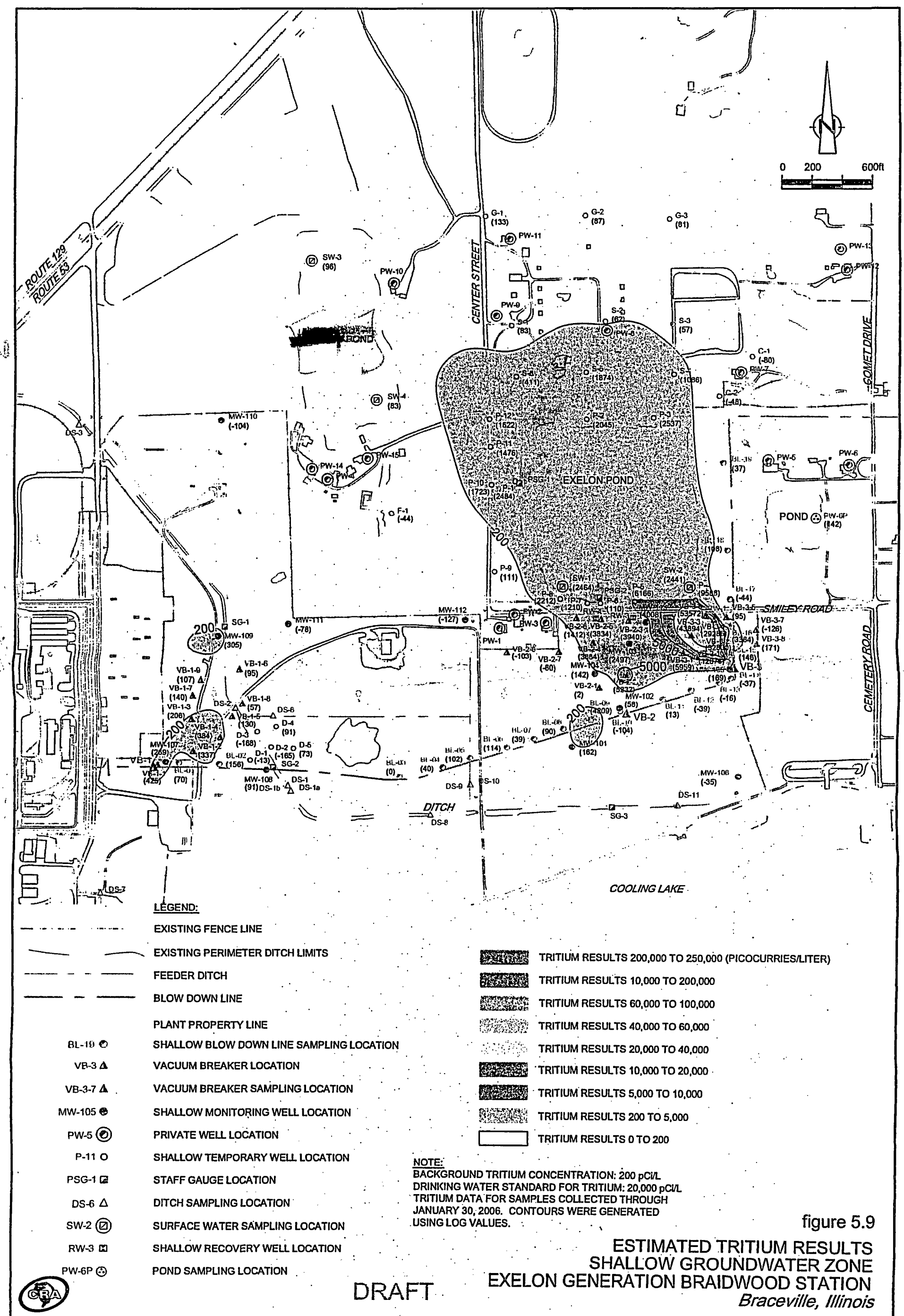

LEGEND:

- EXISTING FENCE LINE
- EXISTING PERIMETER DITCH LIMITS
- FEEDER DITCH
- BLOW DOWN LINE
- PLANT PROPERTY LINE
- BL-19 — SHALLOW BLOW DOWN LINE SAMPLING LOCATION
- VB-3 — VACUUM BREAKER LOCATION
- VB-3-7 — VACUUM BREAKER SAMPLING LOCATION
- MW-105 — SHALLOW MONITORING WELL LOCATION
- PW-5 — PRIVATE WELL LOCATION
- P-11 — SHALLOW TEMPORARY WELL LOCATION
- PSG-1 — STAFF GAUGE LOCATION
- DS-6 — DITCH SAMPLING LOCATION
- SW-2 — SURFACE WATER SAMPLING LOCATION
- RW-3 — SHALLOW RECOVERY WELL LOCATION
- PW-6P — POND SAMPLING LOCATION

- TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
- TRITIUM RESULTS 10,000 TO 200,000
- TRITIUM RESULTS 60,000 TO 100,000
- TRITIUM RESULTS 40,000 TO 60,000
- TRITIUM RESULTS 20,000 TO 40,000
- TRITIUM RESULTS 10,000 TO 20,000
- TRITIUM RESULTS 5,000 TO 10,000
- TRITIUM RESULTS 200 TO 5,000
- TRITIUM RESULTS 0 TO 200

NOTE:
BACKGROUND TRITIUM CONCENTRATION: 200 pCi/L
DRINKING WATER STANDARD FOR TRITIUM: 20,000 pCi/L
TRITIUM DATA FOR SAMPLES COLLECTED THROUGH JANUARY 30, 2006. CONTOURS WERE GENERATED USING LOG VALUES.

