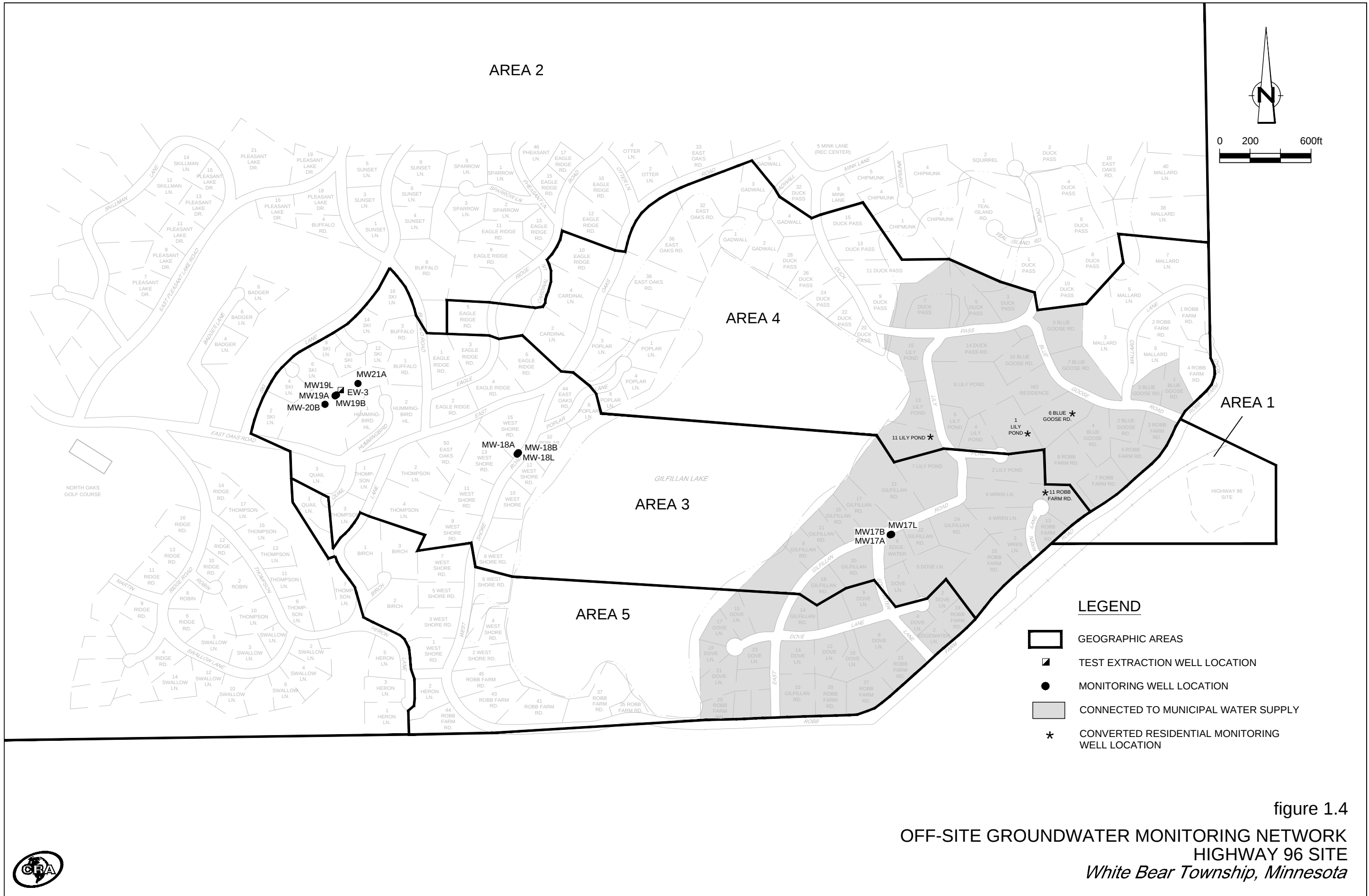


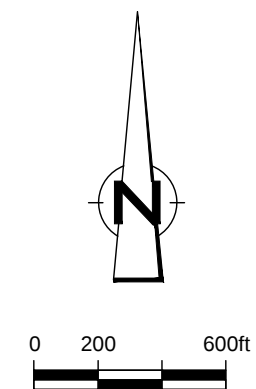
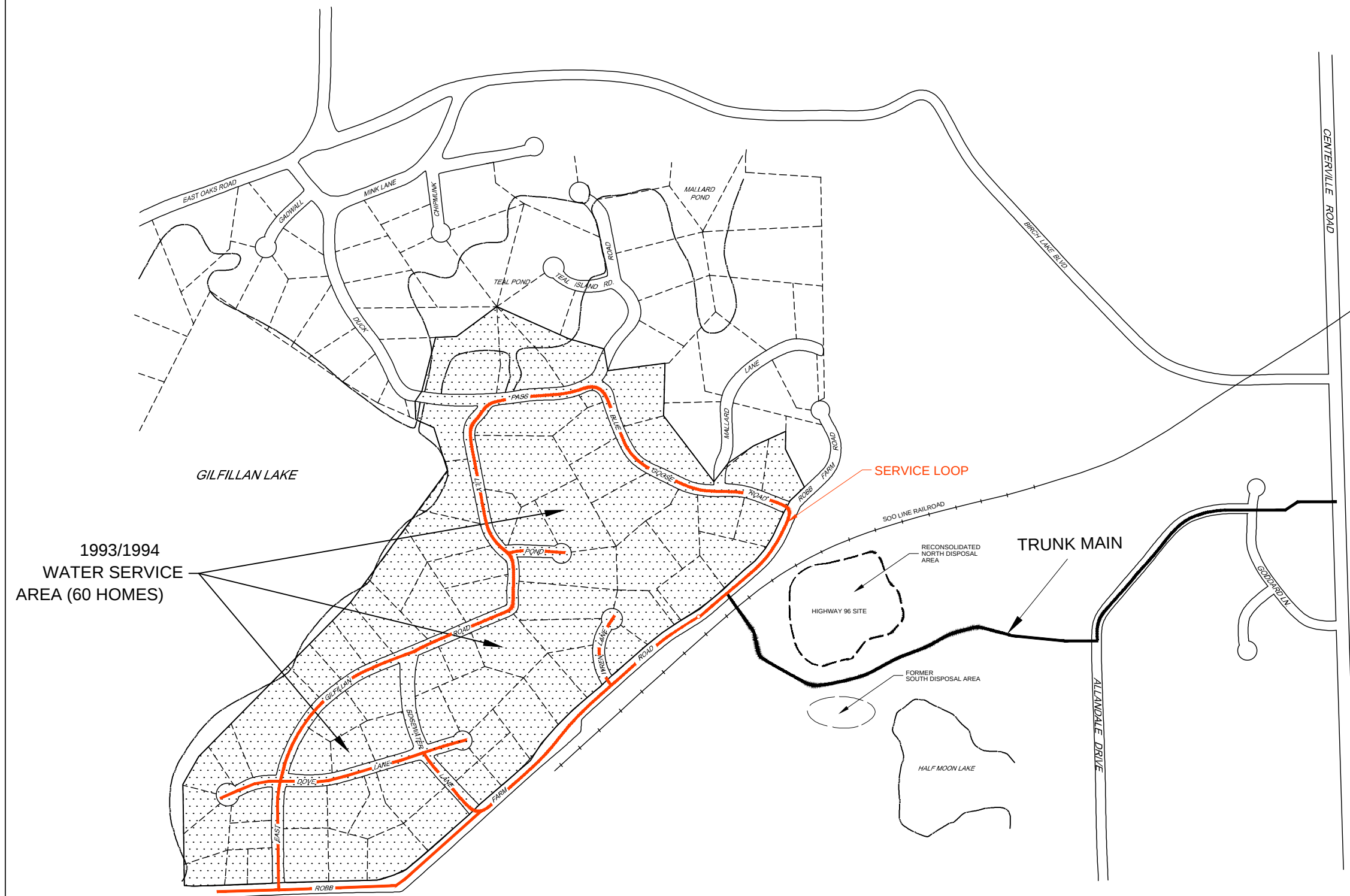
figure 1.1

SITE LOCATION
HIGHWAY 96 SITE
White Bear Township, Minnesota









1993/1994
WATER SERVICE
AREA (60 HOMES)

SERVICE LOOP

TRUNK MAIN

NOTE: FIGURE TAKEN FROM "REMEDIAL ACTION FINAL REPORT" CRA (1996)



figure 1.5
MUNICIPAL WATER SYSTEM
HIGHWAY 96 SITE
White Bear Township, Minnesota

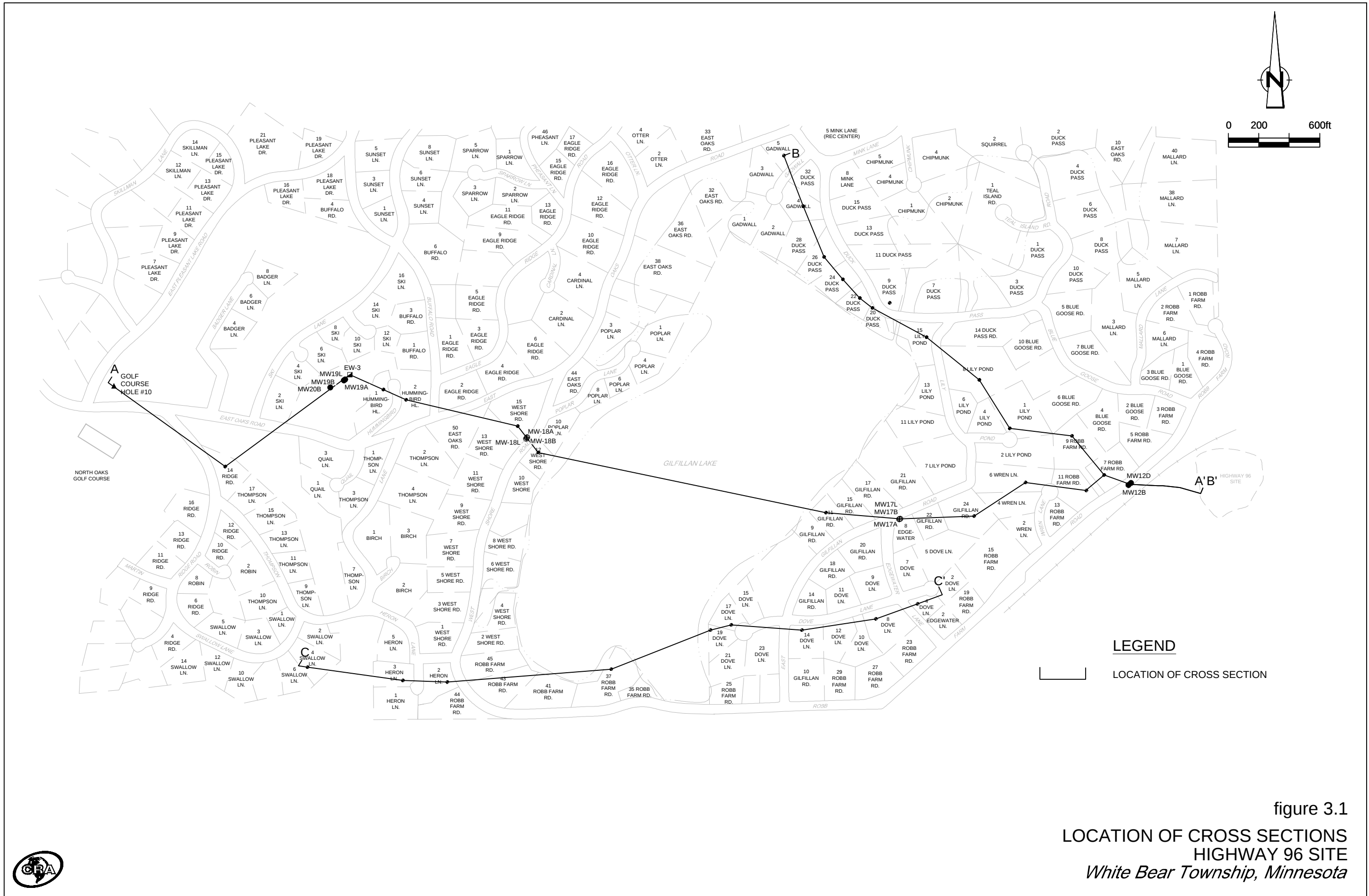
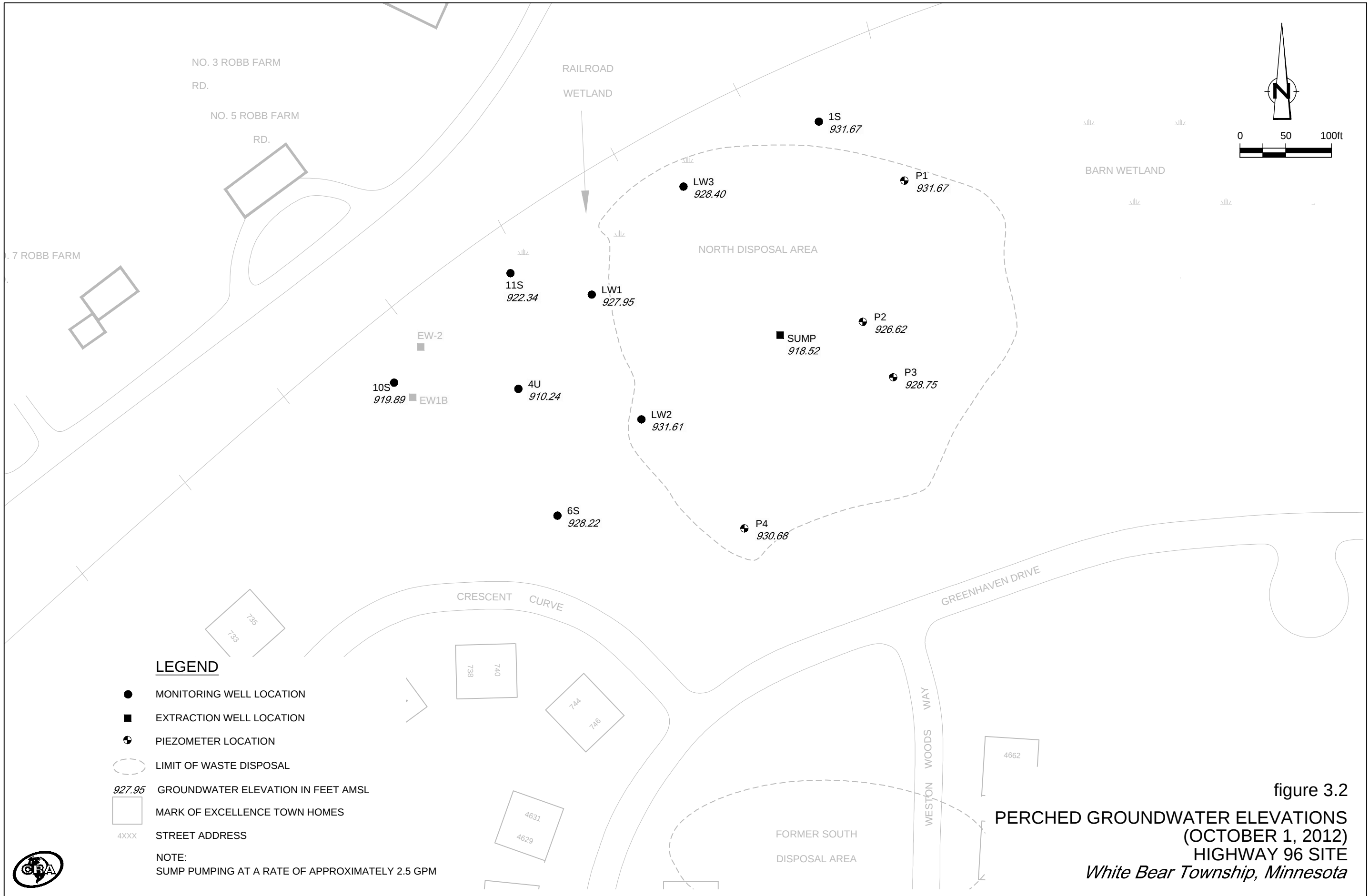
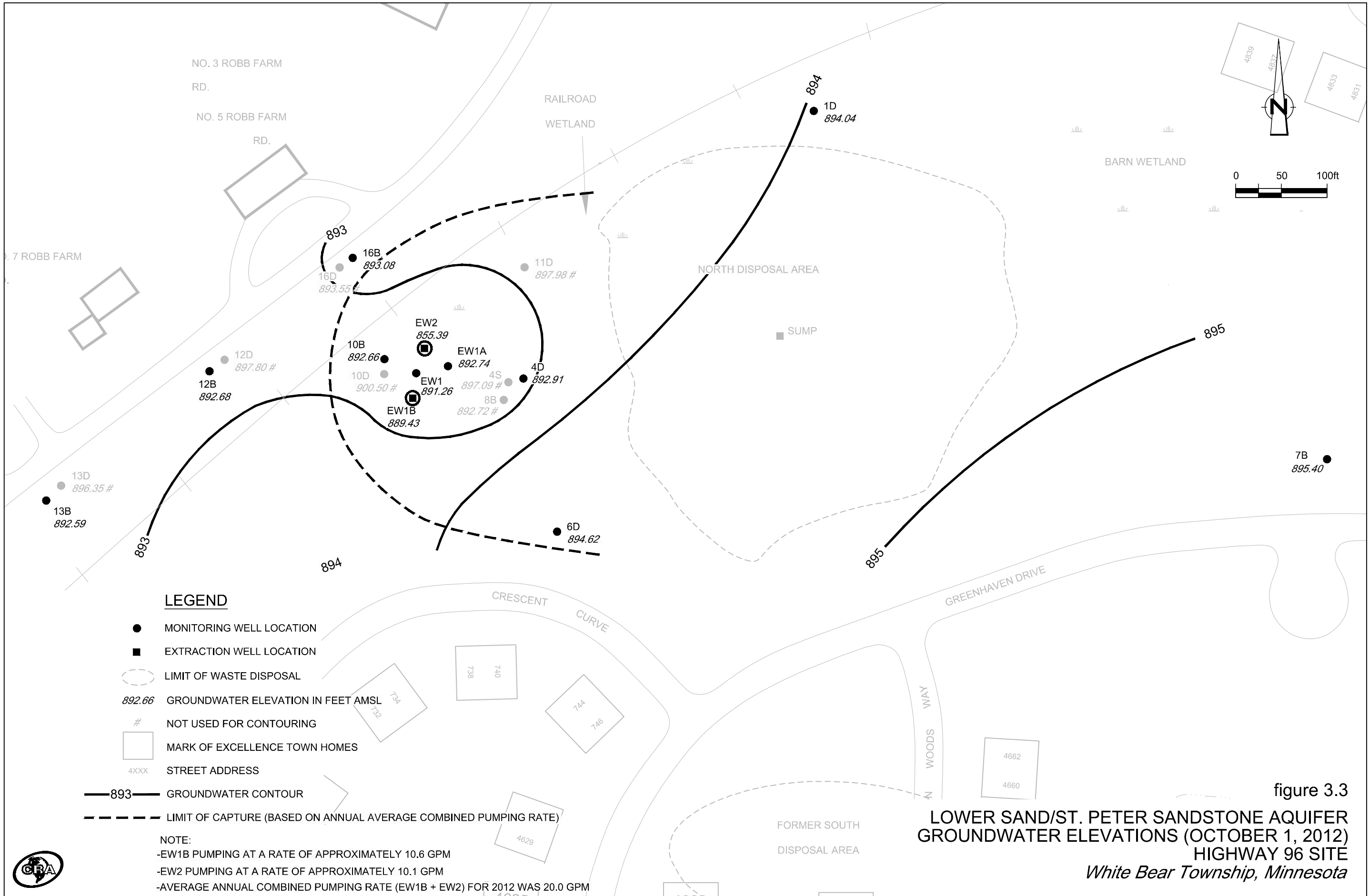
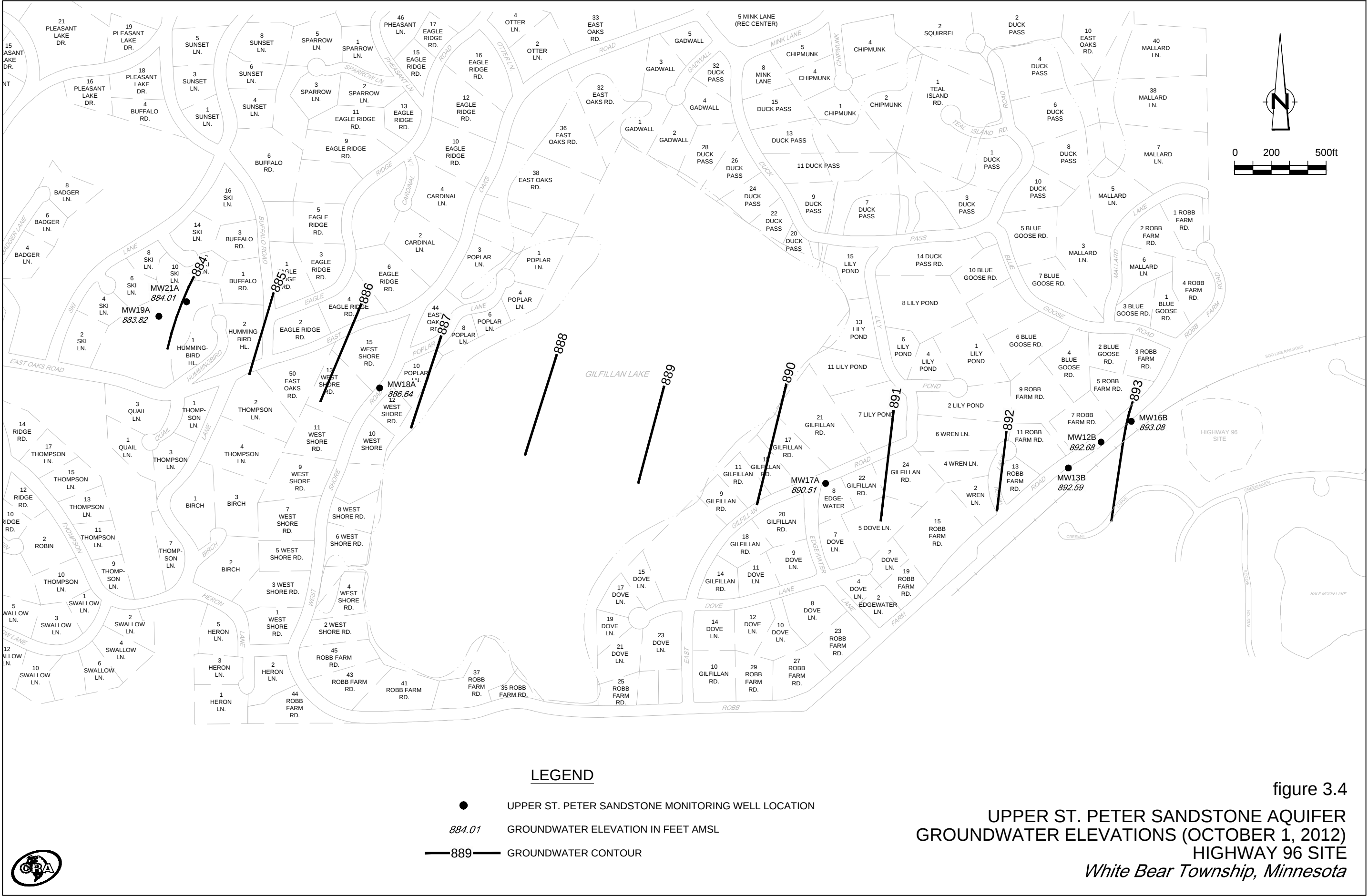


