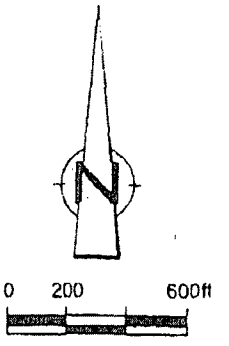
4/18/06

(1)



LEGEND

— — —	EXISTING EDGE OF WATER
VB-1 O	EXISTING VACUUM BREAKER
——— - - ———	30" BLOW DOWN LINE
———	PROPERTY LINE
	EXELON PROPERTY

KEY

SAMPLE LOCATION	PC-5B		pCi/L	CONCENTRATION (pCi/L)
SAMPLE DATE	03/31/06	PC-5B	-167	
	03/31/06	PC-5B Duplicate	-235	SAMPLE DATA
	04/06/06	PC-5B	86	

SAMPLE DESCRIPTION

	pCi/L
	205
	173
AR-2	75
	315
	165
ell AR-2	200
	165
Vell AR-2	99
	361
ell AR-2	223
AR-2	208
	442
	475

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

(2)

	pCi/L
	-239
	141

		pCi/L
5	DF-6	-138
5	DF-6	-2
6	DF-6 Duplicate	48

DF-12		pCi/L
03/31/06	DF-12	-168
04/06/06	DF-12	149

MW-11

MW-39		pCi/L
03/31/06	MW-39	-232
04/06/06	MW-39	110

MW-2		pCi/L
03/31/06	MW-2	-133
04/06/06	MW-2	126

MW-1		pCi/L
03/31/06	MW-1	-241
04/06/06	MW-1	101

ASH ROAD

AR-2	
03/24/06	Bedrock Well AR-2
03/24/06	Recount of Bedrock Well A
03/24/06	Repeat Recount of Bedroc
03/27/06	Bedrock Well AR-2
03/29/06	1st Repeat of Bedrock Wel
03/29/06	1st Repeat Recount of Bec
03/29/06	2nd Repeat of Bedrock We
03/29/06	2nd Repeat Recount fo Be
03/29/06	Bedrock Well AR-2 (Origin
03/29/06	Original Recount #2 of Bec
03/29/06	Original Recount of Bedroc
04/03/06	Bedrock Well AR-2
04/03/06	Recount of Bedrock Well A
04/10/06	Bedrock Well AR-2

ll AR-2	223
R-2	208
	442
	475
	586

NORTH GERMAN CHURCH ROAD

AR-10		pCi/L
04/06/06	Bedrock Well AR-10	168
04/12/06	Bedrock Well AR-10	70

er	pCi/L
Potable Drinking Water	35

I-9		pCi/L
/05/06	Bedrock Well AR-9	53
/11/06	Bedrock Well AR-9	37

	pCi/
ock Well CAR-3	
ock Well CAR-	
ock Well CAR-	50

	pCi/L
7	-16
7	40
7	183

(3)

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

BYRON GENERATION STATION
BYRON, ILLINOIS

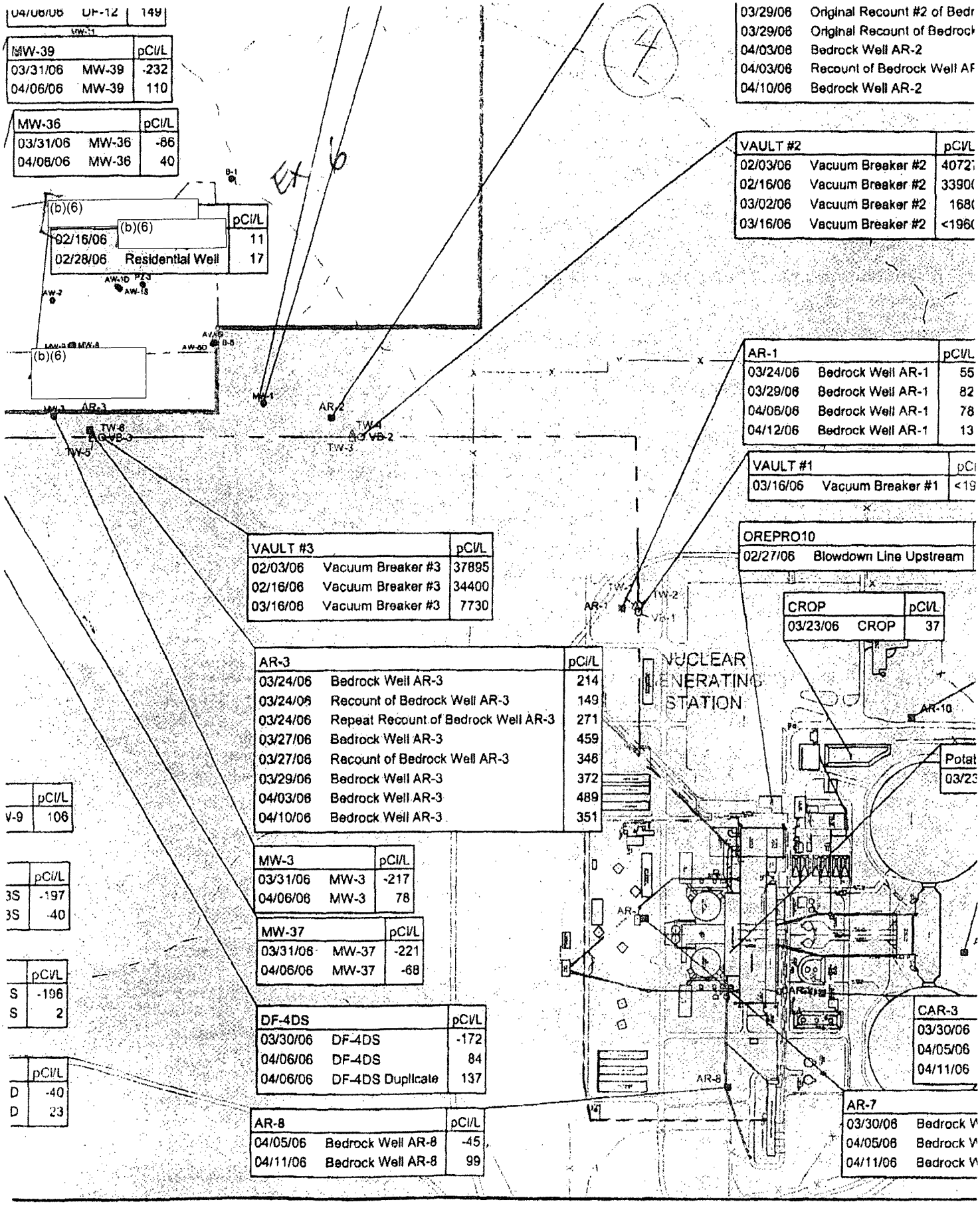
DATABOX SUMMARY THROUGH APRIL 18, 2006

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
P. HARVEY	D. HOYT	MARCH 2006	
Scale: 1"=600'	Project Nº: 19232-21	Report Nº: MISC002	Drawing Nº: figure 16

19232-21(MISC002)GN-NF016 APR 19/2006



04/06/06	DF-12	149

MW-39		pCi/L
03/31/06	MW-39	-232
04/06/06	MW-39	110

MW-36		pCi/L
03/31/06	MW-36	-86
04/06/06	MW-36	40

(b)(6)		pCi/L
02/16/06	(b)(6)	11
02/28/06	Residential Well	17

03/29/06	Original Recount #2 of Bedr	
03/29/06	Original Recount of Bedrock	
04/03/06	Bedrock Well AR-2	
04/03/06	Recount of Bedrock Well AF	
04/10/06	Bedrock Well AR-2	

VAULT #2		pCi/L
02/03/06	Vacuum Breaker #2	4072
02/16/06	Vacuum Breaker #2	3390
03/02/06	Vacuum Breaker #2	168
03/16/06	Vacuum Breaker #2	<196

AR-1		pCi/L
03/24/06	Bedrock Well AR-1	55
03/29/06	Bedrock Well AR-1	82
04/06/06	Bedrock Well AR-1	78
04/12/06	Bedrock Well AR-1	13

VAULT #1		pCi
03/16/06	Vacuum Breaker #1	<19

OREPRO10	
02/27/06	Blowdown Line Upstream

VAULT #3		pCi/L
02/03/06	Vacuum Breaker #3	37895
02/16/06	Vacuum Breaker #3	34400
03/16/06	Vacuum Breaker #3	7730

CROP		pCi/L
03/23/06	CROP	37

AR-3		pCi/L
03/24/06	Bedrock Well AR-3	214
03/24/06	Recount of Bedrock Well AR-3	149
03/24/06	Repeat Recount of Bedrock Well AR-3	271
03/27/06	Bedrock Well AR-3	459
03/27/06	Recount of Bedrock Well AR-3	346
03/29/06	Bedrock Well AR-3	372
04/03/06	Bedrock Well AR-3	489
04/10/06	Bedrock Well AR-3	351

	pCi/L
V-9	106

	pCi/L
3S	-197
3S	-40

	pCi/L
S	-196
S	2

	pCi/L
D	-40
D	23

MW-3		pCi/L
03/31/06	MW-3	-217
04/06/06	MW-3	78

MW-37		pCi/L
03/31/06	MW-37	-221
04/06/06	MW-37	-68

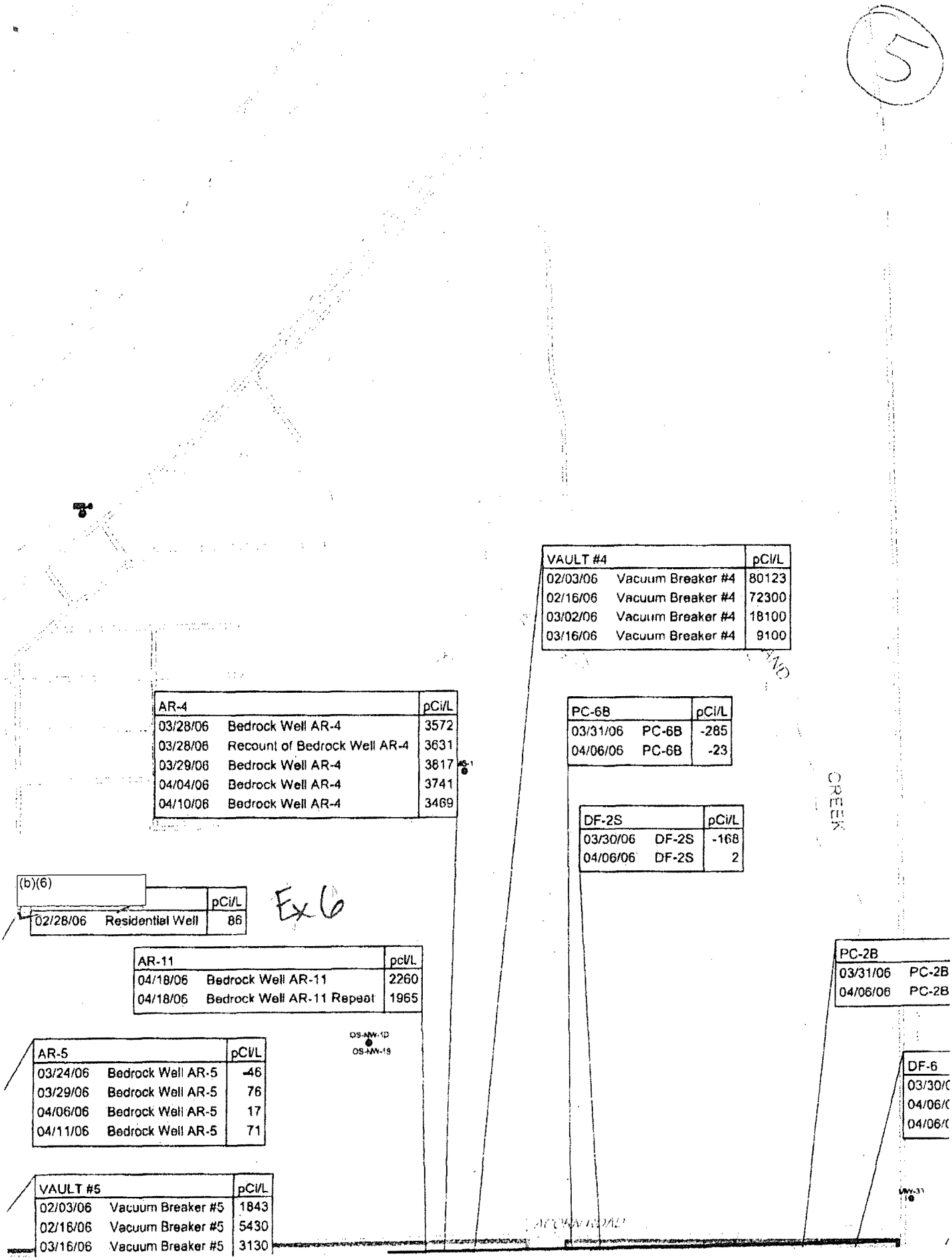
DF-4DS		pCi/L
03/30/06	DF-4DS	-172
04/06/06	DF-4DS	84
04/06/06	DF-4DS Duplicate	137

