



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region
Milwaukee Service Center
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
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FAX 414-263-8716
TDD 414-263-8713

October 7, 1999

Mr. Gregg Apostoloff
Archdiocese of Milwaukee
7301 West Nash Street
Milwaukee, Wisconsin 53216

SUBJECT: Request for closure of 560-gallon former unleaded gasoline underground storage tank, 3801 South 6th Street, Milwaukee, Wisconsin. BRR-LUST FID#241525130.

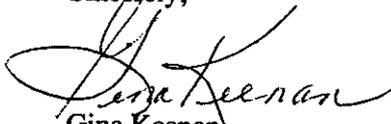
Dear Mr. Apostoloff:

We have reviewed the referenced case file for closure. Based on the information provided, we concur with your environmental consultant's recommendation of case closure and require no further action at this site conditional upon the following:

1. Placement of a groundwater use restriction on the title of the property, and submittal of documentation that the groundwater use restriction has been placed on the title of the deed.
2. Abandonment of the groundwater monitoring wells at the site in accordance with NR 141 and submittal of the abandonment forms to the Department.

Once the department receives the abandonment forms and documentation that the groundwater use restriction has been placed on the deed, this case will be tracked as closed on the department's tracking system. As always, the department reserves the right to require additional investigation and/or remediation if it is shown that contamination from this site is a threat to the environment, public welfare and/or health. If you have any questions regarding this letter, you may contact me at the above address or at (414) 263-8689.

Sincerely,


Gina Keenan
Hydrogeologist

c: Advent Environmental Services, Inc.
SER case file

successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed on this property unless applicable requirements are met. The following numbers are the Wisconsin Department of Natural Resources case numbers associated with this site: BRRTS No. 03-41-123728, FID No. 241525130.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

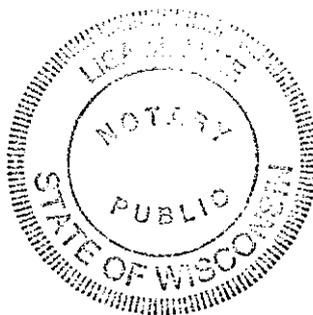
This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase, or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources or its successor shall determine whether or not the restrictions contained herein can be extinguished. If the Department or its successor determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

By signing this document, Gregg Apostoloff asserts that he is duly authorized to sign this document on behalf of the Archdiocese of Milwaukee Catholic Cemeteries.

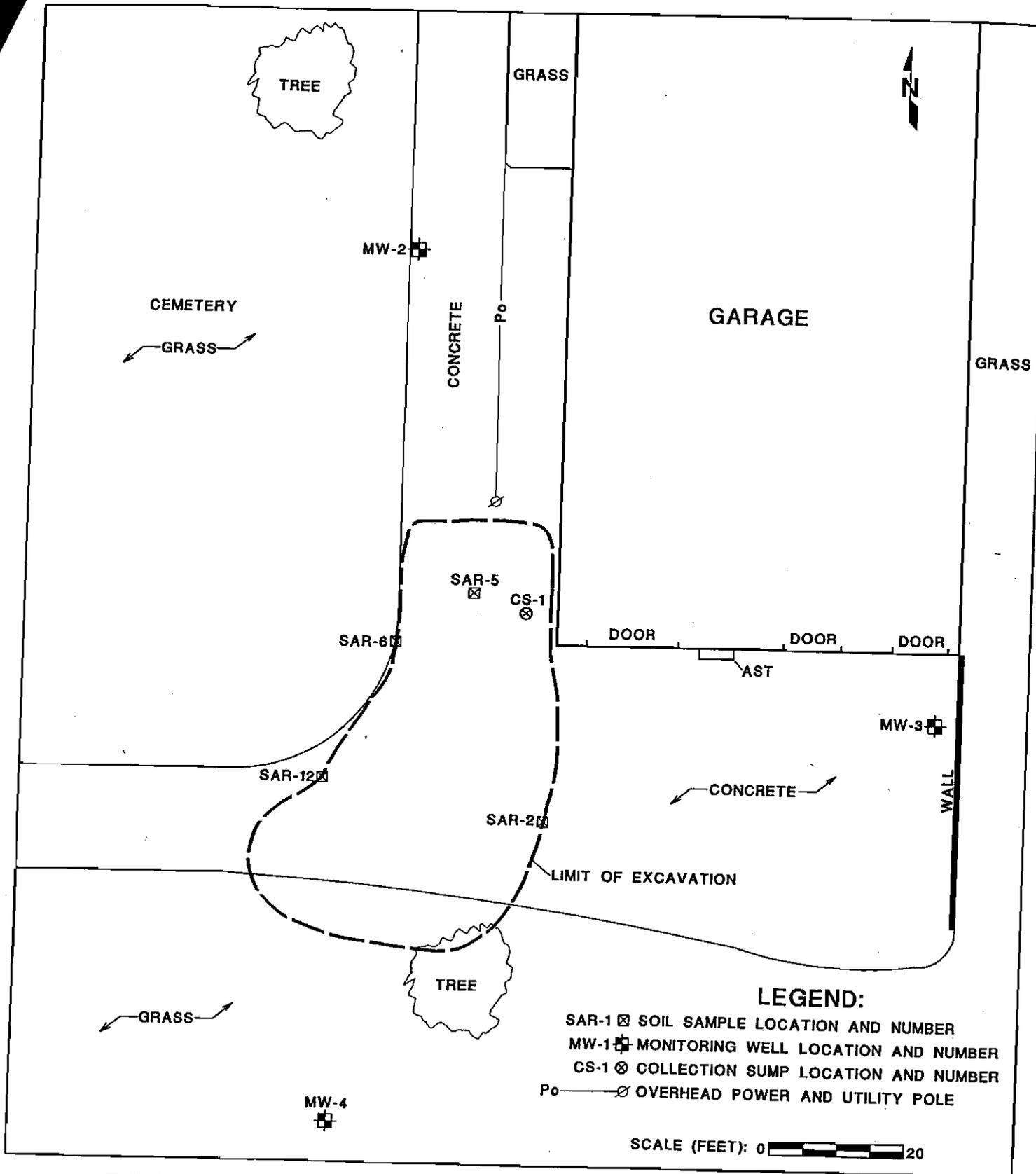
IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this _____ day of _____, 2000.