figure 5.9

ESTIMATED TRITIUM RESULTS
SHALLOW GROUNDWATER ZONE
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

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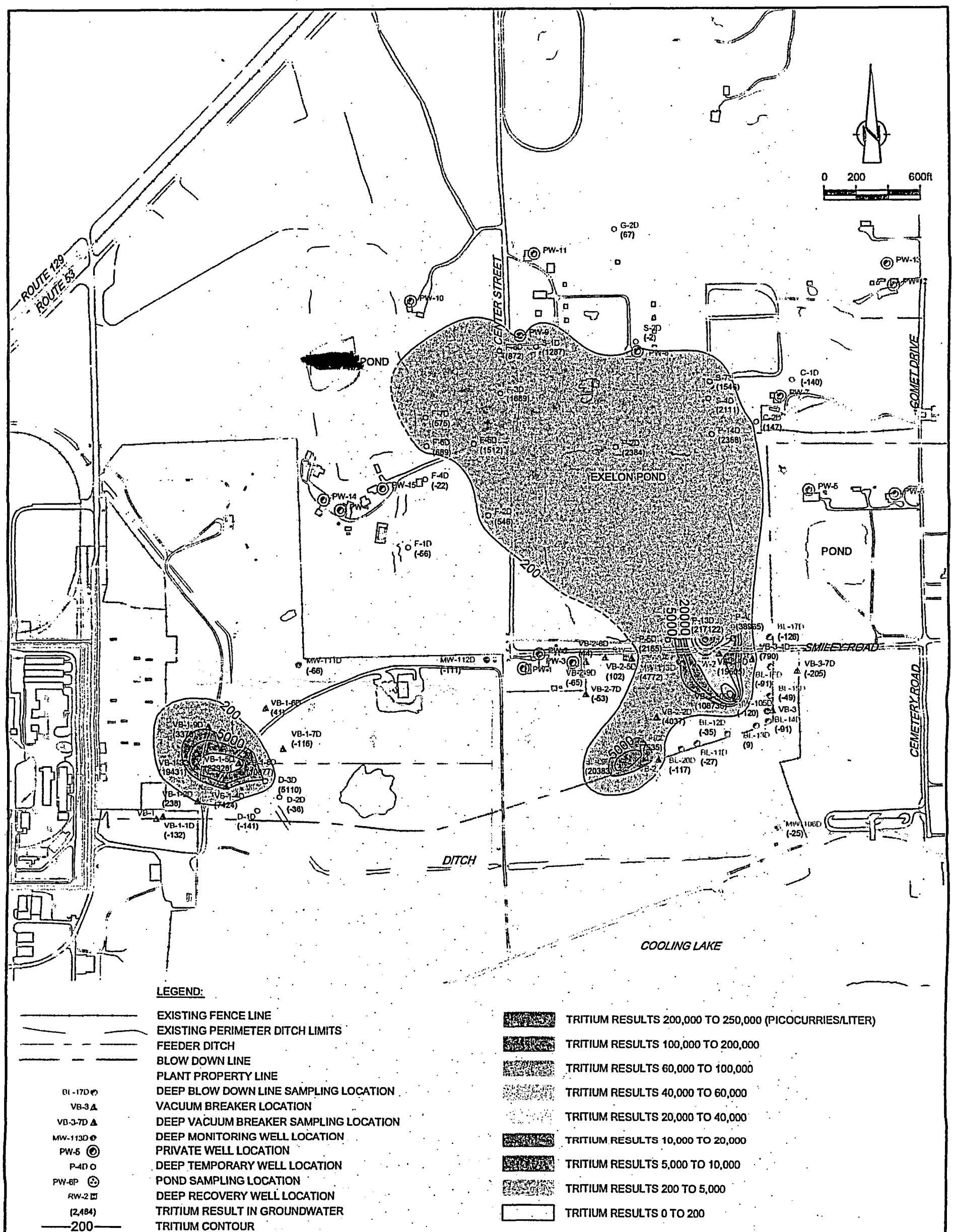
16841-11(012)GN-WA022 FEB 07/2006

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6
FOIA- 2006-115

G-134



LEGEND:

	EXISTING FENCE LINE
	EXISTING PERIMETER DITCH LIMITS
	FEEDER DITCH
	BLOW DOWN LINE
	PLANT PROPERTY LINE
BL-17D	DEEP BLOW DOWN LINE SAMPLING LOCATION
VB-3	VACUUM BREAKER LOCATION
VB-3-7D	DEEP VACUUM BREAKER SAMPLING LOCATION
MW-113D	DEEP MONITORING WELL LOCATION
PW-5	PRIVATE WELL LOCATION
P-4D	DEEP TEMPORARY WELL LOCATION
PW-6P	POND SAMPLING LOCATION
RW-2	DEEP RECOVERY WELL LOCATION
(2,484)	TRITIUM RESULT IN GROUNDWATER
200	TRITIUM CONTOUR

	TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
	TRITIUM RESULTS 100,000 TO 200,000
	TRITIUM RESULTS 60,000 TO 100,000
	TRITIUM RESULTS 40,000 TO 60,000
	TRITIUM RESULTS 20,000 TO 40,000
	TRITIUM RESULTS 10,000 TO 20,000
	TRITIUM RESULTS 5,000 TO 10,000
	TRITIUM RESULTS 200 TO 5,000
	TRITIUM RESULTS 0 TO 200