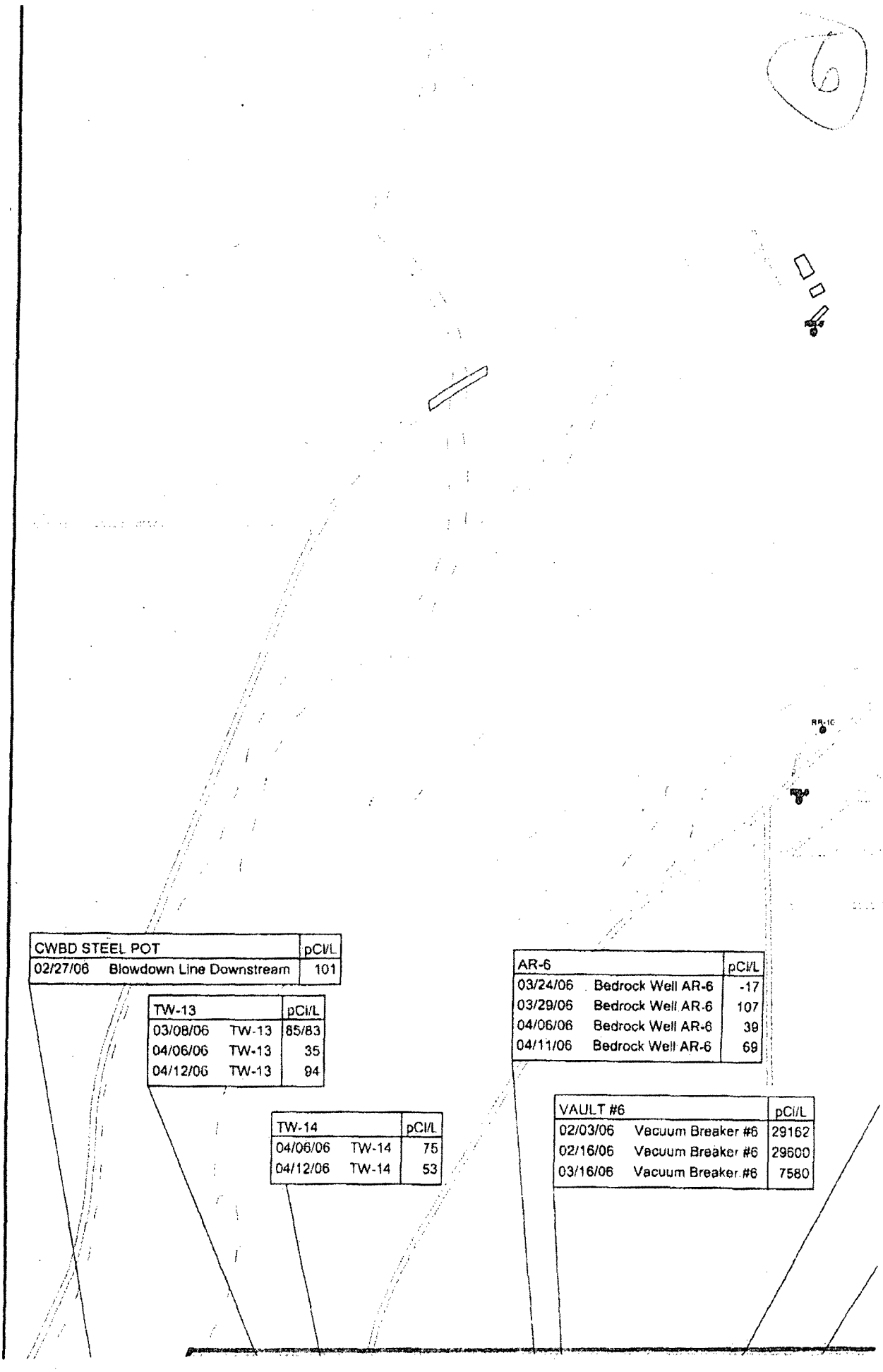
AR-8		pCi/L
04/05/06	Bedrock Well AR-8	-45
04/11/06	Bedrock Well AR-8	99

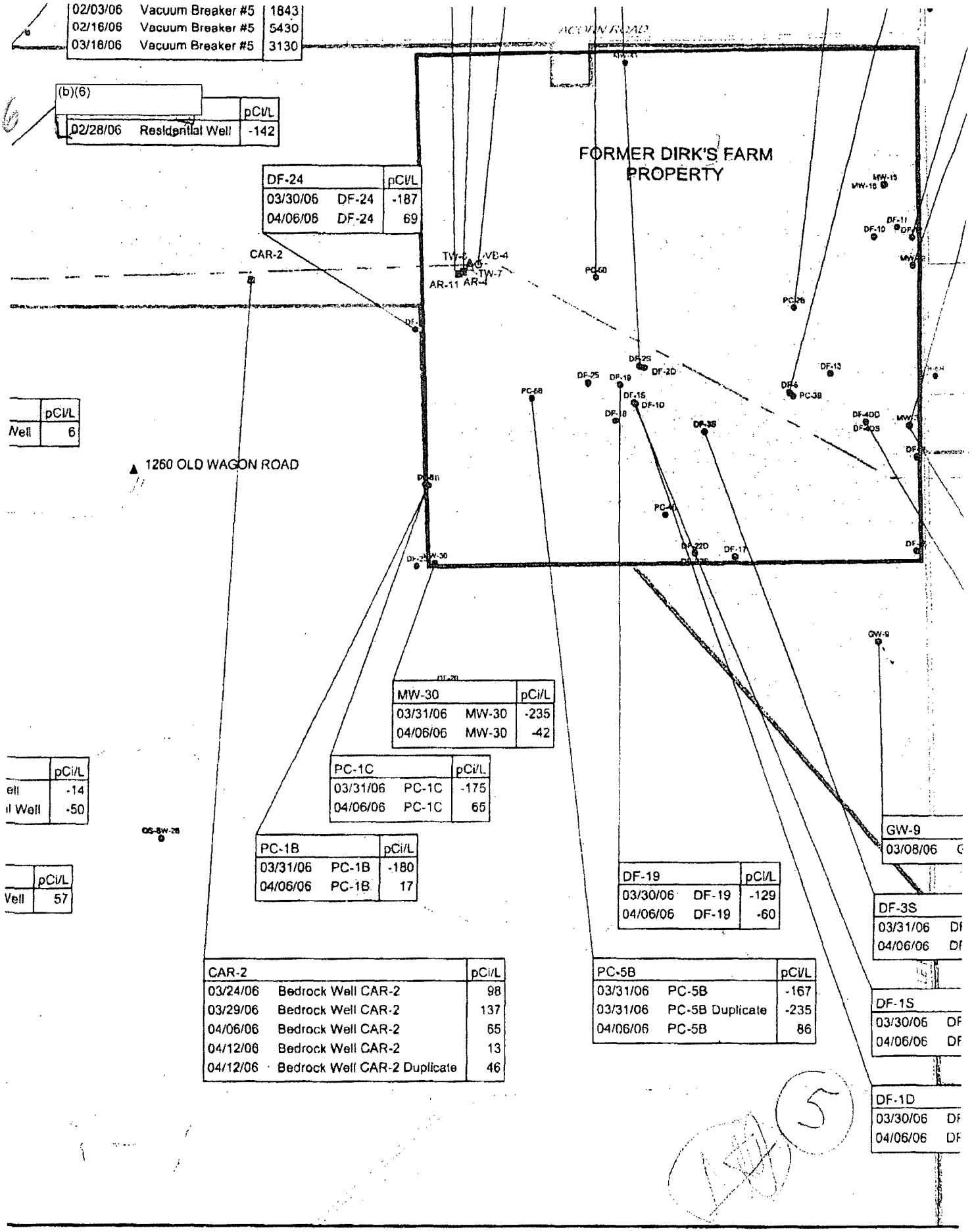
Potat
03/23

CAR-3
03/30/06
04/05/06
04/11/06

AR-7	
03/30/06	Bedrock W
04/05/06	Bedrock W
04/11/06	Bedrock W


5
VAULT #4 | pCi/L
02/03/06 Vacuum Breaker #4 80123
02/16/06 Vacuum Breaker #4 72300
03/02/06 Vacuum Breaker #4 18100
03/16/06 Vacuum Breaker #4 9100
AR-4 | pCi/L
03/28/06 Bedrock Well AR-4 3572
03/28/06 Recount of Bedrock Well AR-4 3631
03/29/06 Bedrock Well AR-4 3617
04/04/06 Bedrock Well AR-4 3741
04/10/06 Bedrock Well AR-4 3469
PC-6B | pCi/L
03/31/06 PC-6B -285
04/06/06 PC-6B -23
DF-2S | pCi/L
03/30/06 DF-2S -168
04/06/06 DF-2S 2
(b)(6)
pCi/L
02/28/06 Residential Well 86
Ex 6
AR-11 | pCi/L
04/18/06 Bedrock Well AR-11 2260
04/18/06 Bedrock Well AR-11 Repeat 1965
PC-2B
03/31/06 PC-2B
04/06/06 PC-2B
DF-6
03/30/0
04/06/0
04/06/0
AR-5 | pCi/L
03/24/06 Bedrock Well AR-5 -46
03/29/06 Bedrock Well AR-5 76
04/06/06 Bedrock Well AR-5 17
04/11/06 Bedrock Well AR-5 71
VAULT #5 | pCi/L
02/03/06 Vacuum Breaker #5 1843
02/16/06 Vacuum Breaker #5 5430
03/16/06 Vacuum Breaker #5 3130
OS-MW-1D
OS-MW-1S


6
RR-1C
CWBD STEEL POT
02/27/06 Blowdown Line Downstream 101
TW-13
03/08/06 TW-13 85/83
04/06/06 TW-13 35
04/12/06 TW-13 94
TW-14
04/06/06 TW-14 75
04/12/06 TW-14 53
AR-6
03/24/06 Bedrock Well AR-6 -17
03/29/06 Bedrock Well AR-6 107
04/06/06 Bedrock Well AR-6 39
04/11/06 Bedrock Well AR-6 69
VAULT #6
02/03/06 Vacuum Breaker #6 29162
02/16/06 Vacuum Breaker #6 29600
03/16/06 Vacuum Breaker #6 7580



02/03/06	Vacuum Breaker #5	1843
02/16/06	Vacuum Breaker #5	5430
03/16/06	Vacuum Breaker #5	3130

(b)(6)

		pCi/L
02/28/06	Residential Well	-142

DF-24		pCi/L
03/30/06	DF-24	-187
04/06/06	DF-24	69

	pCi/L
Well	6

	pCi/L
ell	-14
l Well	-50

	pCi/L
Vell	57

MW-30		pCi/L
03/31/06	MW-30	-235
04/06/06	MW-30	-42

PC-1C		pCi/L
03/31/06	PC-1C	-175
04/06/06	PC-1C	65

PC-1B		pCi/L
03/31/06	PC-1B	-180
04/06/06	PC-1B	17

DF-19		pCi/L
03/30/06	DF-19	-129
04/06/06	DF-19	-60

CAR-2		pCi/L
03/24/06	Bedrock Well CAR-2	98
03/29/06	Bedrock Well CAR-2	137
04/06/06	Bedrock Well CAR-2	65
04/12/06	Bedrock Well CAR-2	13
04/12/06	Bedrock Well CAR-2 Duplicate	46