Signature: Gregg F. Apostoloff
Printed Name: Gregg Apostoloff



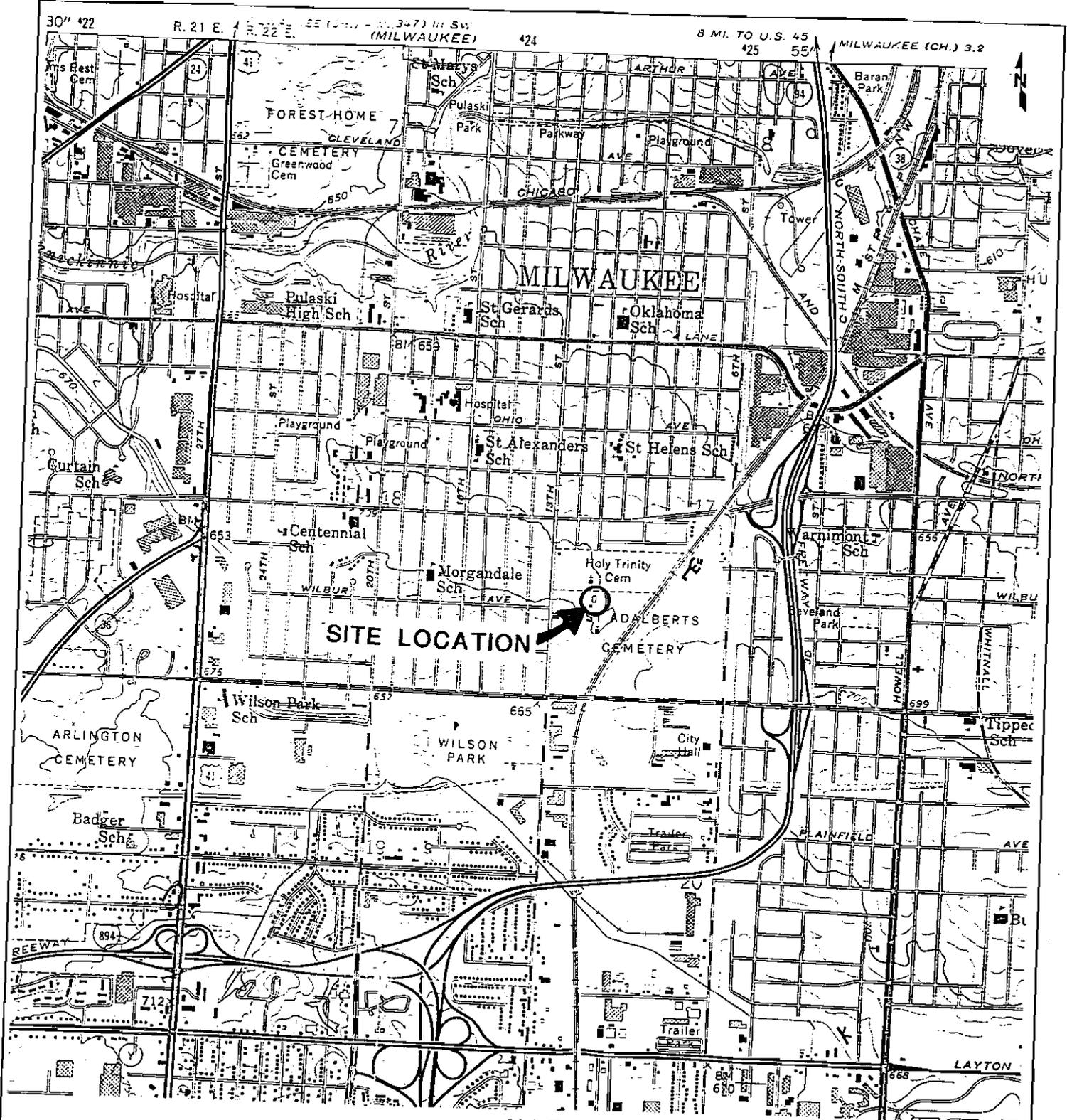
Subscribed and sworn to before me this 23 day of February, 2000.

[Signature]
Notary Public, State of Wisconsin
My commission expires 9/21/2003



**FIGURE 1 MONITORING WELL AND SOIL SAMPLE LOCATIONS
ST. ADALBERT CEMETERY
MILWAUKEE, WISCONSIN**

A D V E N T
ENVIRONMENTAL SERVICES, INC.
DATE: 1/31/00
DRAWING #970086.021



SITE LOCATION

NOTE:
 BASE MAP DEVELOPED FROM THE GREENDALE, WISCONSIN
 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP.



