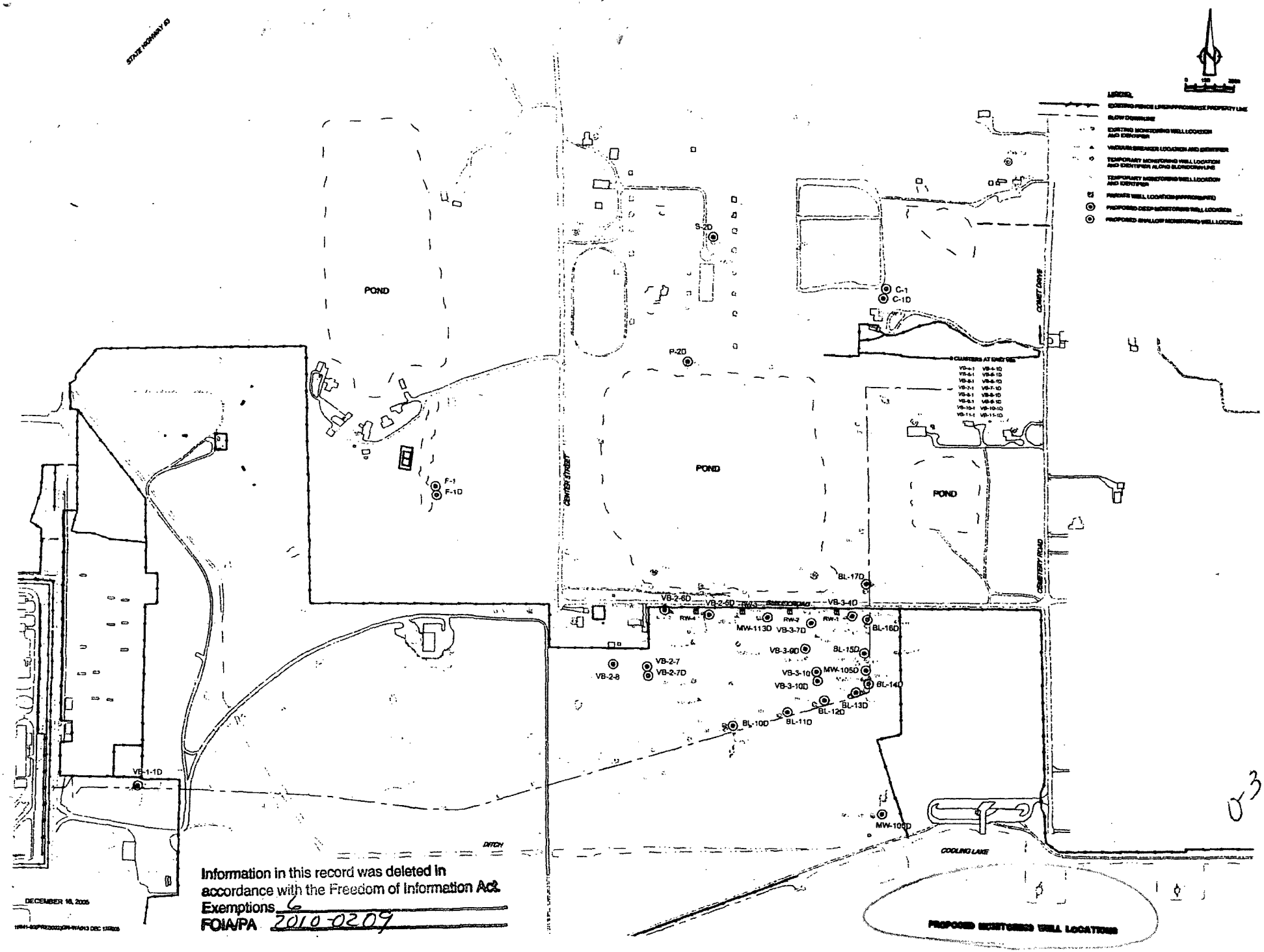
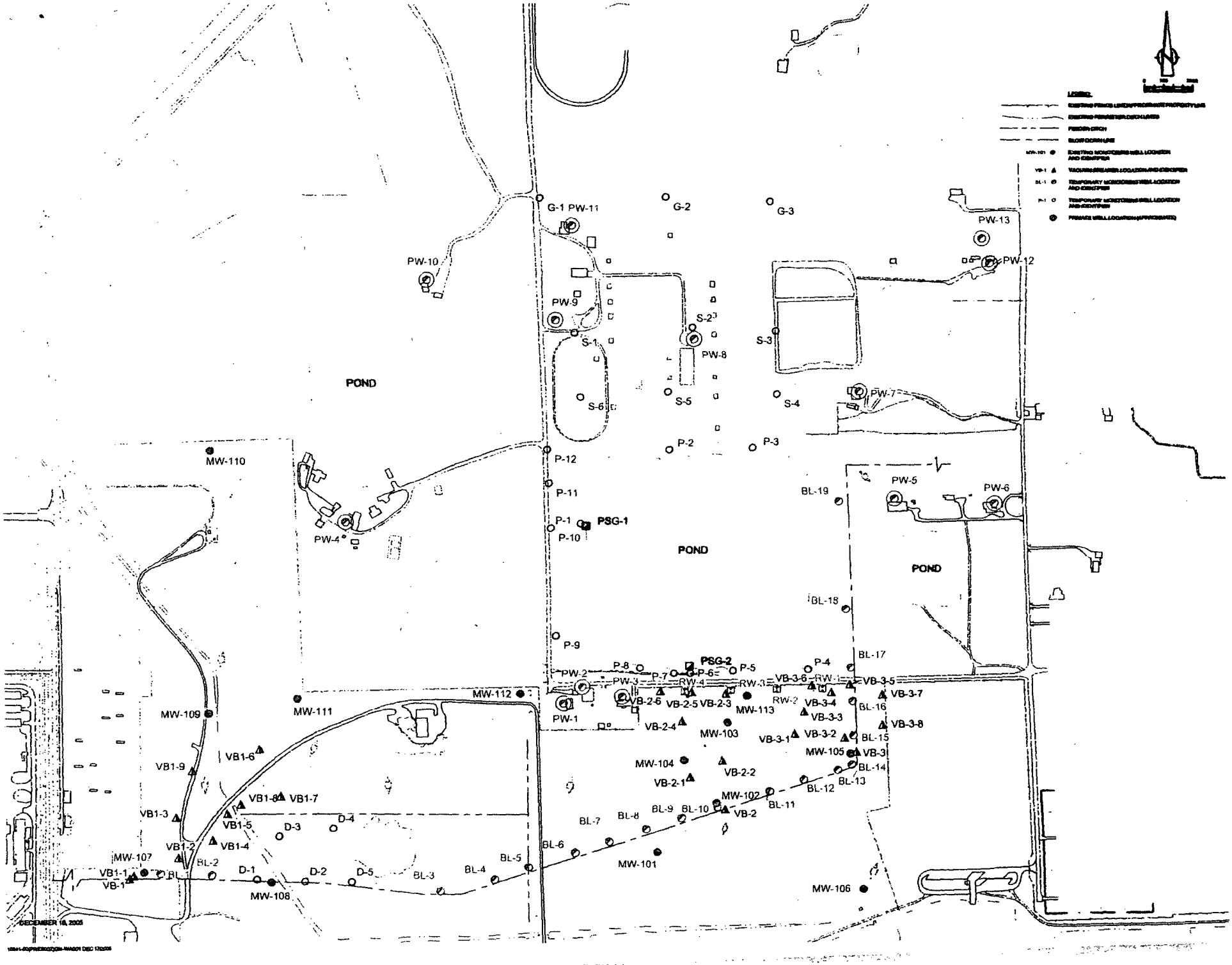
12/16/06

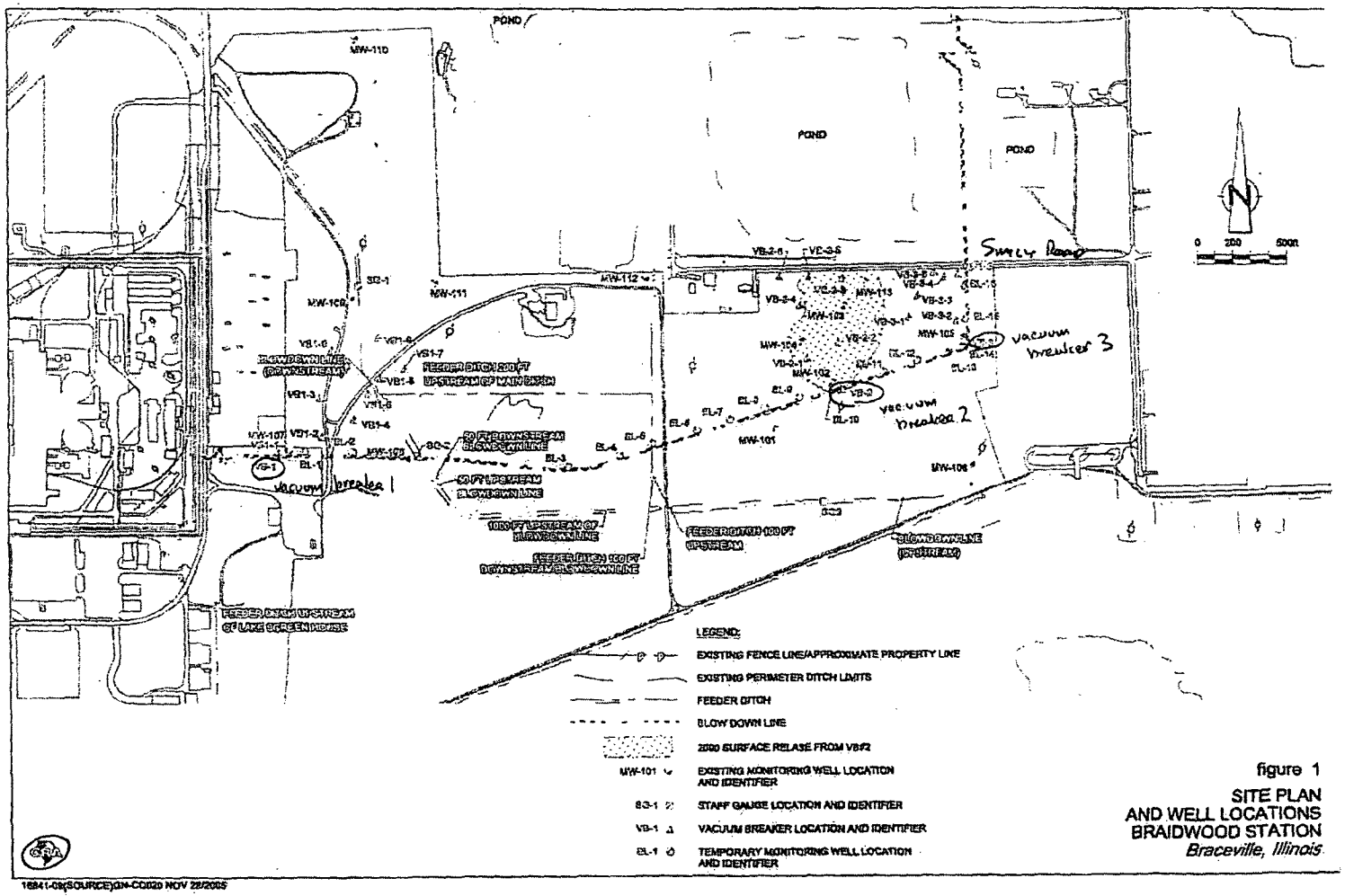


Information in this record was deleted in accordance with the Freedom of Information Act.
Exemptions 6
FOIA/PA 2010-0209