PC-5B		pCi/L
03/31/06	PC-5B	-167
03/31/06	PC-5B Duplicate	-235
04/06/06	PC-5B	86

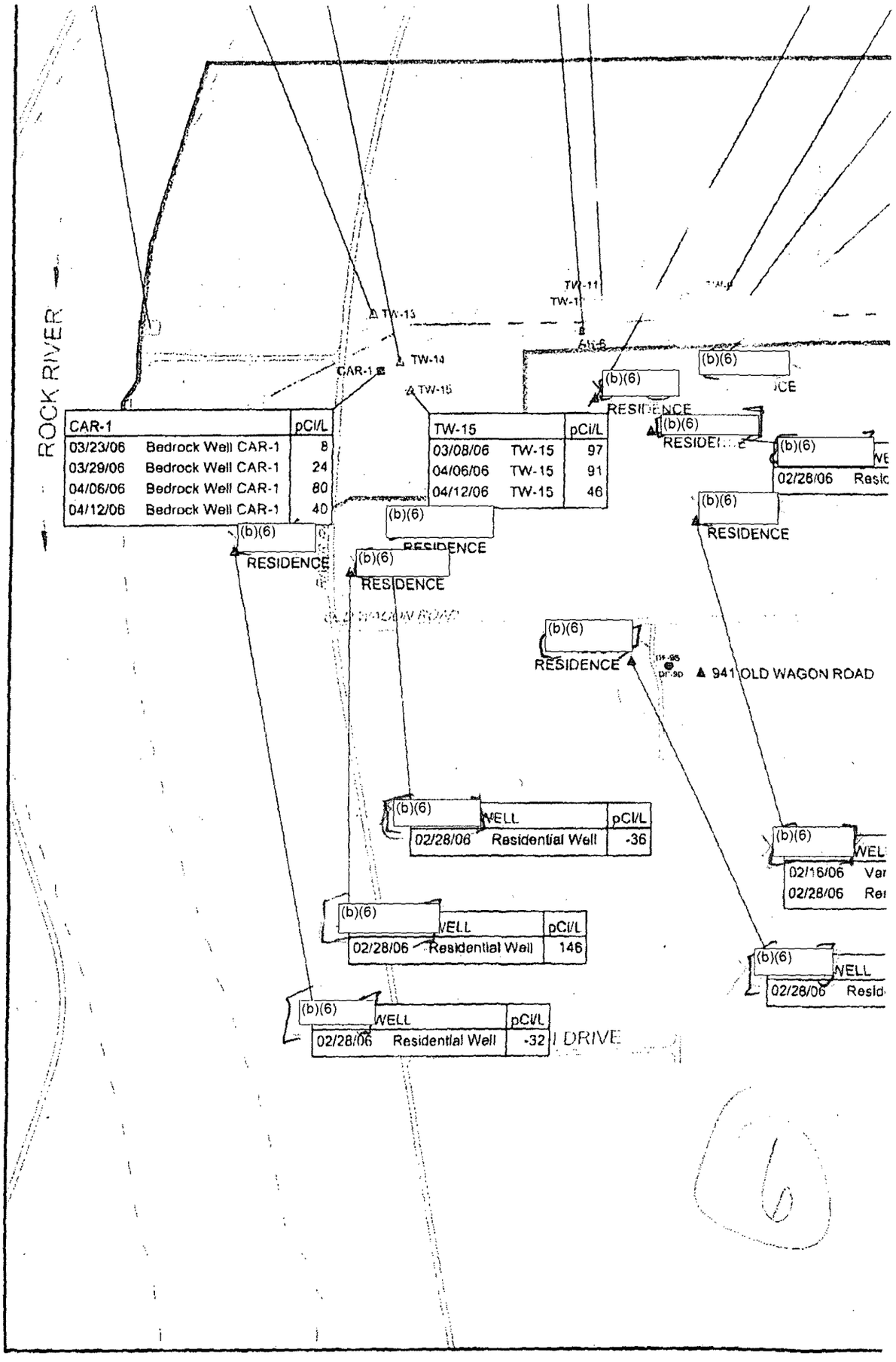
GW-9		
03/08/06		

DF-3S		
03/31/06		
04/06/06		

DF-1S		
03/30/06		
04/06/06		

DF-1D		
03/30/06		
04/06/06		

Ex. 6



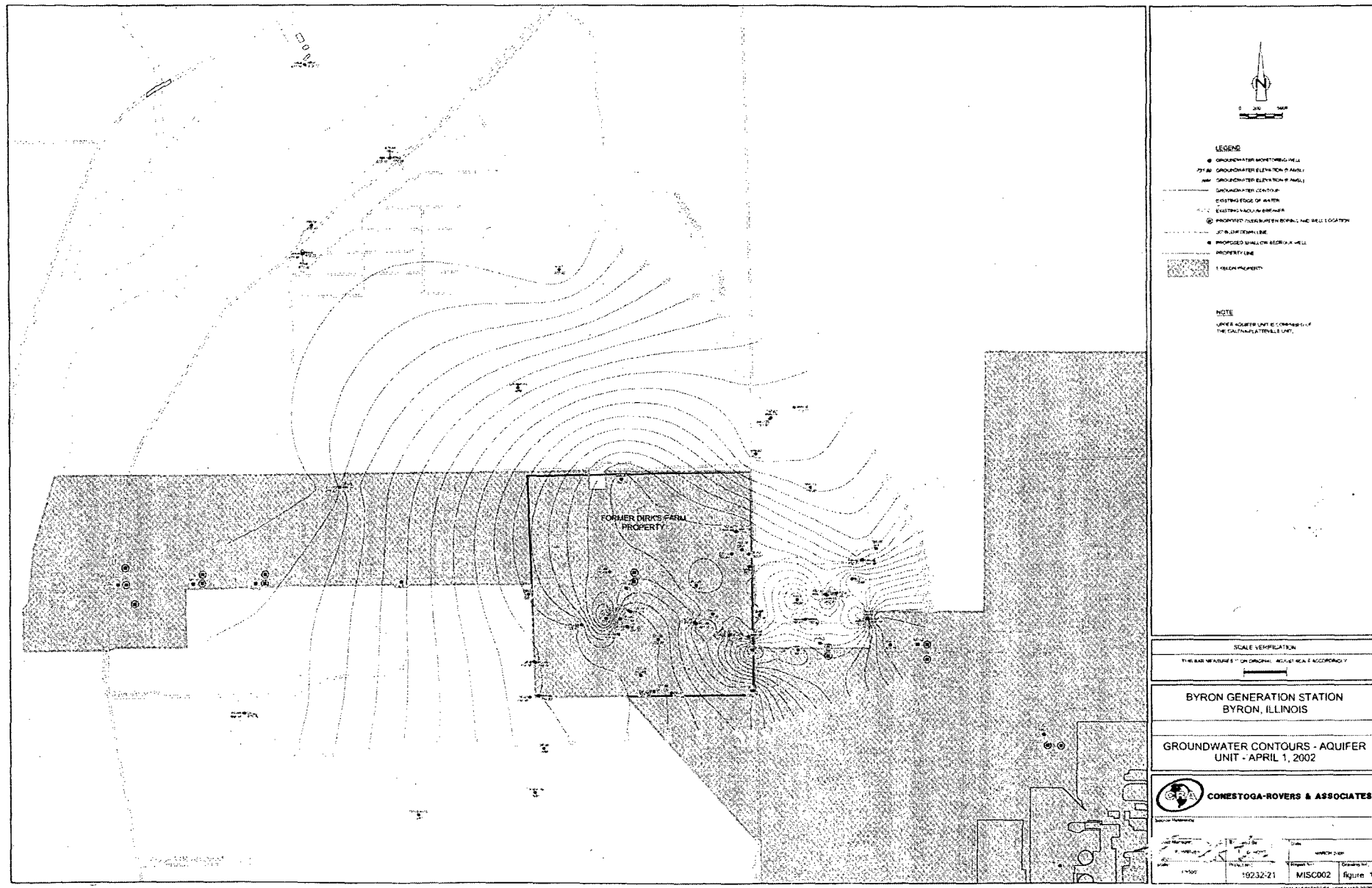
CAR-1		pCi/L
03/23/06	Bedrock Well CAR-1	8
03/29/06	Bedrock Well CAR-1	24
04/06/06	Bedrock Well CAR-1	80
04/12/06	Bedrock Well CAR-1	40

TW-15		pCi/L
03/08/06	TW-15	97
04/06/06	TW-15	91
04/12/06	TW-15	46

(b)(6) WELL		pCi/L
02/28/06	Residential Well	-36

(b)(6) WELL		pCi/L
02/28/06	Residential Well	146

(b)(6) WELL		pCi/L
02/28/06	Residential Well	-32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LEGEND
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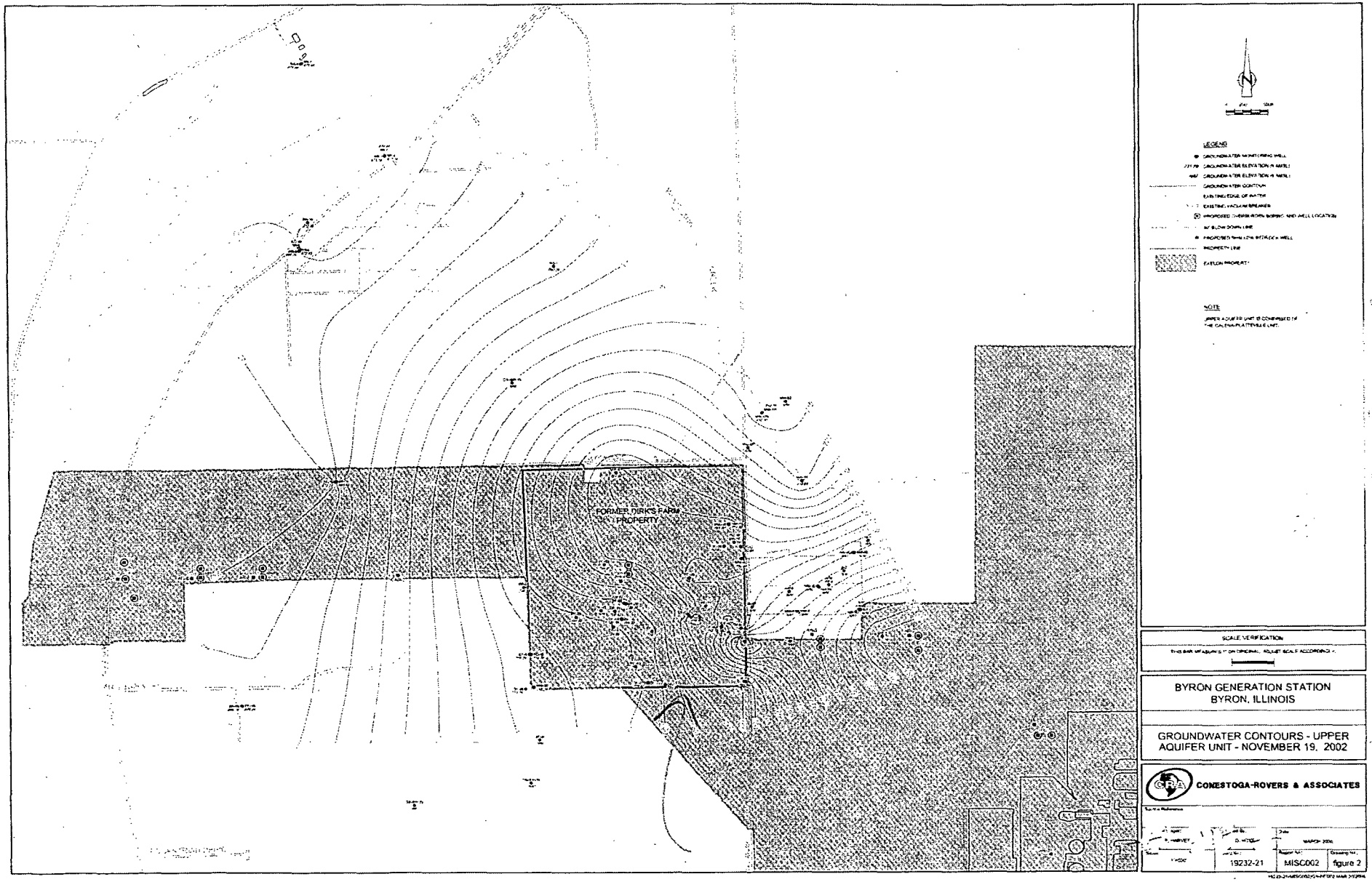
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - AQUIFER UNIT - APRIL 1, 2002
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 1