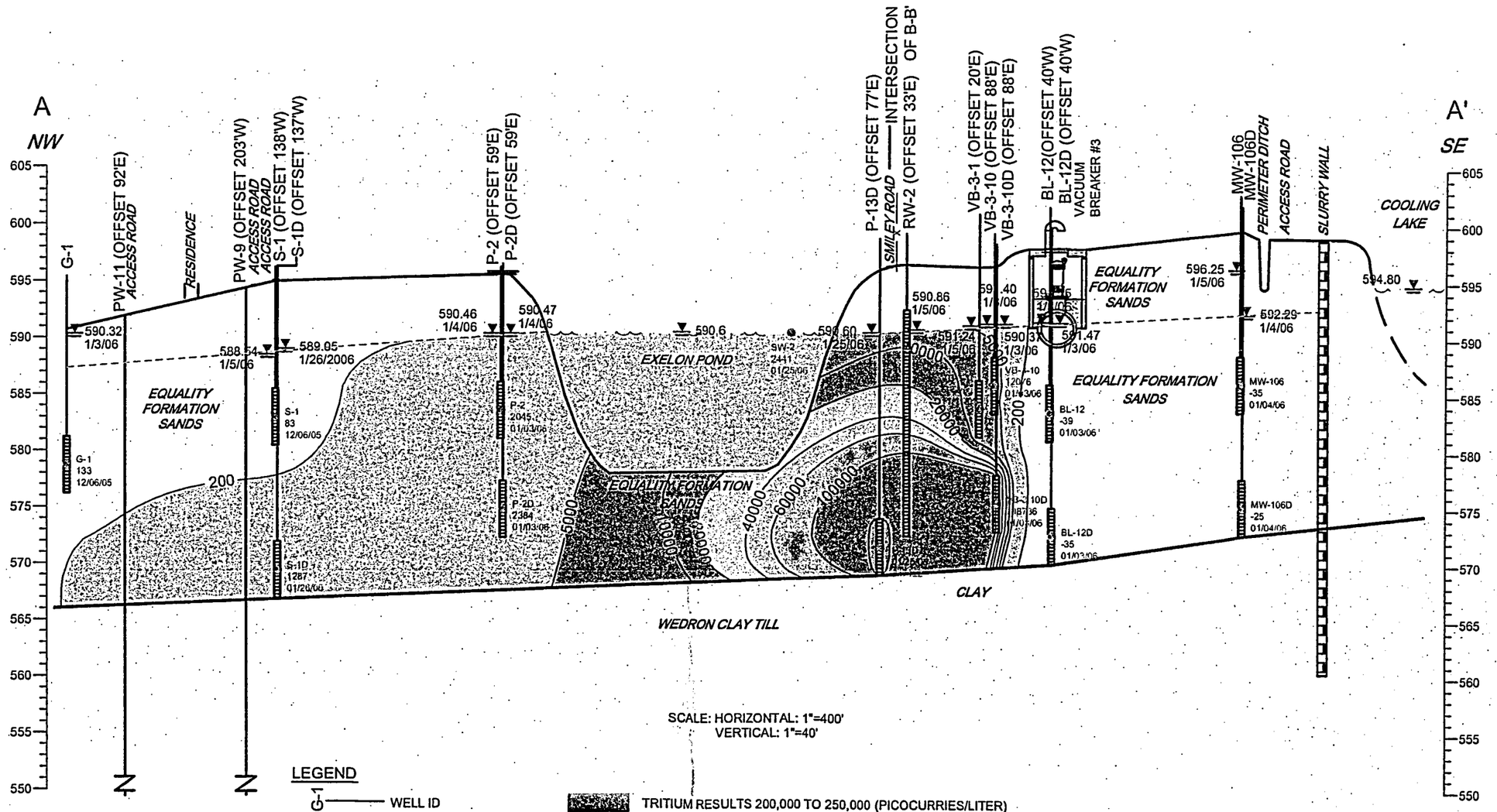
DRAFT

NOTE:
BACKGROUND TRITIUM CONCENTRATION: 200 PCI/L
DRINKING WATER STANDARD FOR TRITIUM: 20,000 PCI/L
TRITIUM DATA FOR SAMPLES COLLECTED THROUGH JANUARY 30, 2006. CONTOURS WERE GENERATED USING LOG VALUES.

figure 5.10

ESTIMATED TRITIUM RESULTS
DEEP GROUNDWATER ZONE
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA023 FEB 07/2006



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

LEGEND

G-1 — WELL ID

590.32 1/3/06 — GRONDWATER ELEVATION

WELL

G-1 133 12/06/05 — WELL SCREEN; TRITIUM CONCENTRATION

- TRITIUM RESULTS 200,000 TO 250,000 (PICOCURRIES/LITER)
- TRITIUM RESULTS 10,000 TO 200,000
- TRITIUM RESULTS 60,000 TO 100,000
- TRITIUM RESULTS 40,000 TO 60,000
- TRITIUM RESULTS 20,000 TO 40,000
- TRITIUM RESULTS 10,000 TO 20,000
- TRITIUM RESULTS 5,000 TO 10,000
- TRITIUM RESULTS 200 TO 5,000
- TRITIUM RESULTS 0 TO 200

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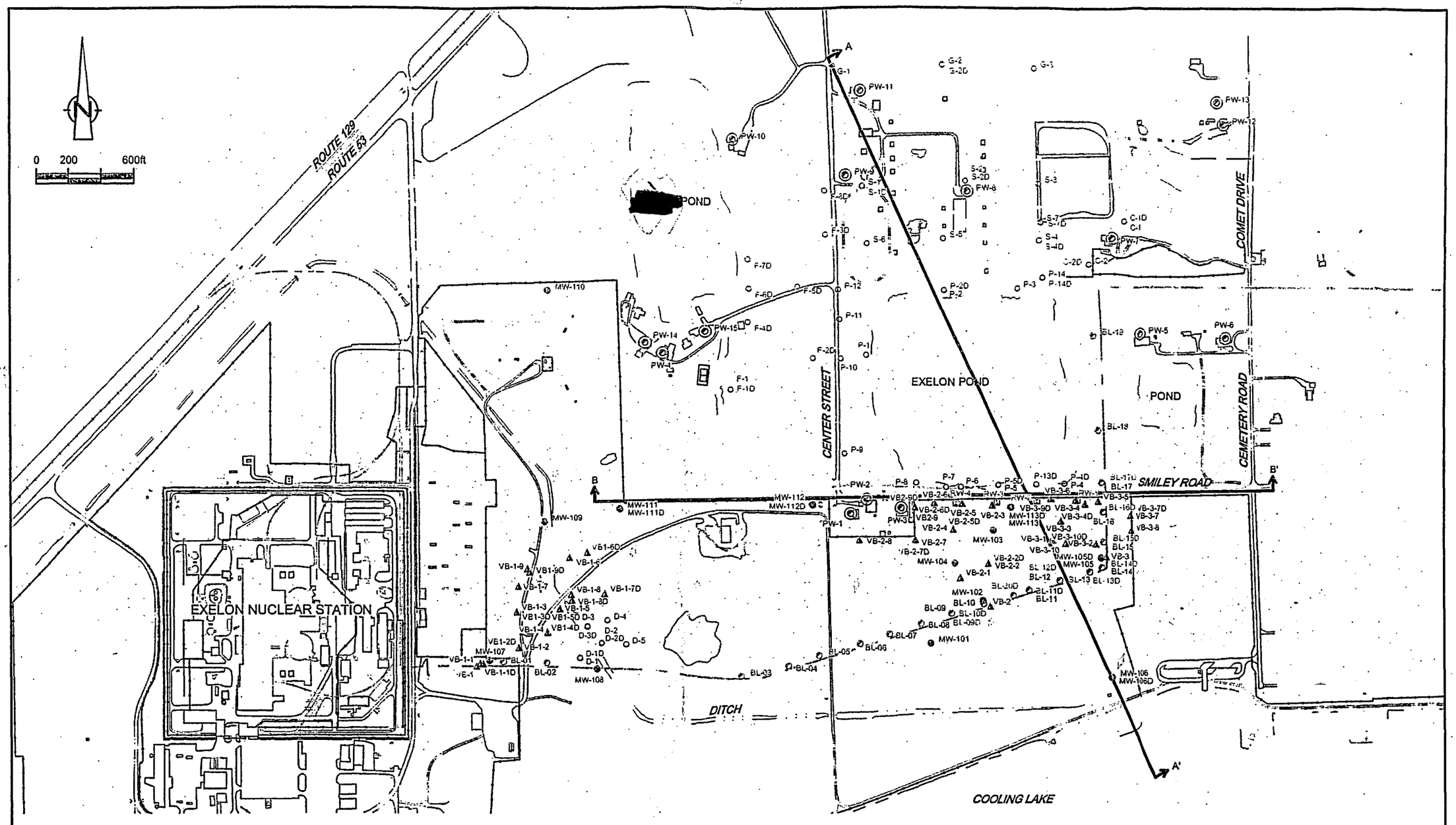
figure 5.15

