

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Regional Headquarters  
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September 30, 1999

Mr. Gregg Apostoloff  
Archdiocese of Milwaukee  
7301 W. Nash Street  
Milwaukee, WI 53221

Subject: Final Closure for Mt. Olivet Cemetery, 3801 W. Morgan Ave., Milwaukee, WI  
FID: 241920910, BRRTS: 03-41-123733.

Dear Mr. Apostoloff:

This letter acknowledges the receipt of the groundwater use restriction for the above-named site per Advent Environmental's submittal dated September 24, 1999. Based on the investigation and remedial documentation provided to the department, it appears that the above-named site is in compliance with the requirements of Chs. NR 700 to 724, Wis. Admin. Code. Therefore, the department considers the case closed and tracked as such, having determined that no further action is necessary at the site at this time. However, the case may be reopened pursuant to S. NR 726.09, Wis. Admin. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment programs assistant Brenda Brown (263-8680) at the above address.

Sincerely,

John J. Hnat  
Hydrogeologist  
Remediation and Redevelopment

C: Peter Pavalko, Advent Environmental  
WDNR SER Files



construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

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 and 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.

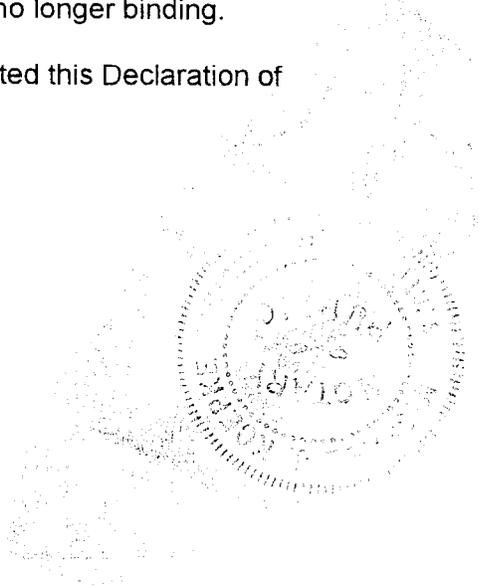
Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restriction set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of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

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 15 day of JUNE, 1999.

Signature: Gregg F. Apostoloff  
Printed Name: GREGG F. APOSTOLOFF

Subscribed and sworn to before me  
this 15 day of June, 1999.

Paul Koepke  
Notary Public, State of WI  
My commission June 2002



This document was drafted by Peter E. Pavalko of Advent Environmental Services, Inc., in conjunction with the Wisconsin Department of Natural Resources.