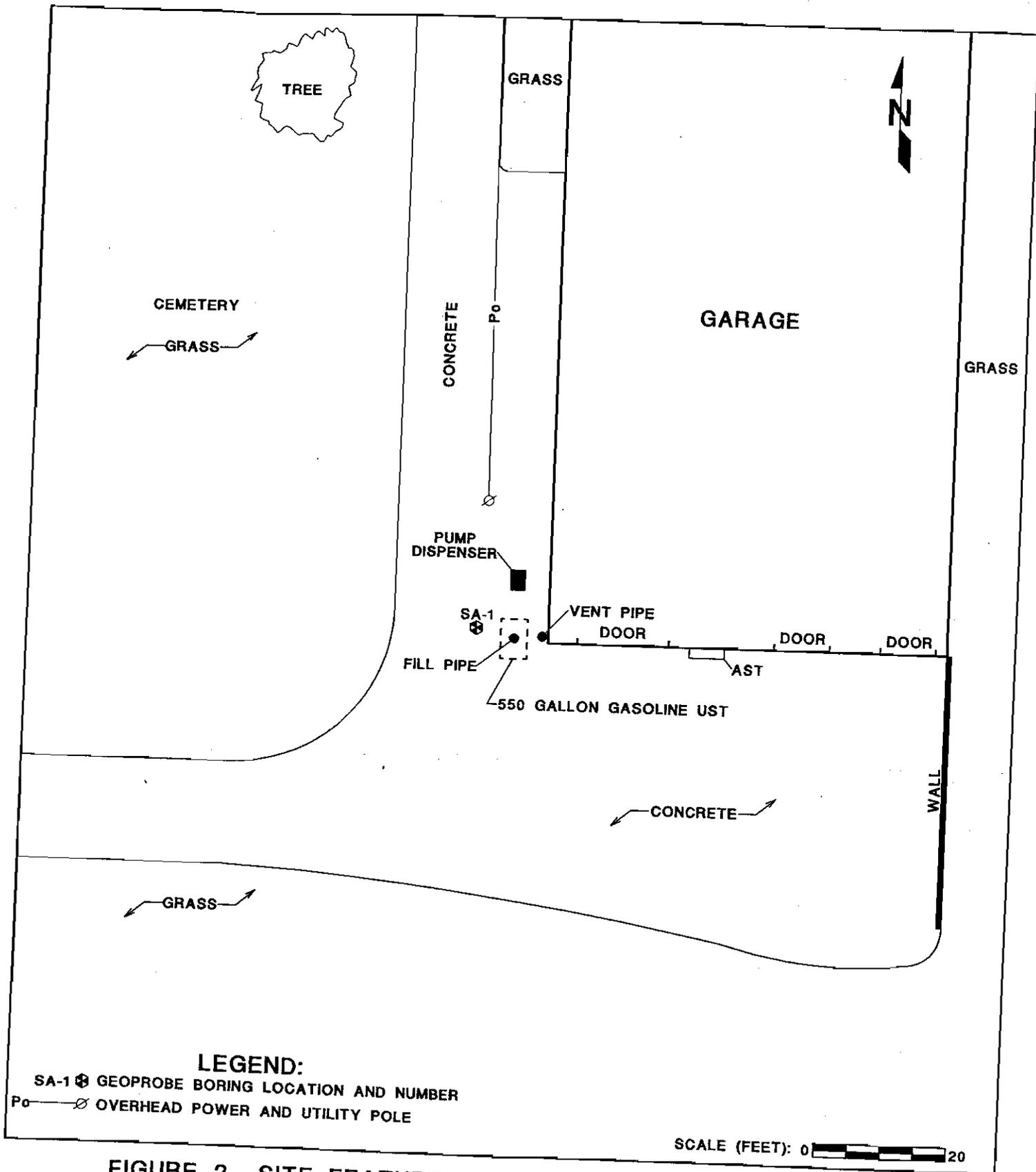
QUADRANGLE LOCATION
 NW1/4 SW1/4 SEC.17 T.6N., R.22E.

SCALE (FEET): 0 2000

DRAWN BY: KRK
 APPROVED BY:
 DATE: 6/10/97
 PROJECT # 970086.01
 REVISION #

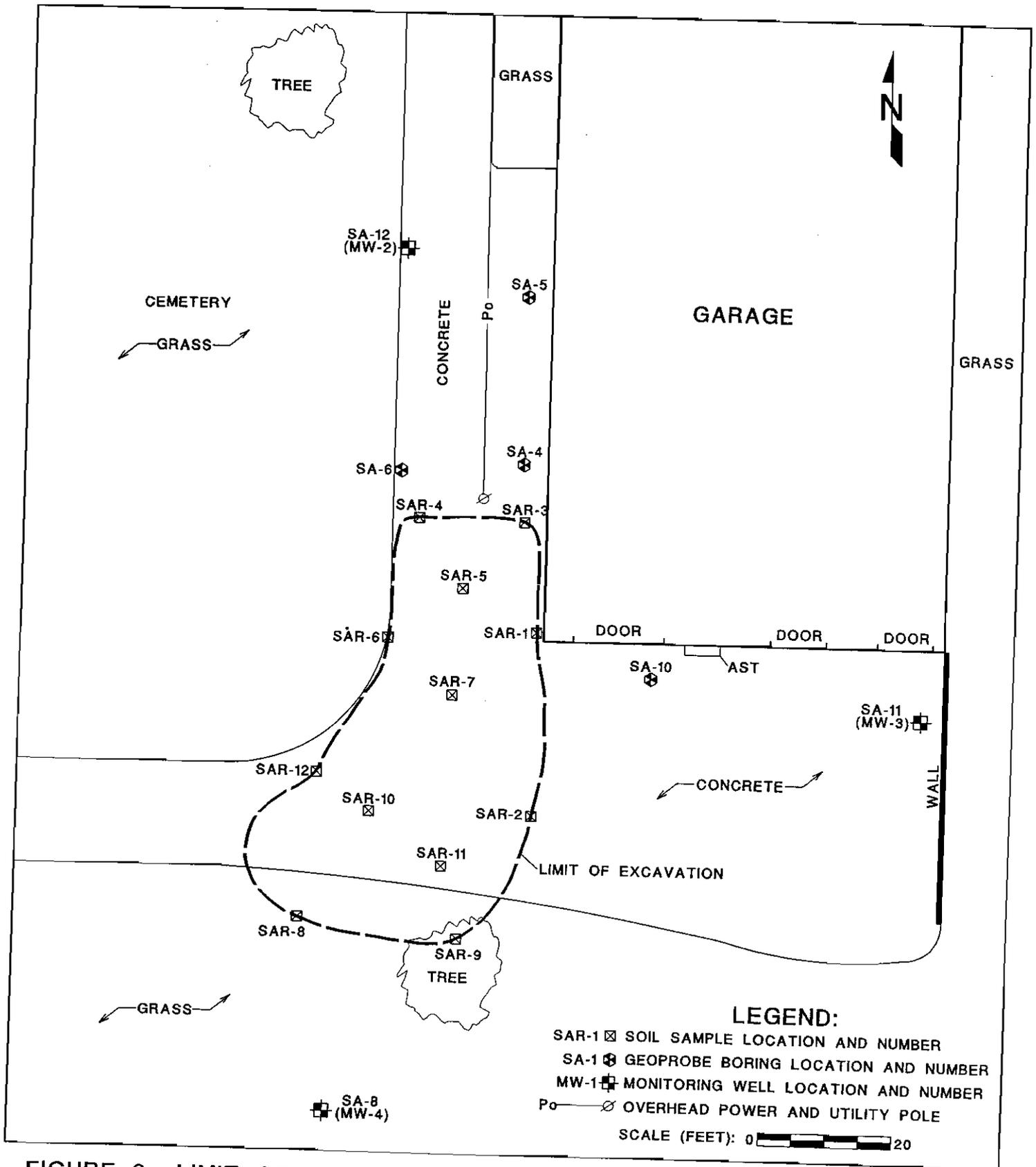
FIGURE #1 DETAIL SHEET
 SITE LOCATION
 ST. ADALBERT CEMETERY
 MILWAUKEE, WISCONSIN