FORMER DIRK'S FARM PROPERTY
LEGEND
NOTE
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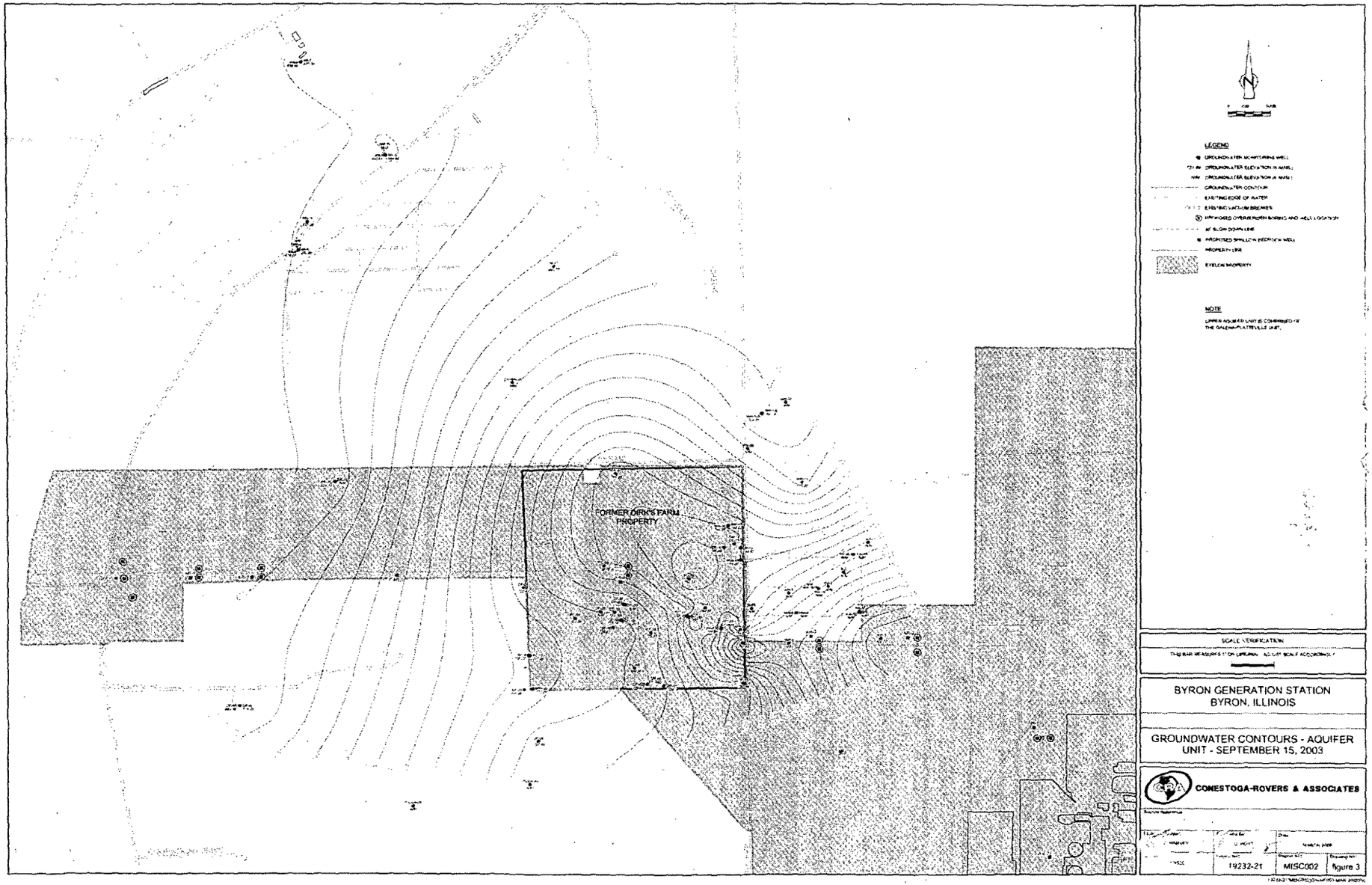
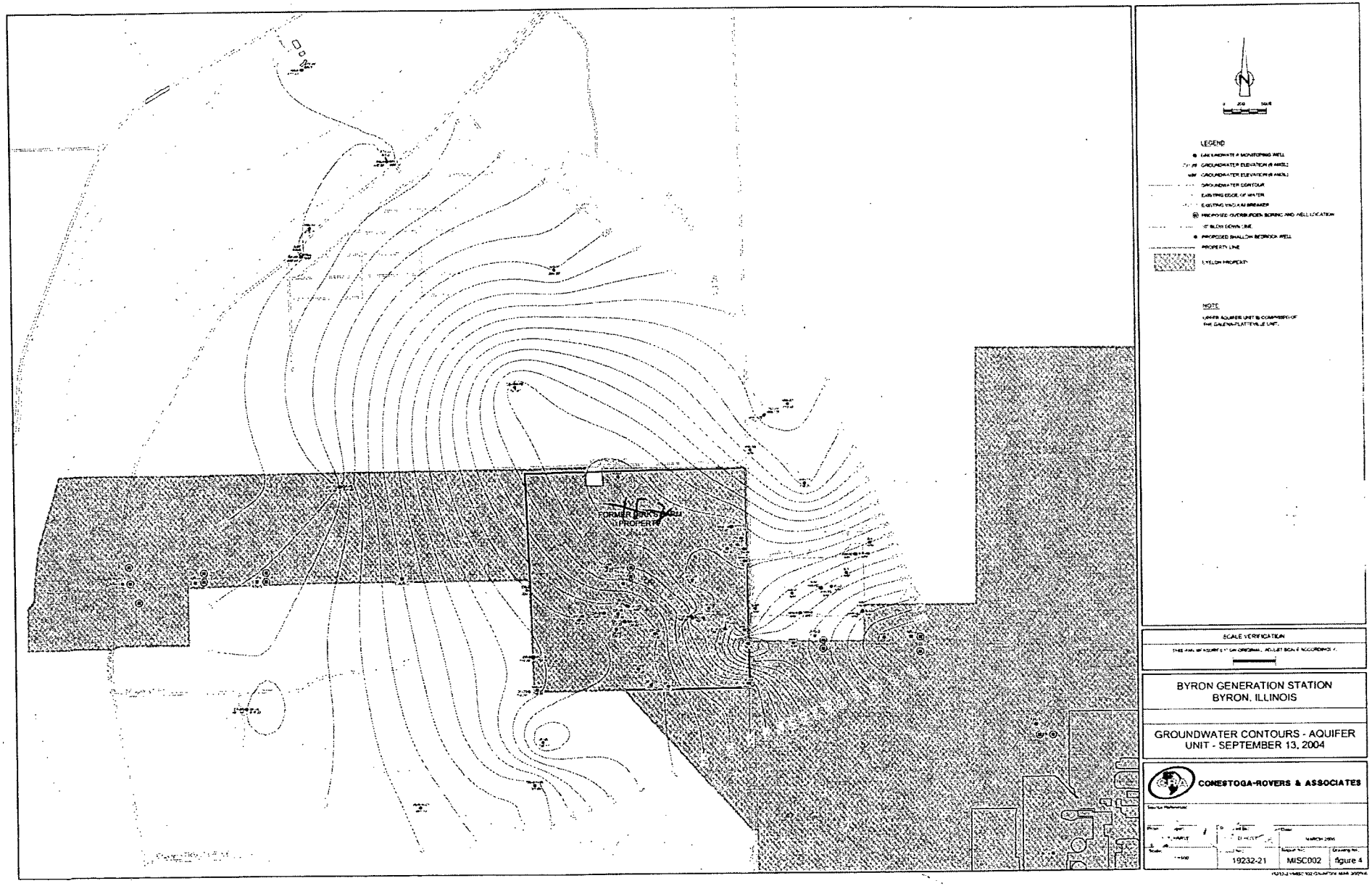
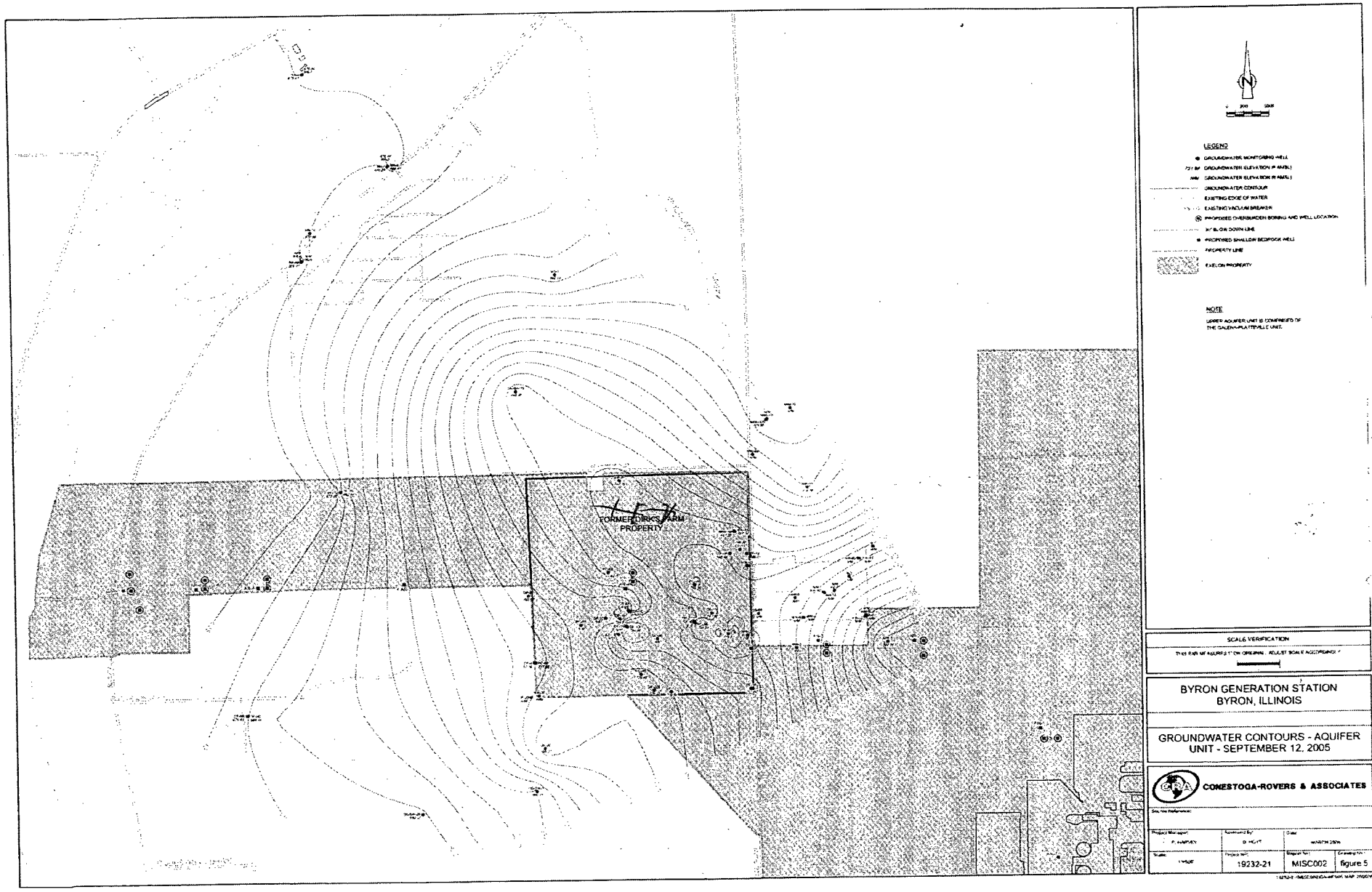
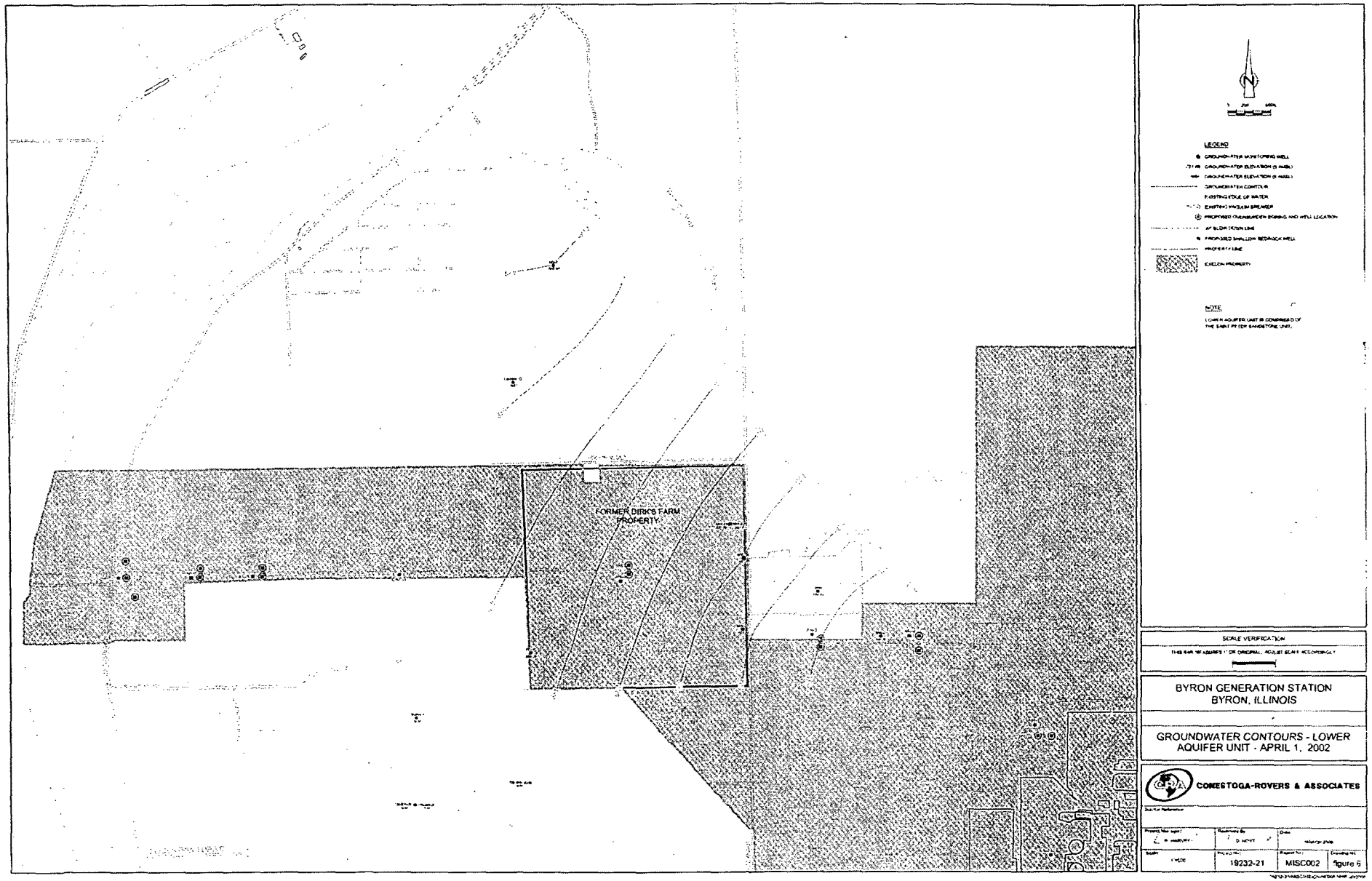
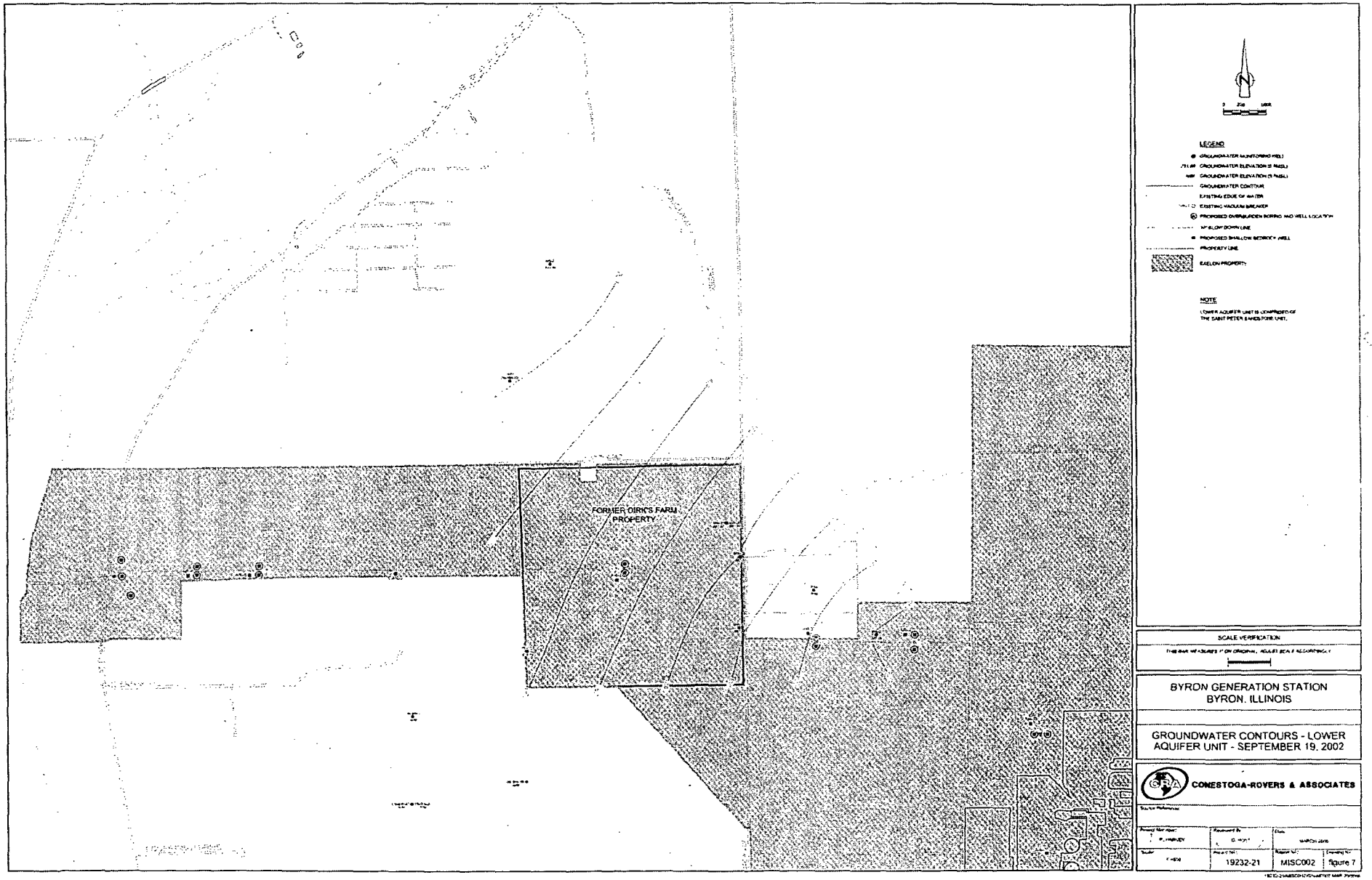
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - UPPER AQUIFER UNIT - NOVEMBER 19, 2002
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 2

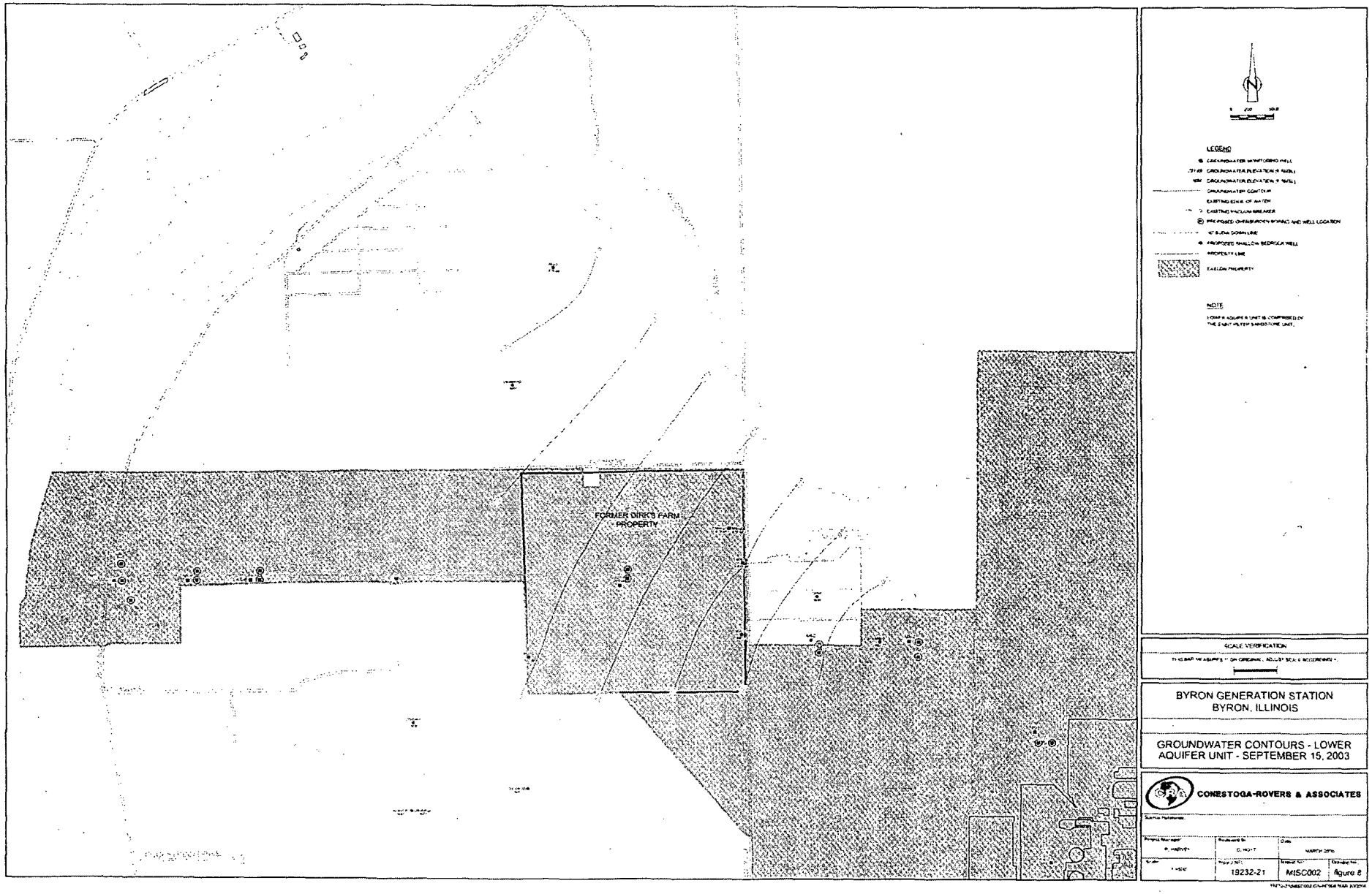

FORMER DIRK'S FARM PROPERTY
LEGEND
GROUNDWATER MONITORING WELL
GROUNDWATER ELEVATION IN METRES
GROUNDWATER ELEVATION IN METRES
GROUNDWATER CONTOUR
EXISTING EDGE OF WATER
EXISTING VACUUM BREAKER
PROPOSED OVERBURDEN BORING AND WELL LOCATION
GROUNDWATER FLOW DIRECTION
PROPOSED SHALLOW BEDROCK WELL
PROPERTY LINE
EXELON PROPERTY
NOTE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - AQUIFER UNIT - SEPTEMBER 15, 2003
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 3