SITE SPECIFIC HYDROGEOLOGIC PROFILE
JANUARY 2006 (A-A')
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA006 FEB 08/2006



LEGEND

	EXISTING FENCE LINE	MW-105	SHALLOW MONITORING WELL LOCATION
	BLOW DOWN LINE	MW-113D	DEEP MONITORING WELL LOCATION
	PLANT PROPERTY LINE	PW-5	PRIVATE WELL LOCATION
BL-19	SHALLOW BLOW DOWN LINE SAMPLING LOCATION	P-11	SHALLOW TEMPORARY WELL LOCATION
BL-17D	DEEP BLOW DOWN LINE SAMPLING LOCATION	P-4D	DEEP TEMPORARY WELL LOCATION
VB-3	VACUUM BREAKER LOCATION	PW-3	SHALLOW RECOVERY WELL LOCATION
VB-3-7	VACUUM BREAKER SAMPLING LOCATION		DEEP RECOVERY WELL LOCATION

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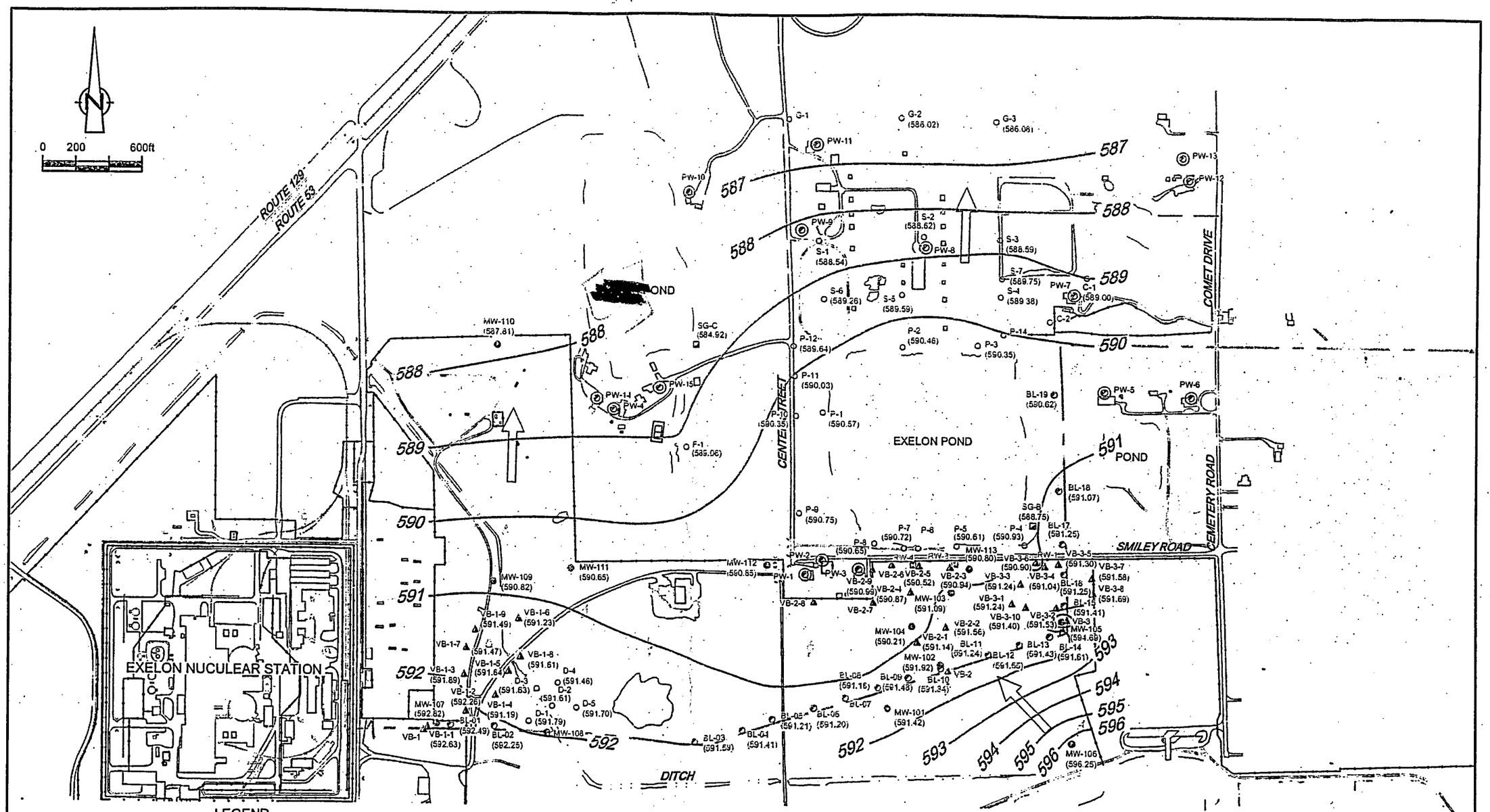
figure 5.14

CROSS SECTION LOCATIONS
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA006 FEB 07/2006



LEGEND

- EXISTING FENCE LINE
- BLOW DOWN LINE
- PLANT PROPERTY LINE
- VB-3 ▲ VACUUM BREAKER LOCATION
- BL-19 ⊘ BLOW DOWN LINE SAMPLING LOCATION
- VB-3-7 ▲ VACUUM BREAKER SAMPLING LOCATION
- SG-8 ▨ STAFF GAUGE LOCATION
- MW-105 ⊗ MONITORING WELL LOCATION
- PW-5 ◎ PRIVATE WELL LOCATION
- P-11 ○ TEMPORARY WELL LOCATION
- RW-3 ▣ RECOVERY WELL LOCATION
- (590.80) GROUNDWATER ELEVATION (ft AMSL)
- 591 GROUNDWATER ELEVATION CONTOUR (ft AMSL)
- GROUNDWATER FLOW DIRECTION

NOTE:
STAFF GAUGE ELEVATIONS TAKEN ON JANUARY 25, 2006.
MONITORING WELL DATA TAKEN JANUARY 3, 2006 TO JANUARY 5, 2006.