A D V E N T
 ENVIRONMENTAL SERVICES, INC.



**FIGURE 2 SITE FEATURES
 ST. ADALBERT CEMETERY
 MILWAUKEE, WISCONSIN**

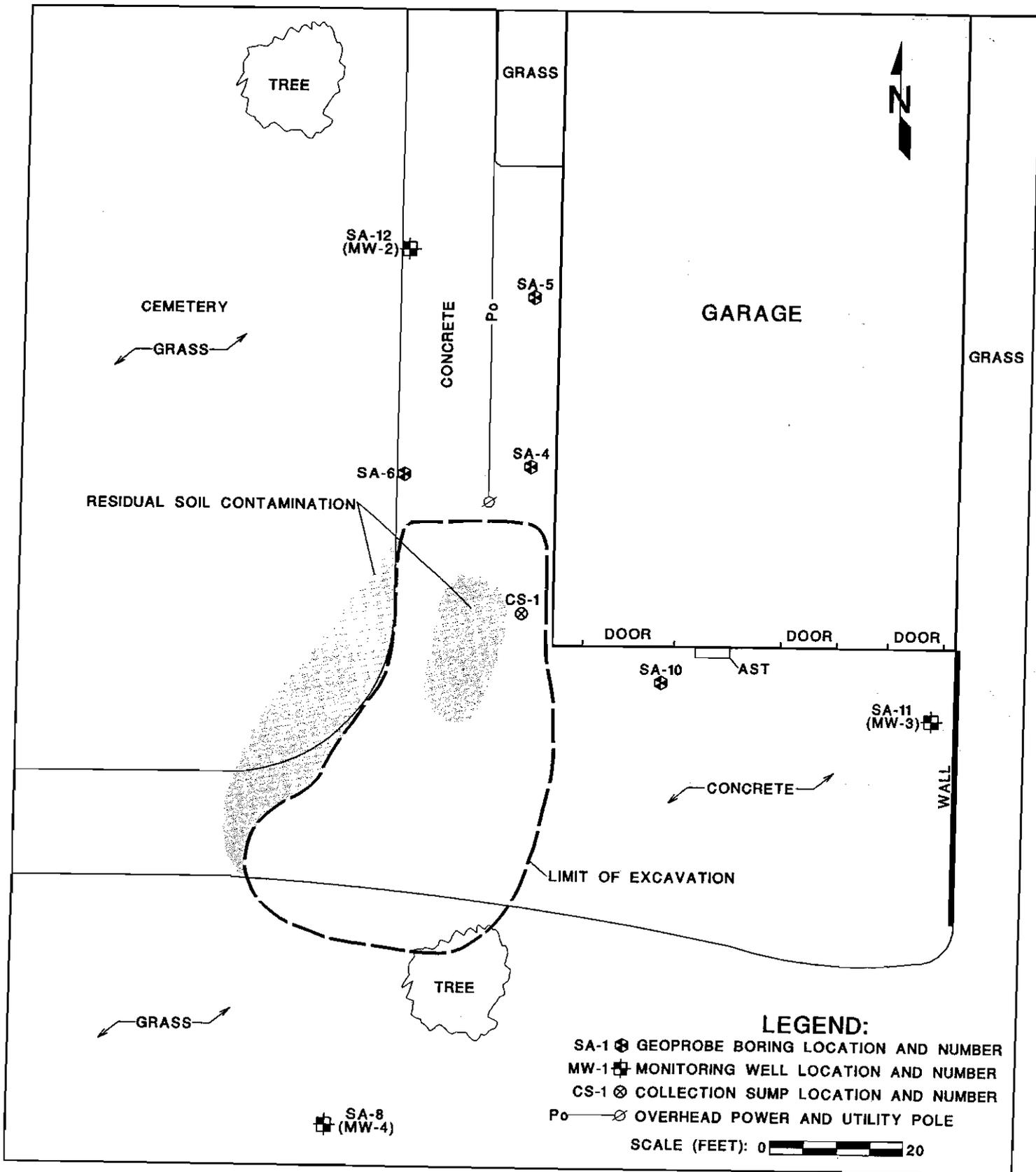
A D V E N T
 ENVIRONMENTAL SERVICES, INC.
 DATE: 9/23/97
 DRAWING #970086.01A