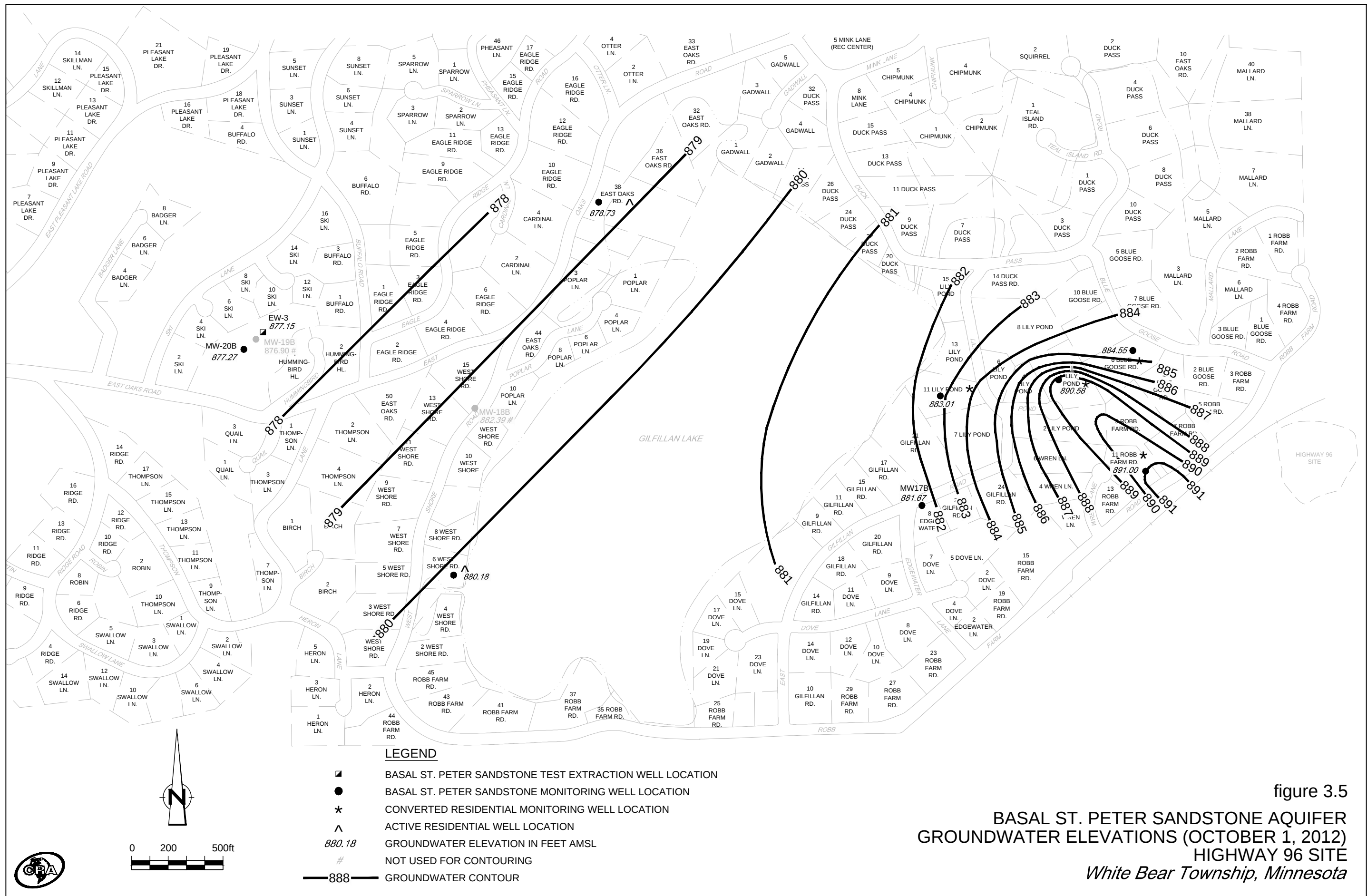
figure 3.1
 LOCATION OF CROSS SECTIONS
 HIGHWAY 96 SITE
 White Bear Township, Minnesota











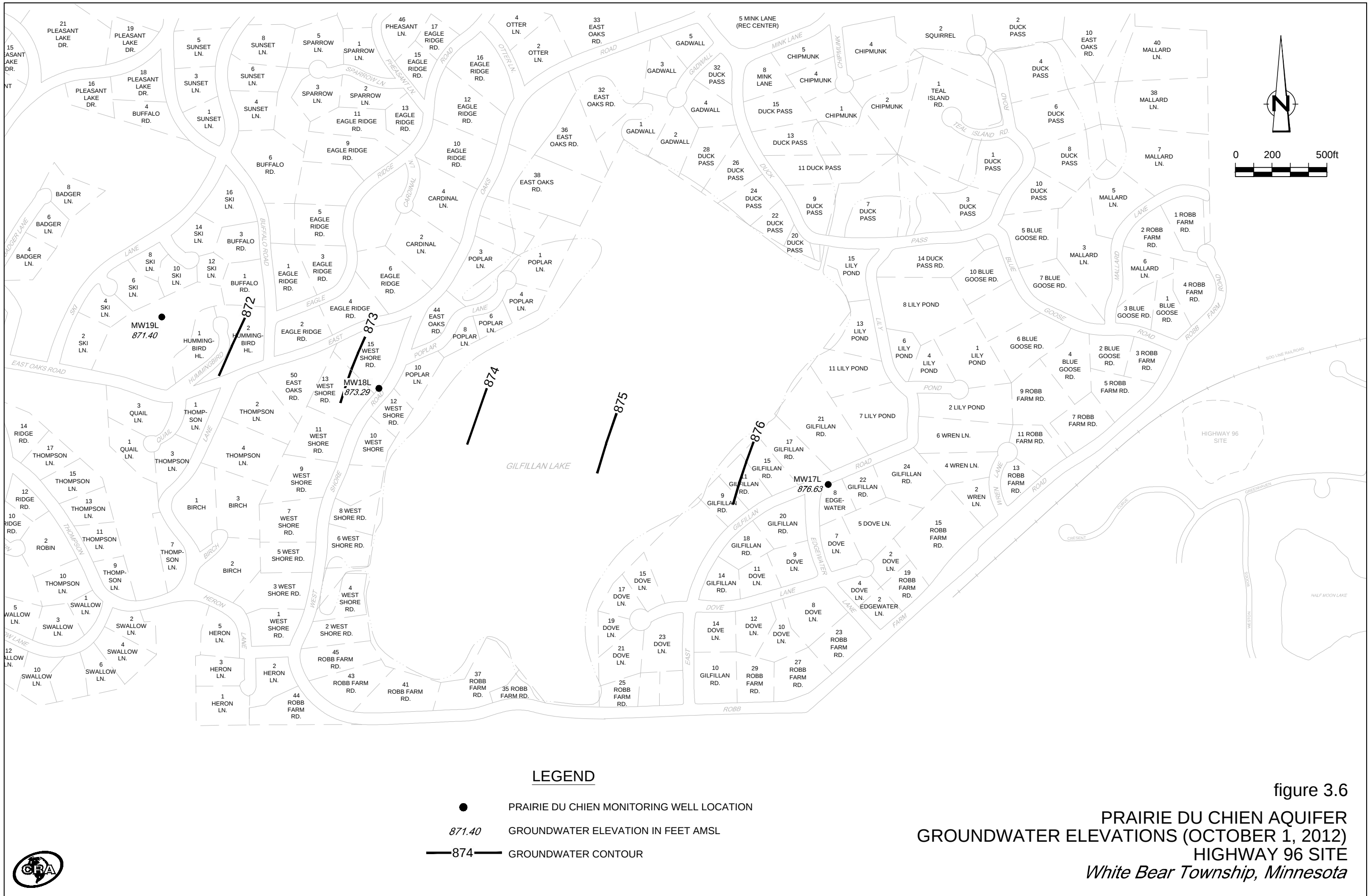


FIGURE 3.7

POUNDS OF TOTAL VOCs (TVOCs) REMOVED
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