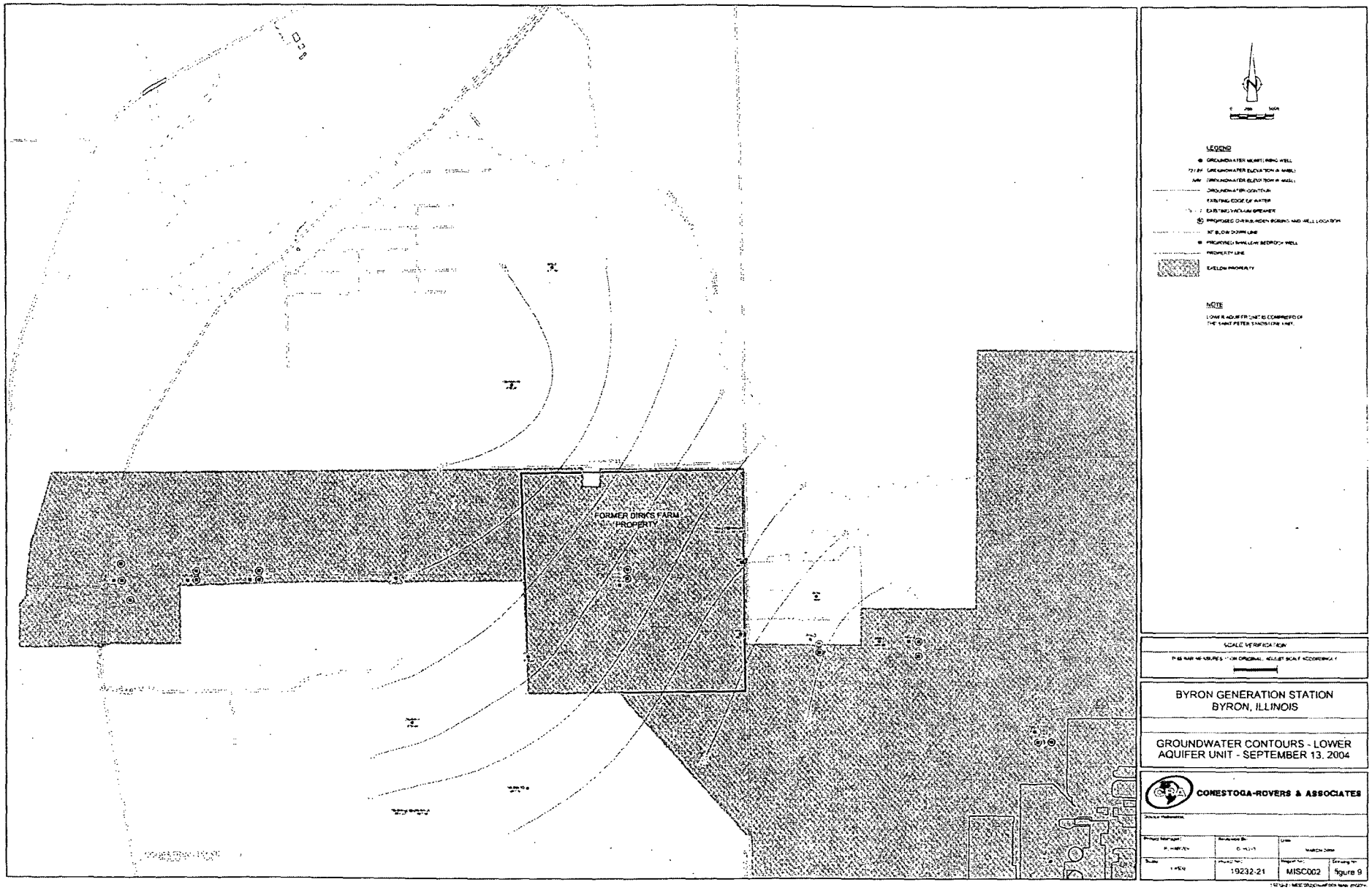

LEGEND
NOTE:
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - AQUIFER UNIT - SEPTEMBER 13, 2004
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 4

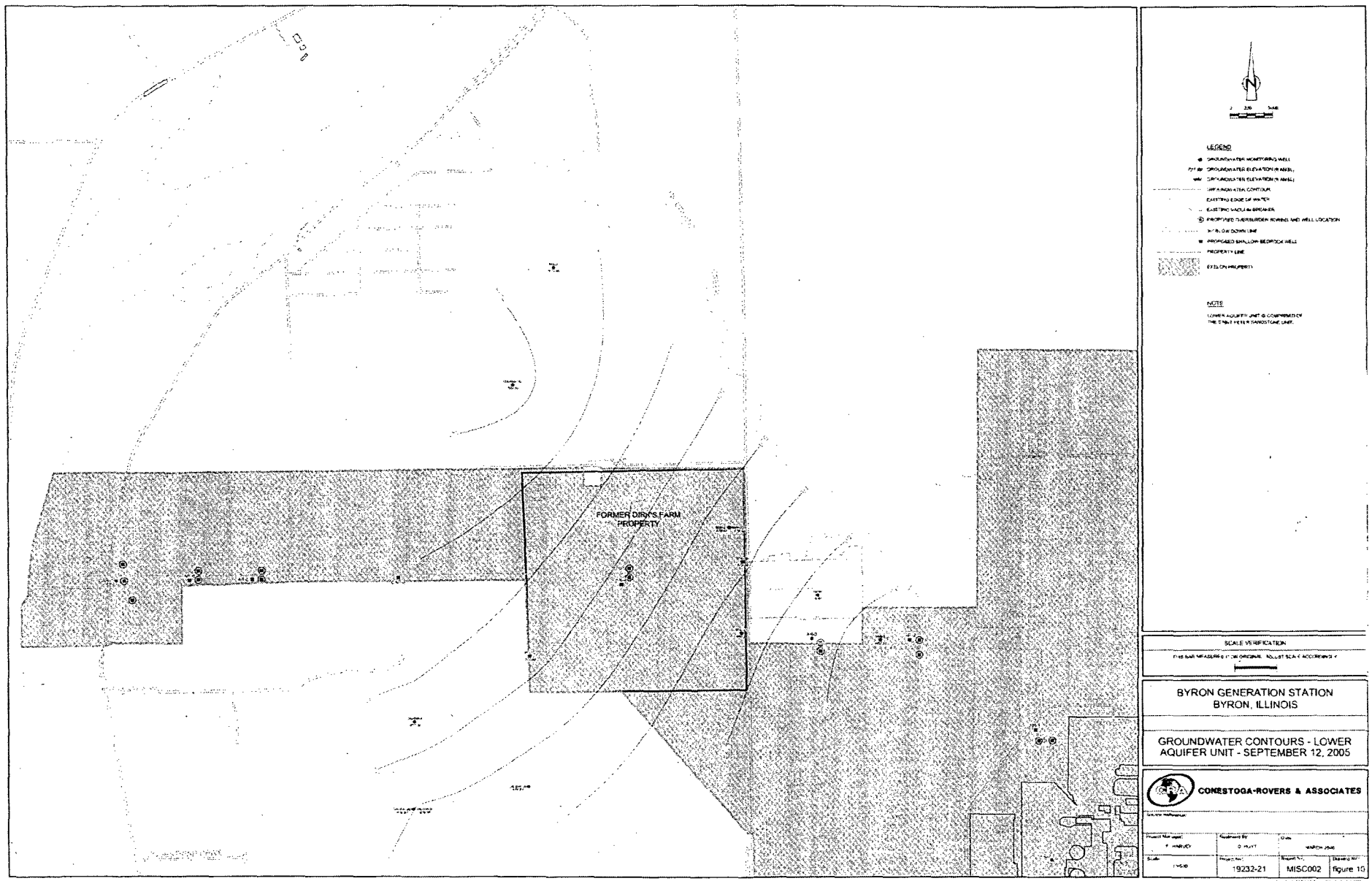

FORMER DIRKS FARM PROPERTY
LEGEND
GROUNDWATER MONITORING WELL
GROUNDWATER ELEVATION (ft AMSL)
GROUNDWATER ELEVATION (ft AMSL)
GROUNDWATER CONTOUR
EXISTING EDGE OF WATER
EXISTING VACUUM BREAKER
PROPOSED OVERBURDEN BORING AND WELL LOCATION
30' BLOW DOWN LINE
PROPOSED SHALLOW BEDROCK WELL
PROPERTY LINE
EXELON PROPERTY
NOTE
UPPER AQUIFER UNIT IS COMPRISED OF THE GALENA-PLATTEVILLE UNIT.
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - AQUIFER UNIT - SEPTEMBER 12, 2005
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 5

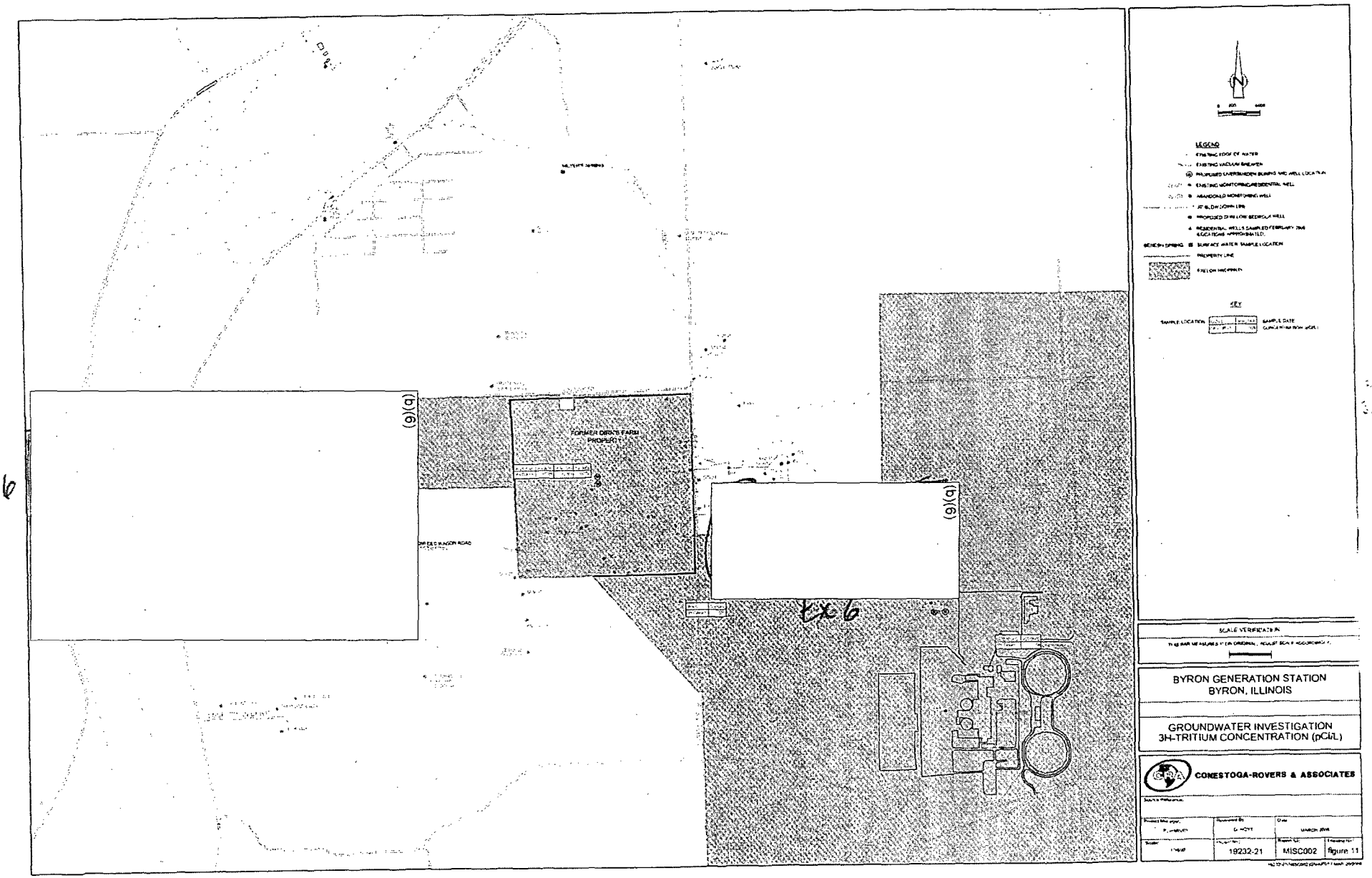

FORMER DIRK'S FARM PROPERTY
LEGEND
NOTE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - LOWER AQUIFER UNIT - APRIL 1, 2002
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 6