**FIGURE 3 LIMIT OF SOIL EXCAVATION
AND SOIL SAMPLE LOCATIONS
ST. ADALBERT CEMETERY
MILWAUKEE, WISCONSIN**

A D V E N T

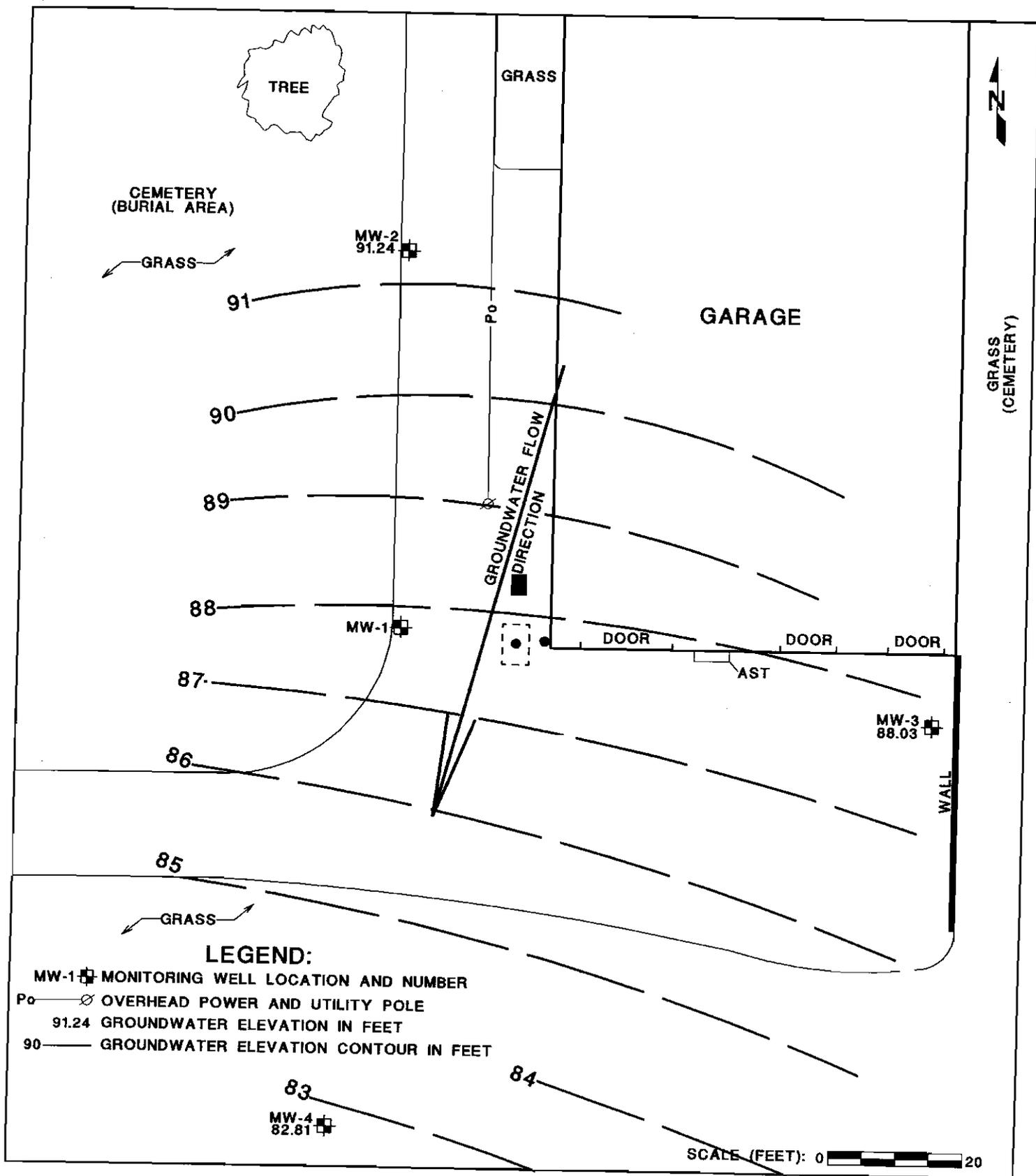
ENVIRONMENTAL SERVICES, INC.
DATE: 8/14/98
DRAWING #970086.021