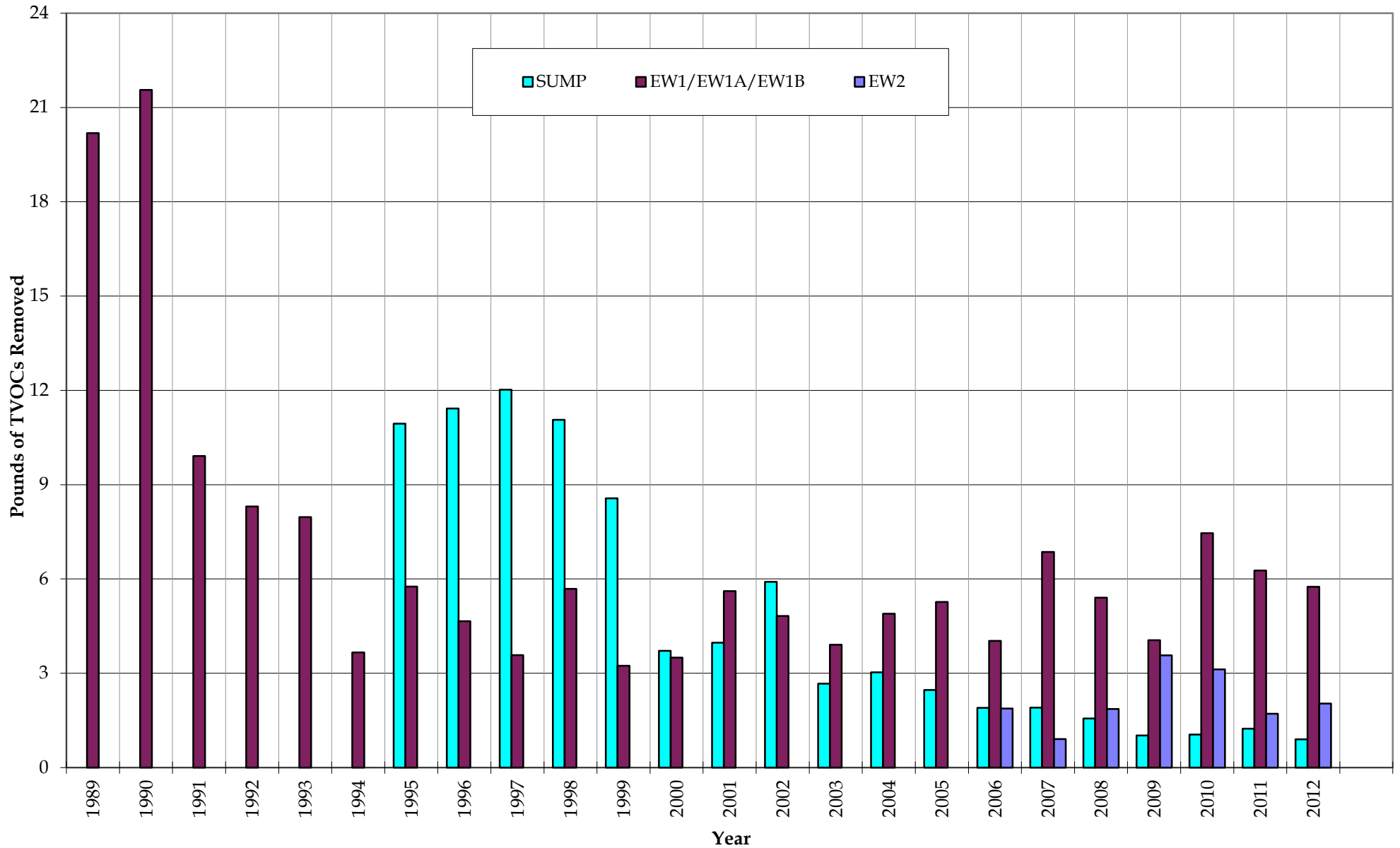


FIGURE 3.8

VOC REMOVAL EFFICIENCY
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

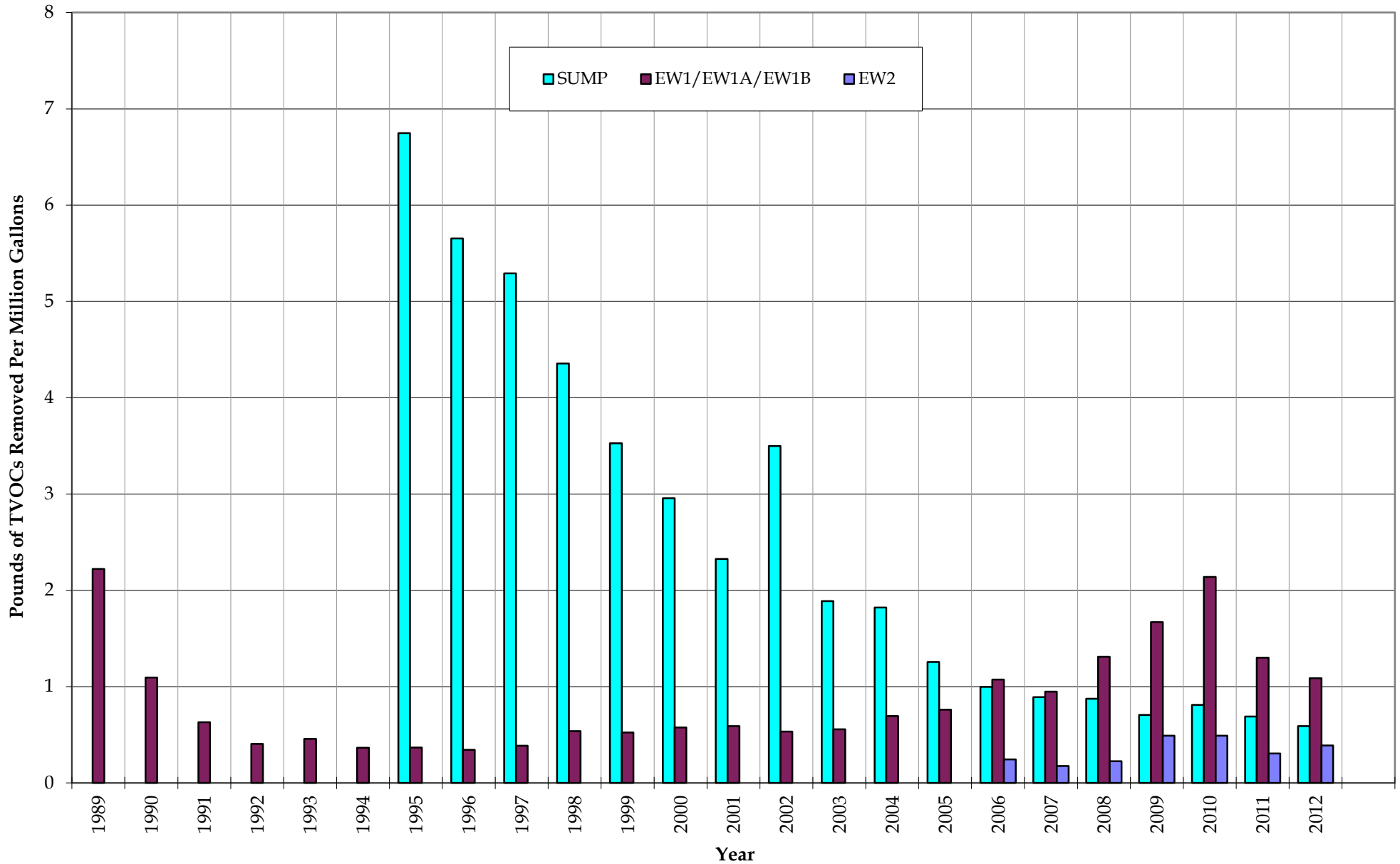


FIGURE 3.9
CUMULATIVE VOC MASS REMOVAL
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

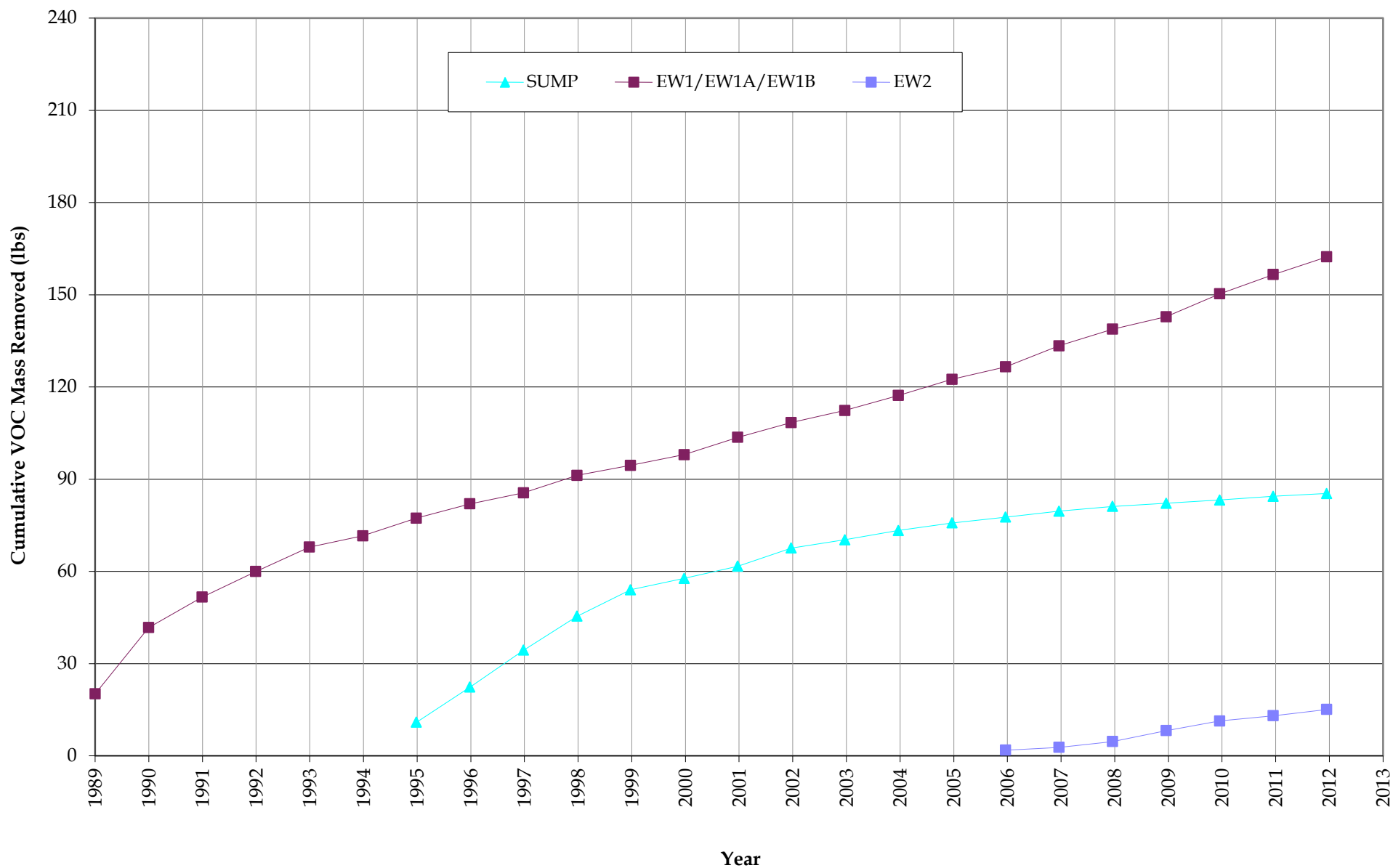
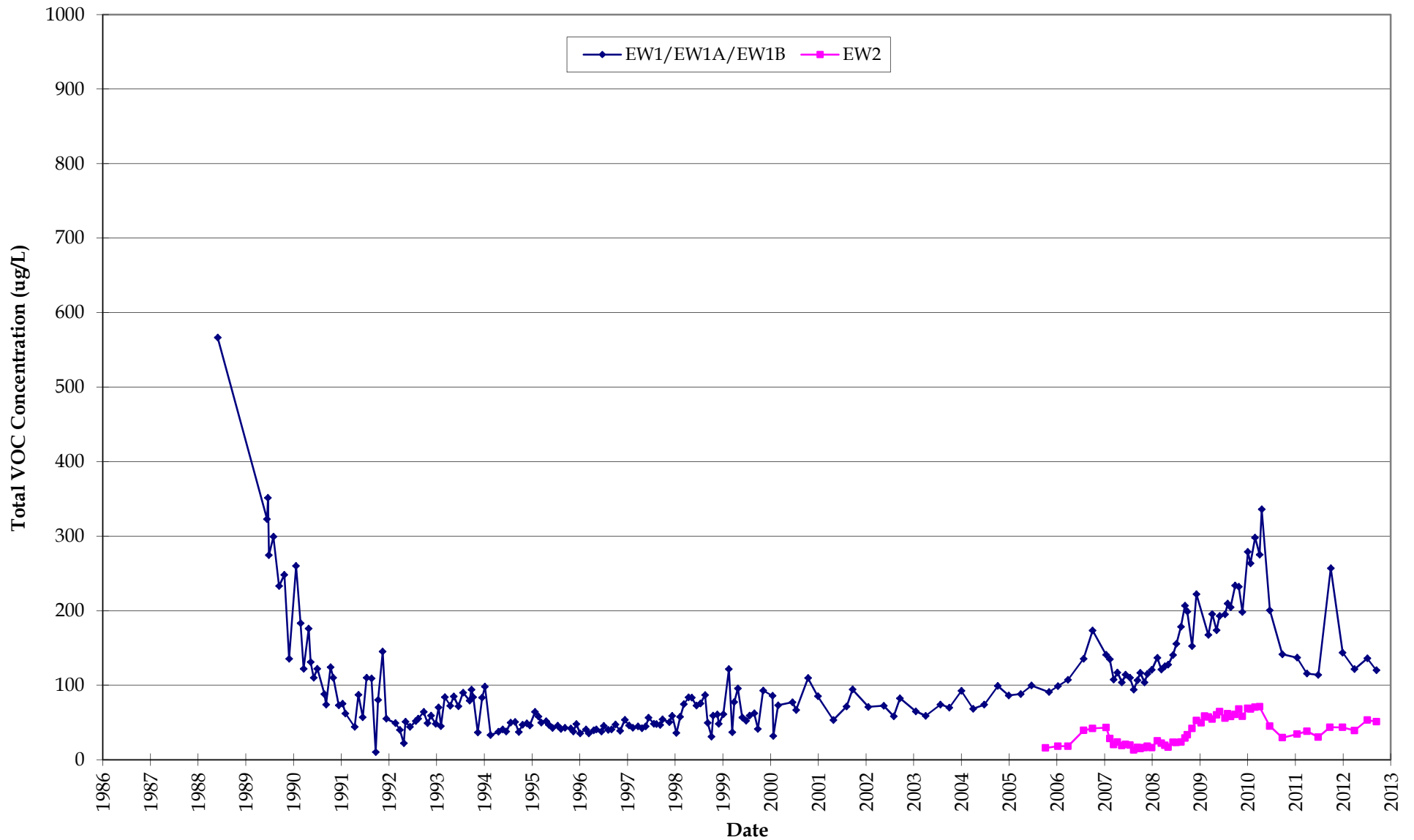


FIGURE 3.10
TOTAL VOC CONCENTRATIONS
EW1/EW1A/EW1B AND EW2
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA



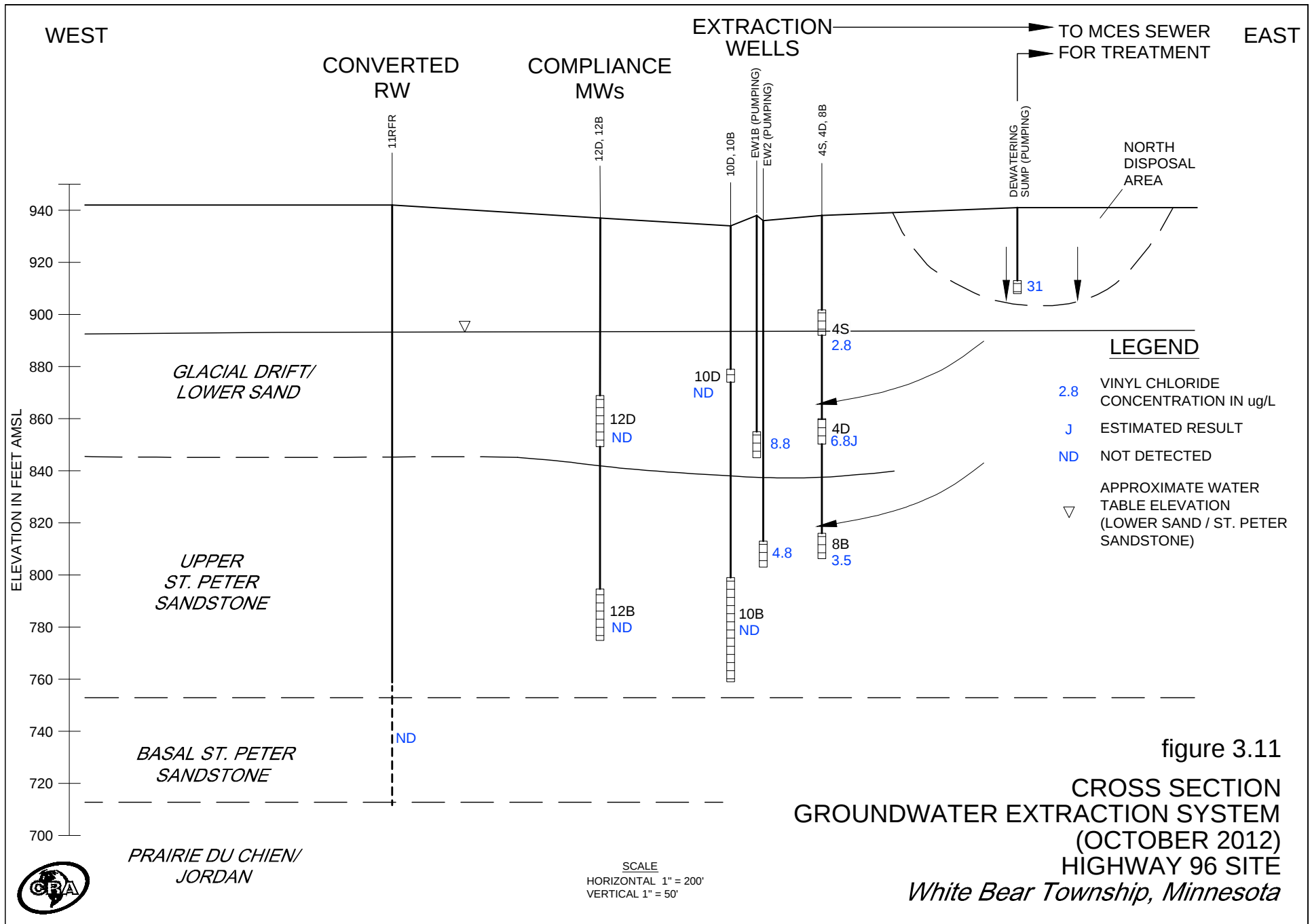


FIGURE 4.1
TOTAL VOC CONCENTRATIONS
LW3
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