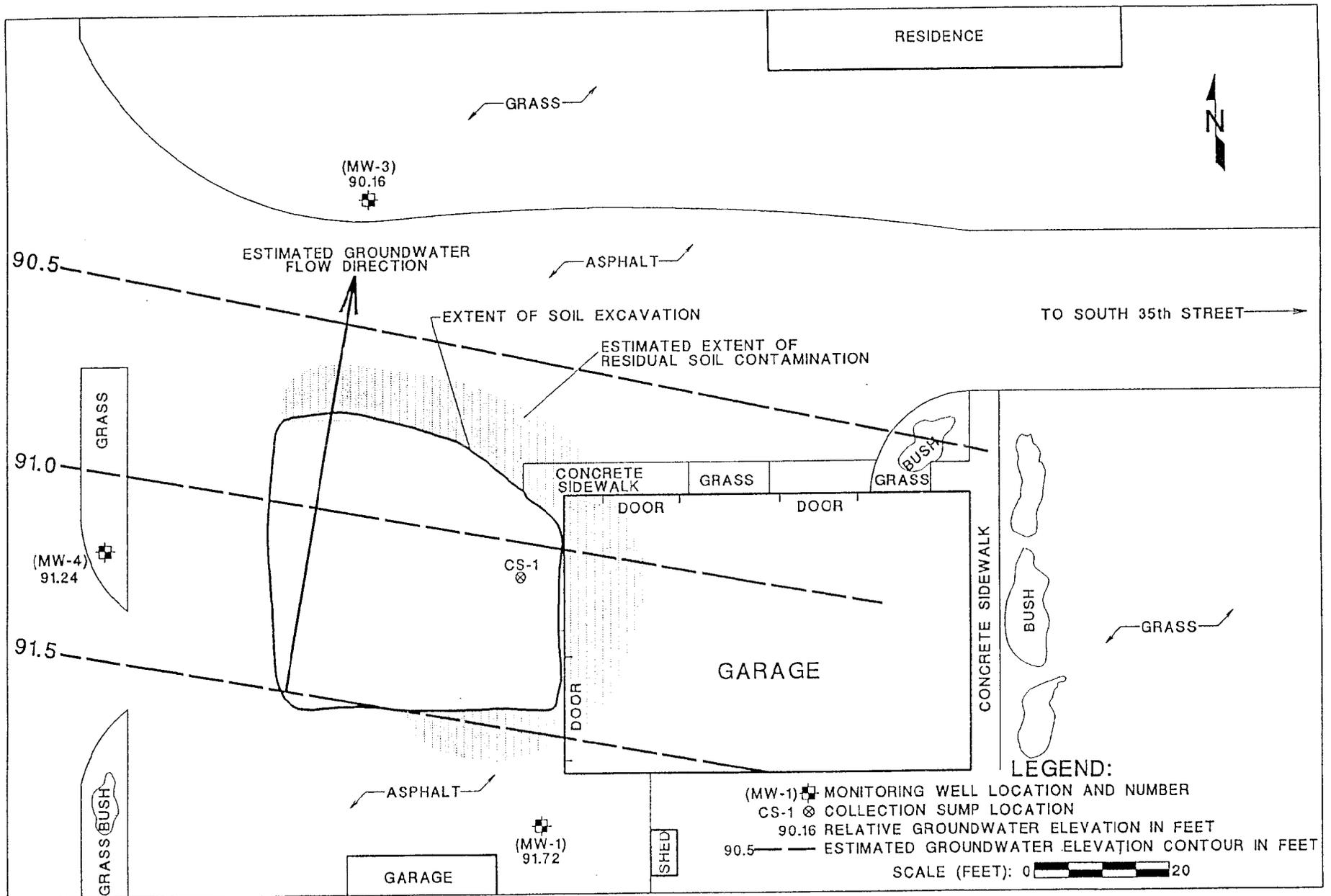


FIGURE 1 GROUNDWATER ELEVATIONS (7/6/98)  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**  
 ENVIRONMENTAL SERVICES, INC.  
 DATE: 8/19/98  
 DRAWING #970085.02E

REEL 4593 IMAGE 394



**SITE LOCATION**

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



QUADRANGLE LOCATION  
 NE1/4 SW1/4 SEC.13 T.6N., R.21E.

SCALE (FEET): 0 2000

DRAWN BY: KRK  
 APPROVED BY:  
 DATE: 6/10/97  
 PROJECT # 970085.01  
 REVISION #

FIGURE #1      DETAIL SHEET  
 SITE LOCATION  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**  
 ENVIRONMENTAL SERVICES, INC.