0-3


POND
POND
POND
G-1
PW-11
G-2
G-3
PW-13
PW-12
PW-10
PW-9
S-1
S-2
PW-8
S-3
S-4
S-5
S-6
PW-7
P-2
P-3
P-12
P-11
P-1
PSG-1
P-10
PW-4
MW-110
PW-5
PW-6
BL-19
BL-18
BL-17
P-9
P-8
PSG-2
P-7
P-6
P-5
P-4
PW-2
PW-3
RW-4
RW-3
VB-3-6
RW-1
VB-3-5
VB-3-7
VB-2-6
VB-2-5
VB-2-3
RW-2
VB-3-4
BL-16
PW-1
VB-2-4
MW-113
VB-3-3
VB-3-8
MW-103
VB-3-1
VB-3-2
BL-15
MW-105
VB-3
MW-104
VB-2-2
BL-14
VB-2-1
BL-13
MW-102
BL-12
BL-11
VB-2
BL-10
BL-9
BL-8
BL-7
BL-6
MW-101
MW-106
MW-112
MW-111
MW-109
VB1-6
VB1-9
VB1-8
VB1-7
VB1-3
VB1-5
D-3
D-4
VB1-2
VB1-4
MW-107
BL-2
VB1-1
VB-1
BL-1
D-1
D-2
D-5
BL-3
BL-4
BL-5
MW-108
DECEMBER 16, 2005