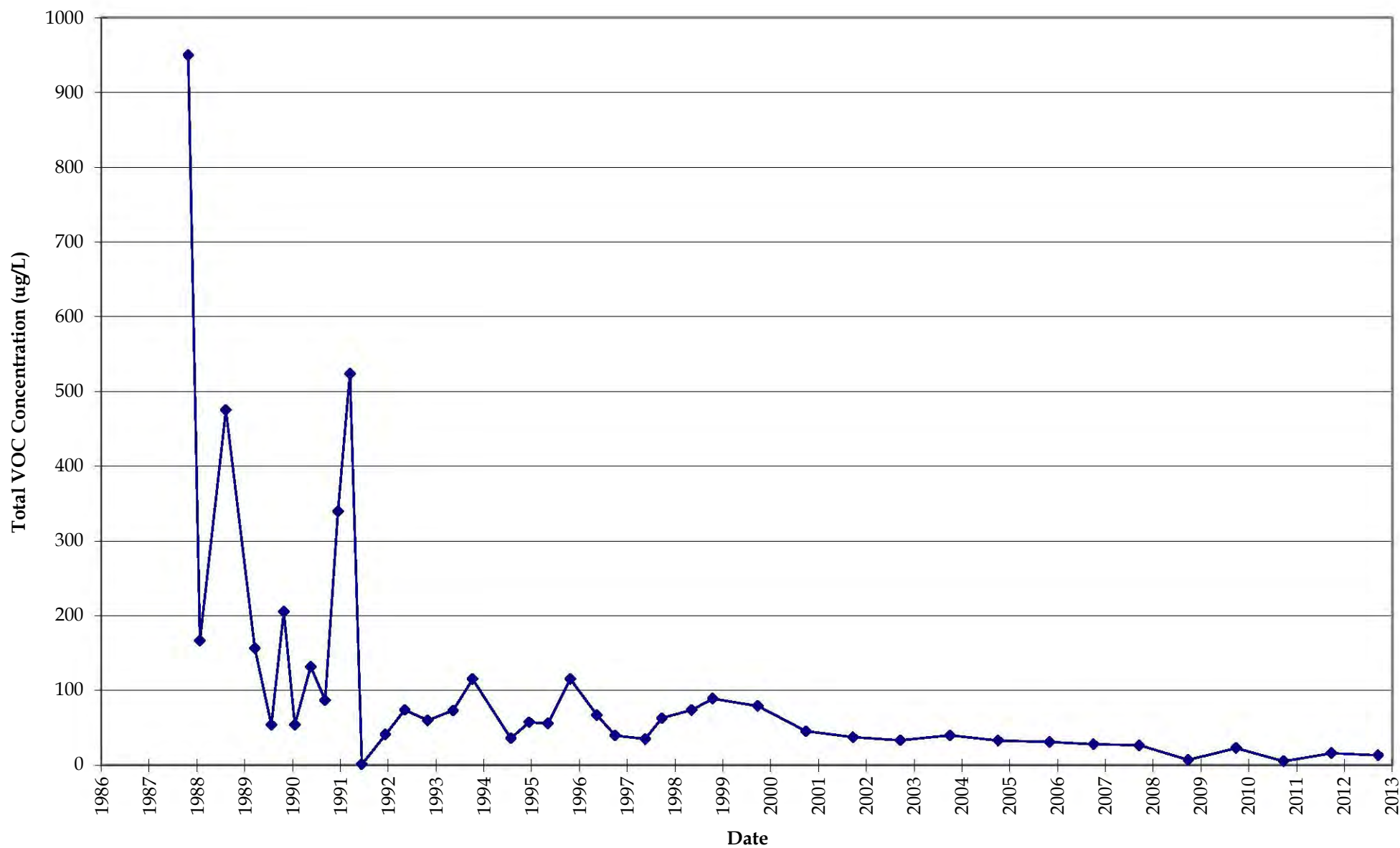


FIGURE 4.2
TOTAL VOC CONCENTRATIONS
MW4D
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

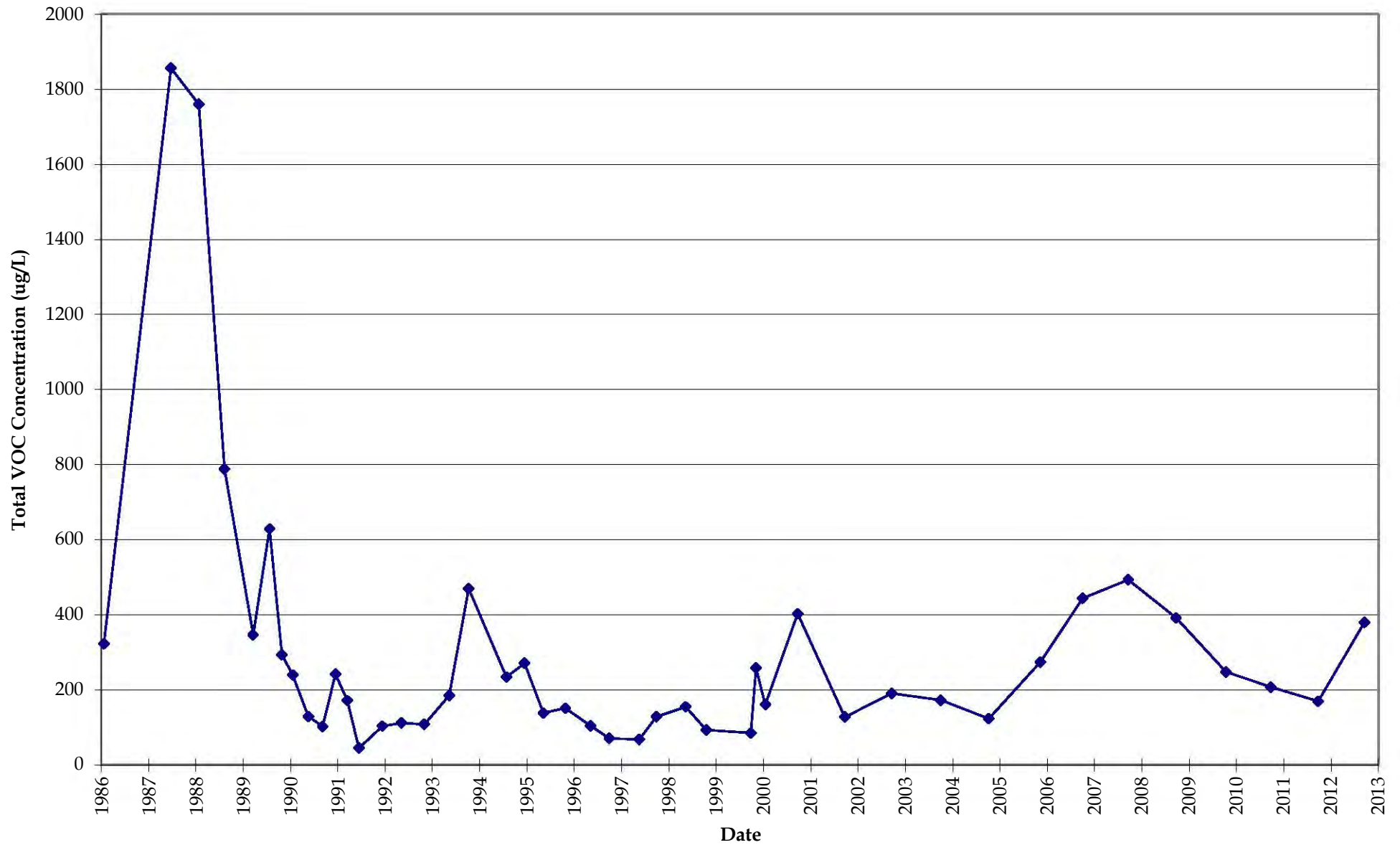


FIGURE 4.3
TOTAL VOC CONCENTRATIONS
MW12D
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

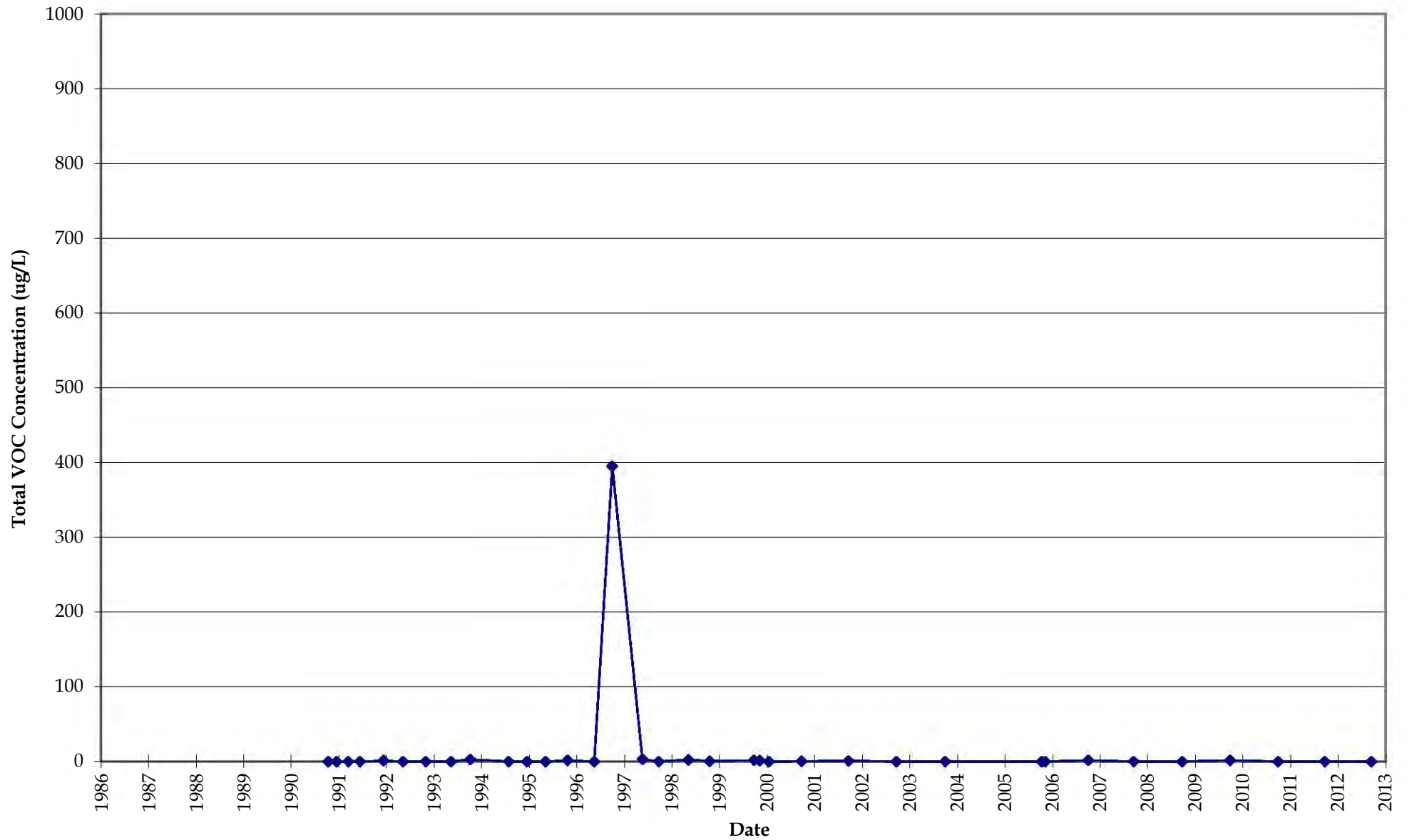


FIGURE 4.4
TOTAL VOC CONCENTRATIONS
MW8B
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

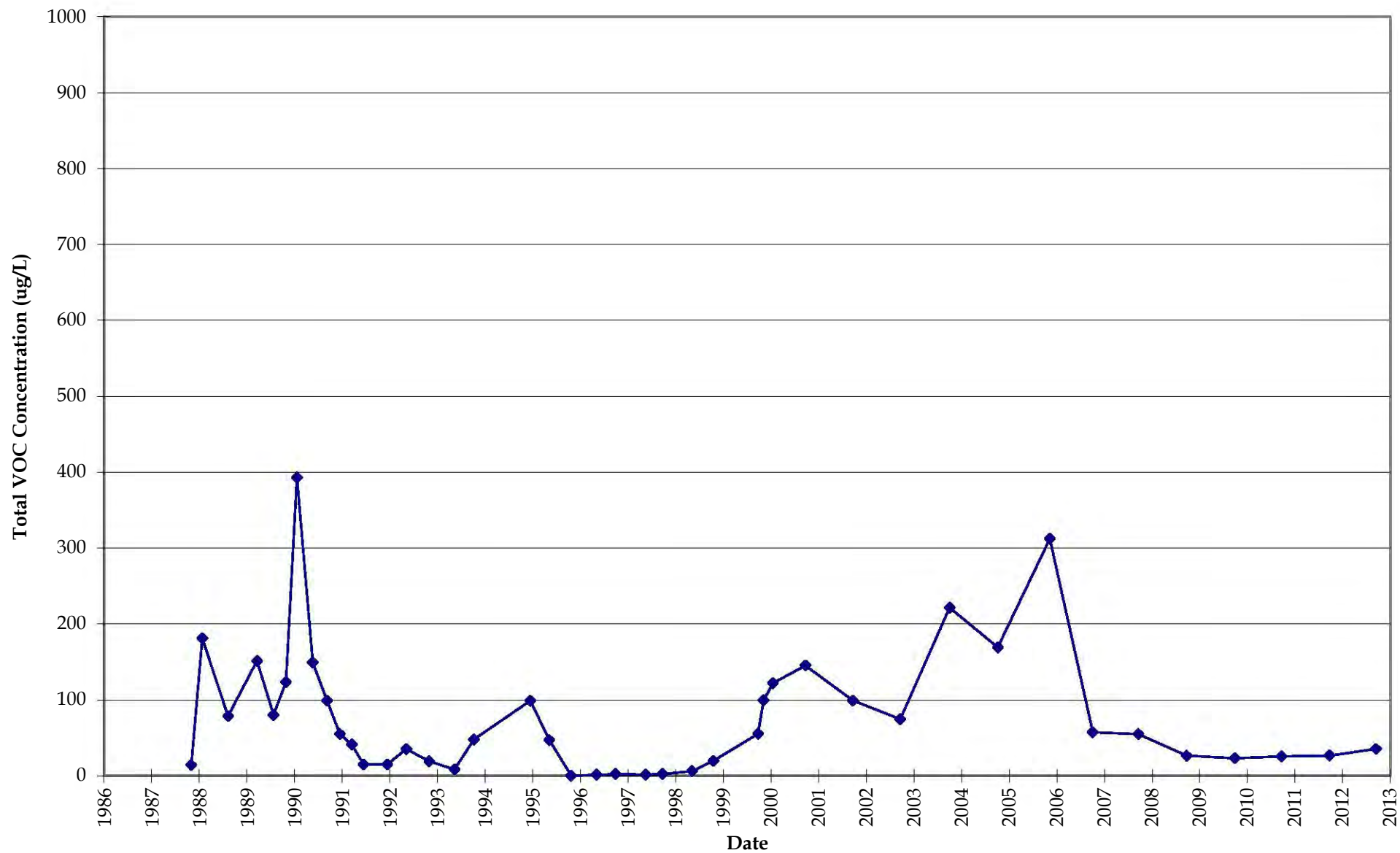


FIGURE 4.5
TOTAL VOC CONCENTRATIONS
MW12B
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