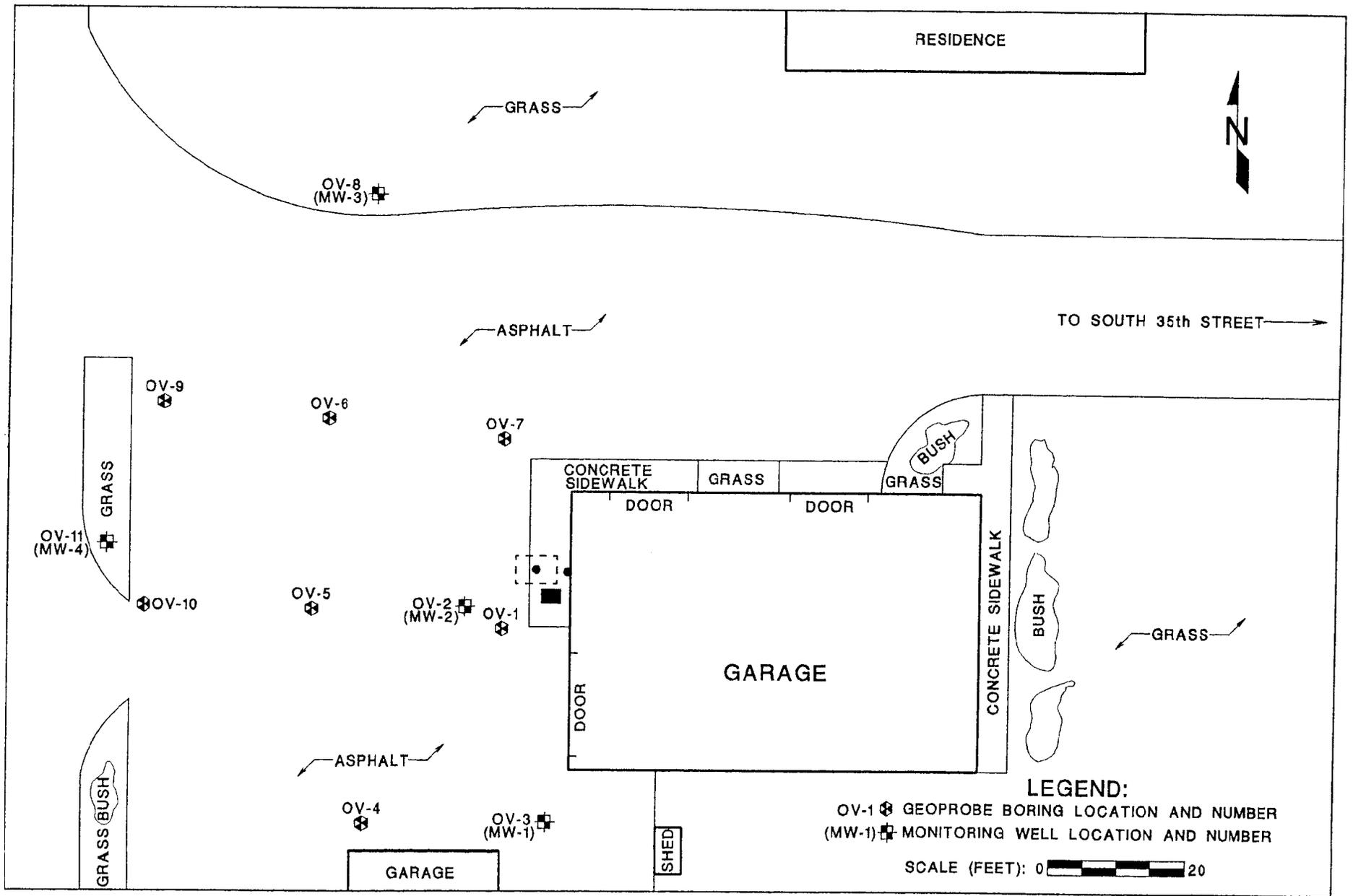


FIGURE 3 SOIL BORING AND MONITORING WELL LOCATIONS  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**  
 ENVIRONMENTAL SERVICES, INC.  
 DATE: 9/19/97  
 DRAWING #970085.01A