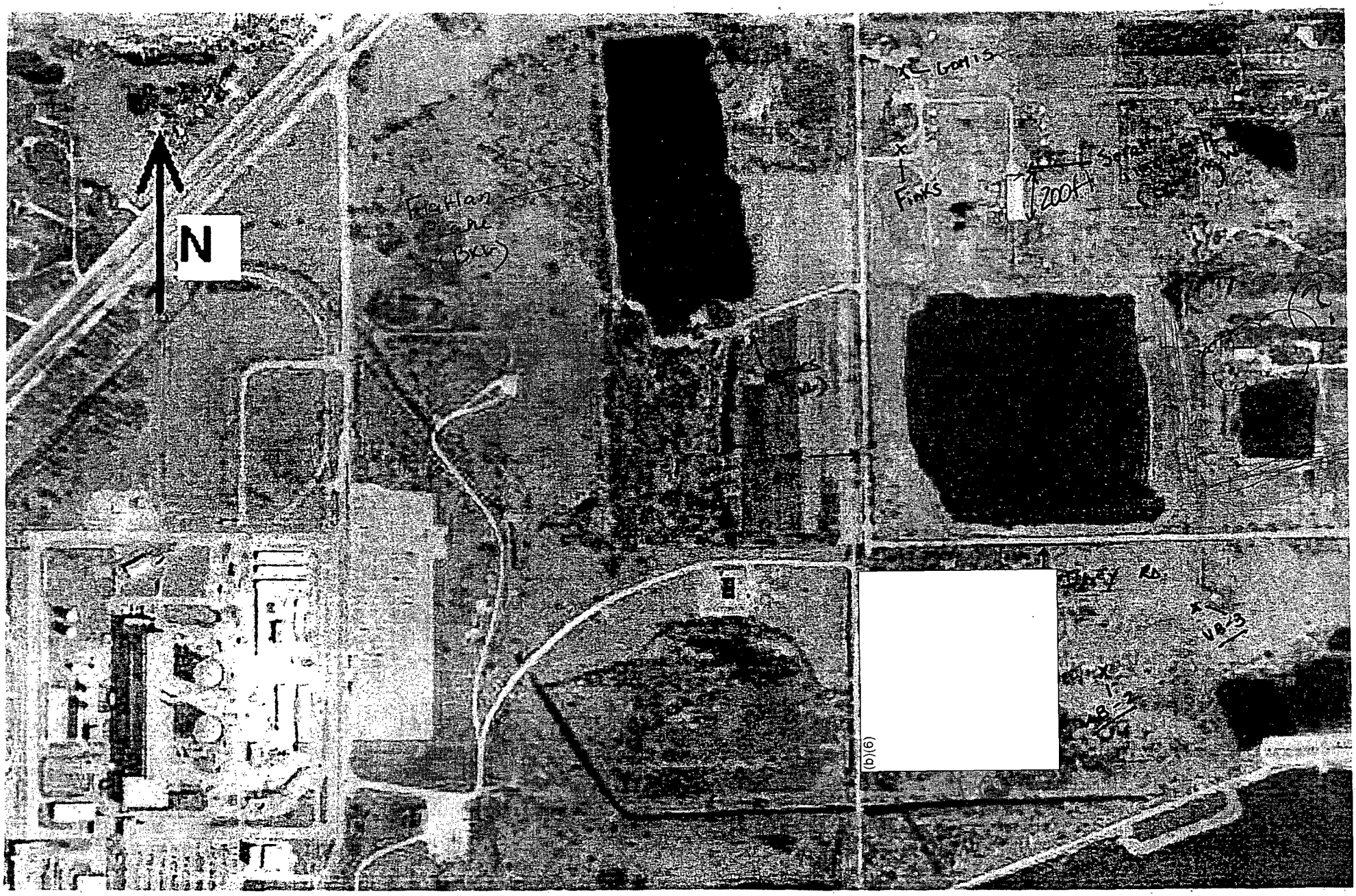
River



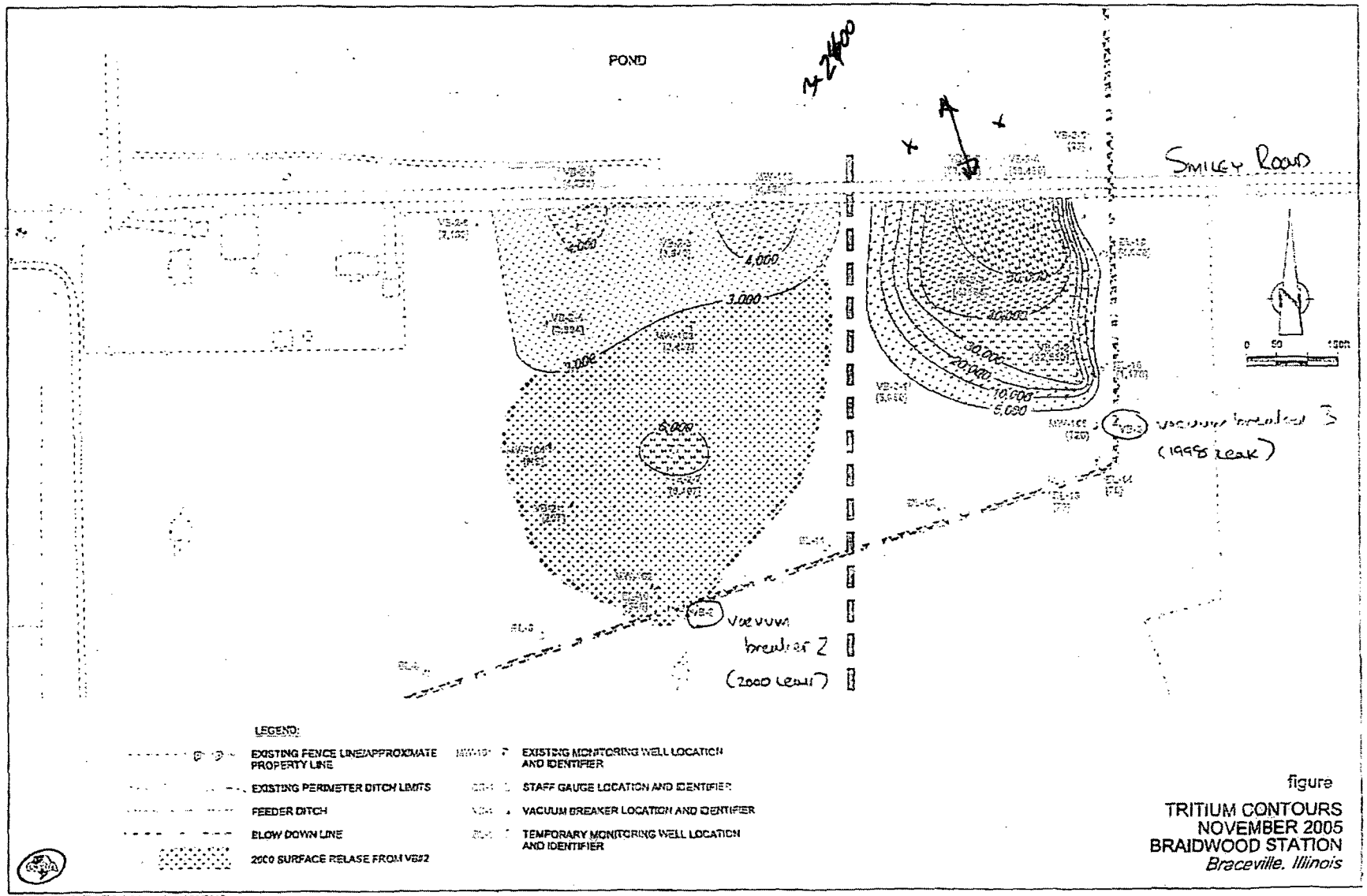
16841-08(SOURCE)GN-CD020 NOV 28/2005

figure 1
SITE PLAN
AND WELL LOCATIONS
BRAIDWOOD STATION
Braceville, Illinois

LAKE



946



figure

TRITIUM CONTOURS
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois

18241-09(SOURCE)GN-CD021 NOV 28/2005

2005 Sept

Note: off-property locations are approximate

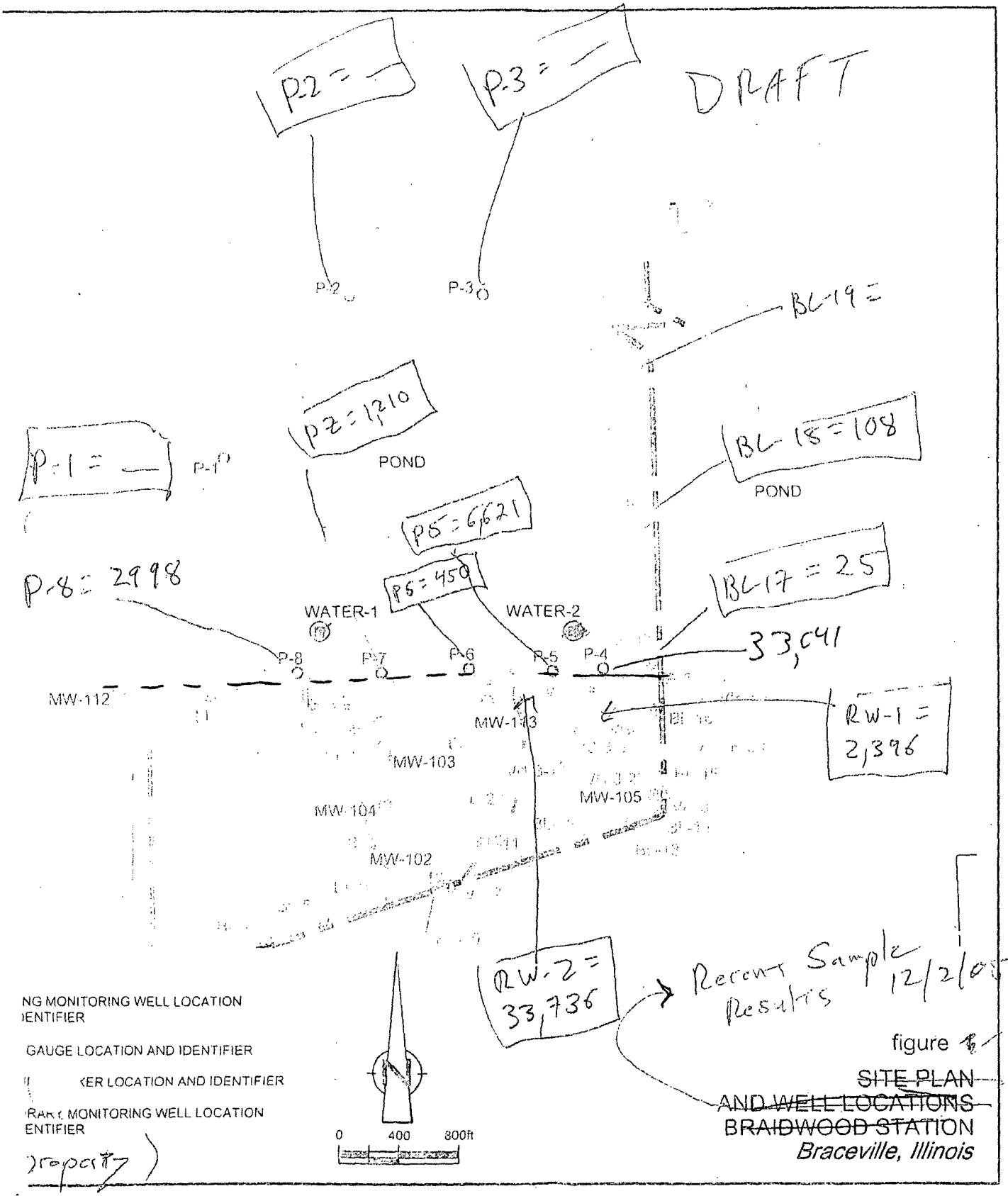


figure ~~8~~ 6

~~SITE PLAN~~
~~AND WELL LOCATIONS~~
~~BRAIDWOOD STATION~~
Braceville, Illinois

Offsite sample results as of 12/3/05.

Fatlan personal pond ~1800' west of undeveloped pond is at background tritium levels

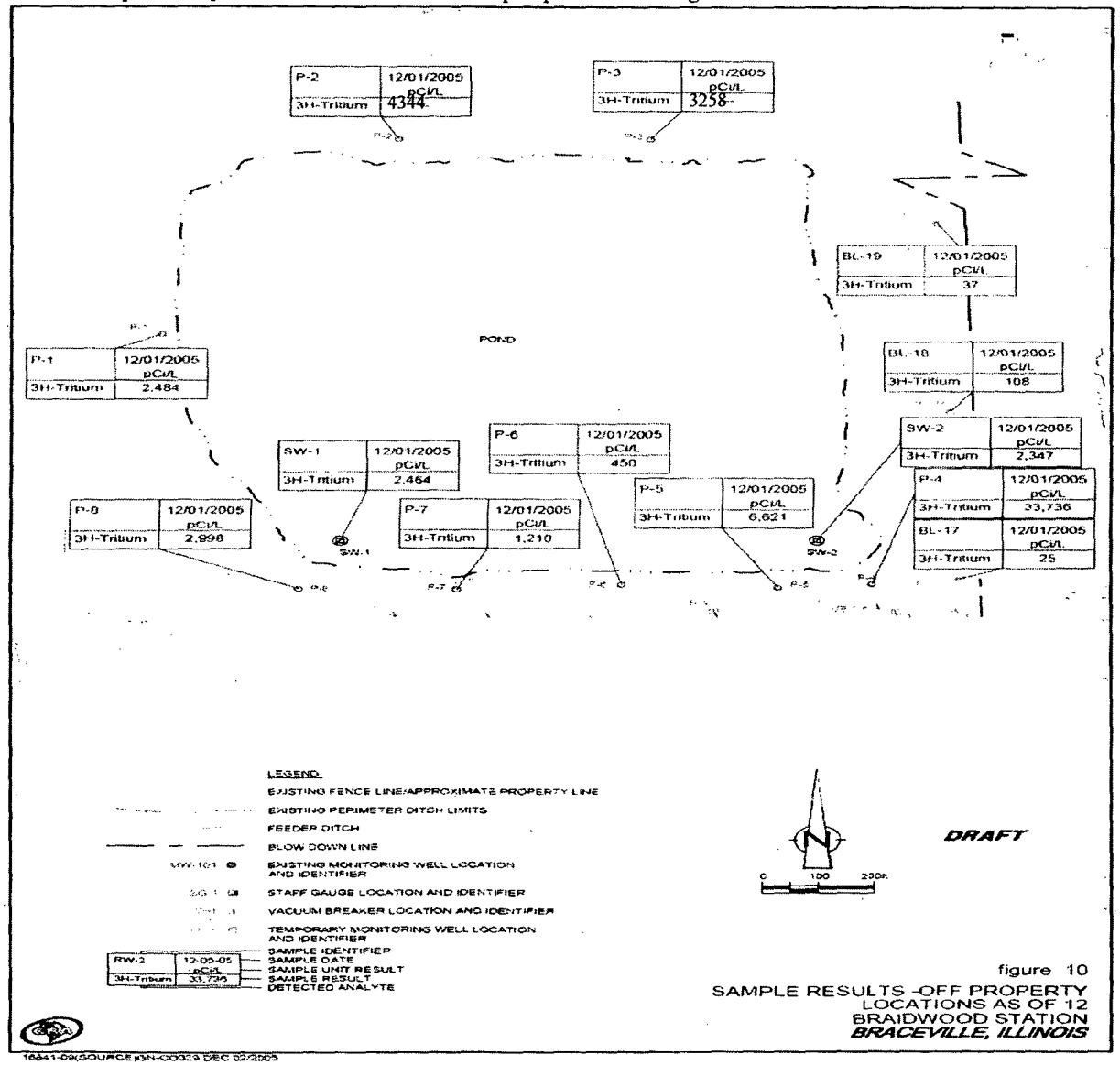
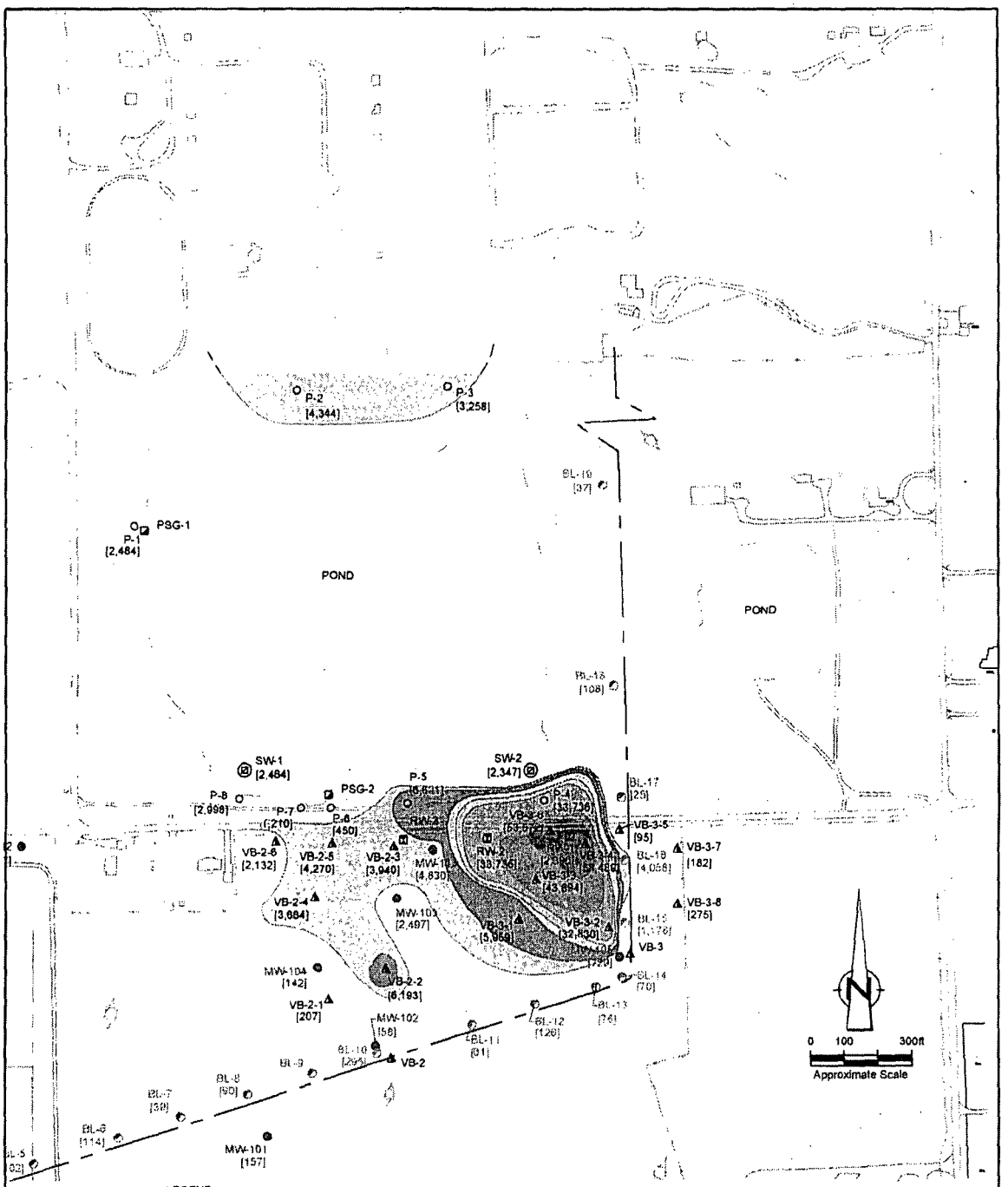


figure 10
SAMPLE RESULTS -OFF PROPERTY LOCATIONS AS OF 12
BRAIDWOOD STATION
BRACEVILLE, ILLINOIS



LEGEND:

- EXISTING FENCE LINE/APPROXIMATE PROPERTY LINE
- EXISTING PERIMETER DITCH LIMITS
- FEEDER DITCH
- BLOW DOWN LINE
- MW-101 EXISTING MONITORING WELL LOCATION AND IDENTIFIER
- VB-1 VACUUM BREAKER LOCATION AND IDENTIFIER
- BL-1 TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER
- P-1 TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER
- [2,484] TRITIUM RESULT IN GROUNDWATER

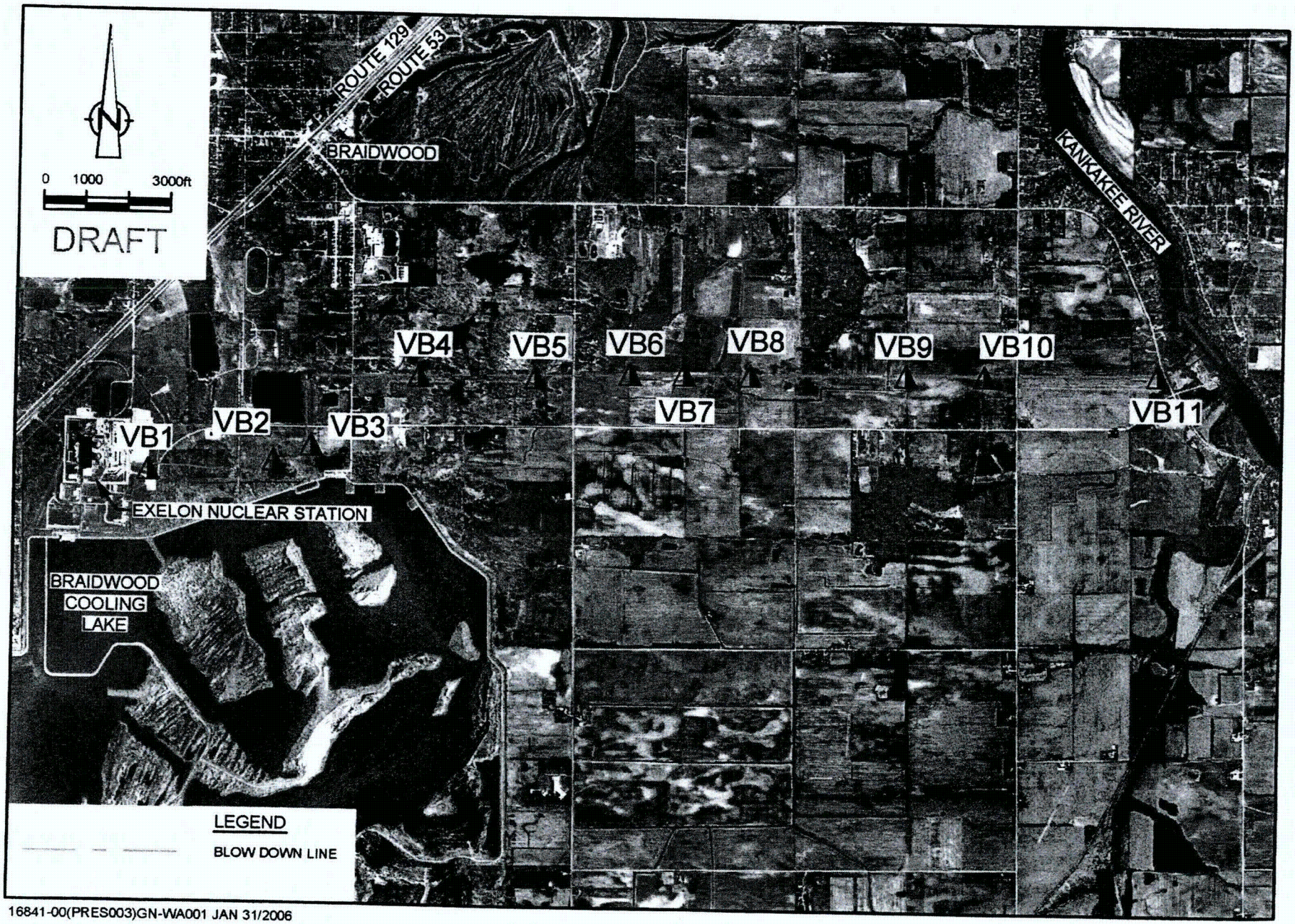
- TRITIUM RESULTS 50,000 (PICOCURRIES/LITER)
- TRITIUM RESULTS 40,000
- TRITIUM RESULTS 30,000
- TRITIUM RESULTS 20,000
- TRITIUM RESULTS 10,000
- TRITIUM RESULTS 5,000
- TRITIUM RESULTS 3,000

DRAFT

figure

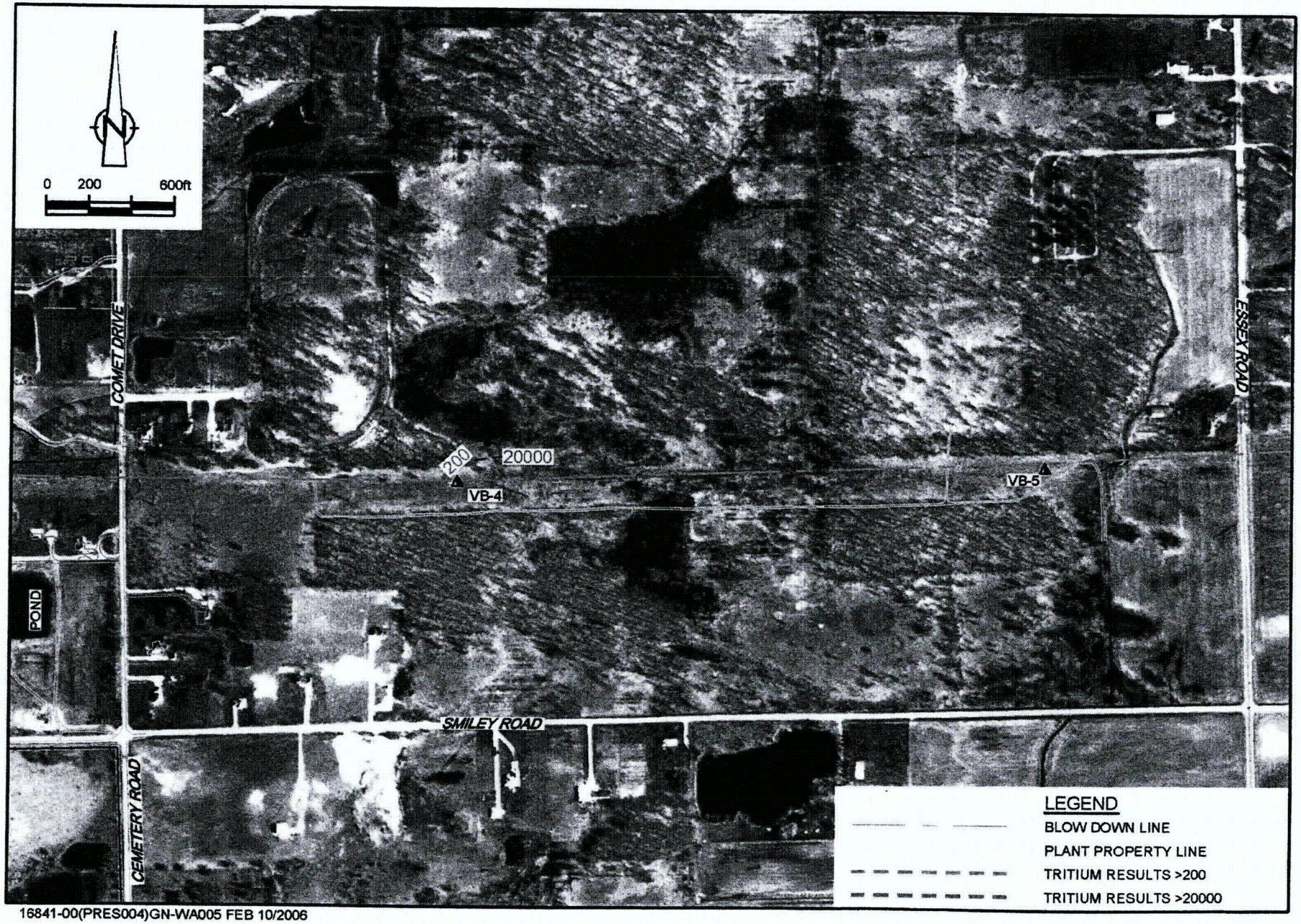
ESTIMATED TRITIUM CONCENTRATIONS
DECEMBER 6, 2005
BRAIDWOOD STATION
Braceville, Illinois