**FIGURE 4 RESIDUAL SOIL CONTAMINATION
ST. ADALBERT CEMETERY
MILWAUKEE, WISCONSIN**

A D V E N T

ENVIRONMENTAL SERVICES, INC.
DATE: 9/1/98
DRAWING #970086.021

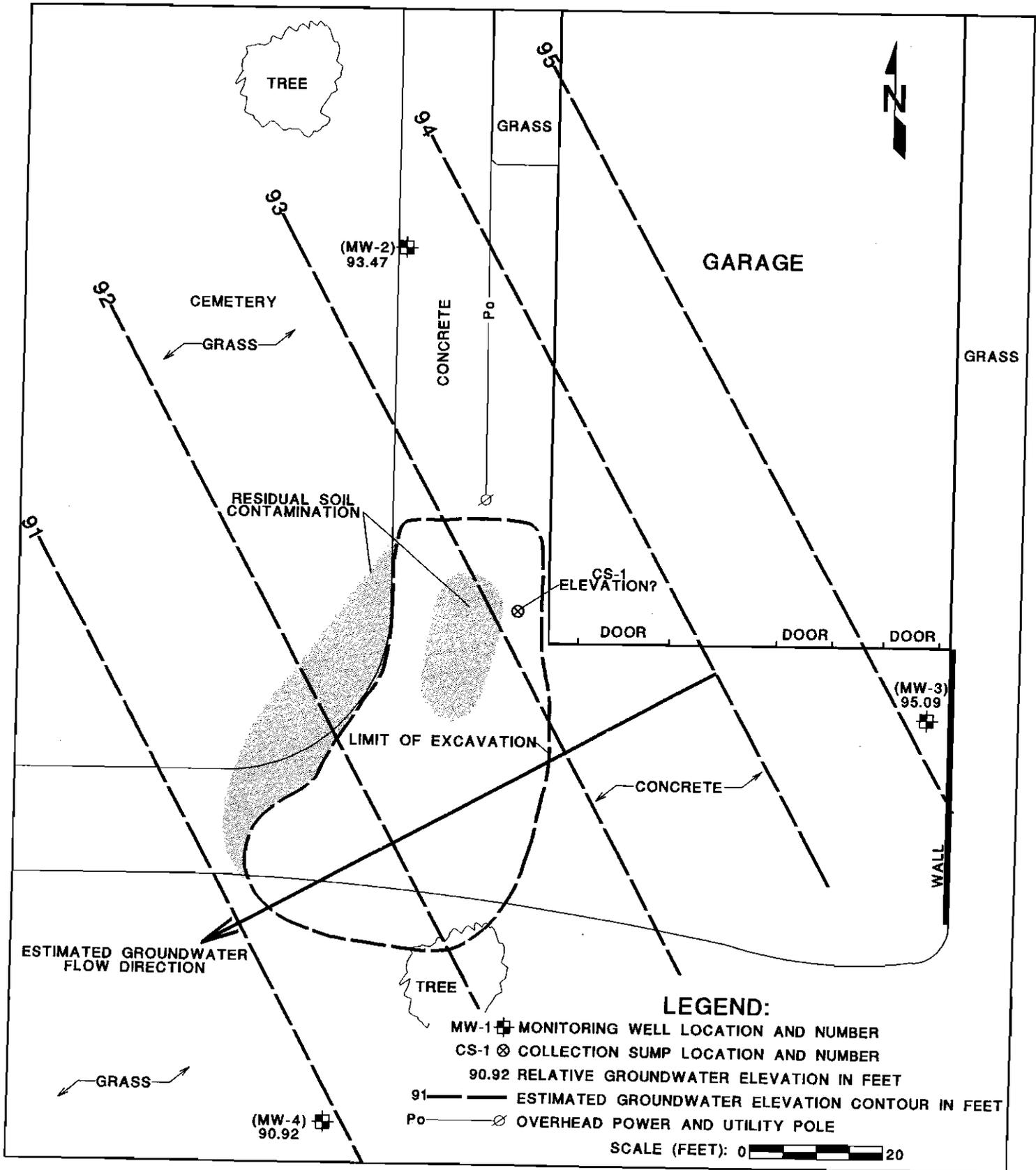


LEGEND:

- MW-1 MONITORING WELL LOCATION AND NUMBER
- Po OVERHEAD POWER AND UTILITY POLE
- 91.24 GROUNDWATER ELEVATION IN FEET
- 90 GROUNDWATER ELEVATION CONTOUR IN FEET