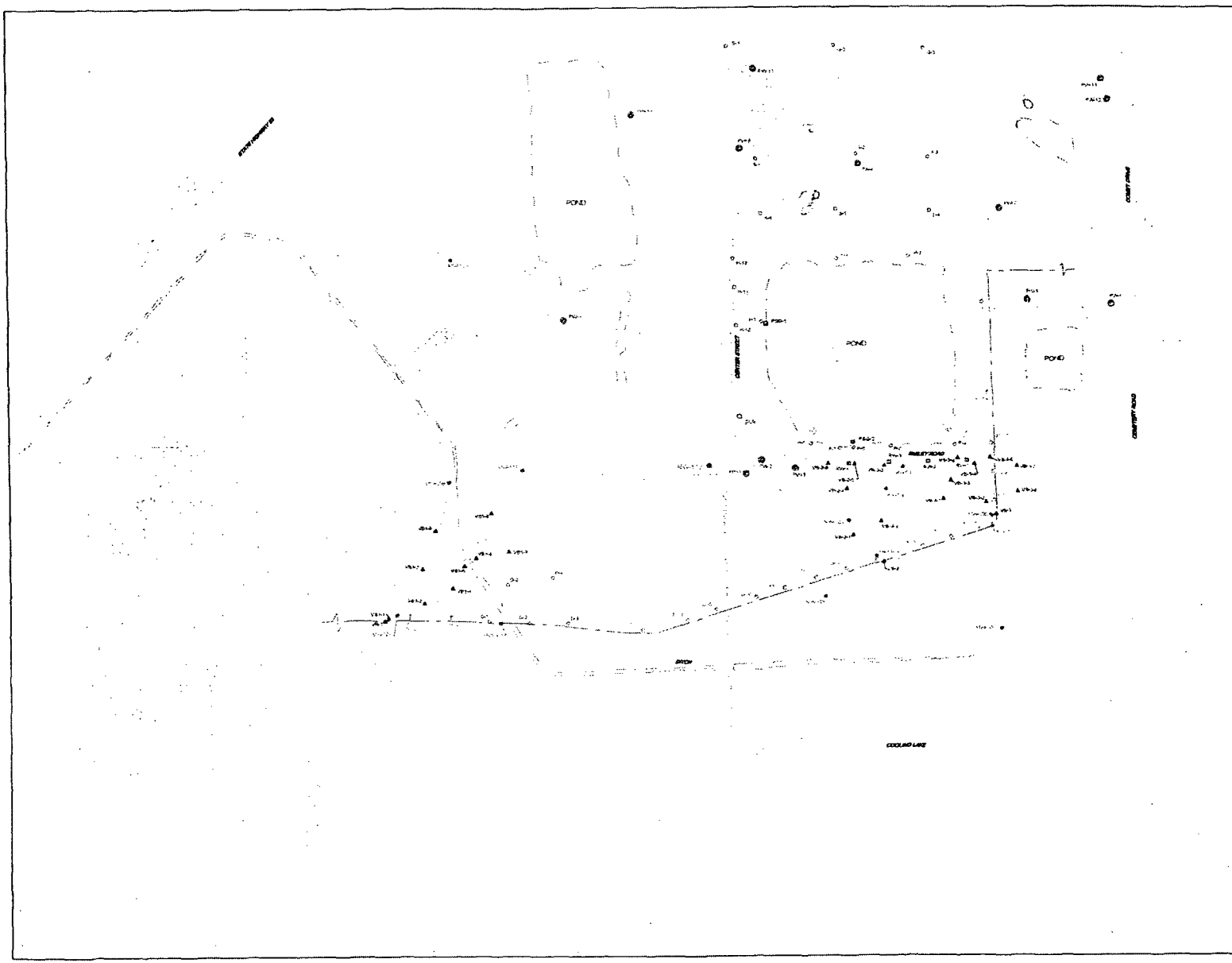

FORMER DIRK'S FARM PROPERTY
LEGEND
EXELON PROPERTY
NOTE
LOWER AQUIFER UNIT IS COMPRISED OF THE SAINT PETER SANDSTONE UNIT.
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - LOWER AQUIFER UNIT - SEPTEMBER 19, 2002
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 7


FORMER DIRK'S FARM PROPERTY
LEGEND
NOTE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - LOWER AQUIFER UNIT - SEPTEMBER 15, 2003
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 8


FORMER DIRK'S FARM PROPERTY
LEGEND
EXELON PROPERTY
NOTE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - LOWER AQUIFER UNIT - SEPTEMBER 13, 2004
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 9


FORMER DIRK'S FARM PROPERTY
LEGEND
NOTE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER CONTOURS - LOWER AQUIFER UNIT - SEPTEMBER 12, 2005
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 10


(b)(6)
FORMER GROTH FARM PROPERTY
(b)(6)
Ex 6
Ex 6
LEGEND
SAMPLE LOCATION
SAMPLE DATE
SCALE VERIFICATION
BYRON GENERATION STATION
BYRON, ILLINOIS
GROUNDWATER INVESTIGATION
3H-TRITIUM CONCENTRATION (pCi/L)
CONESTOGA-ROVERS & ASSOCIATES
19232-21
MISC002
figure 11



LEGEND

EXISTING FENCE LINE/APPROXIMATE PROPERTY LINE

FLOW DOWN LINE

EXISTING MONITORING WELL LOCATION AND IDENTIFIER

VACUUM BREAKER LOCATION AND IDENTIFIER

TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER ALONG BLOWDOWN LINE

TEMPORARY MONITORING WELL LOCATION AND IDENTIFIER

MINIATE WELL LOCATION (APPROXIMATE)

SCALE VERIFICATION

THIS BAR MEASURES 1 DIA ORIGINAL. ADJUST SCALE ACCORDINGLY.

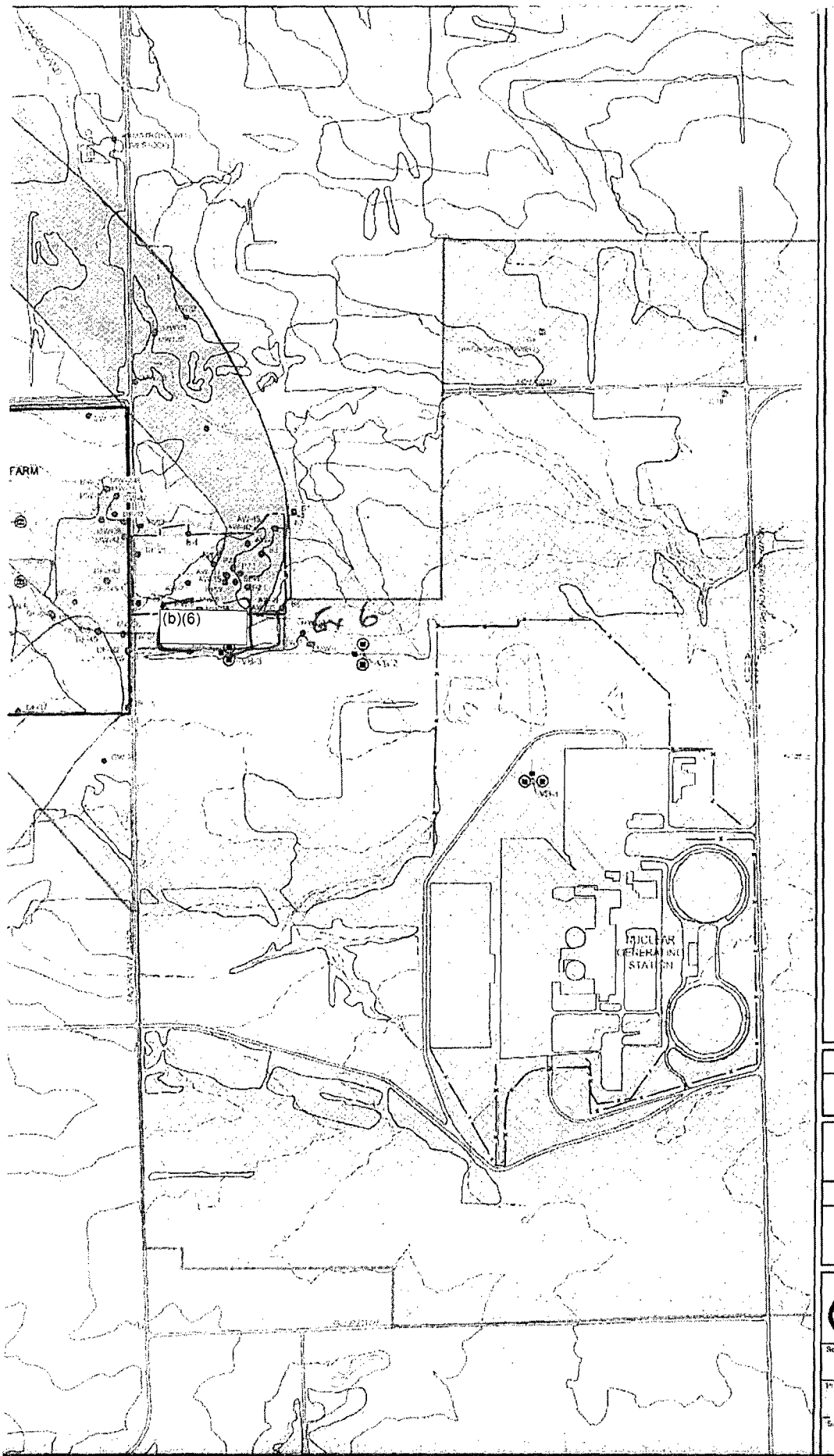
BRAIDWOOD STATION
BRACEVILLE, ILLINOIS

BRAIDWOOD STATION

SITE PLAN
WITH MONITORING LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Project Manager	Reviewed By	Date	
P. HARVEY	P. HARVEY	[illegible]	
Scale	Project No.	Report No.	Drawing No.
[illegible]	16841-09	DEC 12-05	figure c



0 200 600ft

LEGEND:

- EXISTING EDGE OF WATER
- EXISTING CONTOUR
- EXISTING VACUUM BREAKER
- EXISTING MONITORING/RESIDENTIAL WELL
- ABANDONED MONITORING WELL
- BENESH SPRING — SURFACE WATER SAMPLE LOCATION
- PROPOSED EXISTING WELL TO BE SAMPLED
- PROPOSED OVERBURDEN BORING AND WELL LOCATION
- 30" BLOW DOWN LINE
- PROPOSED INTERMEDIATE BEDROCK WELL (APPROX. 120ft DEEP)
- PROPOSED SHALLOW BEDROCK WELL (APPROX. 70ft DEEP)
- EXISTING EXELON WELL
- PROPERTY LINE
- ESTIMATED EXTENT OF TCP IMPACT
- TCE & CYANIDE ESTIMATED EXTENT OF IMPACT
- RESIDENTIAL WELLS SAMPLED FEBRUARY 2006 (LOCATIONS APPROXIMATED)
- EXELON PROPERTY

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

BYRON GENERATION STATION
BYRON, ILLINOIS

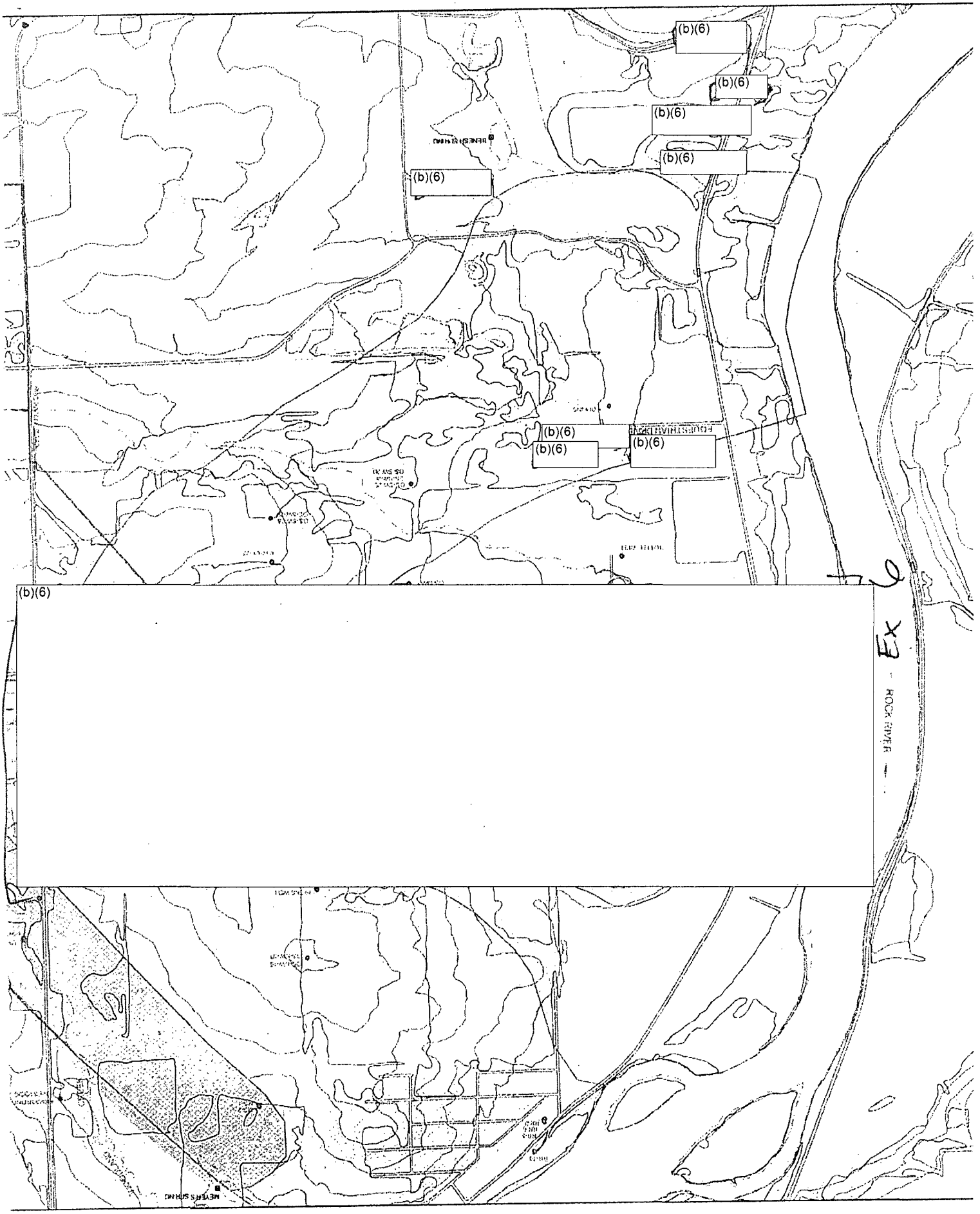
GROUNDWATER INVESTIGATION

CONESTOGA-ROVERS & ASSOCIATE

Source Reference:

Project Manager	Approved By	Date
P. HARVEY	K. DUWAL	2-2-06

Scale	Project No.	Report No.	Drawing No.
as shown	19232-21	MISC001	figure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Ex
ROCK RIVER