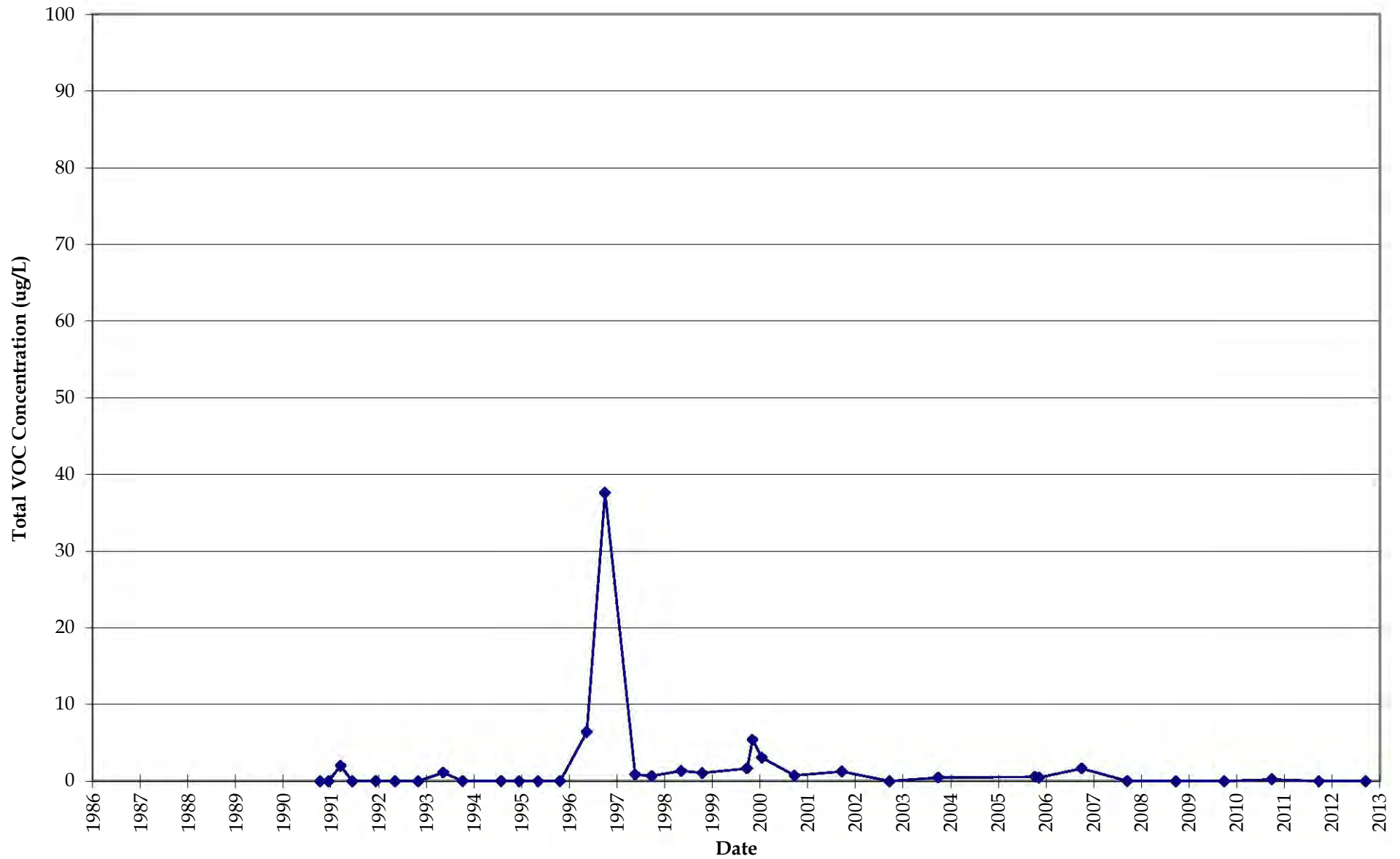


FIGURE 4.6
TOTAL VOC CONCENTRATIONS
11 ROBB FARM ROAD
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

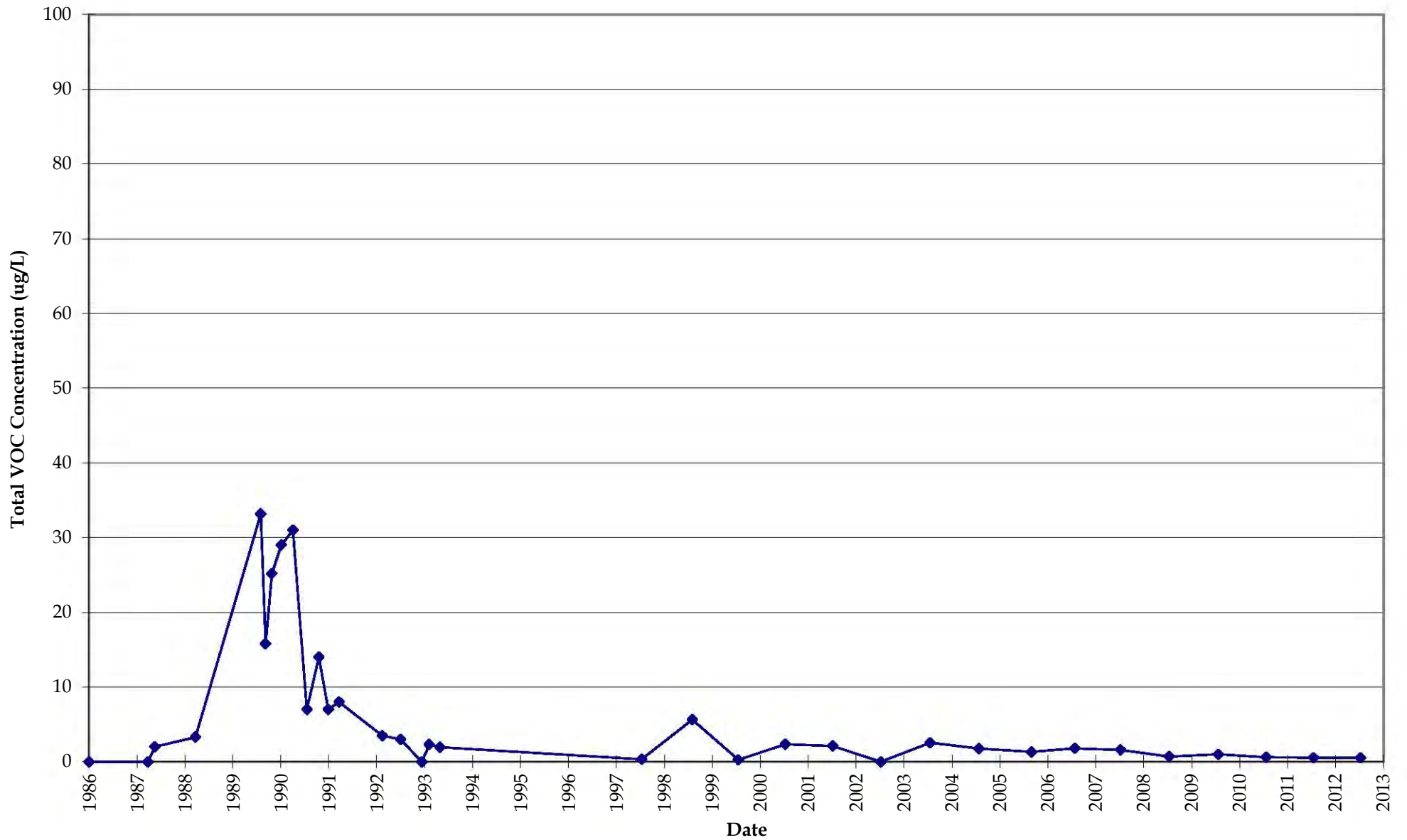


FIGURE 4.7
TOTAL VOC CONCENTRATIONS
1 LILY POND ROAD
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

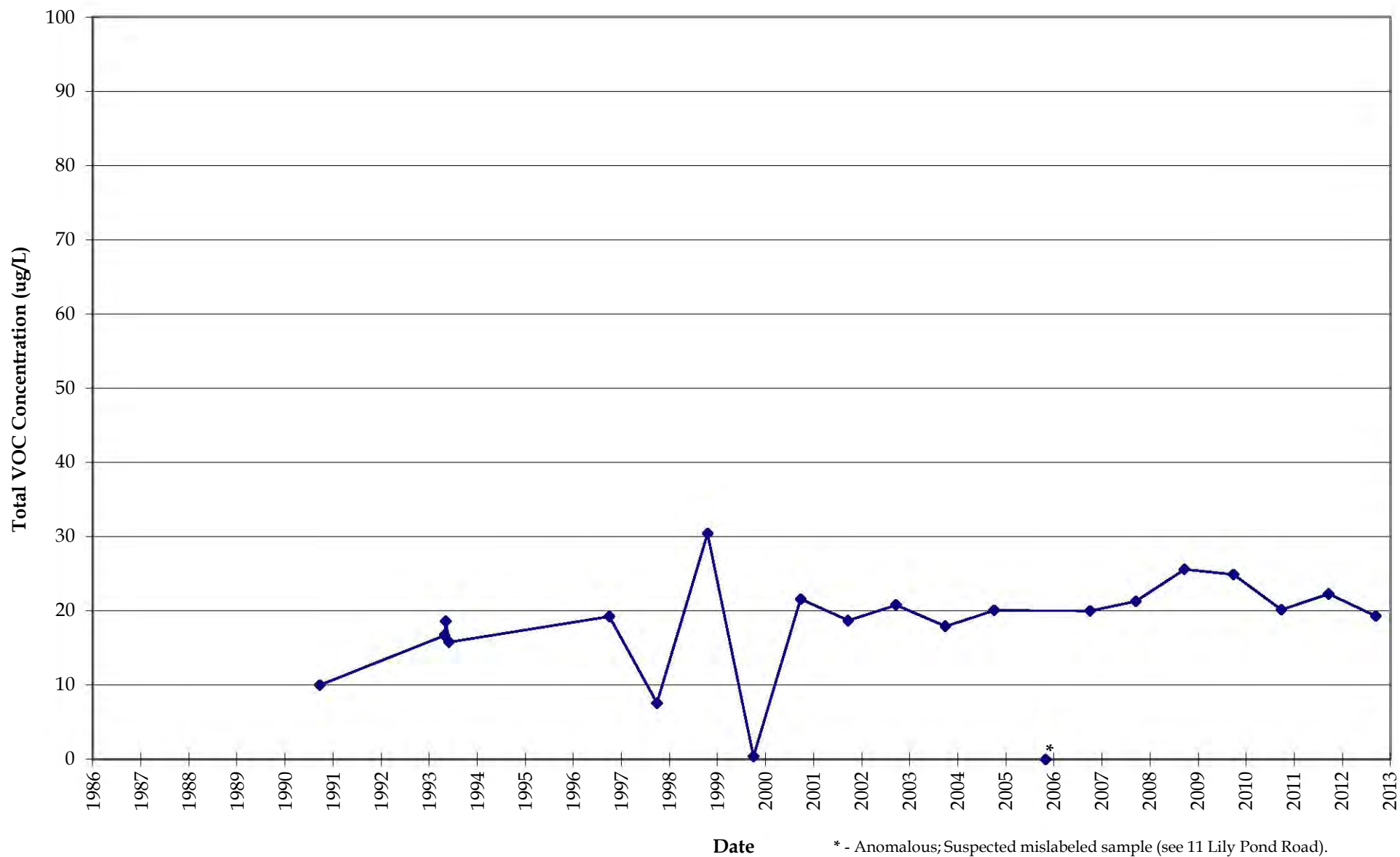
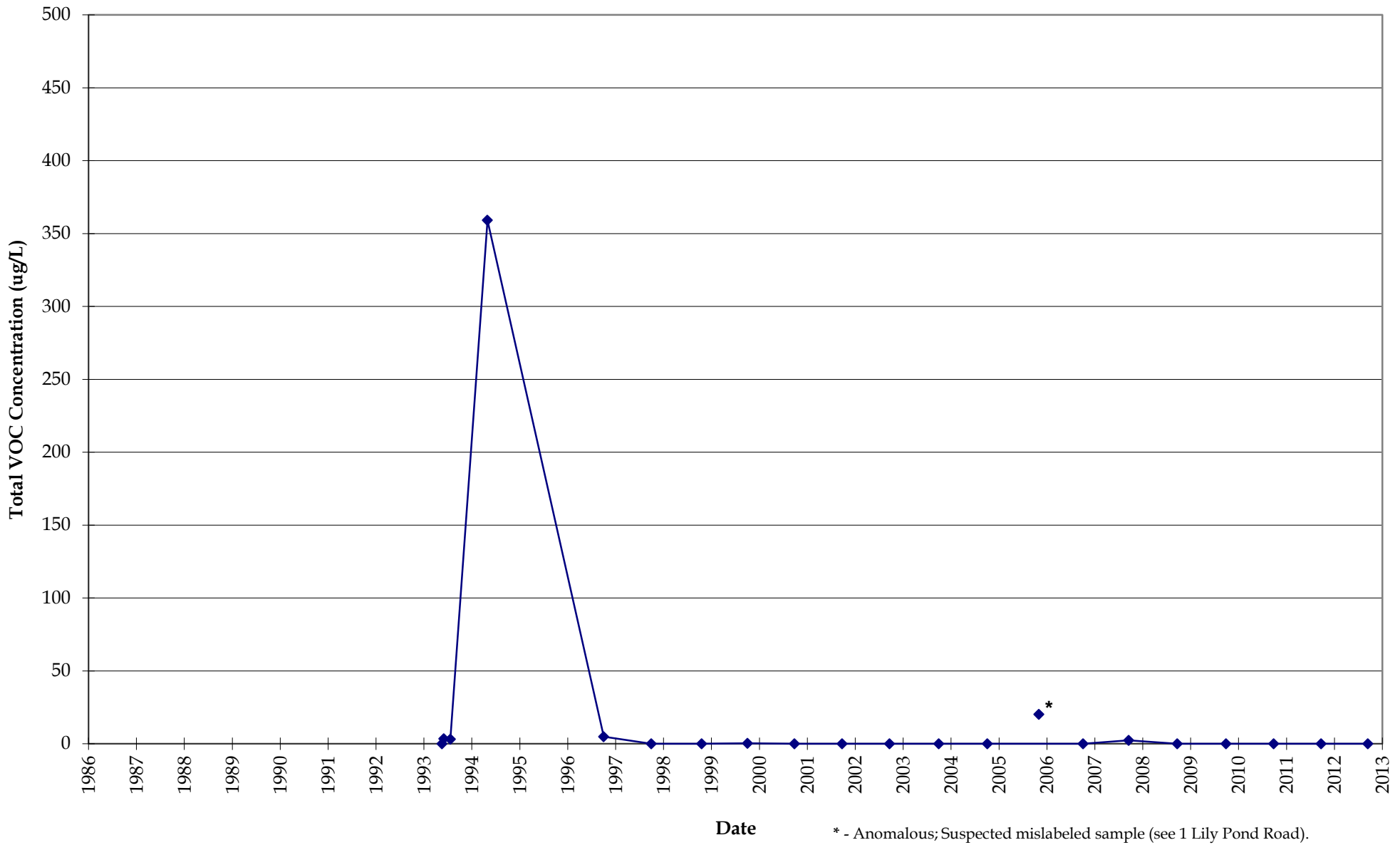


FIGURE 4.8
TOTAL VOC CONCENTRATIONS
11 LILY POND ROAD
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA



* - Anomalous; Suspected mislabeled sample (see 1 Lily Pond Road).

FIGURE 4.9
TOTAL VOC CONCENTRATIONS
6 BLUE GOOSE ROAD
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

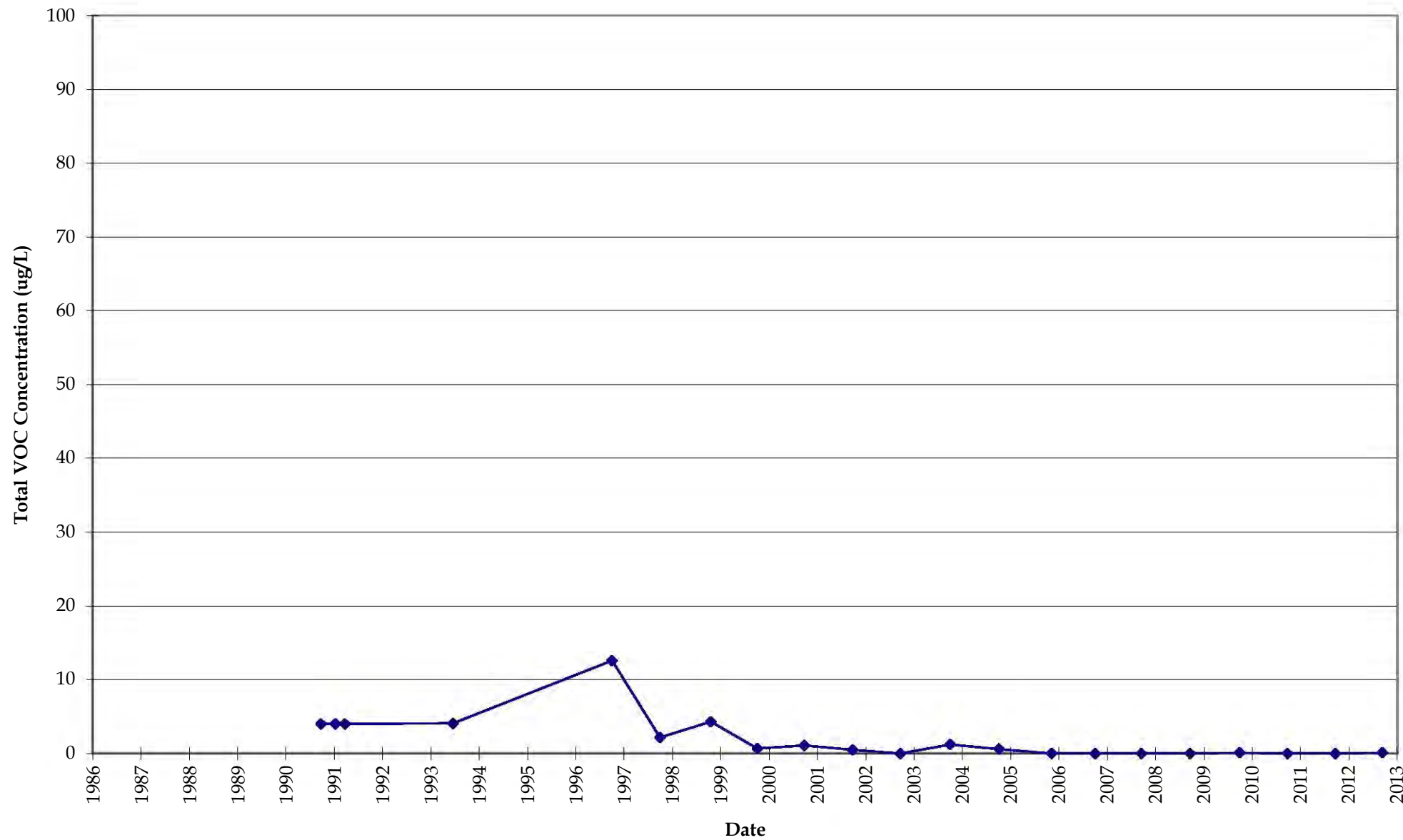
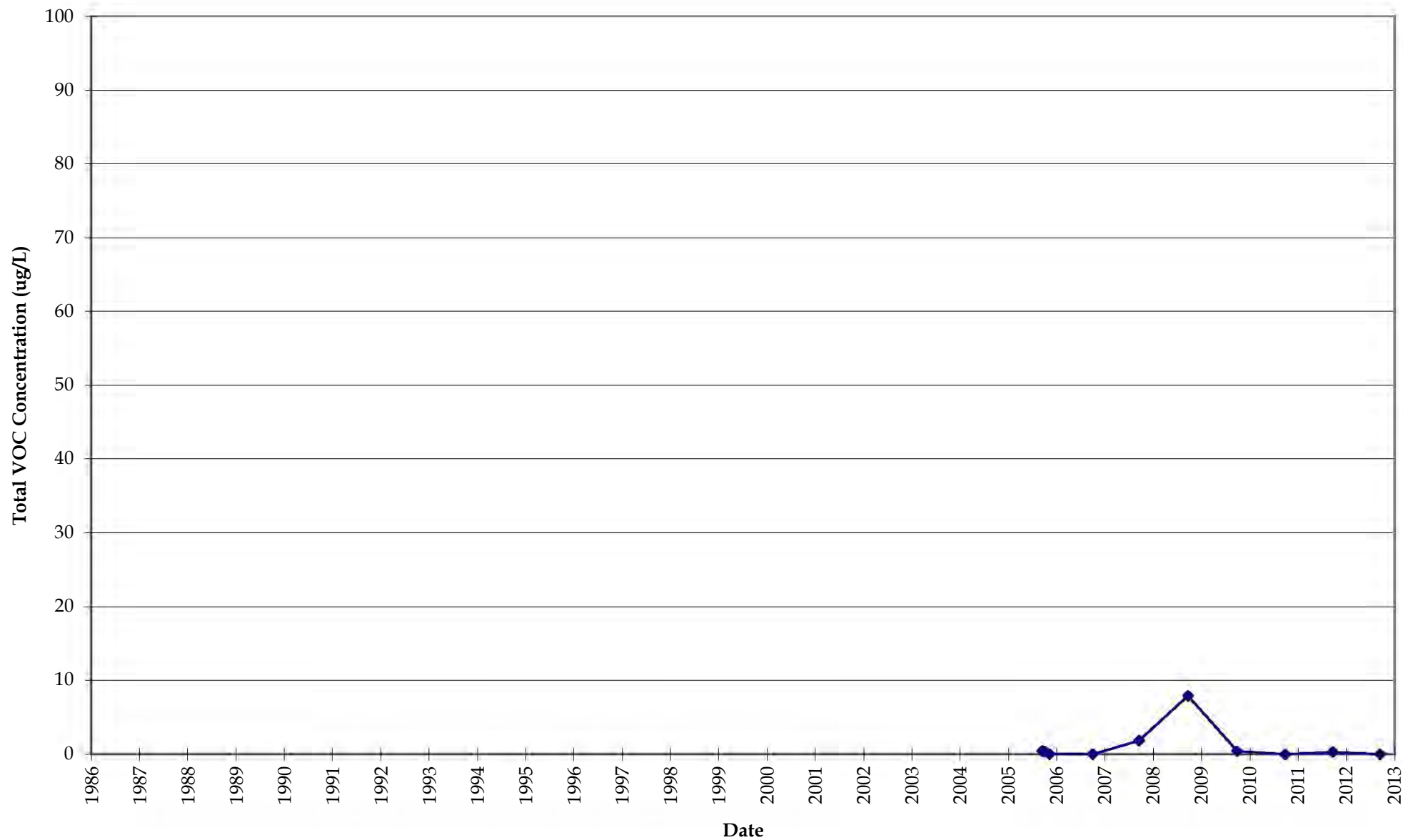
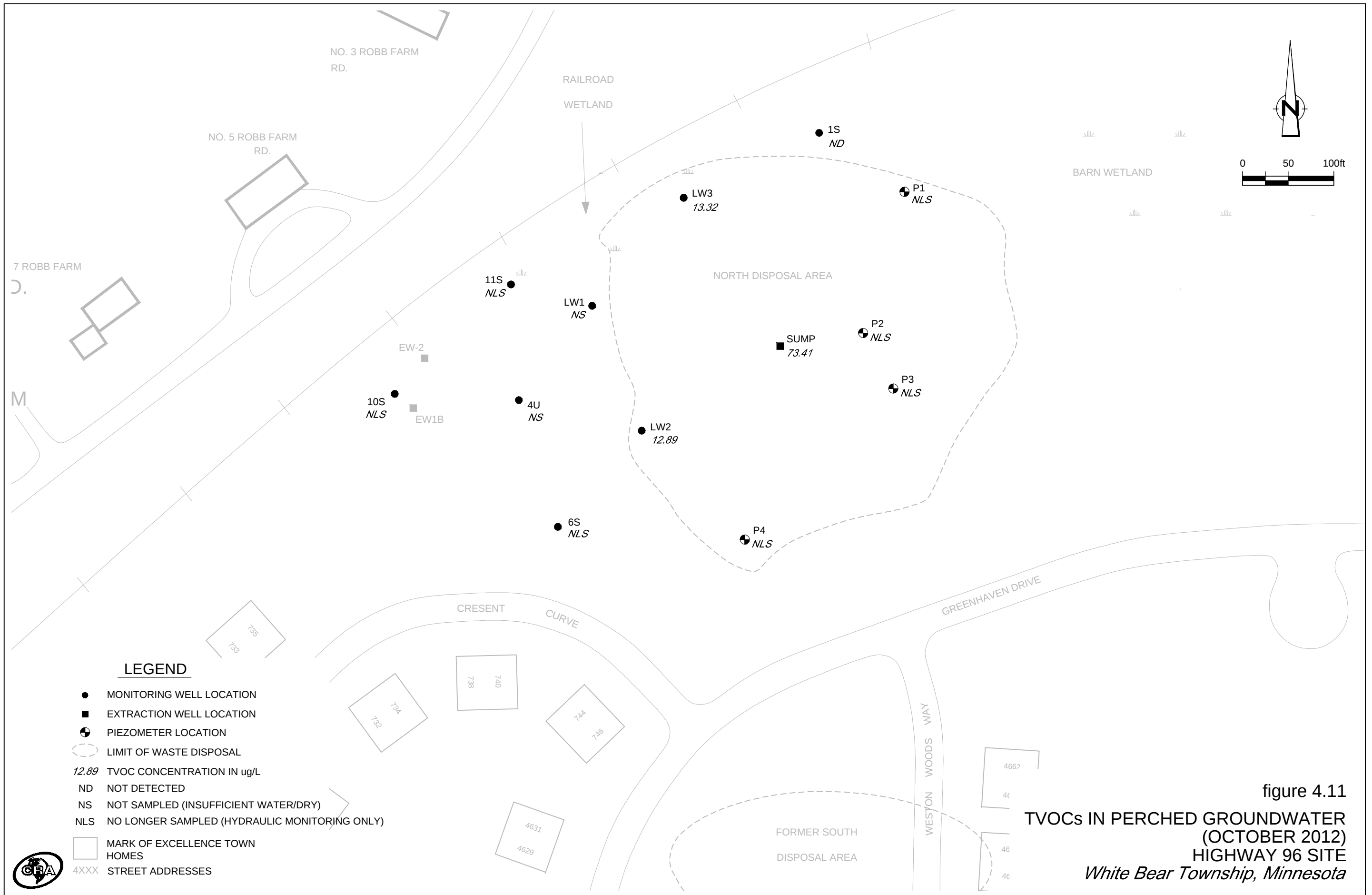