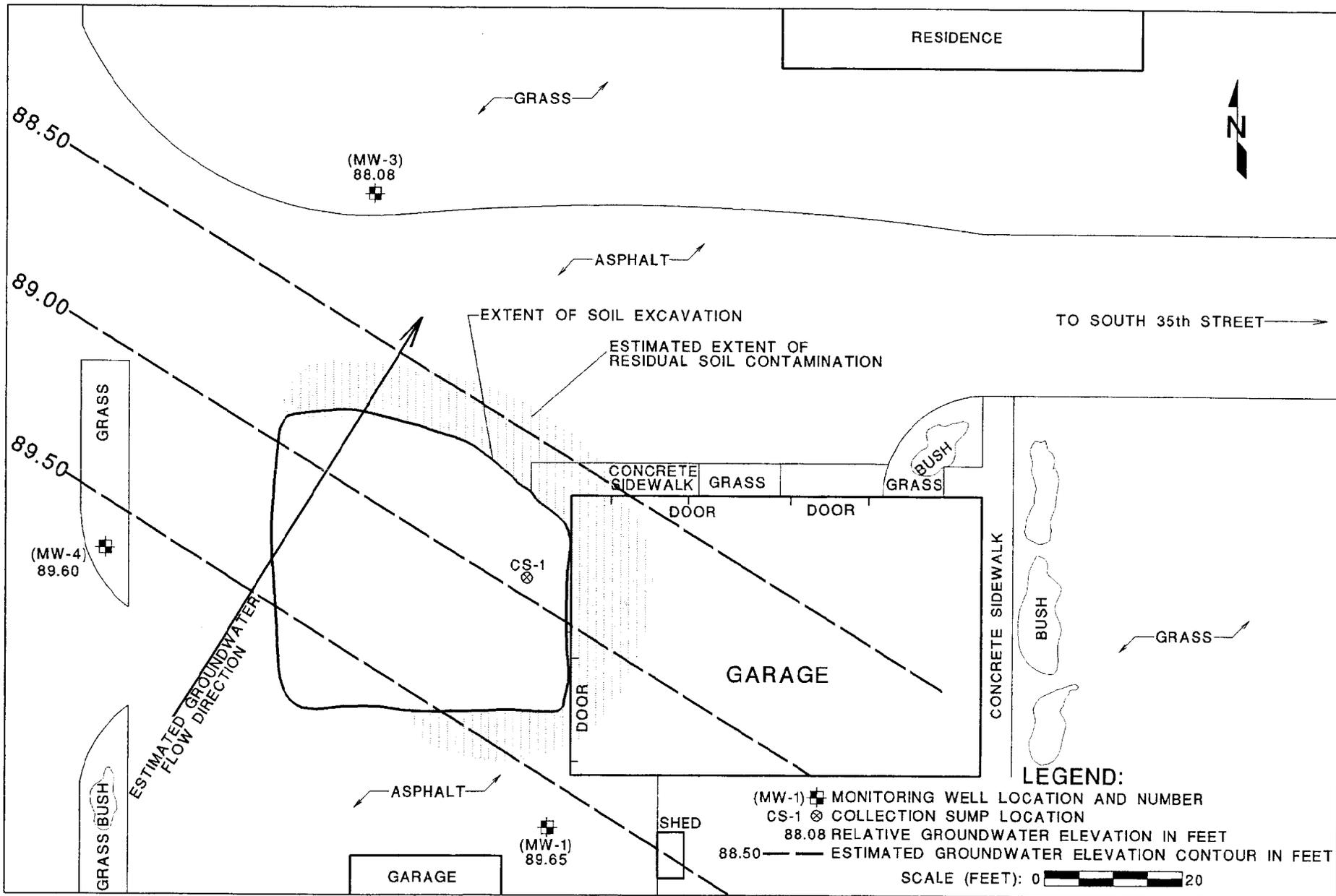


FIGURE 1 GROUNDWATER ELEVATIONS (1/18/99)  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**