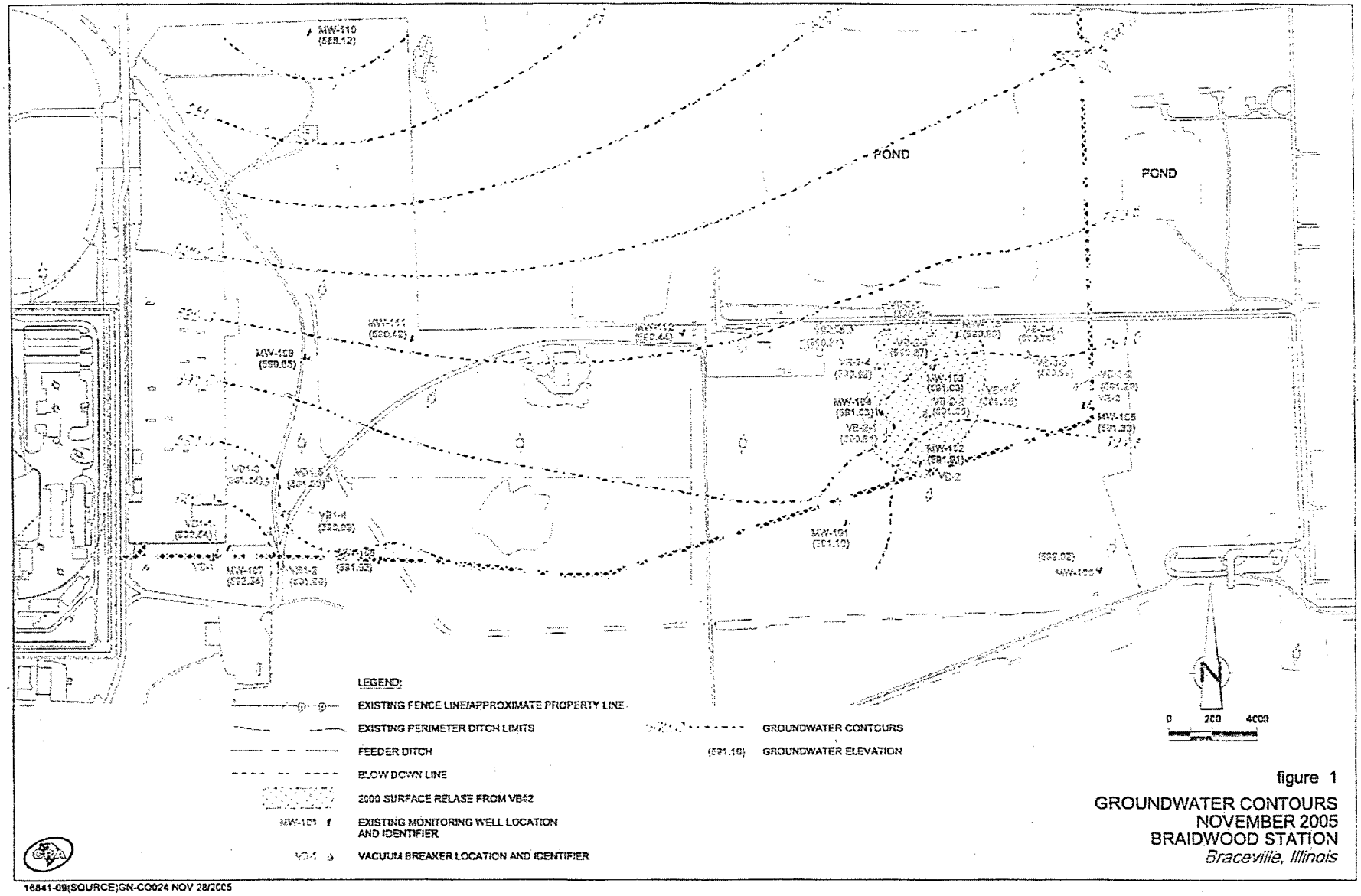
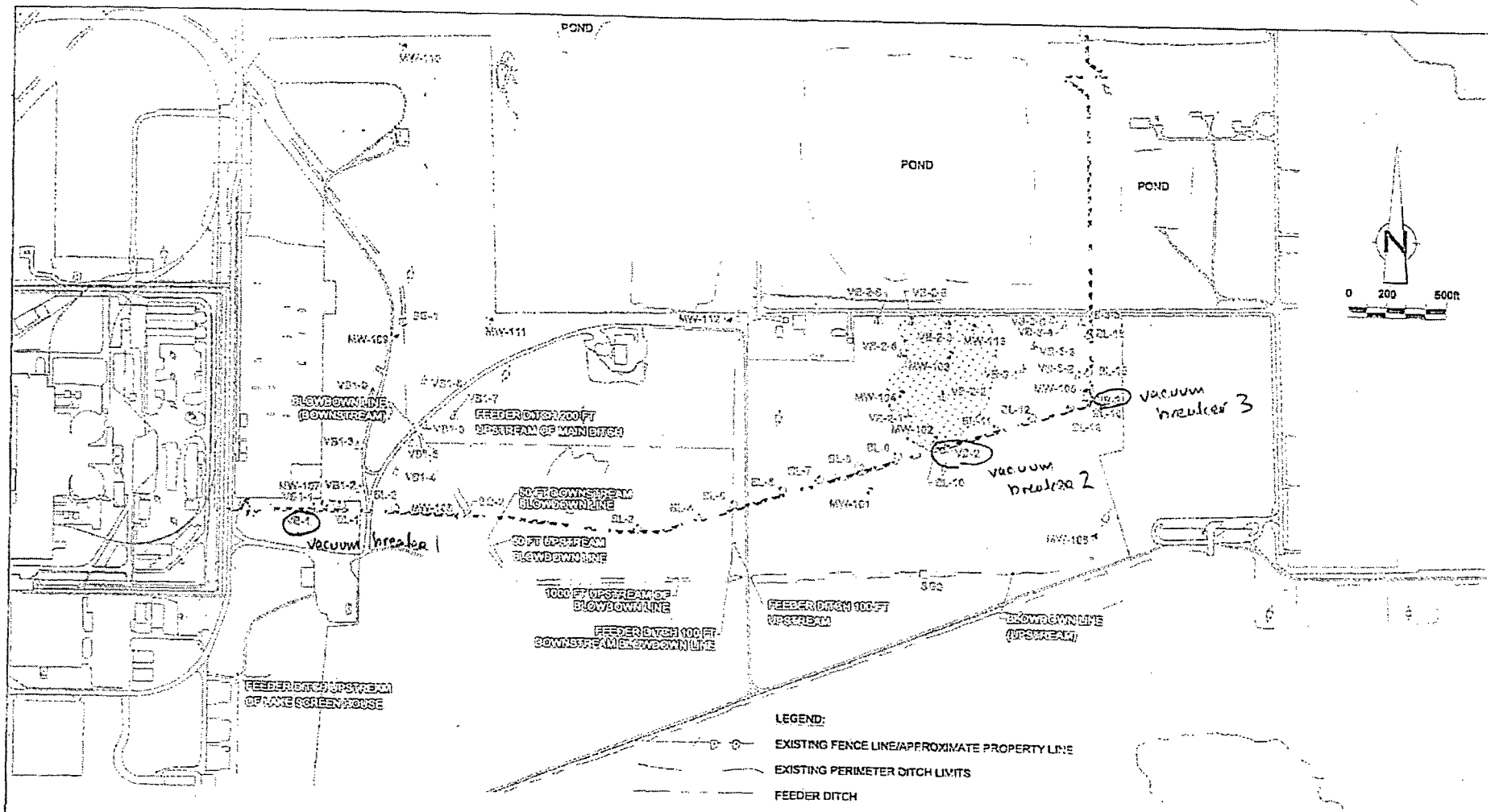