16841-09(DEC 06-05)GN-CO001 DEC 06/2005



16841-00(PRES003)GN-WA001 JAN 31/2006

16841-00(PRES004)GN-WA006 FEB 10/2006



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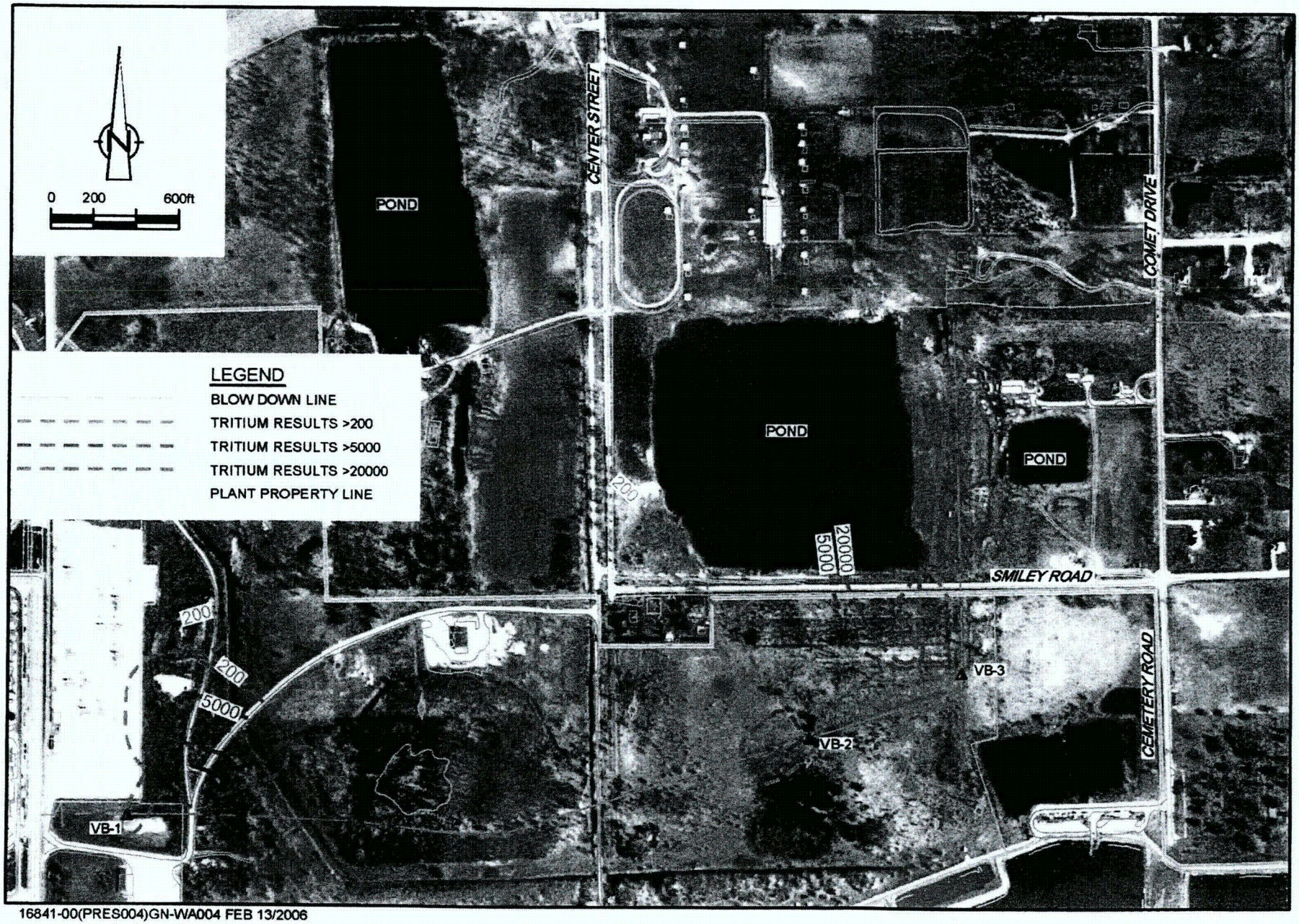
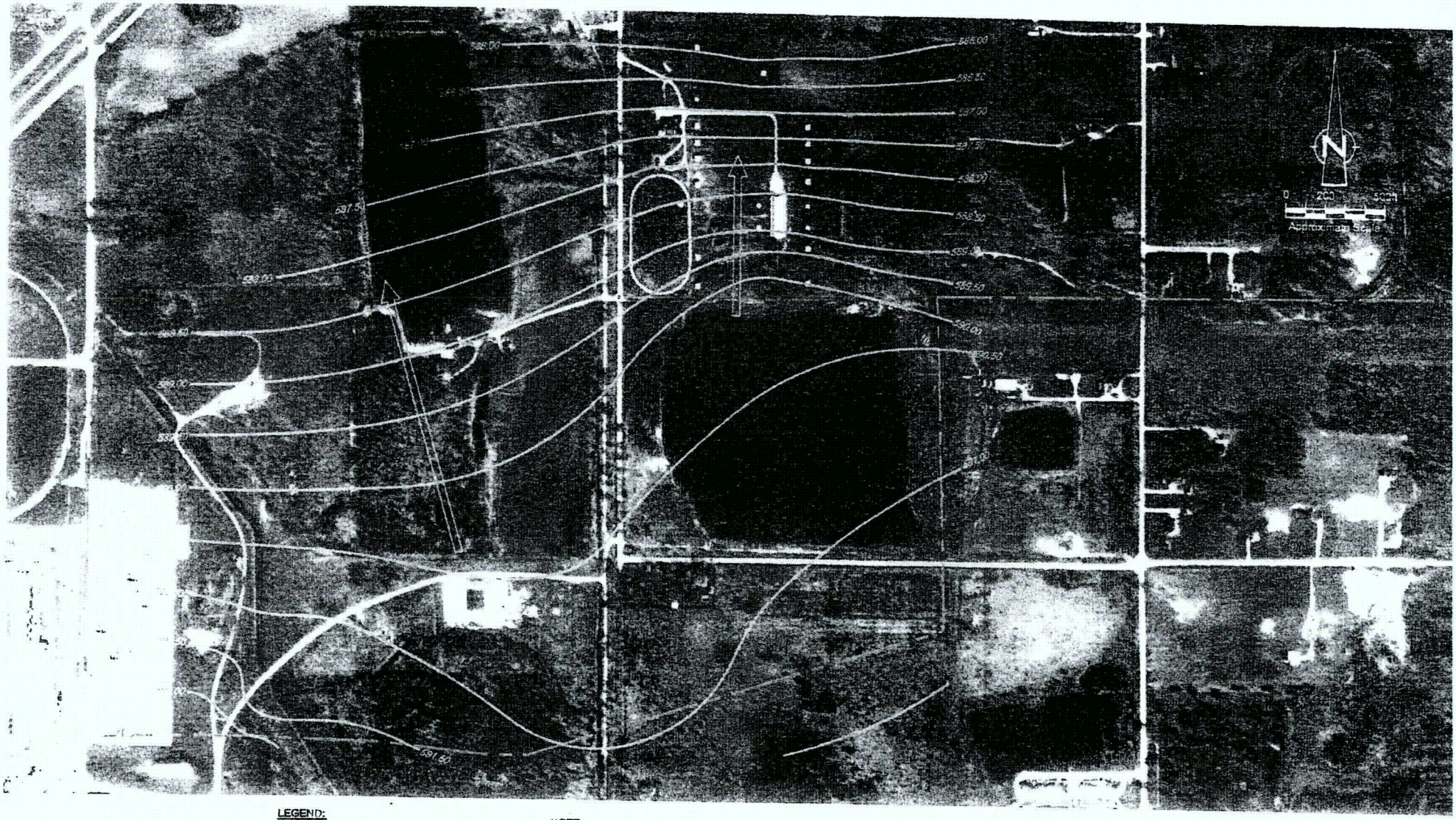


16841-00(PRES004)GN-WA004 FEB 13/2006



LEGEND:

BLOW DOWN LINE

586.00 GROUNDWATER CONTOURS

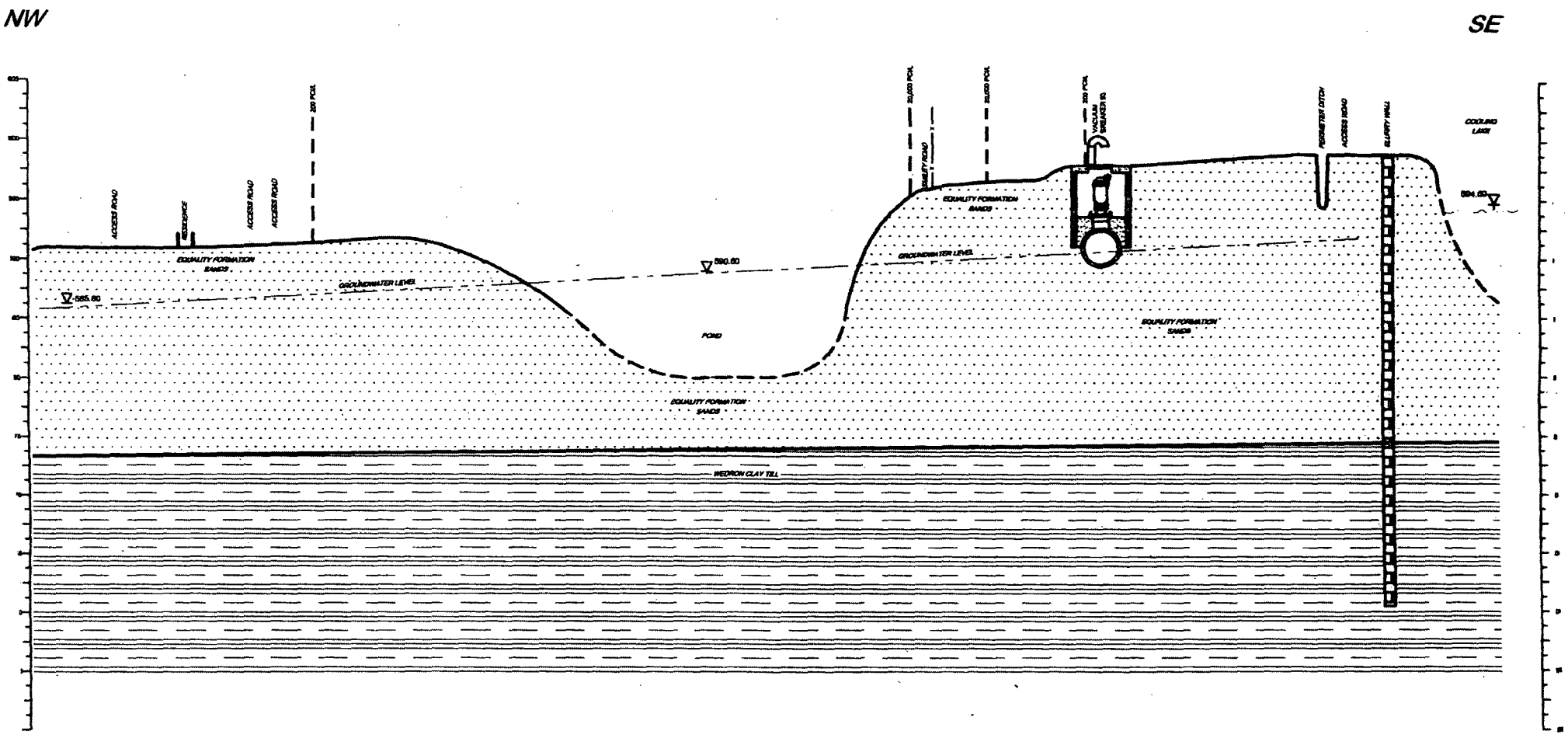
(591.10) GROUNDWATER ELEVATION

NOTE:

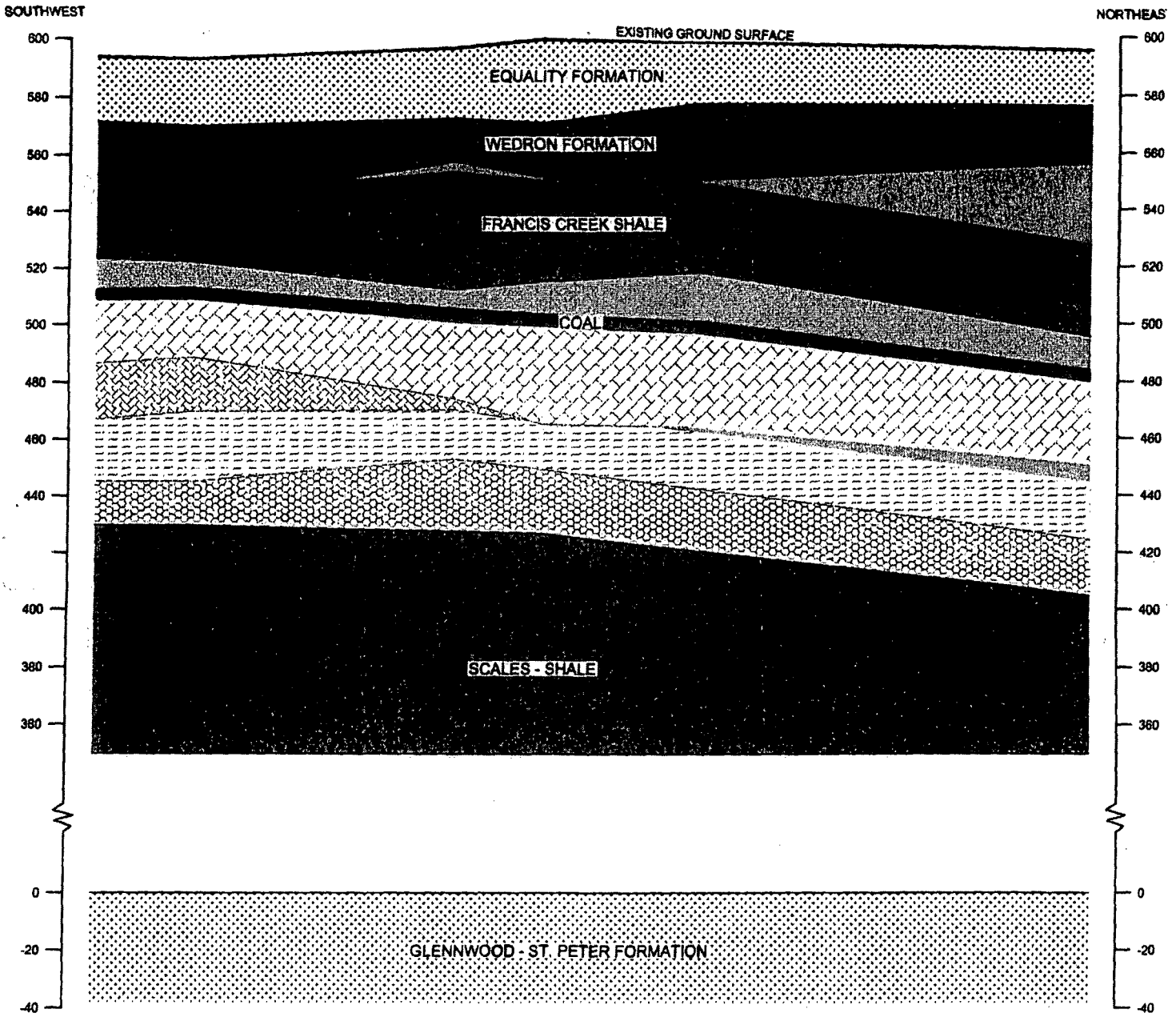
1- REPRESENTS AN AVERAGE OF WATER LEVELS COLLECTED FROM 11/11 TO 12/6

2- NOT ALL POINTS USED DUE TO RECENT SAMPLING EVENT

AVERAGE GROUNDWATER LEVEL CONTOURS
DECEMBER 2005



SITE SPECIFIC HYDROGEOLOGIC PROFILE



LEGEND

WATER BEARING UNIT

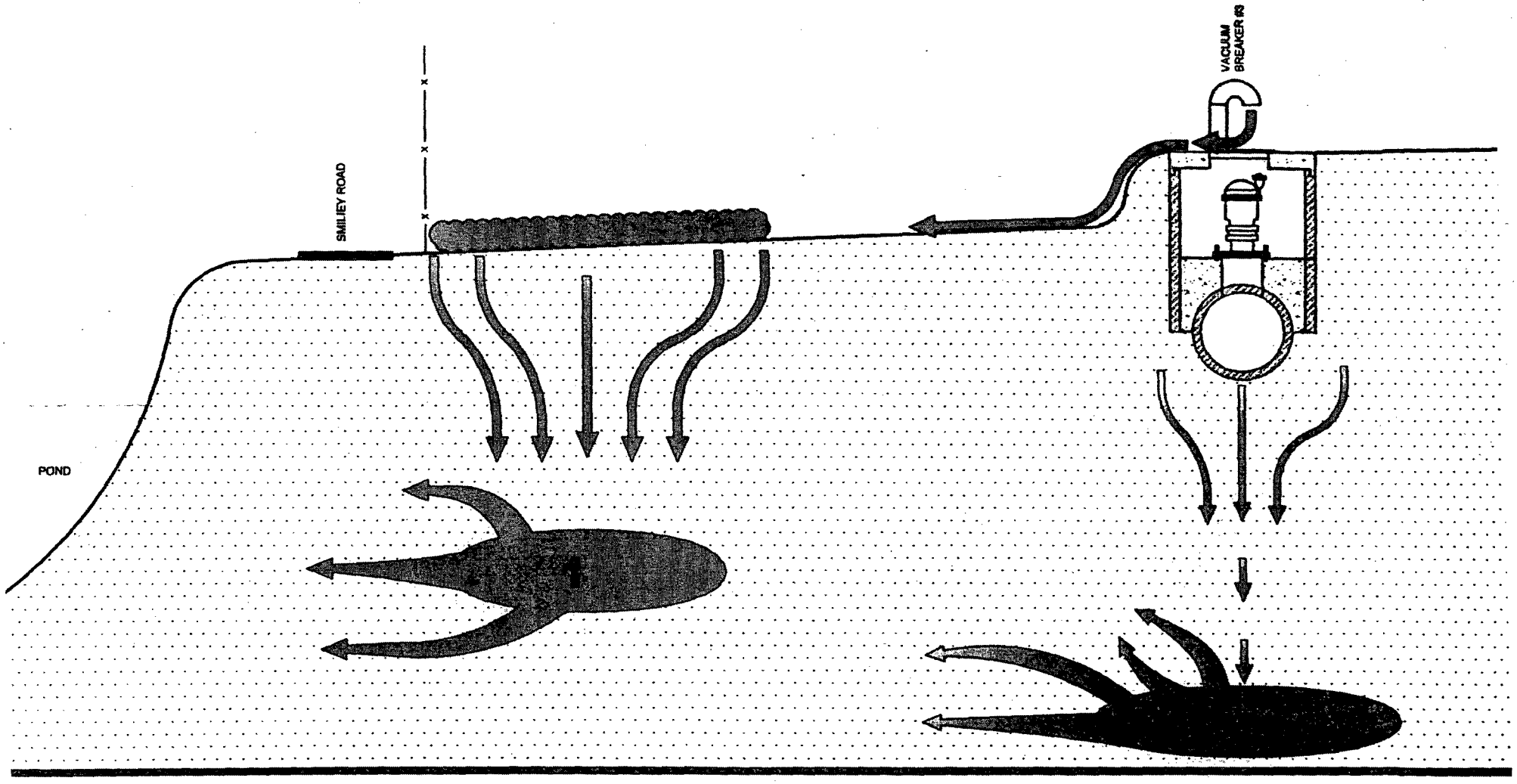
AQUITARD LAYER

SCALE: HORIZONTAL 1"=400'
VERTICAL 1"=40'