ENVIRONMENTAL SERVICES, INC.  
 DATE: 2/17/99  
 DRAWING #970085.02E

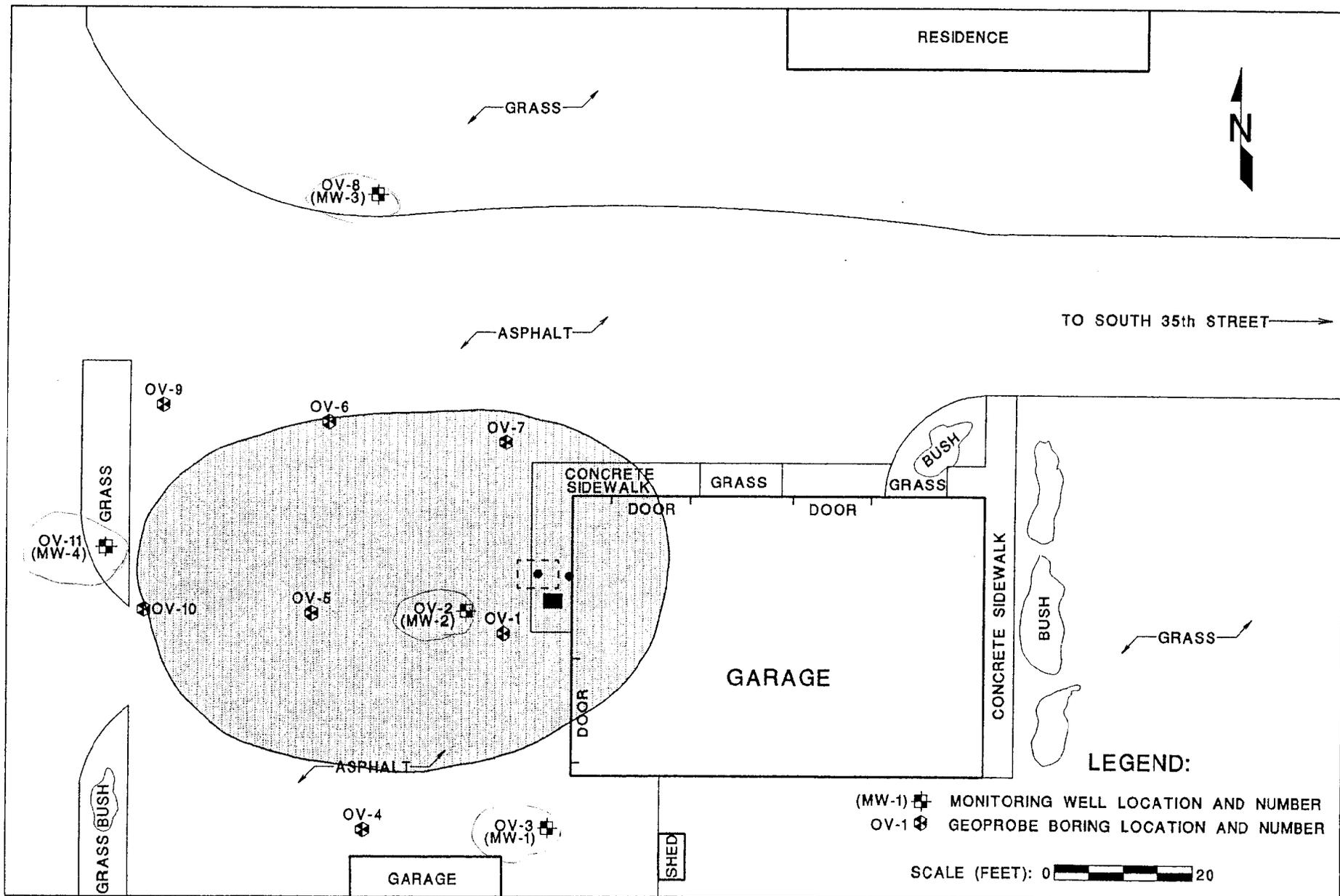


FIGURE 9 EXTENT OF GROUNDWATER CONTAMINATION  
 ABOVE NR 140 ES  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**  
 ENVIRONMENTAL SERVICES, INC.  
 DATE: 9/19/97  
 DRAWING #970085.01E