figure 1

GROUNDWATER CONTOURS
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois

16841-09(SOURCE)GN-CO024 NOV 28/2005



16B41-09(SOURCE)GN-CO020 NOV 28/2005

figure 1

SITE PLAN
AND WELL LOCATIONS
BRAIDWOOD STATION
Braceville, Illinois

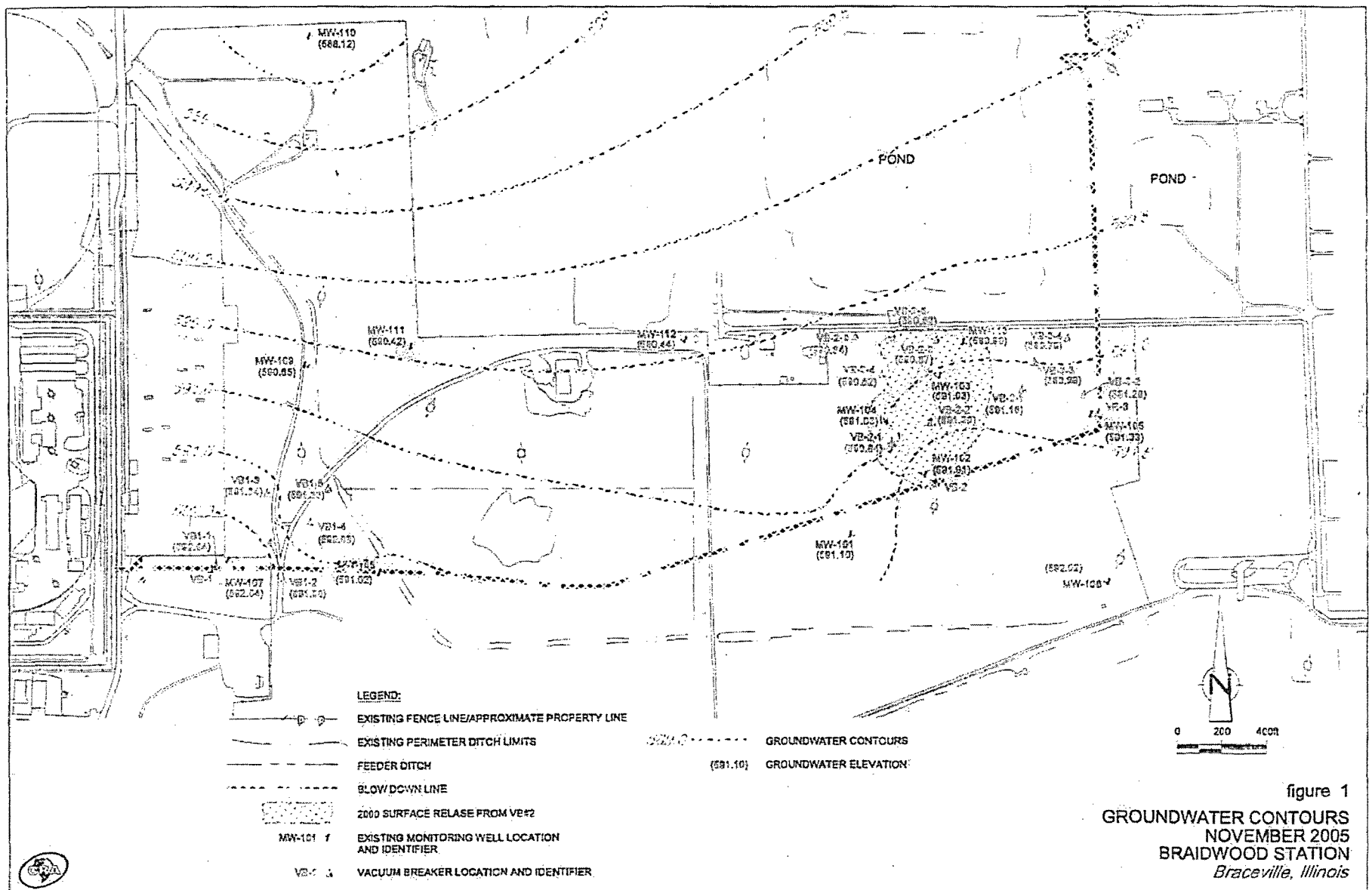


figure 1

GROUNDWATER CONTOURS
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois

16841-09(SOURCE)GN-CO024 NOV 28/2005

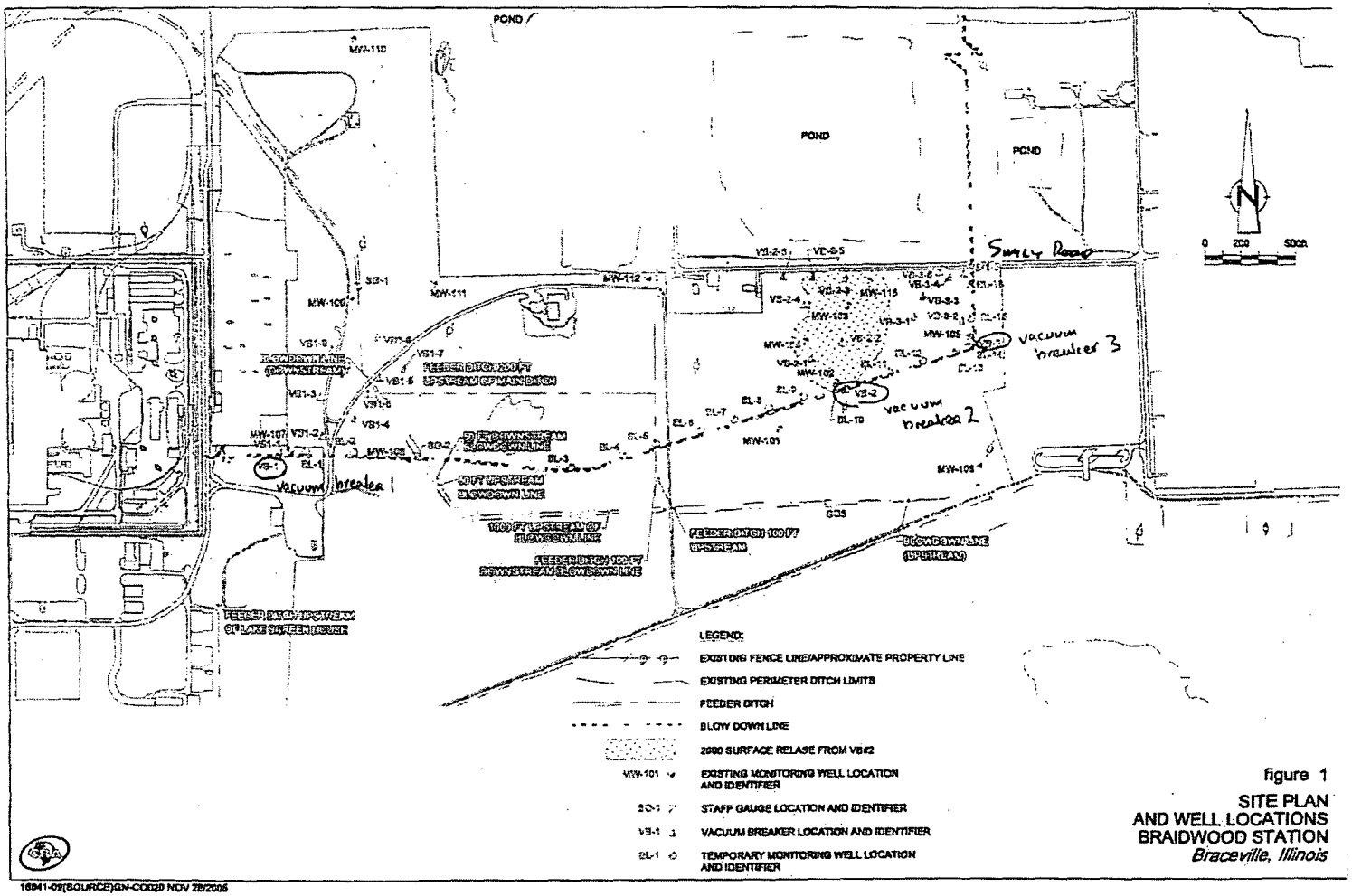


figure 1
SITE PLAN
AND WELL LOCATIONS
BRAIDWOOD STATION
Braceville, Illinois

16941-09(SOURCE)GN-C0020 NOV 28/2006

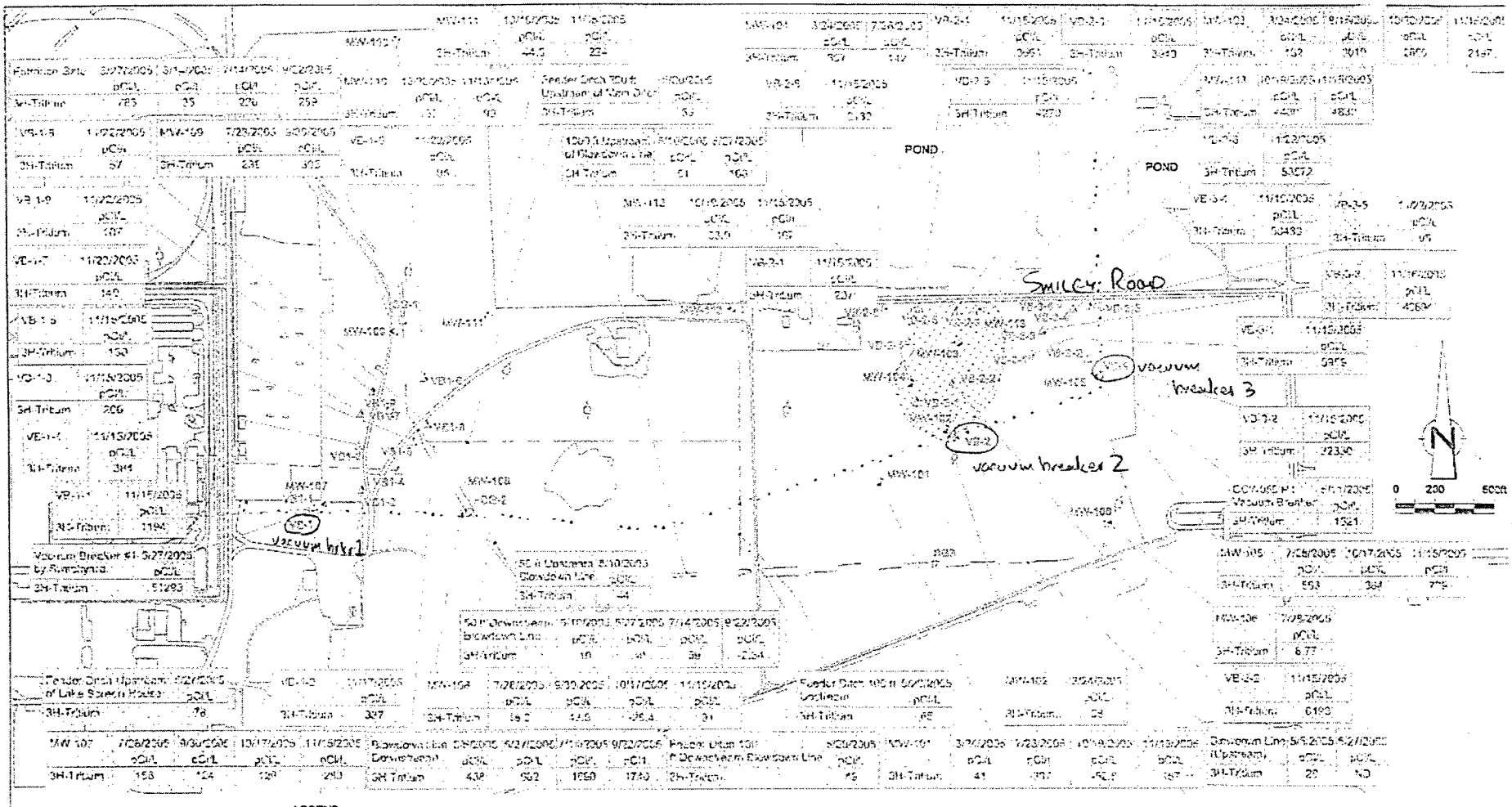


figure 2

TRITIUM IN GROUNDWATER AND SURFACE WATER BRAIDWOOD STATION

Braceville, Illinois

16841-09(SOURCE)GN-CO022 NOV 28/2005

NOV-30-2005 14:02 +8154172410 P.05
11-30-05 FROM-BRAIDWOOD STATION RADIATION PROTECTION T-

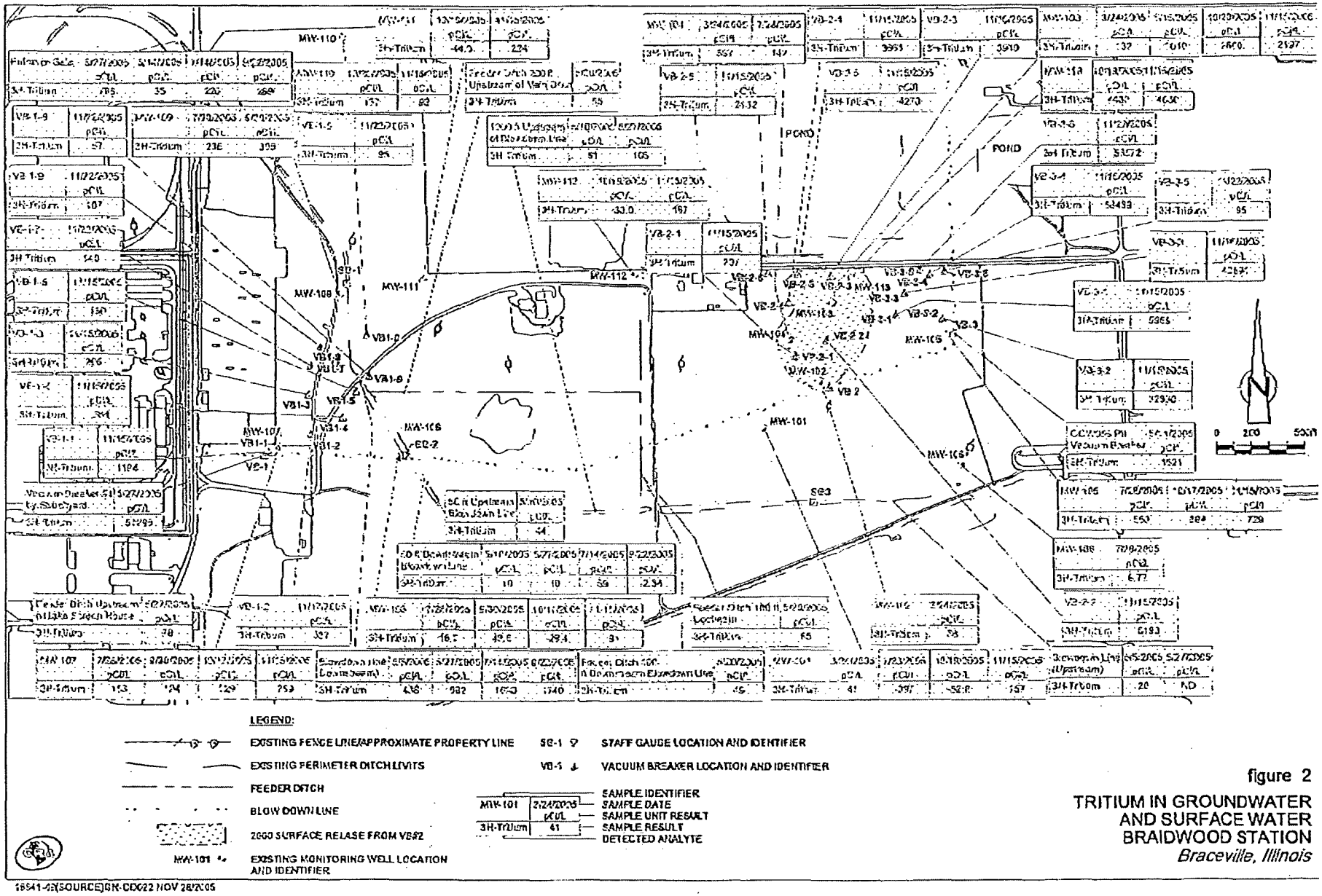


figure 2

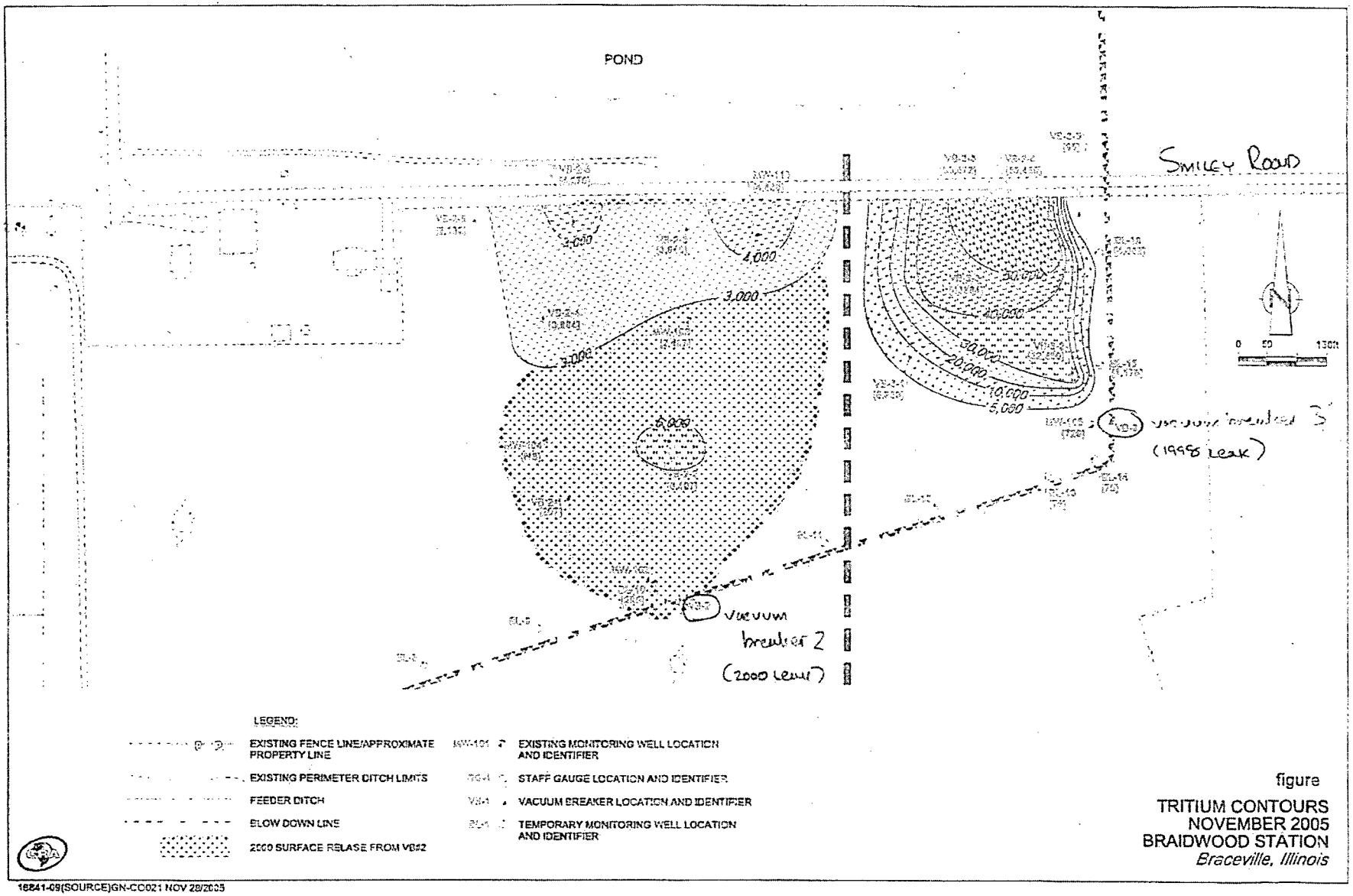
TRITIUM IN GROUNDWATER AND SURFACE WATER
BRAIDWOOD STATION
Braceville, Illinois

18541-02(SOURCE)GK-CD022 NOV 28/2005

figure 3

TRITIUM IN GROUNDWATER
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois

16841-09(SOURCE)GN-CO023 NOV 28/2005



figure

TRITIUM CONTOURS
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois

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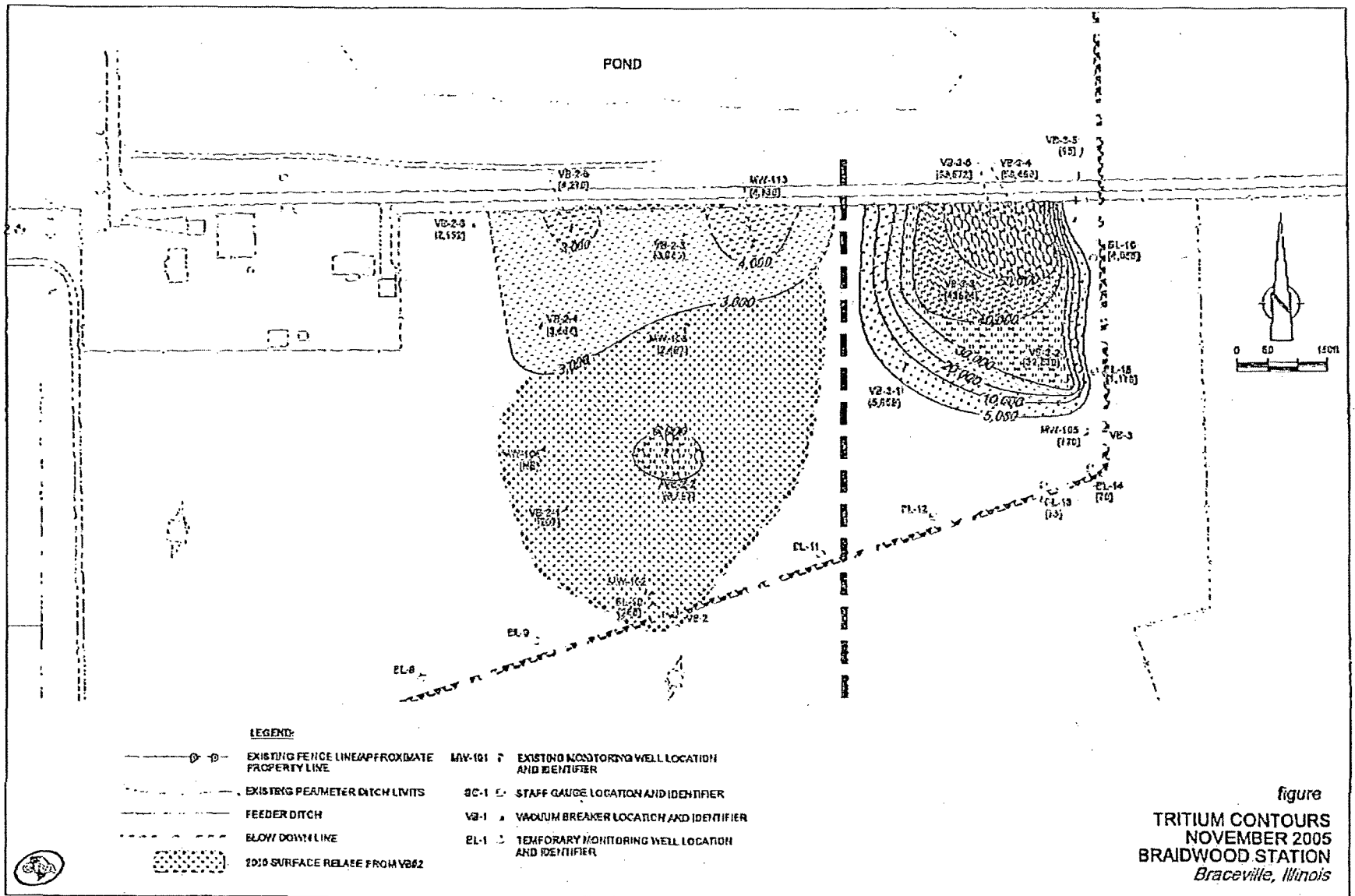

figure
TRITIUM CONTOURS
NOVEMBER 2005
BRAIDWOOD STATION
Braceville, Illinois