FIGURE 9 GROUNDWATER ELEVATIONS - 7/30/97
ST. ADALBERT CEMETERY
MILWAUKEE, WISCONSIN

A D V E N T
 ENVIRONMENTAL SERVICES, INC.
 DATE: 10/29/97
 DRAWING #970086.01C



**FIGURE 10 RELATIVE GROUNDWATER
ELEVATION (8/11/98)
ST. ADALBERT CEMETERY
MILWAUKEE, WISCONSIN**

A D V E N T

ENVIRONMENTAL SERVICES, INC.
DATE: 7/7/99
DRAWING #970086.02J

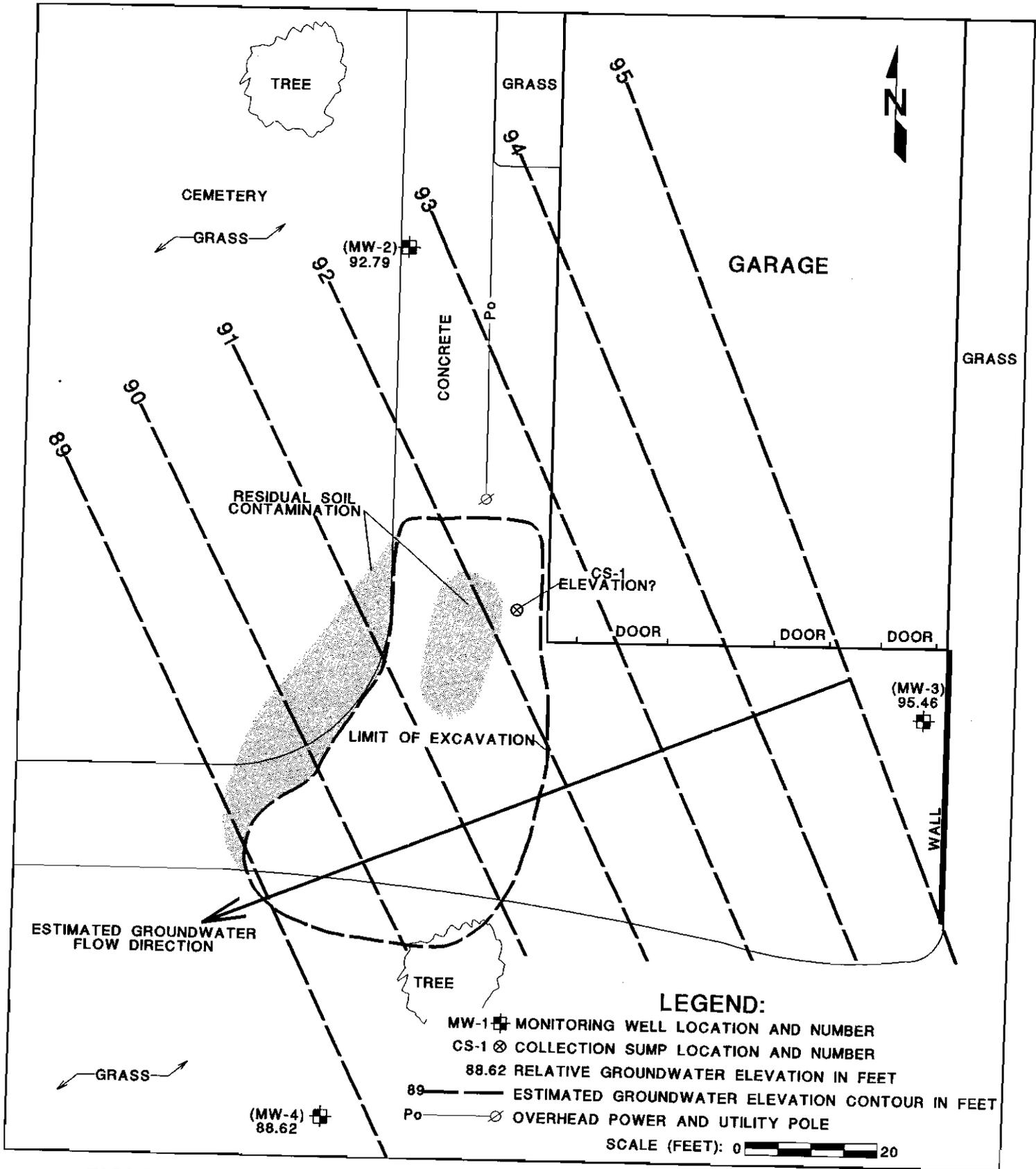


FIGURE 11 RELATIVE GROUNDWATER ELEVATION (11/16/98) ST. ADALBERT CEMETERY MILWAUKEE, WISCONSIN

A D V E N T

ENVIRONMENTAL SERVICES, INC.
 DATE: 7/7/99
 DRAWING #970086.02J

**TABLE 1
ANALYTICAL RESULTS - SOILS LEFT IN-PLACE
ST. ADALBERT CEMETERY**

	NR 720 Generic RCLs	Samples					
		SAR-1	SAR-2	SAR-3	SAR-4	SAR-5	SAR-6
Location		East wall	East wall	North wall	North wall	Base	West wall
Depth (ft)		7	7	8	7	13	7
PID		8	8	4	2	10	35
GROs (ppm)	250	52	270	ND	ND	ND	310
PVOCs (ppb) ¹							
Benzene	25 ²	ND	ND	ND	ND	52	1,200
Ethylbenzene	2,900	450	410	ND	ND	73	7,600
MTBE		ND	ND	ND	ND	ND	2,600
Toluene	1,500	120	130	ND	ND	ND	2,100
1,2,4-TMB		2,800	8,300	54	43	91	17,000
1,3,5-TMB		420	1,700	ND	ND	34	5,900
Total Xylenes	4,100	650	630	ND	44	150	29,000

ANALYTICAL RESULTS - SOILS LEFT IN-PLACE (cont.)							
	NR 720 Generic RCLs	Samples					
		SAR-7	SAR-8	SAR-9	SAR-10	SAR-11	SAR-12
Location		Base	South wall	South wall	Base	Base	West wall
Depth (ft)		12	7	7	12	13	7
PID		10	8	2	2	2	25
GROs (ppm)	250	6.1	15	ND	ND	ND	300
PVOCs (ppb) ¹							
Benzene	25 ²	ND	ND	ND	ND	ND	270
Ethylbenzene	2,900	ND	48	ND	ND	ND	3,200
MTBE		ND	110	ND	ND	ND	ND
Toluene	1,500	ND	30	ND	ND	ND	320
1,2,4-TMB		36	34	ND	ND	39	18,000
1,3,5-TMB		ND	ND	ND	ND	32	6,000
Total Xylenes	4,100	ND	120	ND	ND	ND	4,900

Shaded areas indicate concentration exceeding laboratory detection limits or NR720 generic RCLs for petroleum-contaminated soils.
 ND = not detected at laboratory detection limits

MTBE = Methyl-tert-butyl-ether

TMB = Trimethylbenzene

¹ For laboratory detection limits, see Appendix D.

² Case closeout limit exceeds soil residual clean-up limits due to methanol preservation.