**TABLE 1  
ANALYTICAL RESULTS - GROUNDWATER  
MT. OLIVET CEMETERY**

	Samples										NR 140 Groundwater Quality	
	MW-1					MW-2/CS-1						
	Date	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99	ES
GW elevation	93.00	92.55	91.72	90.39	89.65	92.99	---	---	---	---		
Dissolved Oxygen (ppm)	1.85	3.50	3.88	0.60	2.50	0.10	0.18	0.20	0.60	0.85		
<b>ANALYTE</b>												
GROs (ppb)	ND	ND	ND	ND	ND	76,000	37,000	6,400	ND	1,800	---	---
Lead (ppb)	ND	NA	NA	NA	NA	<b>2.8</b>	NA	NA	NA	NA	15	1.5
Iron (ppm)	0.20	NA	NA	NA	NA	3.9	NA	NA	NA	NA	---	---
Manganese(ppm)	0.089	NA	NA	NA	NA	0.40	NA	NA	NA	NA	---	---
Nitrate(ppm)	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	10	2
Sulfate(ppm)	130	NA	NA	NA	NA	ND	NA	NA	NA	NA	---	---
<b>VOCs (ppb)<sup>1</sup></b>												
Benzene	ND	ND	ND	ND	ND	<b>12,000</b>	<b>8,600</b>	<b>1,400</b>	ND	<b>650</b>	5	0.5
Ethylbenzene	ND	ND	ND	ND	ND	<b>1,400</b>	<b>780</b>	47	ND	34	700	140
MTBE	ND	ND	ND	ND	ND	<b>1,400</b>	<b>160</b>	ND	ND	<b>54</b>	60	12
Toluene	ND	ND	1.7	ND	ND	<b>26,000</b>	<b>12,000</b>	<b>910</b>	ND	37	343	68.6
Trimethylbenzenes	ND	ND	ND	ND	ND	<b>3,280</b>	<b>2,440</b>	<b>267</b>	ND	64	480	96
Xylene (total)	ND	ND	0.91	ND	ND	<b>19,000</b>	<b>6,500</b>	<b>930</b>	ND	110	620	124

Concentrations in bold are above the PAL.

Shaded areas indicate concentrations above the ES.

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

PAL = Preventive Action Limit

ES = Enforcement Standard

--- = no established limit

ND = not detected

TMB = Trimethylbenzene

MTBE = Methyl-tert-butyl-ether

<sup>1</sup> Only VOCs detected are listed.

**TABLE 1  
ANALYTICAL RESULTS - GROUNDWATER  
MT. OLIVET CEMETERY**

	MW-3					MW-4					NR 140 Groundwater Quality	
	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99	ES	PAL
Date	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99	7/31/97	4/21/98	7/6/98	10/27/98	1/18/99		
GW elevation	90.68	92.45	90.16	88.61	88.08	92.14	91.49	91.24	90.14	89.67		
Dissolved Oxygen (ppm)	0.80	4.50	5.00	3.79	4.35	2.50	5.55	6.00	0.58	4.00		
<b>ANALYTE</b>												
GROs (ppb)	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	---	---
Lead (ppb)	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	15	1.5
Iron (ppm)	ND	NA	NA	NA	NA	ND	NA	NA	NA	NA	---	---
Manganese(ppm)	0.18	NA	NA	NA	NA	0.17	NA	NA	NA	NA	---	---
Nitrate(ppm)	0.40	NA	NA	NA	NA	ND	NA	NA	NA	NA	10	2
Sulfate(ppm)	210	NA	NA	NA	NA	170	NA	NA	NA	NA	---	---
<b>VOCs (ppb)<sup>1</sup></b>												
Benzene	ND	ND	ND	ND	ND	<b>0.90</b>	ND	ND	ND	ND	5	0.5
Ethylbenzene	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	700	140
MTBE	ND	ND	ND	0.59	ND	ND	ND	ND	ND	ND	60	12
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	343	68.6
Trimethylbenzene	ND	ND	ND	ND	ND	36.1	2.2	1.7	ND	ND	480	96
Xylene (total)	ND	ND	0.53	ND	ND	2.8	ND	ND	ND	ND	620	124

Concentrations in bold are above the PAL.

Shaded areas indicate concentrations above the ES.