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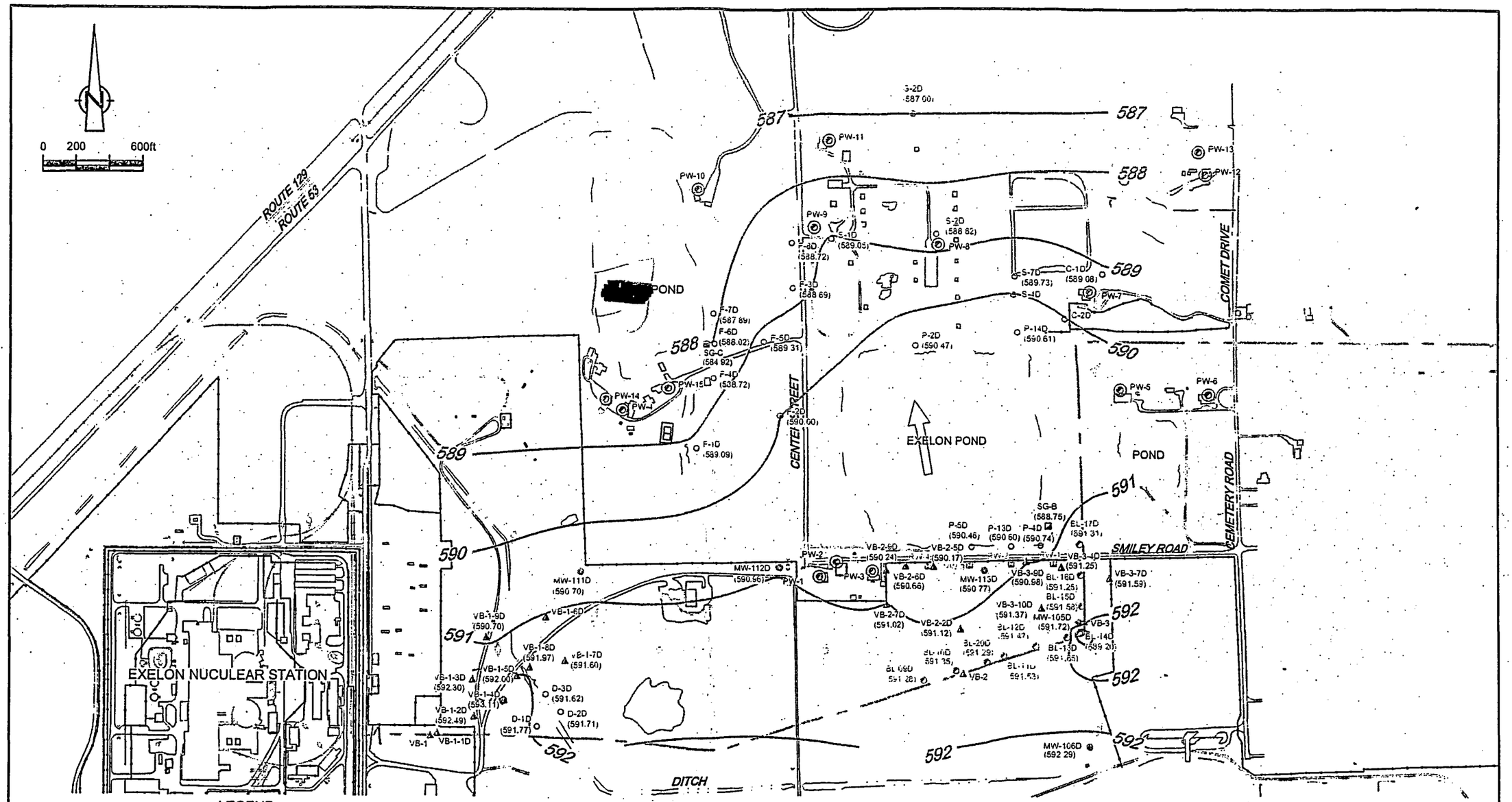
figure 5.7

GROUNDWATER LEVEL CONTOURS - JANUARY 2006
SHALLOW GROUNDWATER ZONE
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA018 FEB 08/2006



LEGEND

- EXISTING FENCE LINE
- BLOW DOWN LINE
- PLANT PROPERTY LINE
- BL-17D — BLOW DOWN LINE SAMPLING LOCATION
- VB-3 — VACUUM BREAKER LOCATION
- VB-3-7D — VACUUM BREAKER SAMPLING LOCATION
- MW-113D — MONITORING WELL LOCATION
- SG-B — STAFF GAUGE LOCATION
- PW-5 — PRIVATE WELL LOCATION
- P-4D — TEMPORARY WELL LOCATION
- RECOVERY WELL LOCATION
- (590.59) — GROUNDWATER ELEVATION (ft AMSL)
- 591 — GROUNDWATER ELEVATION CONTOUR (ft AMSL)
- GROUNDWATER FLOW DIRECTION

NOTE:
STAFF GAUGE ELEVATIONS TAKEN ON JANUARY 25, 2006.
MONITORING WELL DATA TAKEN JANUARY 3, 2006 TO JANUARY 24, 2006.

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figure 5.8

GROUNDWATER LEVEL CONTOURS - JANUARY 2006
DEEP GROUNDWATER ZONE
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA019 FEB 08/2006