SCHEMATIC OF REGIONAL HYDROGEOLOGY

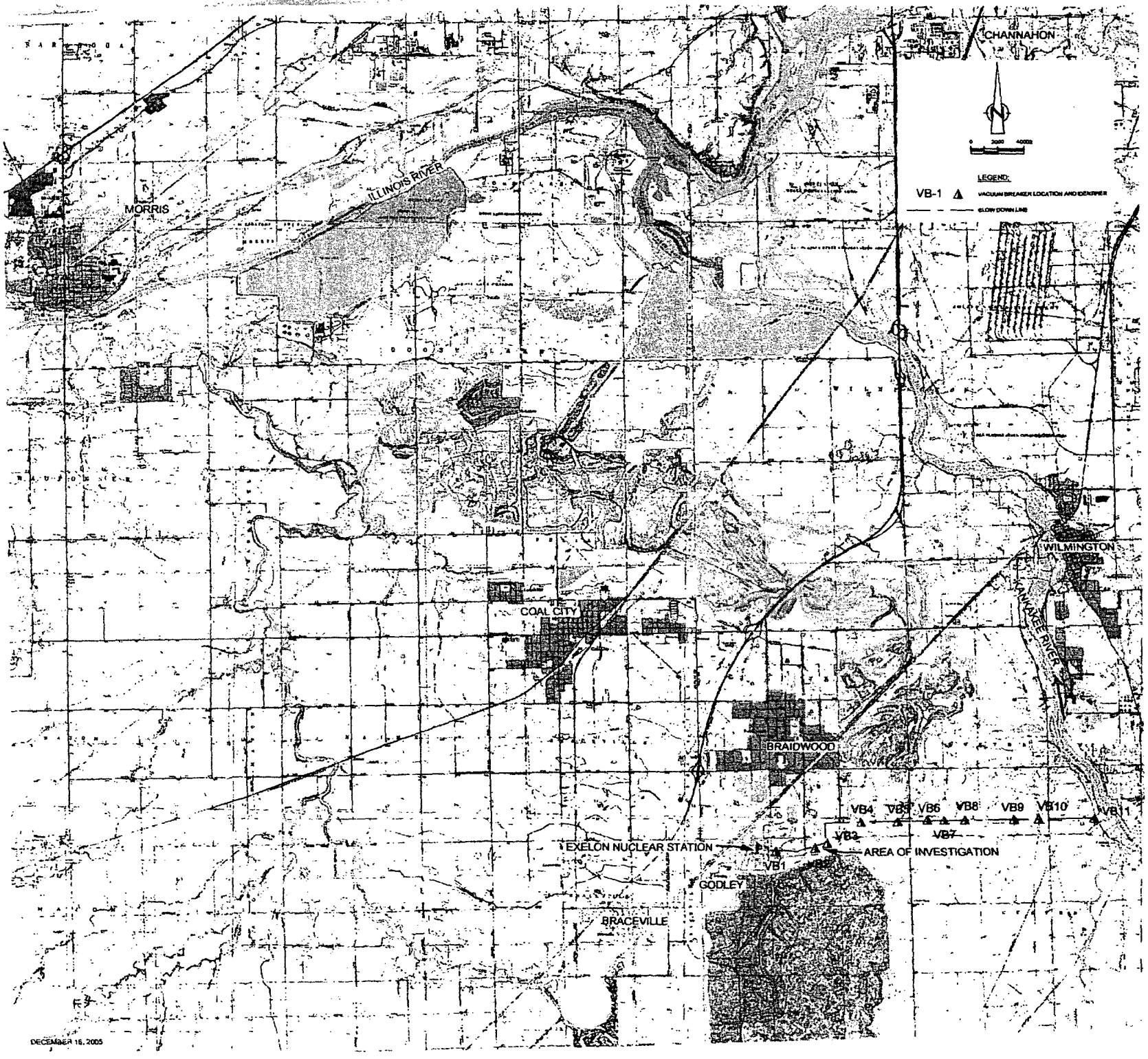
DECEMBER 16, 2005

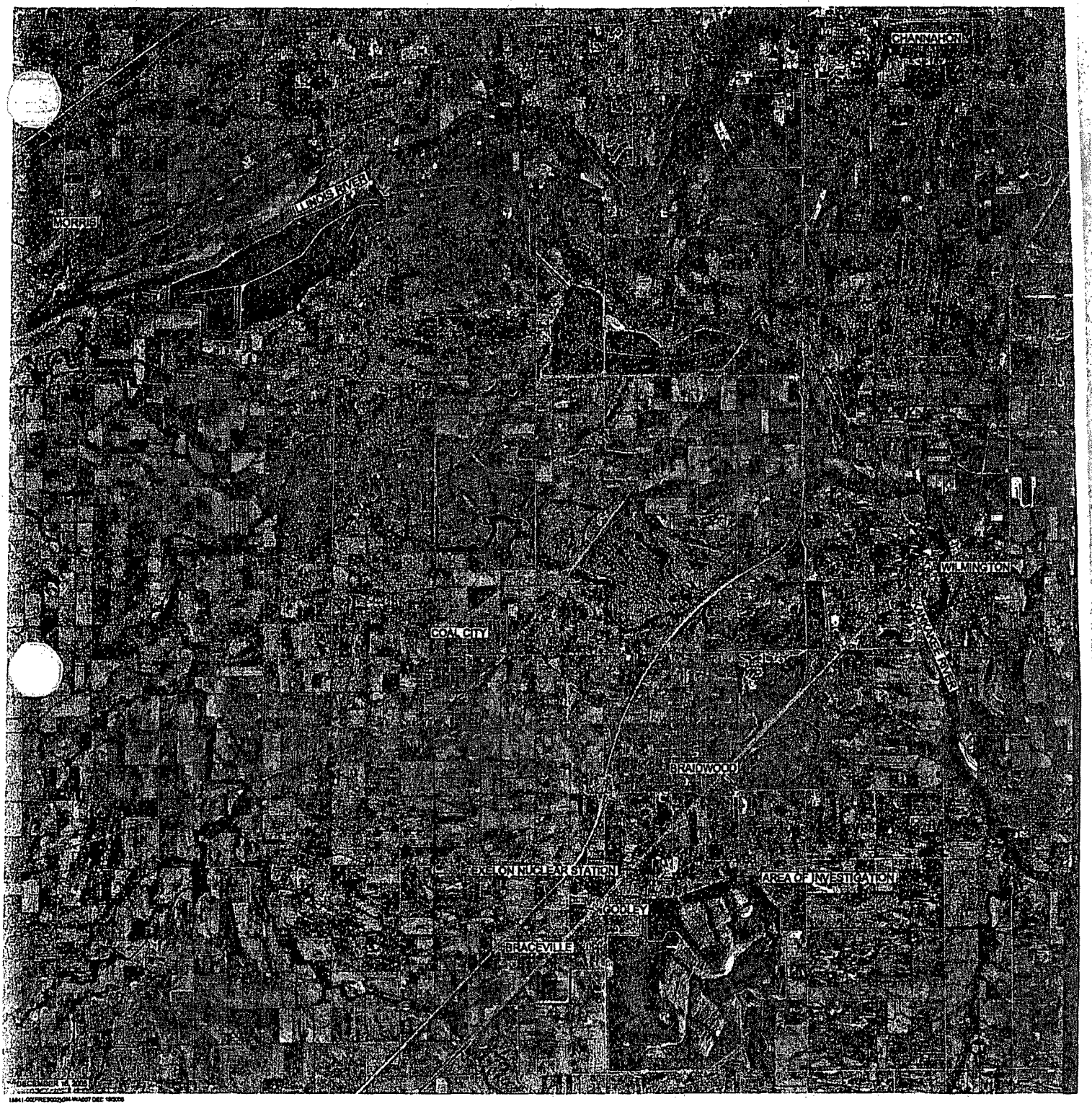
841-00(PRES002)GN-WA008 DEC 17/2005



DECEMBER 16, 2005

POTENTIAL SOURCE RELEASE AND TRANSPORT THEORIES


CHANNAHON
LEGEND:
VB-1
VACUUM BREAKER LOCATION AND IDENTIFIER
BLOW DOWN LINE
MORRIS
ILLINOIS RIVER
WILMINGTON
KANKAKEE RIVER
COAL CITY
BRAIDWOOD
VB4
VB5
VB6
VB8
VB9
VB10
VB11
VB2
VB7
EXELON NUCLEAR STATION
VB1
AREA OF INVESTIGATION
GODLEY
BRACEVILLE
DECEMBER 16, 2005

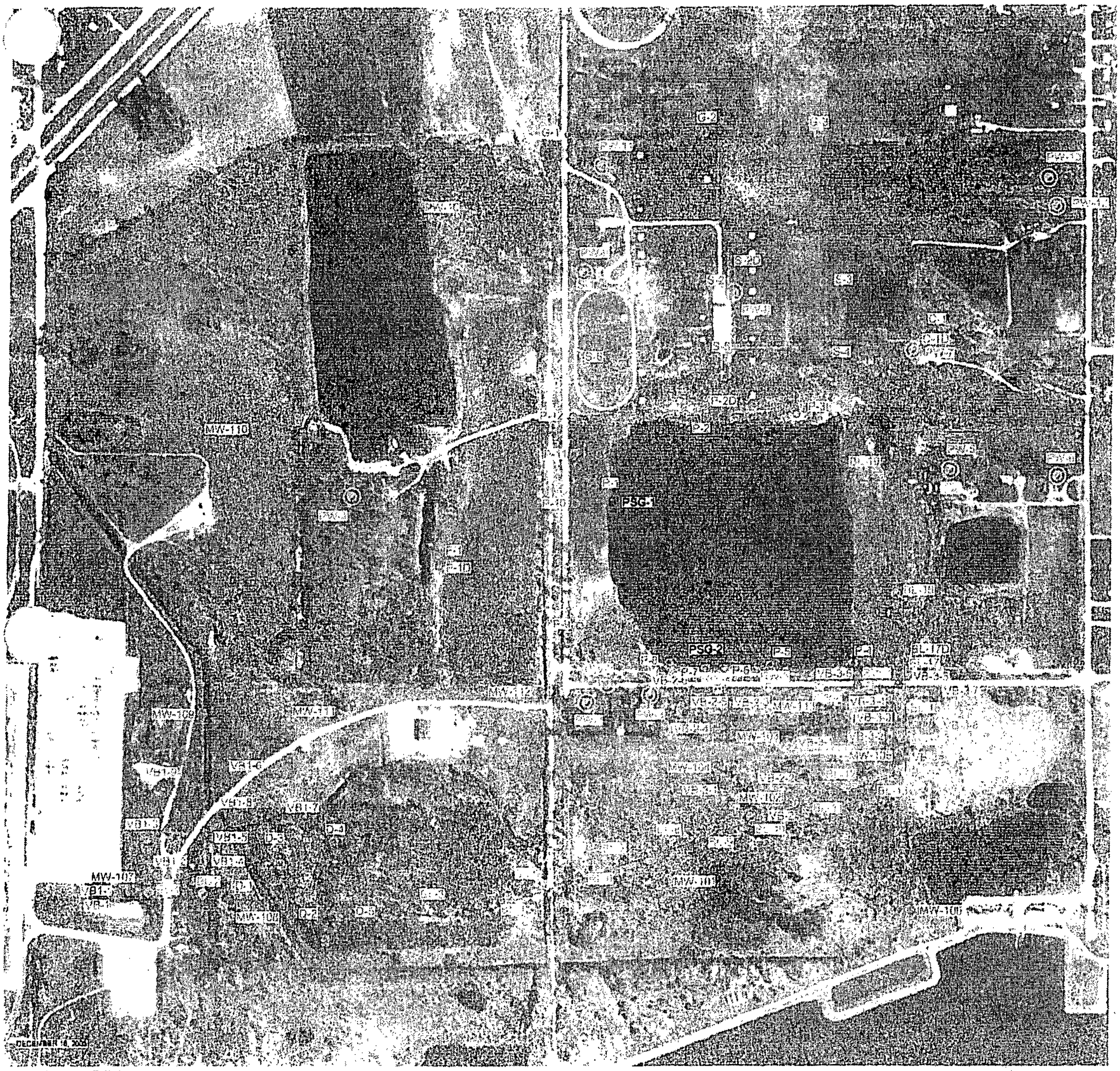


TRITIUM CONCENTRATIONS IN THE DEEPER MONITORING WELLS

LEGEND:

VB-1 △ VACUUM BREAKER LOCATION AND IDENTIFIER

— — — BLOW DOWN LINE



16341-00(PRES002)GN-WA002 DEC 16/2003

LEGEND

BLOWDOWN LINE

EXISTING MONITORING WELL LOCATION AND IDENTIFIER

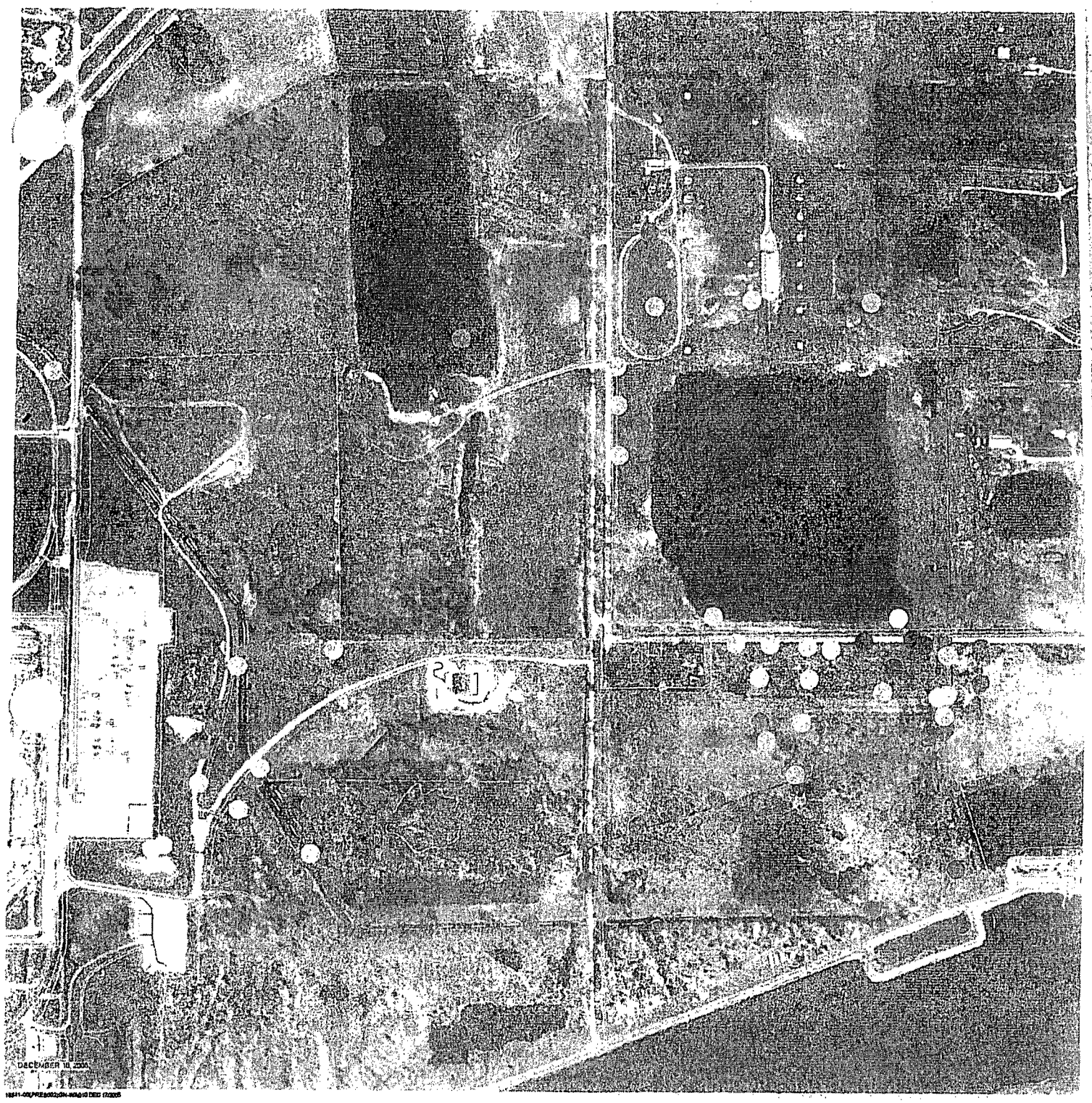
VACUUM BREAKER LOCATION AND IDENTIFIER

TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER

TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER

PRIVATE WELL LOCATION (APPROXIMATE)