FIGURE 4.10
TOTAL VOC CONCENTRATIONS
MW17L
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA





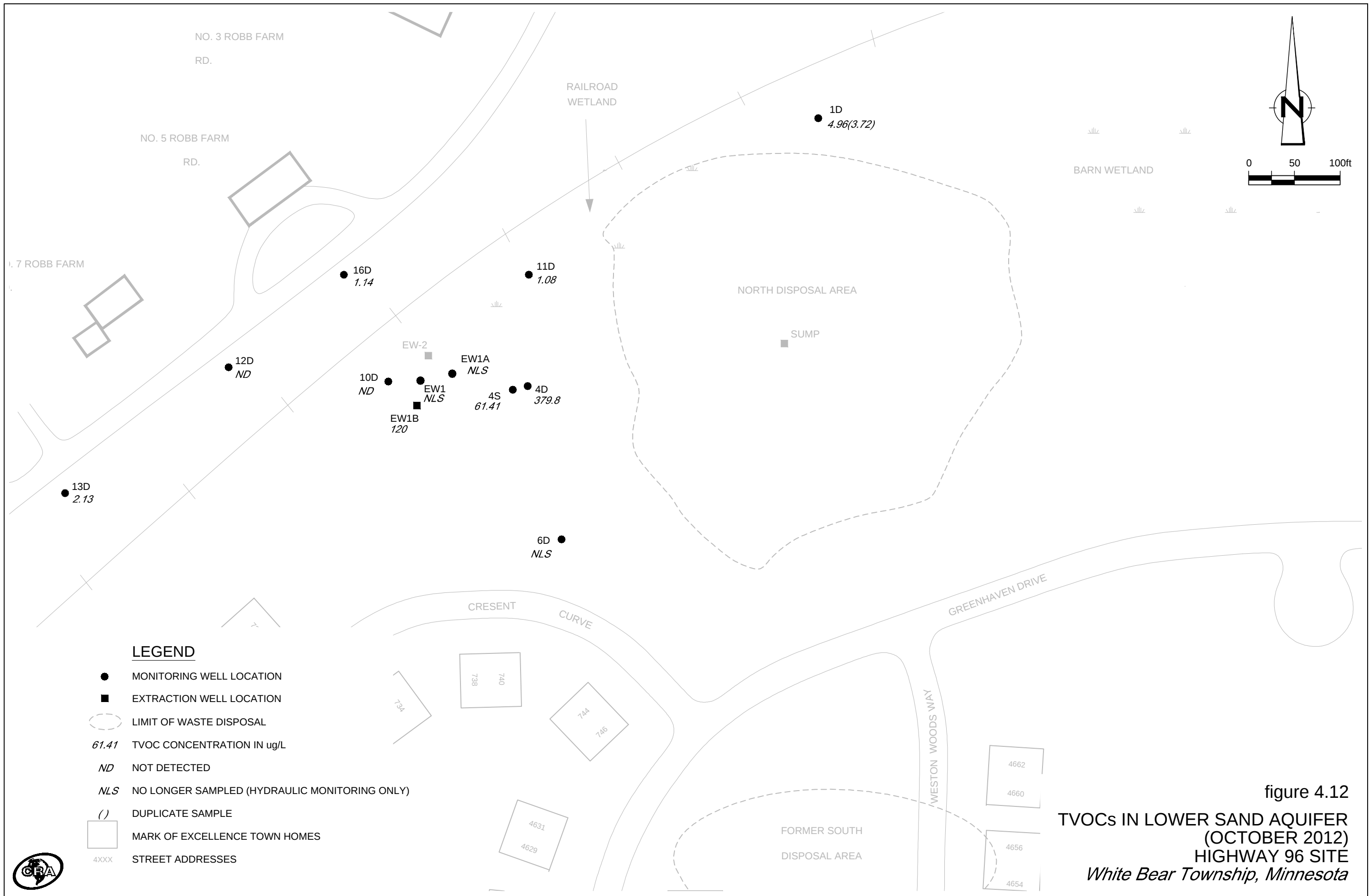


figure 4.12
 TVOCs IN LOWER SAND AQUIFER
 (OCTOBER 2012)
 HIGHWAY 96 SITE
 White Bear Township, Minnesota



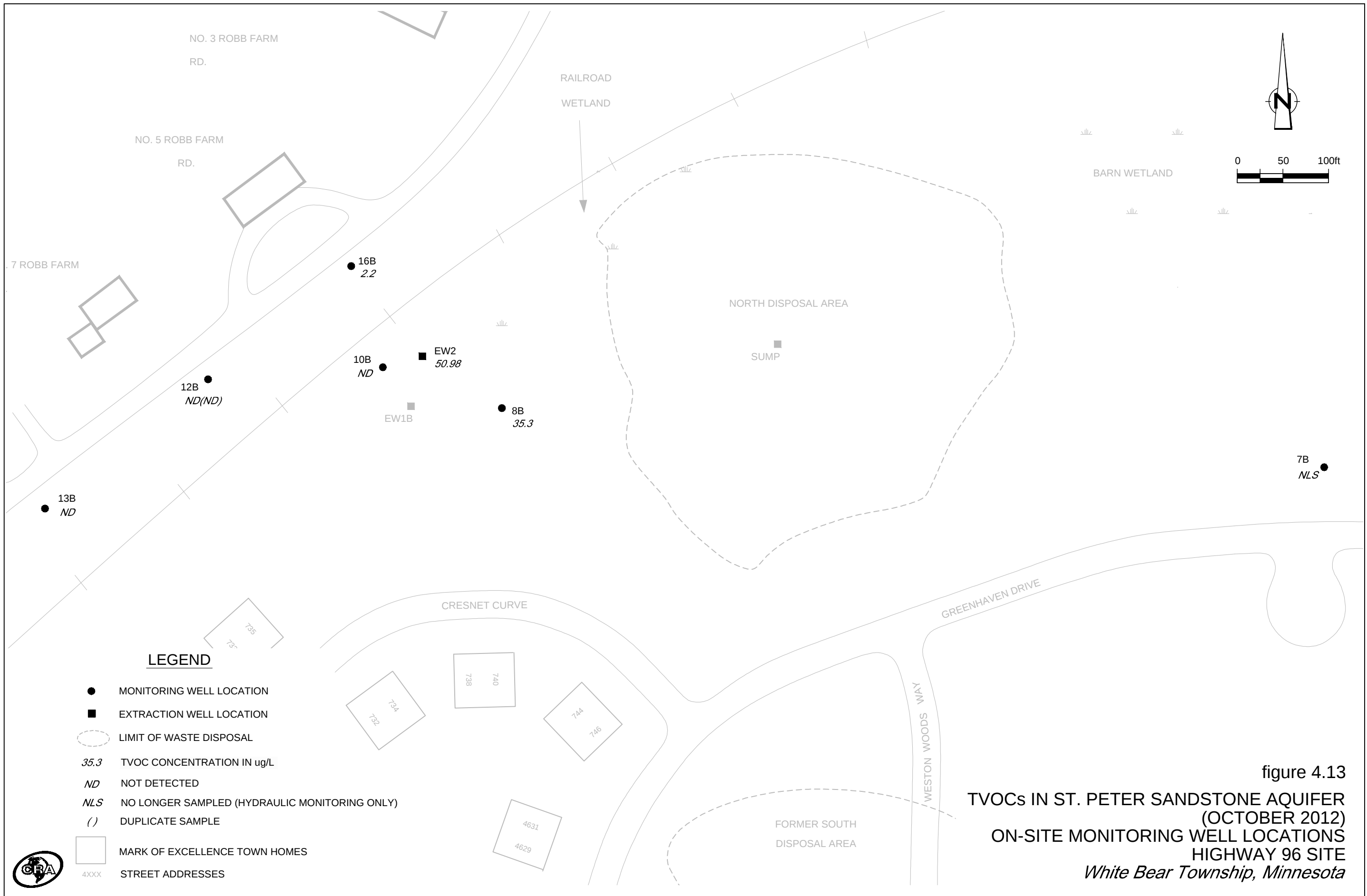
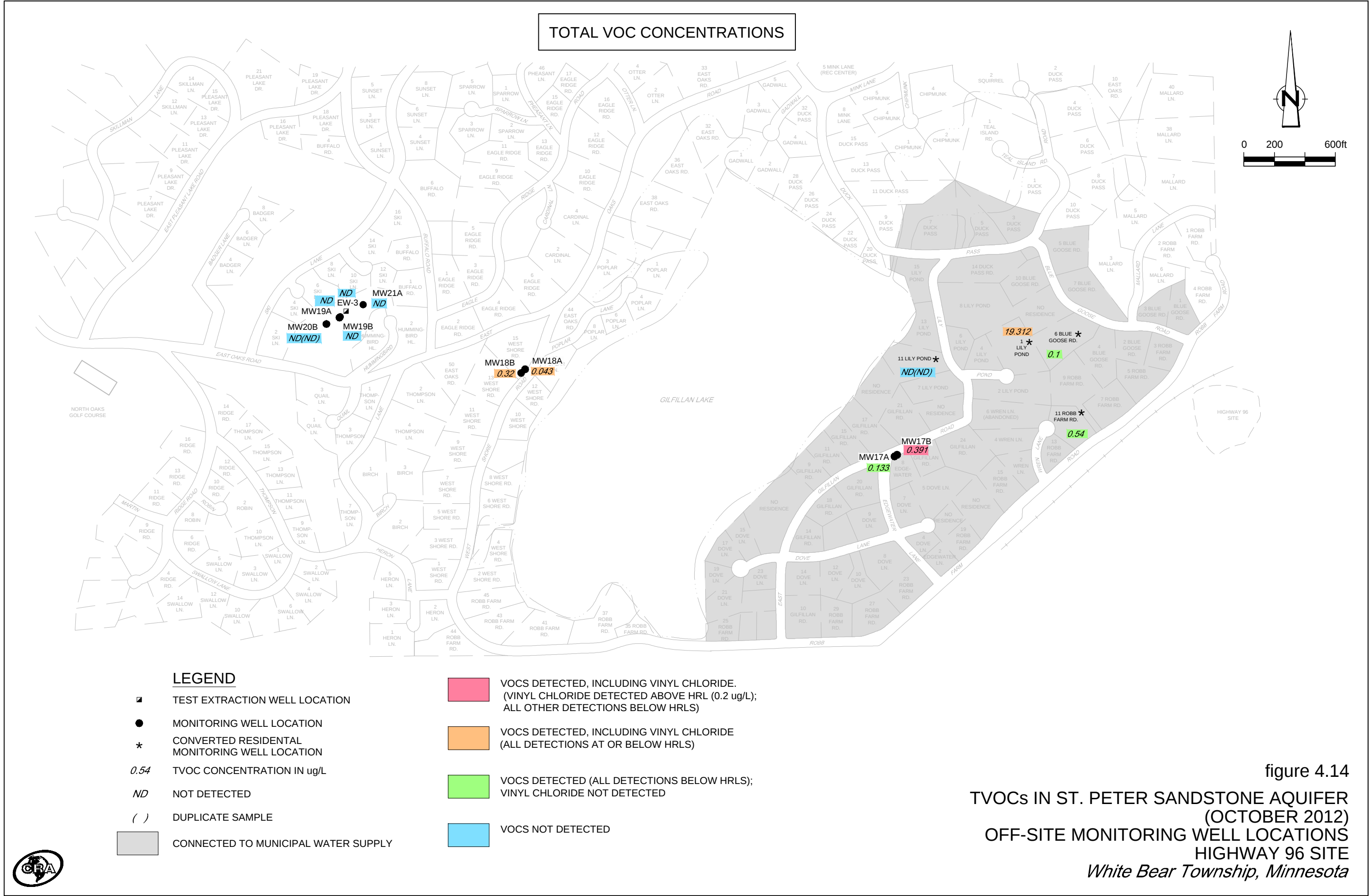
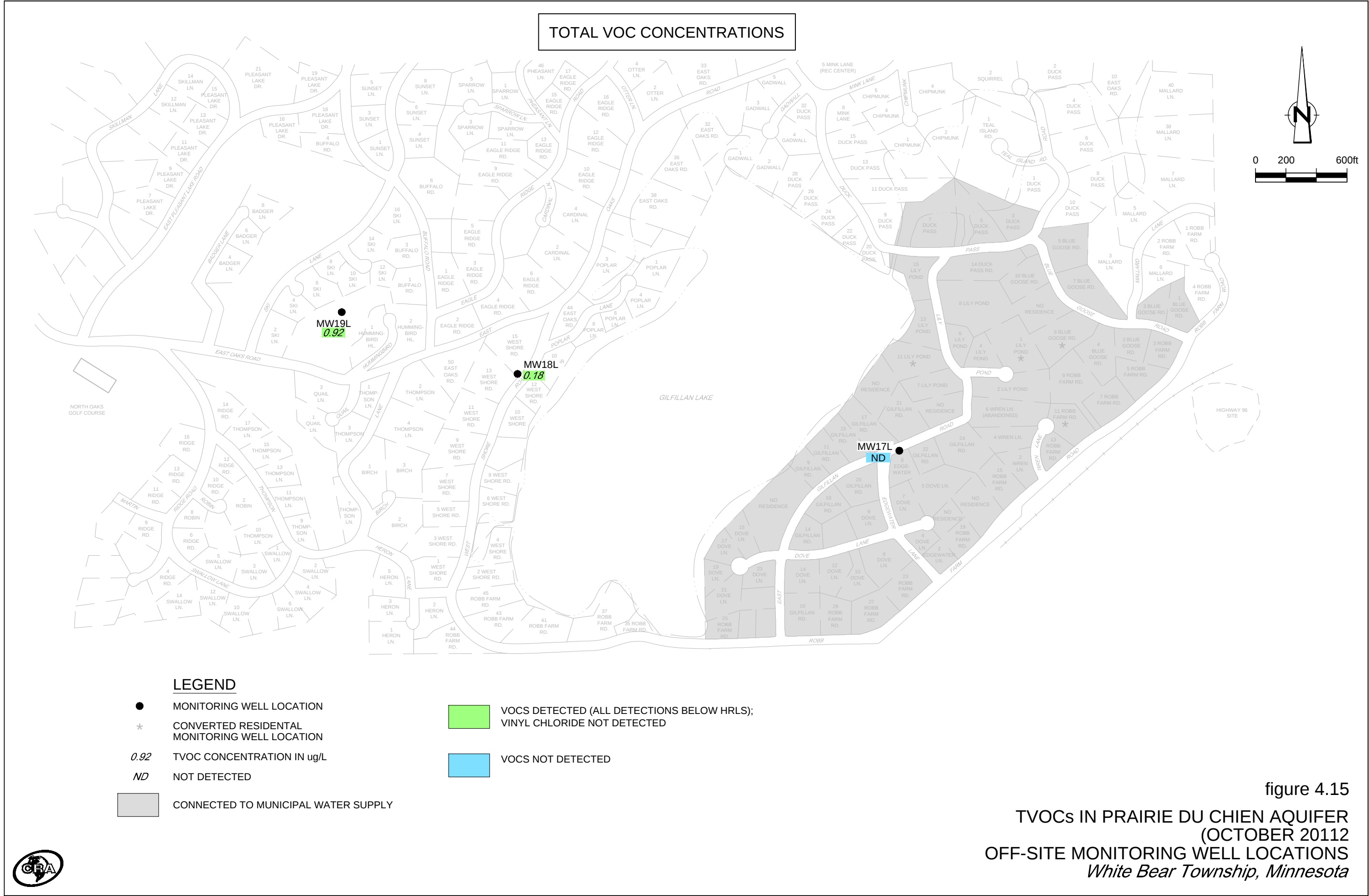
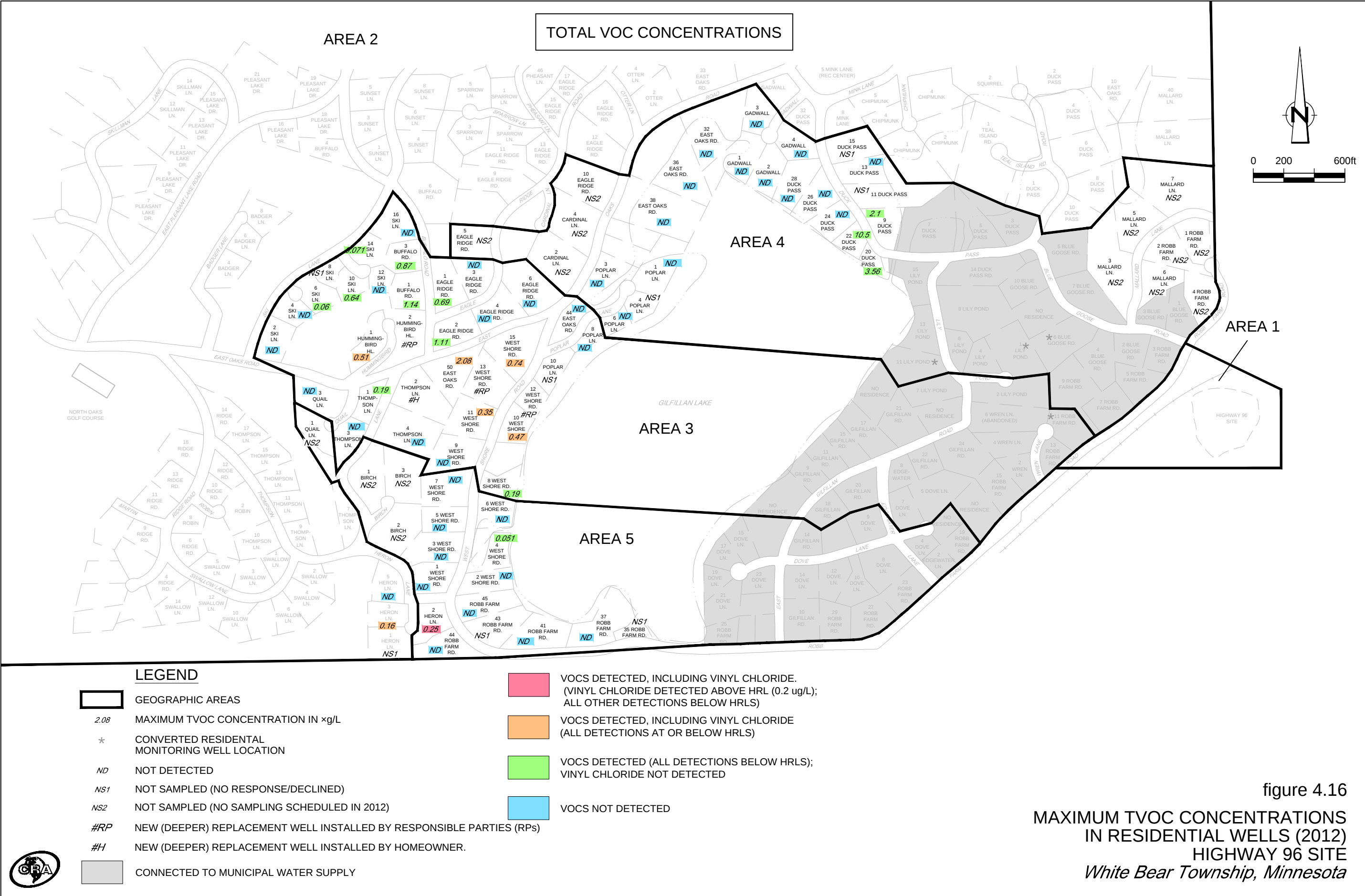