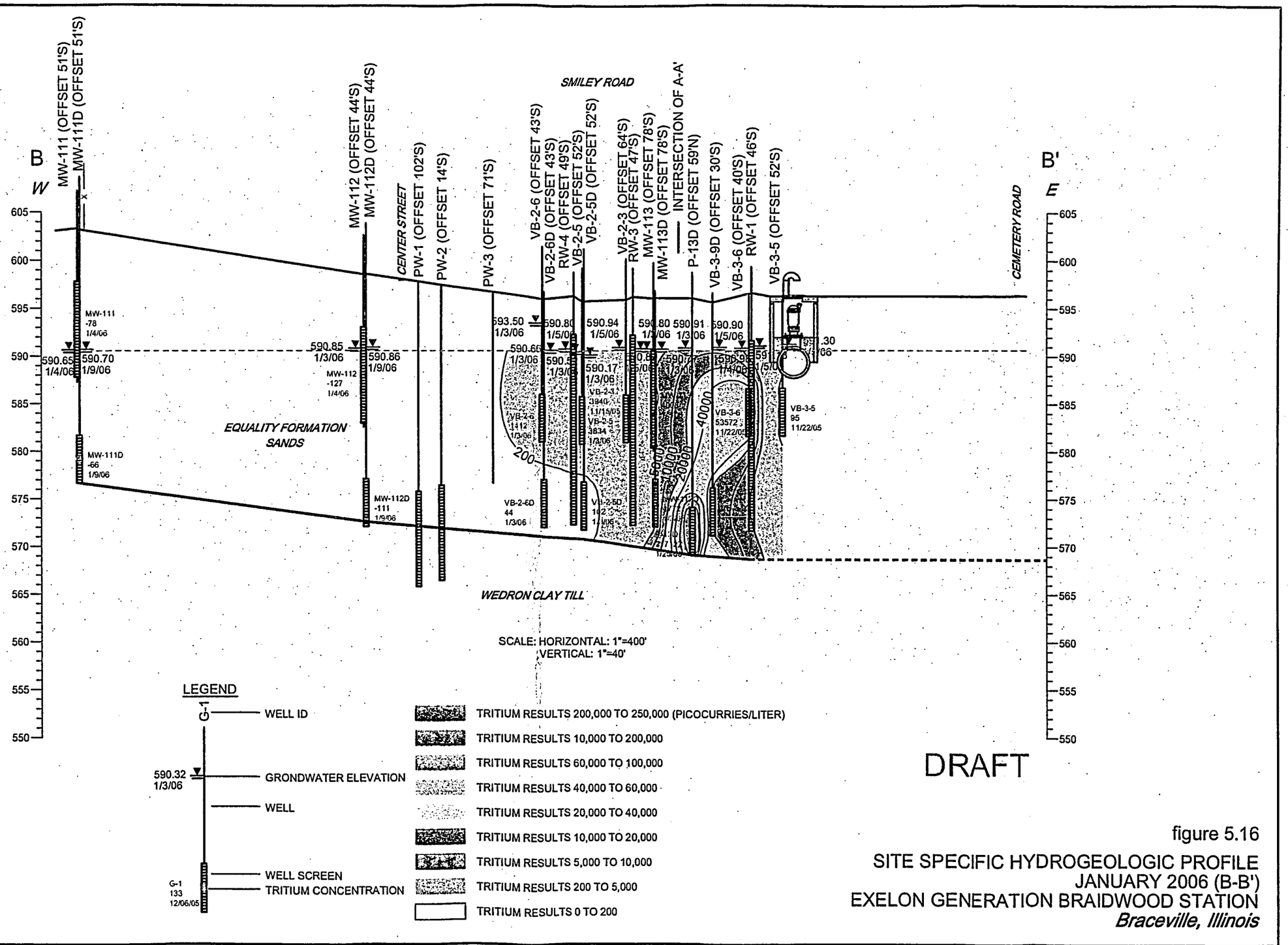
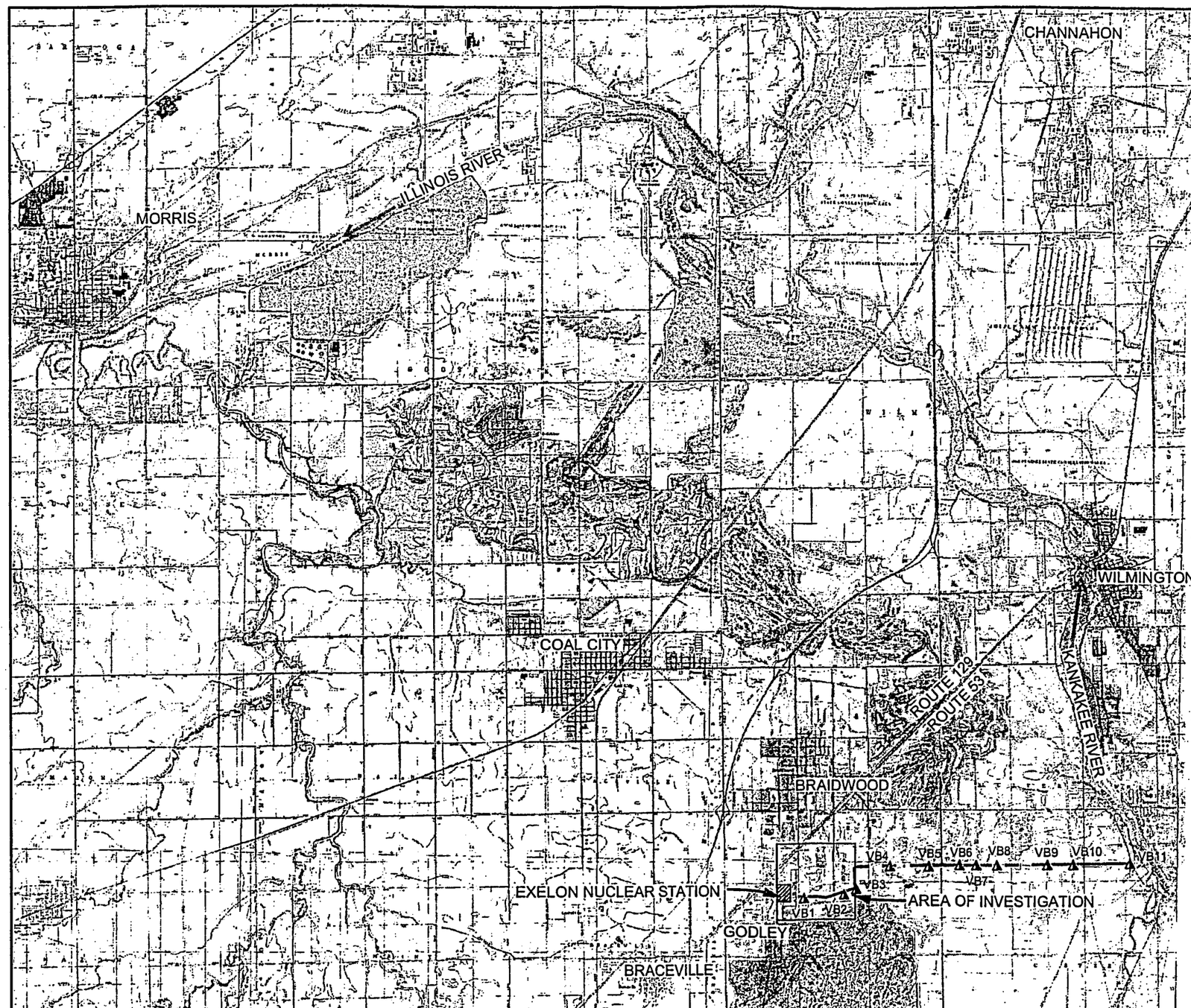


figure 5.16

SITE SPECIFIC HYDROGEOLOGIC PROFILE
JANUARY 2006 (B-B')
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA006 FEB 08/2006