**TABLE 2
ANALYTICAL RESULTS - SPLP SOIL SAMPLES
ST. ADALBERT CEMETERY**

	NR141 Groundwater Standards		Samples					
	ES	PAL	SAR-1	SAR-2	SAR-3	SAR-4	SAR-5	SAR-6
Location			East wall	East wall	North wall	North wall	Base	West wall
Depth (feet)			7	7	8	7	13	7
SPLP-PVOCs (ppb)								
Benzene	5	0.5	ND	ND	ND	ND	1.8	25
Ethylbenzene	700	140	ND	2.2	ND	ND	ND	75
MTBE	60	12	ND	ND	ND	ND	ND	ND
Toluene	343	68.6	ND	ND	ND	ND	ND	26
1,2,4-TMB	NL	NL	ND	63	ND	ND	ND	52
1,3,5-TMB	NL	NL	ND	20	ND	ND	ND	27
Total Xylenes	620	124	ND	5.4	ND	0.74	0.81	200
ANALYTICAL RESULTS - SPLP SOIL SAMPLES								
	NR141 Groundwater Standards		Samples					
	ES	PAL	SAR-7	SAR-8	SAR-9	SAR-10	SAR-11	SAR-12
Location			Base	South wall	South wall	Base	Base	West wall
Depth (feet)			12	7	7	12	13	7
SPLP-PVOCs (ppb)								
Benzene	5	0.5	1.3	ND	ND	ND	ND	12
Ethylbenzene	700	140	ND	ND	ND	ND	ND	71
MTBE	60	12	ND	ND	ND	ND	ND	0.73
Toluene	343	68.6	ND	ND	5.7	ND	ND	4.9
1,2,4-TMB	NL	NL	1.4	ND	ND	ND	ND	320
1,3,5-TMB	NL	NL	ND	ND	ND	ND	ND	110
Total Xylenes	620	124	1.5	ND	2.0	ND	ND	85

Shaded areas indicate concentrations in exceedance of the compound's ES.
 Areas in bold indicate concentrations in exceedance of a compound's PAL.
 SPLP = synthetic precipitate leaching procedure
 ND = not detected
 NL = no established limit
 MTBE = Methyl-tert-butyl-ether
 TMB = Trimethylbenzene

**TABLE 1
ANALYTICAL RESULTS - GROUNDWATER
ST. ADALBERT CEMETERY**

	Samples											NR 140 Groundwater Quality Standards	
	MW-1/CS-1						MW-2						
	Pre-Rem 7/31/97	Post-Remediation					Pre-Rem 7/31/97	Post-Remediation					
Date	8/11/98	11/16/98	2/17/99	5/12/99	5/12/99*	8/11/98	11/16/98	2/17/99	5/12/99				
Dissolved Oxygen (ppm)	—	0.20	0.30	0.25	NA	NA	0.35	1.15	1.80	2.05	NA		
GW elevation	—	—	—	—	—	—	91.24	93.47	92.79	94.71	—		
ANALYTE													
GROs (ppb)	NS	480	1,100	ND	ND	ND						ES	PAL
Iron (ppm)	NS	NA	NA	NA	NA	NA	120	ND	ND	ND	ND	—	—
Manganese (ppm)	NS	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	—	—
Nitrate (ppm)	NS	NA	NA	NA	NA	NA	0.19	NA	NA	NA	NA	—	—
Sulfate (ppm)	NS	NA	NA	NA	NA	NA	0.25	NA	NA	NA	NA	10	2
Lead (ppb)	NS	NA	NA	NA	NA	NA	68	NA	NA	NA	NA	—	—
VOCs (ppb) ¹							ND	NA	NA	NA	NA	15	0.5
Benzene	NS	240	630	ND	0.3	0.2	22						
Ethylbenzene	NS	ND	4.5	ND	ND	ND	3.8	ND	ND	ND	0.1	5	0.5
MTBE	NS	57	40	ND	0.47	0.47	ND	ND	ND	ND	0.92	700	140
Toluene	NS	ND	18	ND	0.56	0.52	3.9	ND	ND	ND	0.62	60	12
Trimethylbenzenes	NS	38.2	4.6	ND	ND	ND	1.6	ND	ND	ND	ND	343	68.6
Xylene (total)	NS	2.9	10	ND	ND	ND	6.4	ND	ND	ND	1.1	480	96
												620	124

Concentrations in bold are above the PAL.

Shaded boxes indicate concentrations above the ES.

Concentrations for the NR 140 PAL and ES standards are presented in ug/l (ppb)

ND = not detected

NS = not sampled because well was dry on three occasions

PAL = Preventive Action Limit

ES = Enforcement Standard

¹ Only VOCs detected are listed.

**TABLE 1
ANALYTICAL RESULTS - GROUNDWATER
ST. ADALBERT CEMETERY**

	Samples										NR 140 Groundwater Quality Standards	
	MW-3					MW-4						
	Pre-Rem	Post-Remediation				Pre-Rem	Post-Remediation					
Date	7/31/97	8/11/98	11/16/98	2/17/99	5/12/99	7/31/97	8/11/98	11/16/98	2/17/99	5/12/99	ES	PAL
Dissolved Oxygen (ppm)	1.00	1.50	1.60	2.60	NA	0.85	0.95	0.58	3.00	NA	—	—
GW elevation	88.03	95.09	95.46	95.28	—	82.81	90.92	88.62	95.58	—	—	—
ANALYTE												
GROs (ppb)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	—	—
Iron (ppm)	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	—	—
Manganese (ppm)	0.074	NA	NA	NA	NA	0.093	NA	NA	NA	NA	—	—
Nitrate (ppm)	0.19	NA	NA	NA	NA	ND	NA	NA	NA	NA	10	2
Sulfate (ppm)	69	NA	NA	NA	NA	220	NA	NA	NA	NA	—	—
Lead (ppb)	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	—	—
VOCs (ppb) ¹											15	0.5
Benzene	0.56	ND	0.64	ND	ND	ND	1.1	ND	ND	ND	5	0.5
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	700	140
MTBE	25	27	12	22	14	ND	ND	ND	ND	ND	60	12
Toluene	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	343	68.6
Trimethylbenzenes	ND	11	ND	ND	ND	ND	1.0	ND	ND	ND	480	96
Xylene (total)	2.0	ND	0.60	ND	0.54	2.7	ND	ND	ND	ND	620	124

Concentrations in bold are above the PAL.

Shaded boxes indicate concentrations above the ES.

Concentrations for the NR 140 PAL and ES standards are presented in ug/l (ppb)

ND = not detected

NS = not sampled because well was dry on three occasions

PAL = Preventive Action Limit

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¹ Only VOCs detected are listed.