figure 4.13
 TVOCs IN ST. PETER SANDSTONE AQUIFER
 (OCTOBER 2012)
 ON-SITE MONITORING WELL LOCATIONS
 HIGHWAY 96 SITE
White Bear Township, Minnesota







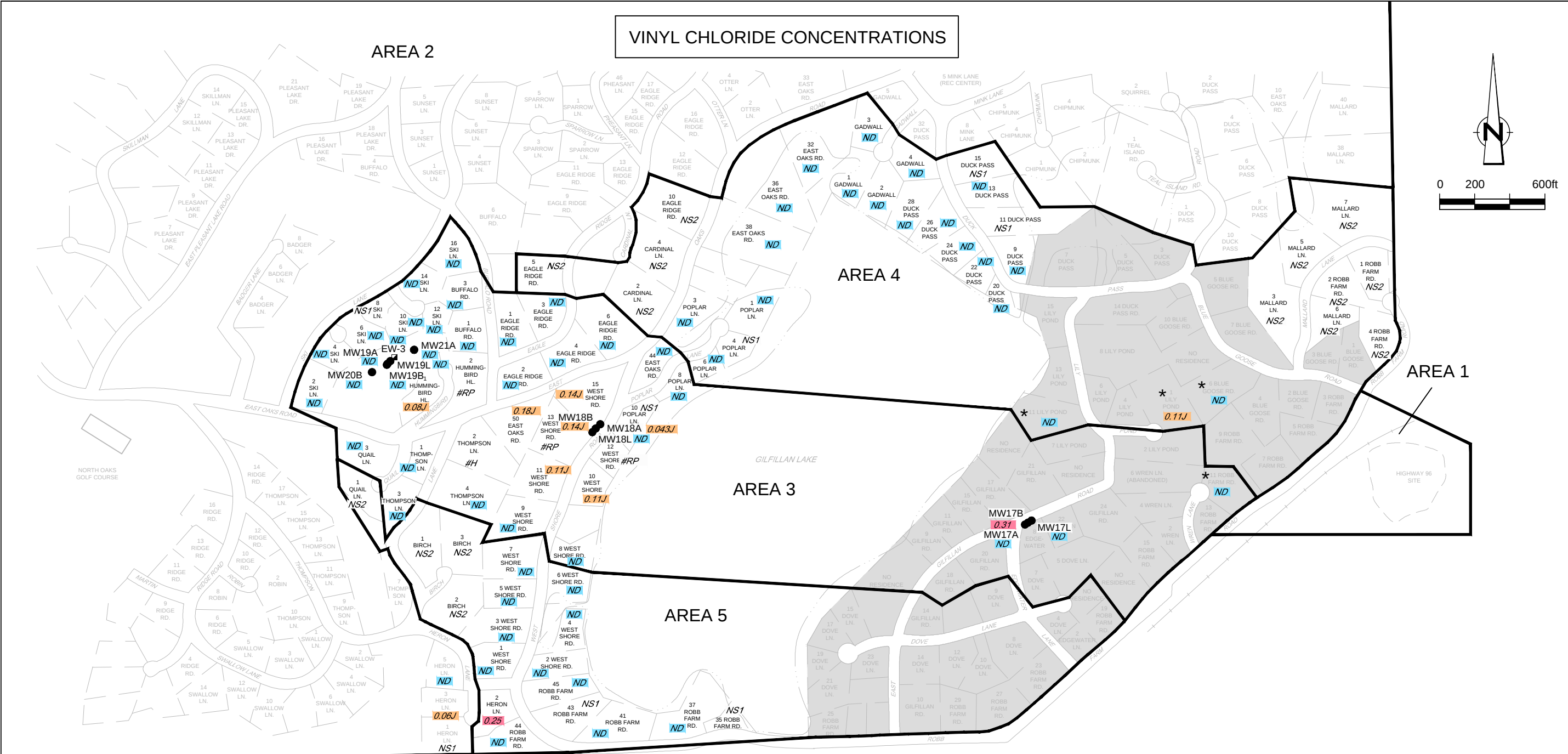


figure 4.17

MAXIMUM VINYL CHLORIDE CONCENTRATIONS
IN OFF-SITE MONITORING WELL AND RESIDENTIAL WELL LOCATIONS (2012)
HIGHWAY 96 SITE
White Bear Township, Minnesota