0 4000 8000ft

LEGEND:

VB-1 ▲ VACUUM BREAKER LOCATION AND IDENTIFIER

BLOW DOWN LINE

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figure 1.1

SITE LOCATION MAP

EXELON GENERATION BRAIDWOOD STATION

Braceville, Illinois

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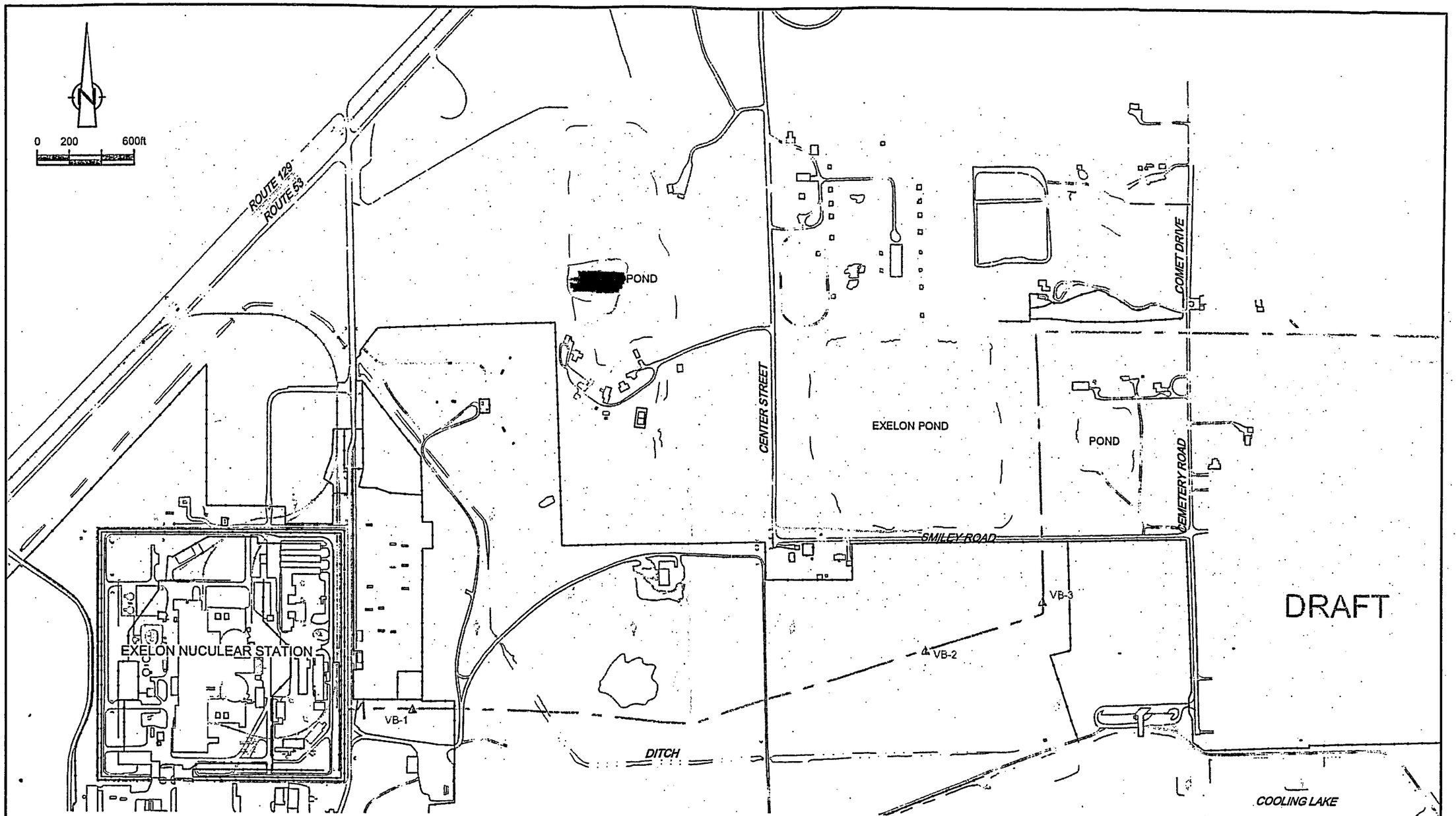