AERIAL PHOTO WITH MONITORING LOCATIONS AND THE BLOWDOWN LINE



TRITIUM CONCENTRATIONS IN THE SHALLOW GROUNDWATER

0 100 200ft

LEGEND:

EXISTING FENCE LINE/APPROXIMATE PROPERTY LINE

EXISTING PERIMETER DITCH LIMITS

FEEDER DITCH

GLOW DOWN LINE

TRITIUM CONCENTRATION LOCATION

0 TO 200

200 TO 10000

10000 TO 20000

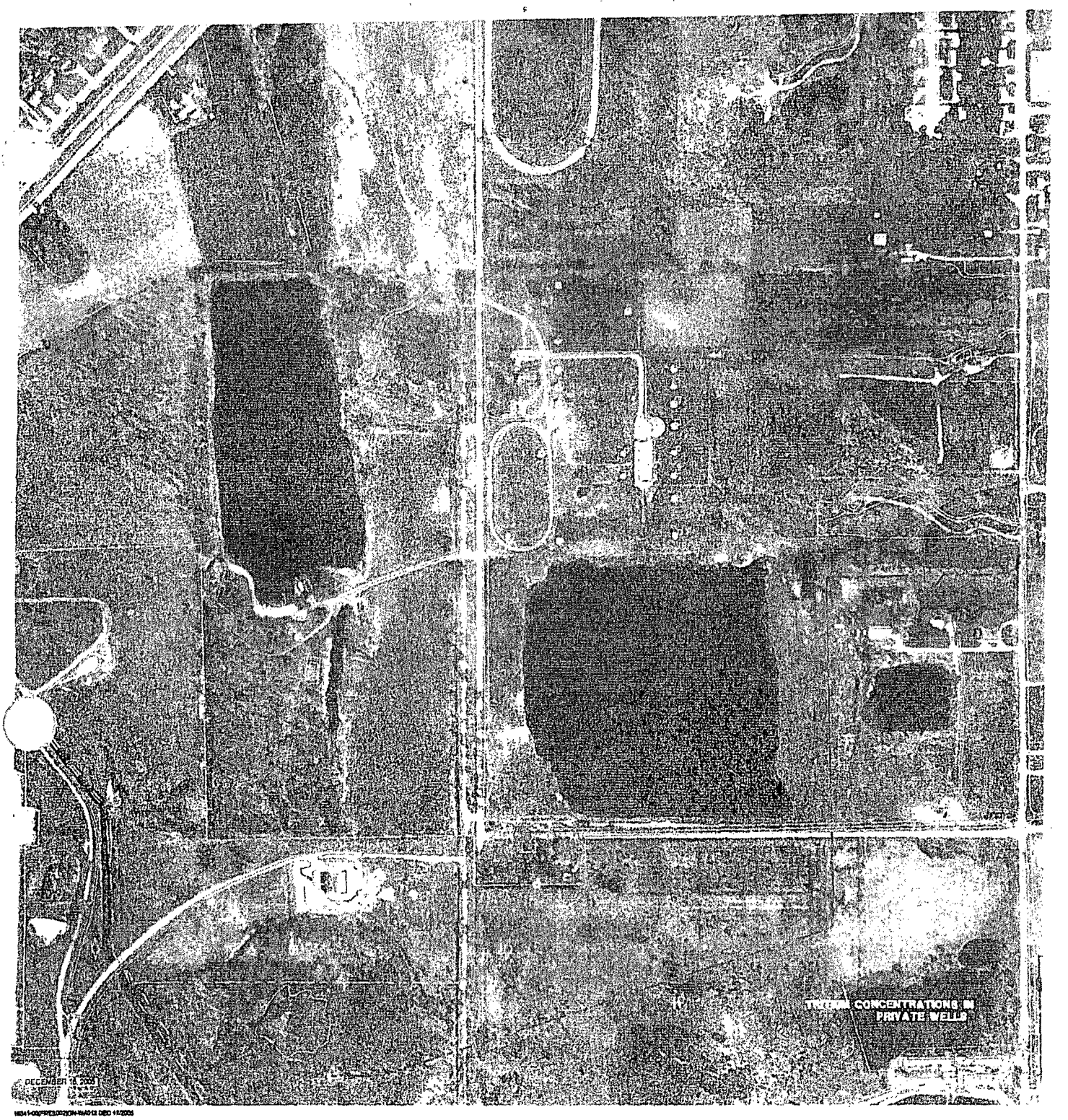
20000 TO 40000

40000 TO 60000

60000 TO 100000

100000 TO 200000

GREATER THAN 200000



TRITIUM CONCENTRATIONS IN PRIVATE WELLS

0 100 200 ft

LEGEND

EXISTING FENCE LINE/APPROXIMATE PROPERTY LINE

EXISTING PERIMETER DITCH LIMITS

FEEDER DITCH

FLOW DOWN LINE

TRITIUM CONCENTRATION LOCATION

0 TO 200

200 TO 10000

10000 TO 20000

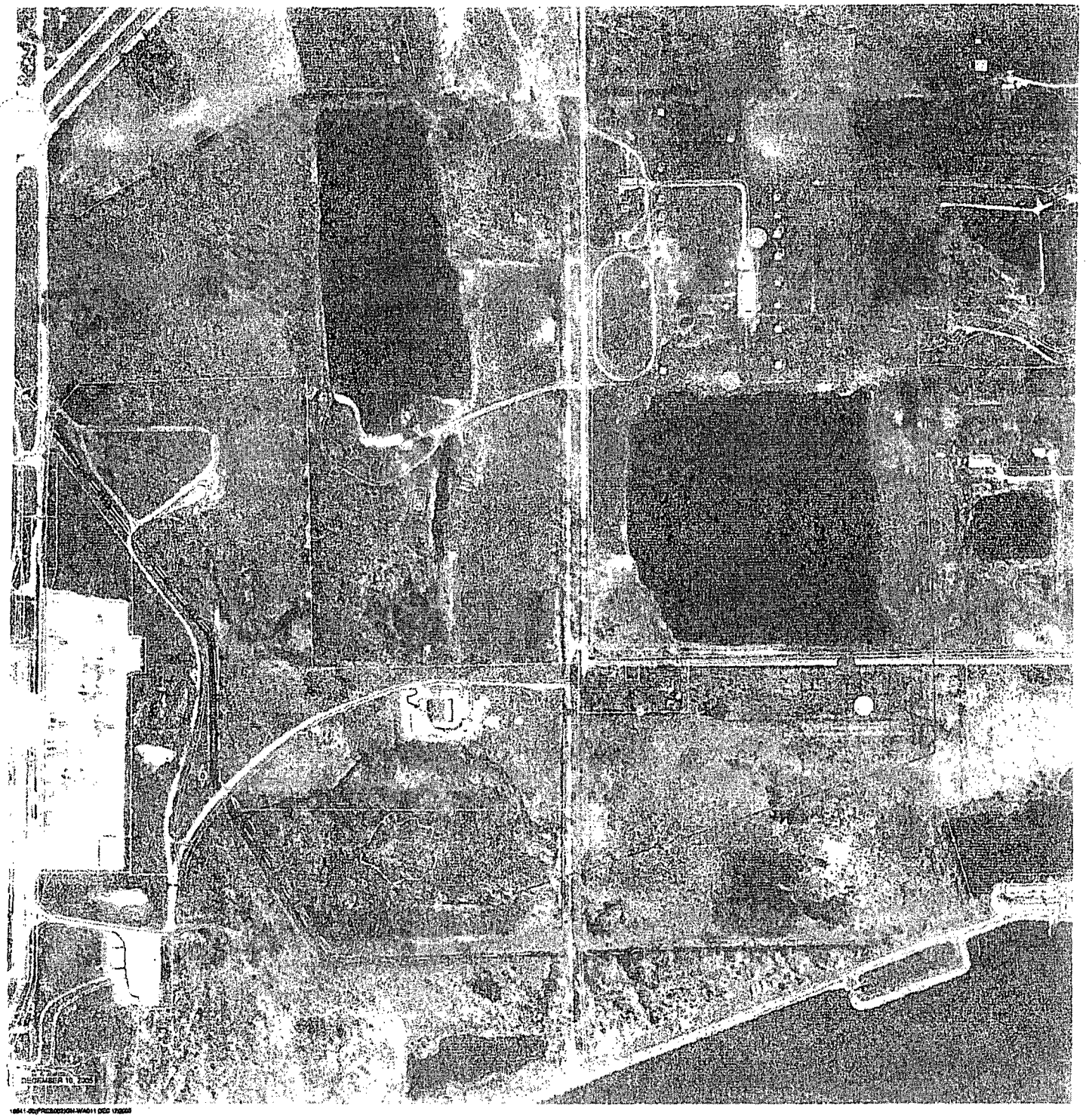
20000 TO 40000

40000 TO 60000

60000 TO 100000

100000 TO 300000

GREATER THAN 300000



TRITIUM CONCENTRATIONS IN THE DEEPER MONITORING WELLS

0 100 200ft

LEGEND:

EXISTING FENCE LINE/APPROXIMATE PROPERTY LINE

EXISTING PERIMETER DITCH LIMITS

FEEDER DITCH

BLOW DOWN LINE

TRITIUM CONCENTRATION LOCATION

0 TO 200

200 TO 10000

10000 TO 20000

20000 TO 40000

40000 TO 60000

60000 TO 100000

100000 TO 200000

GREATER THAN 200000