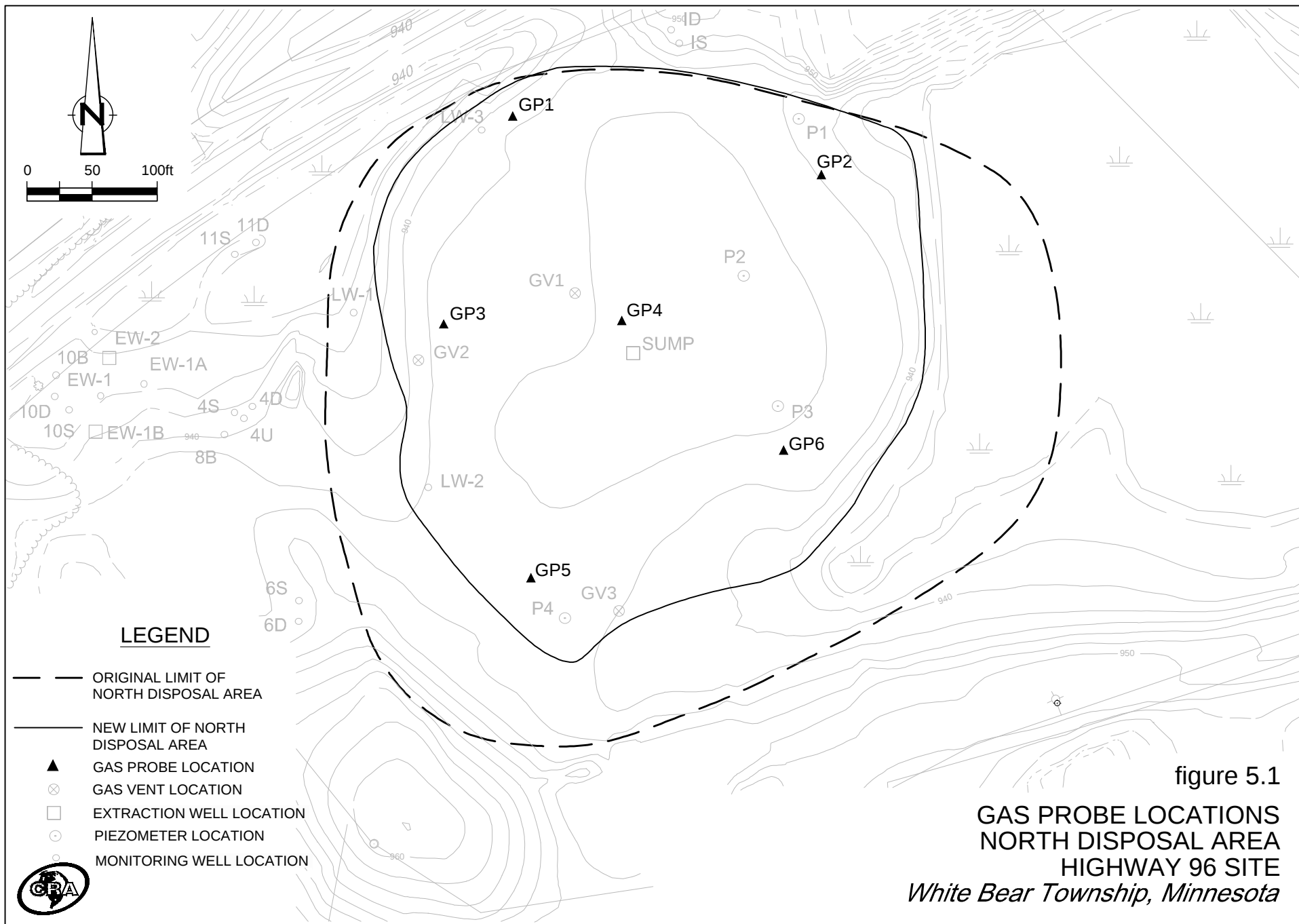


FIGURE 5.2
% COMBUSTIBLE GAS CONCENTRATIONS
GP1
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

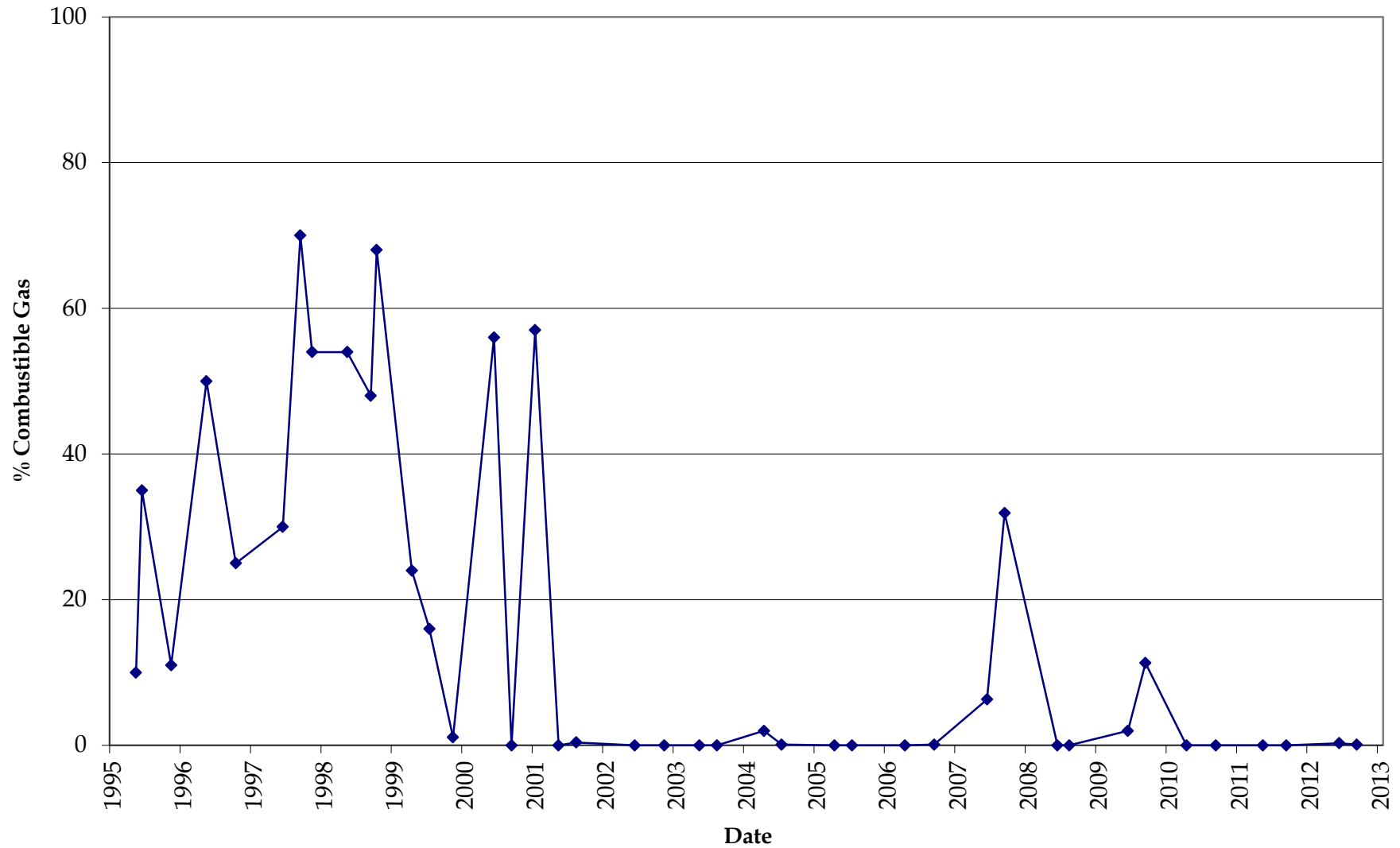


FIGURE 5.3
% COMBUSTIBLE GAS CONCENTRATIONS
GP2
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

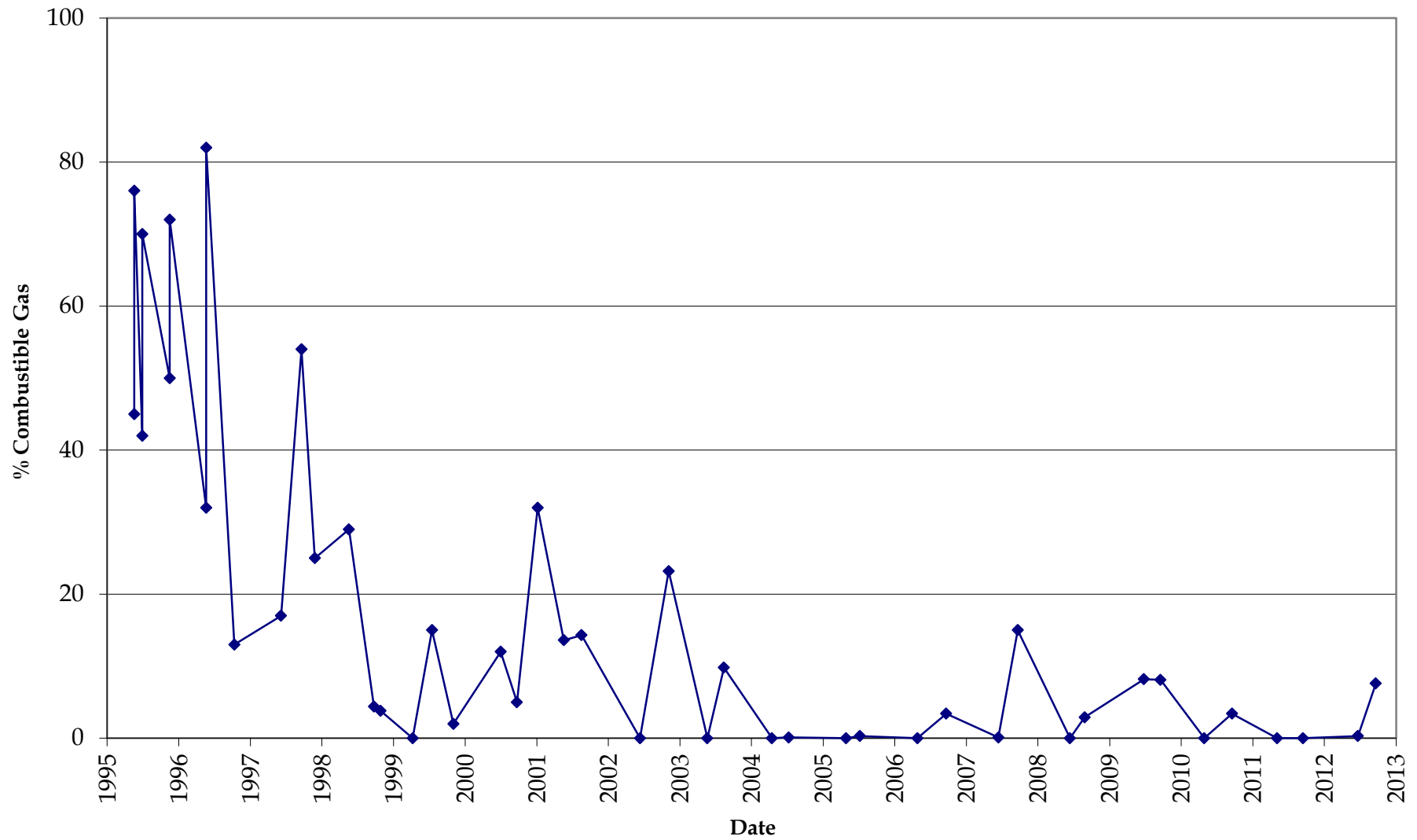


FIGURE 5.4
% COMBUSTIBLE GAS CONCENTRATIONS
GP3
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

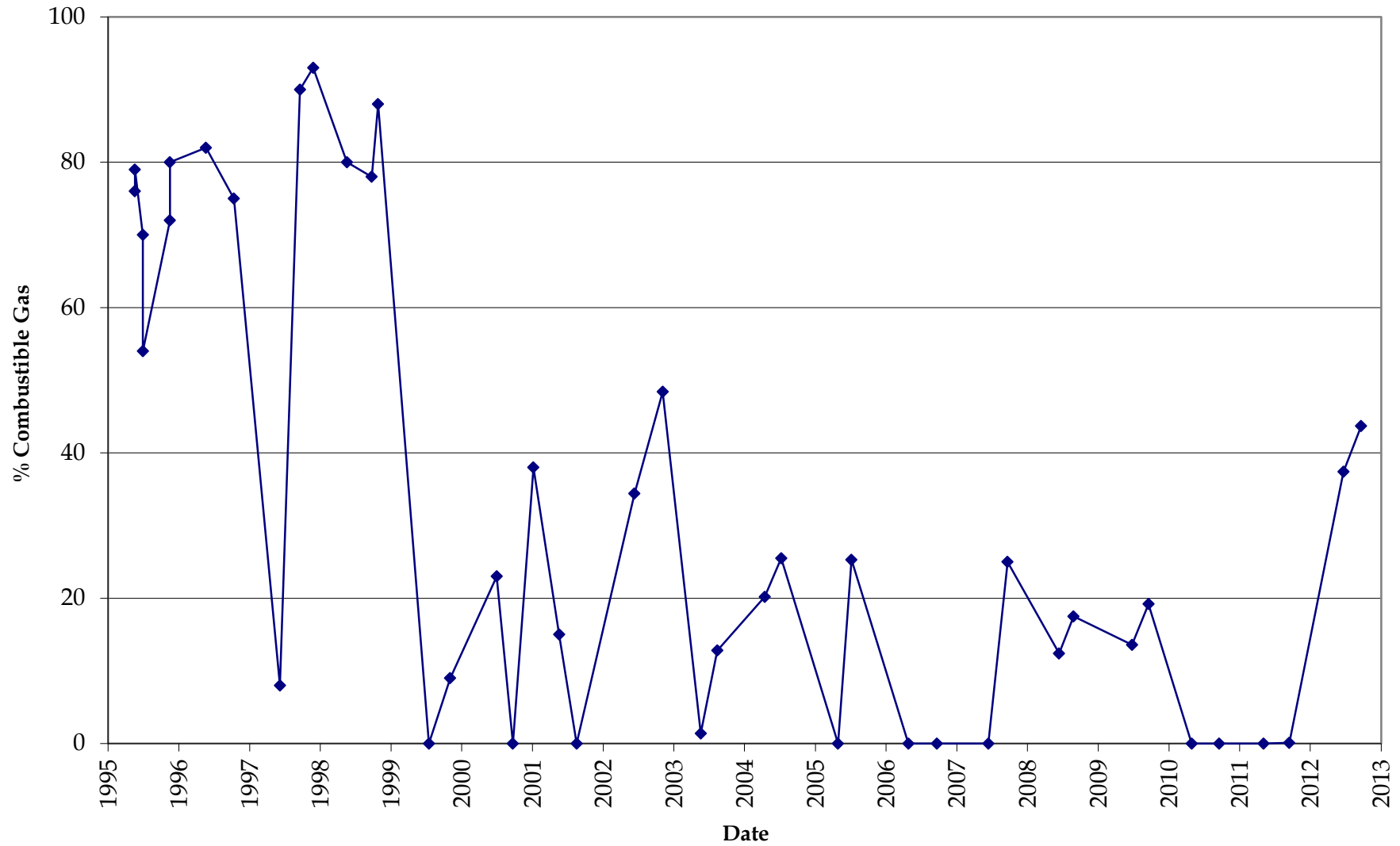


FIGURE 5.5
% COMBUSTIBLE GAS CONCENTRATIONS
GP4
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

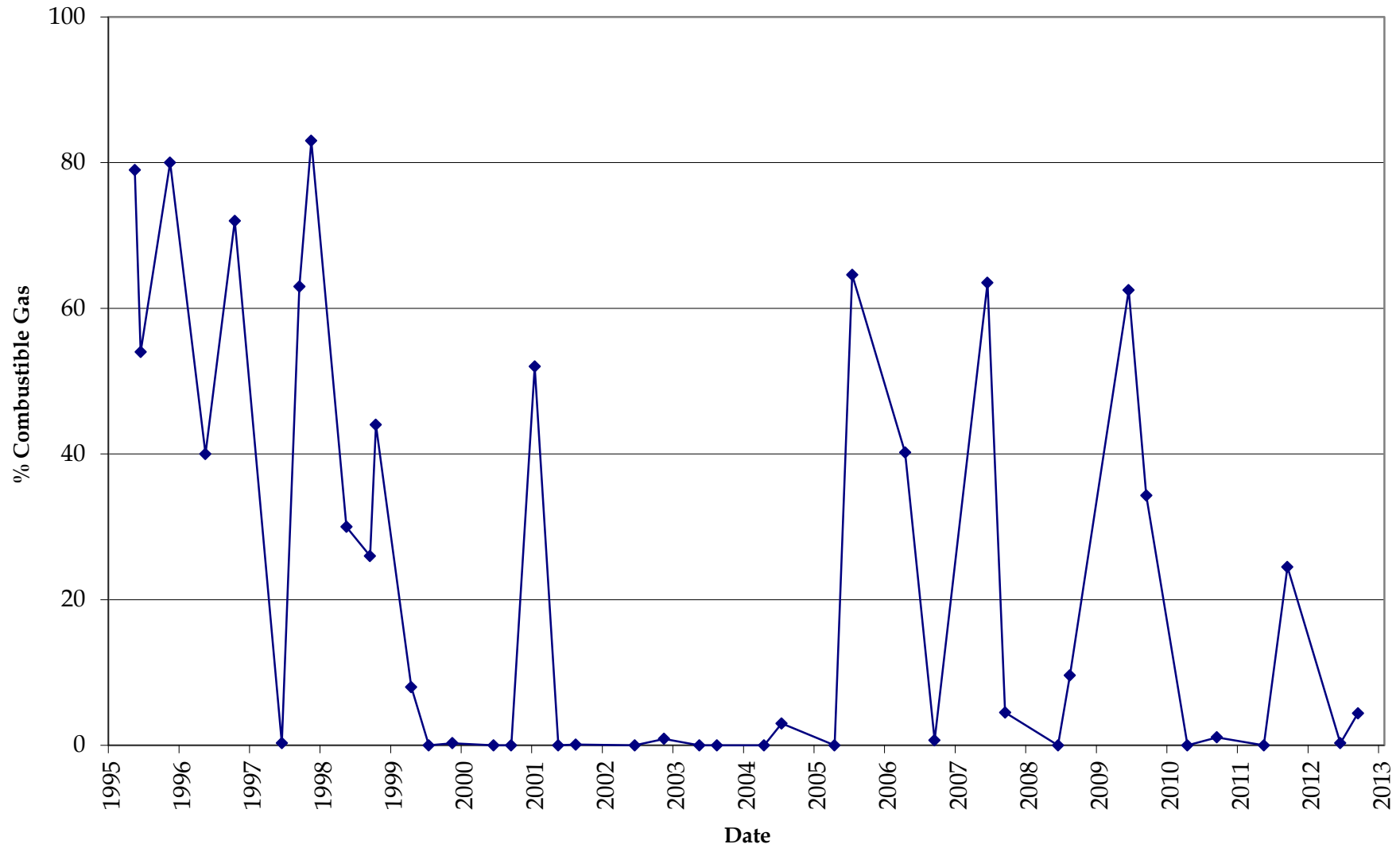


FIGURE 5.6
% COMBUSTIBLE GAS CONCENTRATIONS
GP5
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

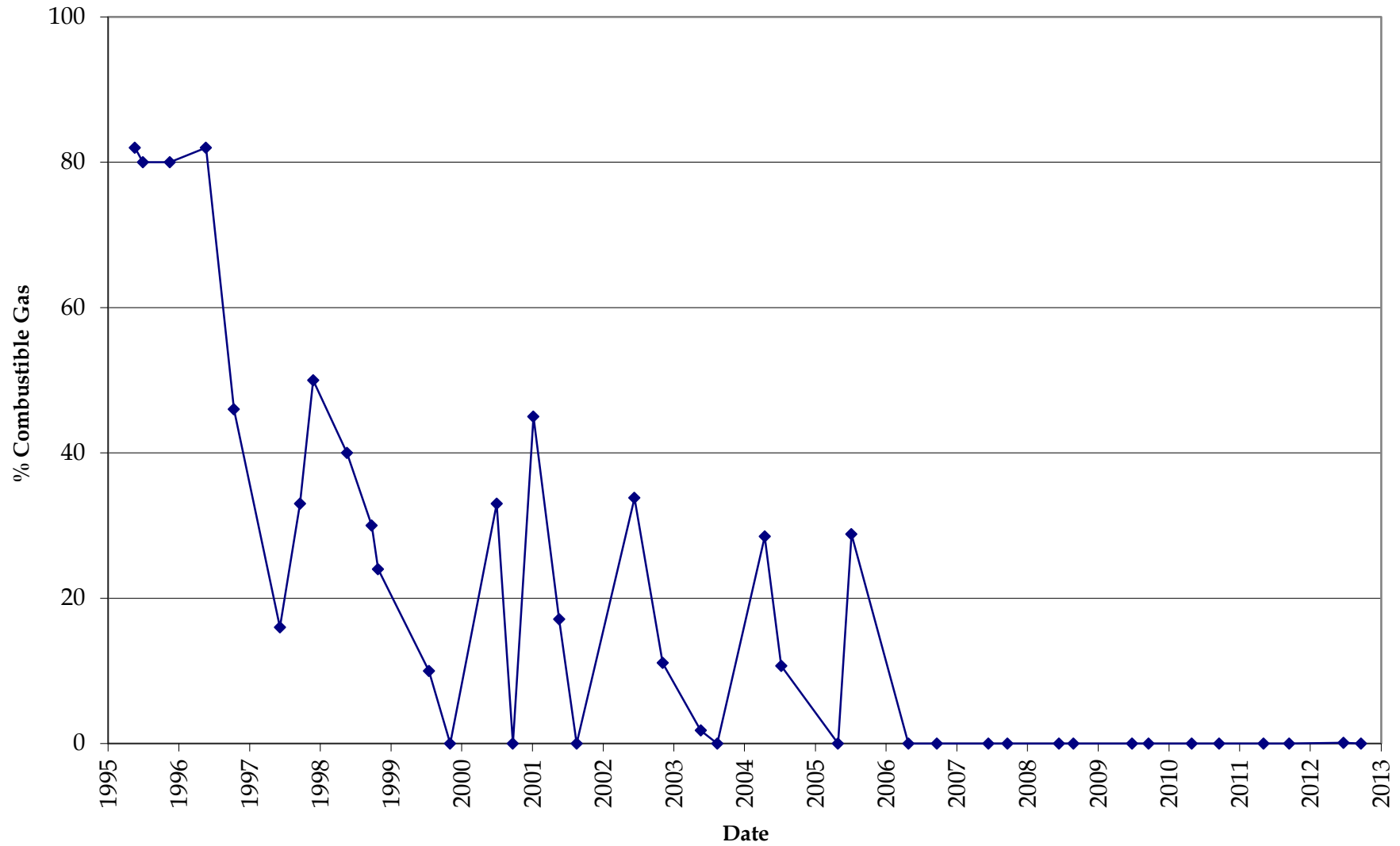


FIGURE 5.7
% COMBUSTIBLE GAS CONCENTRATIONS
GP6
HIGHWAY 96 SITE
WHITE BEAR TOWNSHIP, MINNESOTA