LEGEND

EXISTING FENCE LINE
BLOW DOWN LINE
PLANT PROPERTY LINE
VB-3 VACUUM BREAKER LOCATION

figure 2.1

GENERAL SITE BOUNDARIES AND FEATURES
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA011 FEB 07/2006

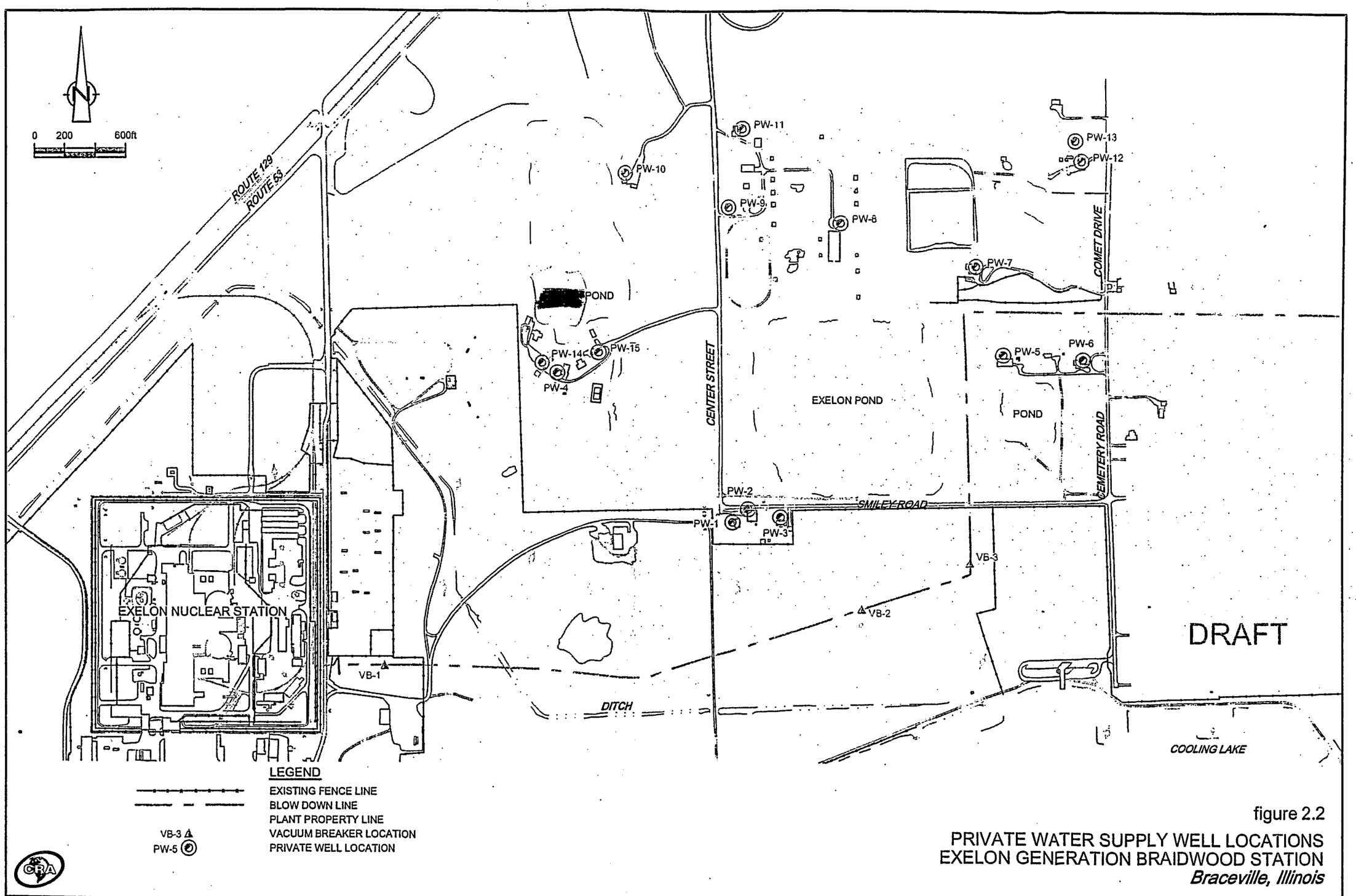
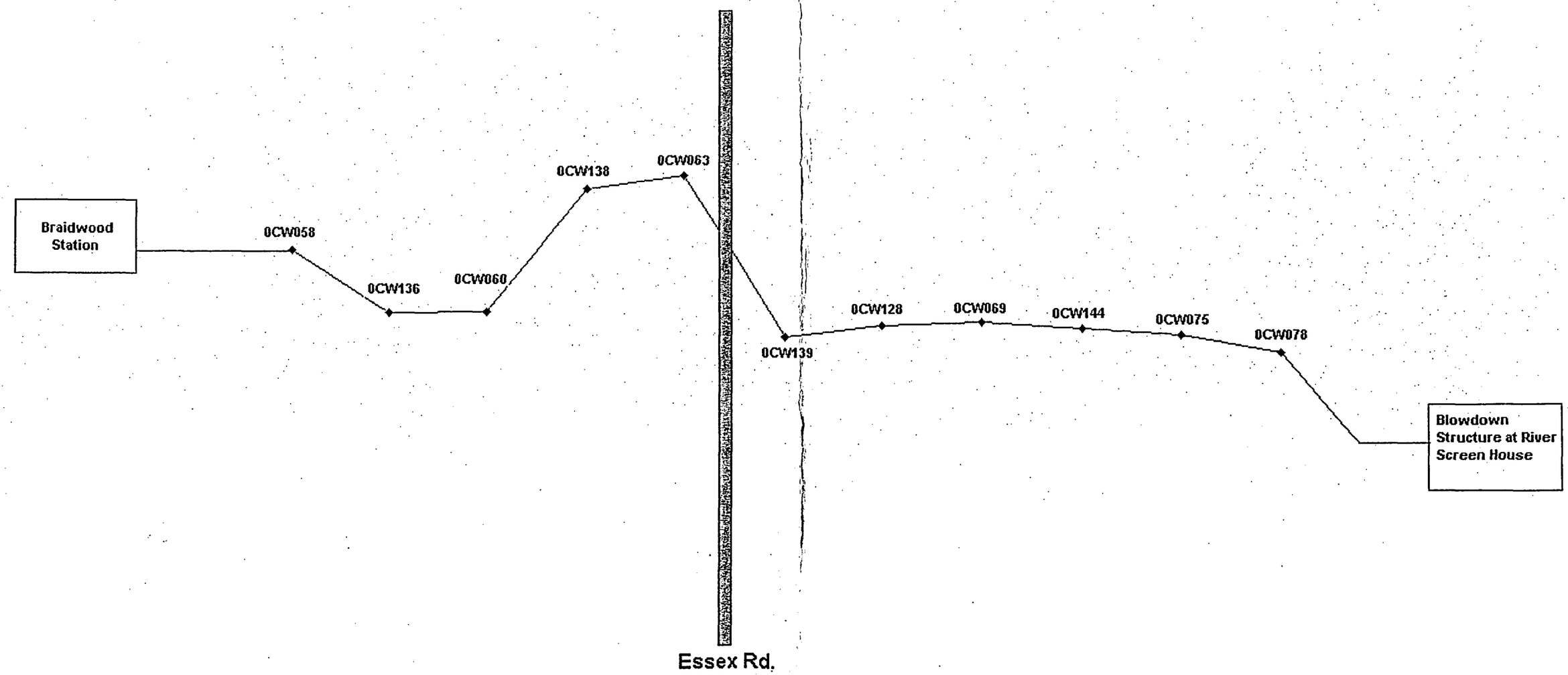


figure 2.2

PRIVATE WATER SUPPLY WELL LOCATIONS
EXELON GENERATION BRAIDWOOD STATION
Braceville, Illinois

16841-11(012)GN-WA012 FEB 07/2006


Braidwood Station
0CW058
0CW136
0CW060
0CW138
0CW063
0CW139
0CW128
0CW069
0CW144
0CW075
0CW078
Blowdown Structure at River Screen House
Essex Rd.