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

PAL = Preventive Action Limit

ES = Enforcement Standard

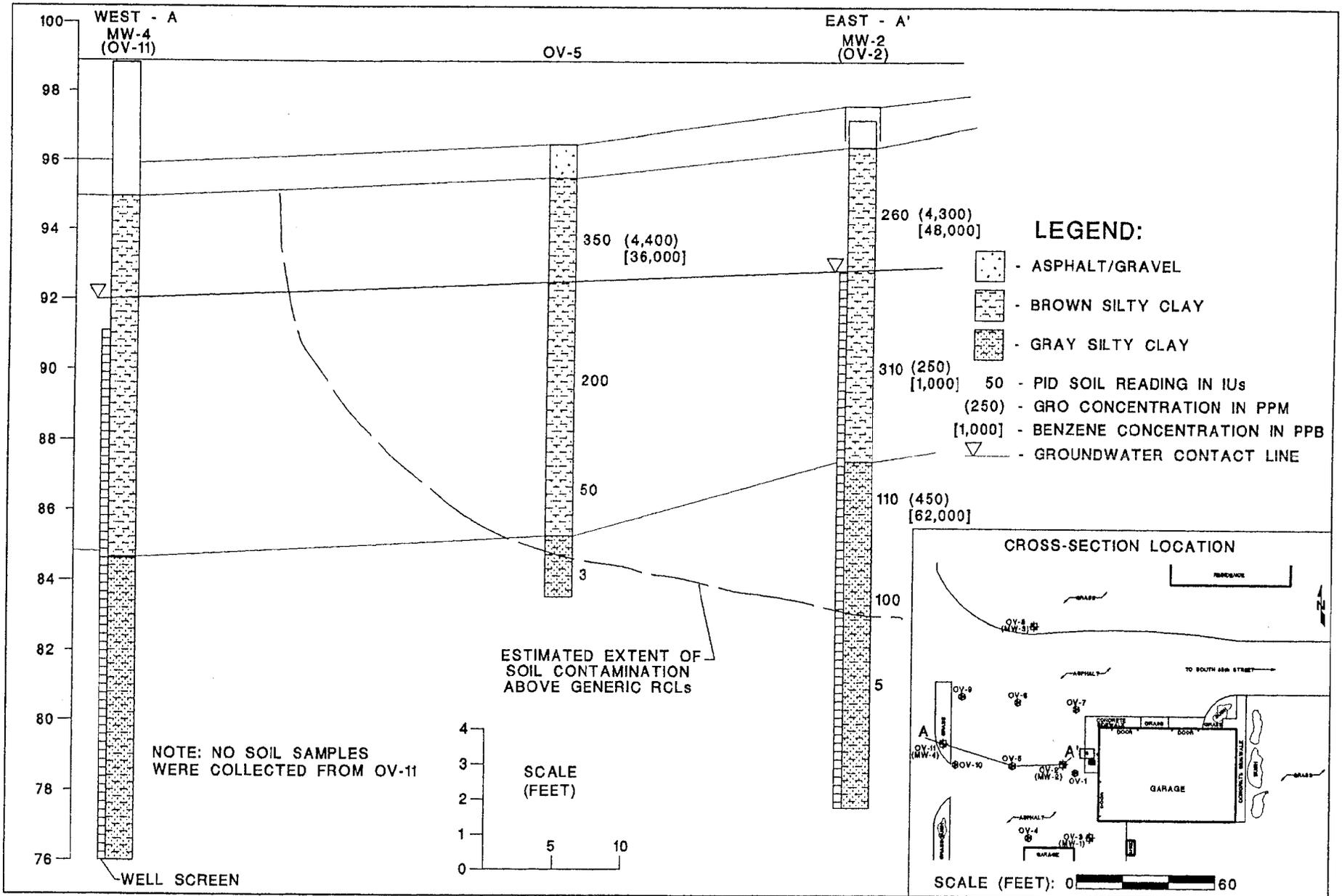
--- = no established limit

ND = not detected

TMB = Trimethylbenzene

MTBE = Methyl-tert-butyl-ether

<sup>1</sup> Only VOCs detected are listed.



**FIGURE 4 WEST TO EAST CROSS-SECTION A-A'**  
**MT. OLIVET CEMETERY**  
**MILWAUKEE, WISCONSIN**

**A D V E N T**  
 ENVIRONMENTAL SERVICES, INC.  
 DATE: 9/19/97  
 DRAWING # 970085.01B

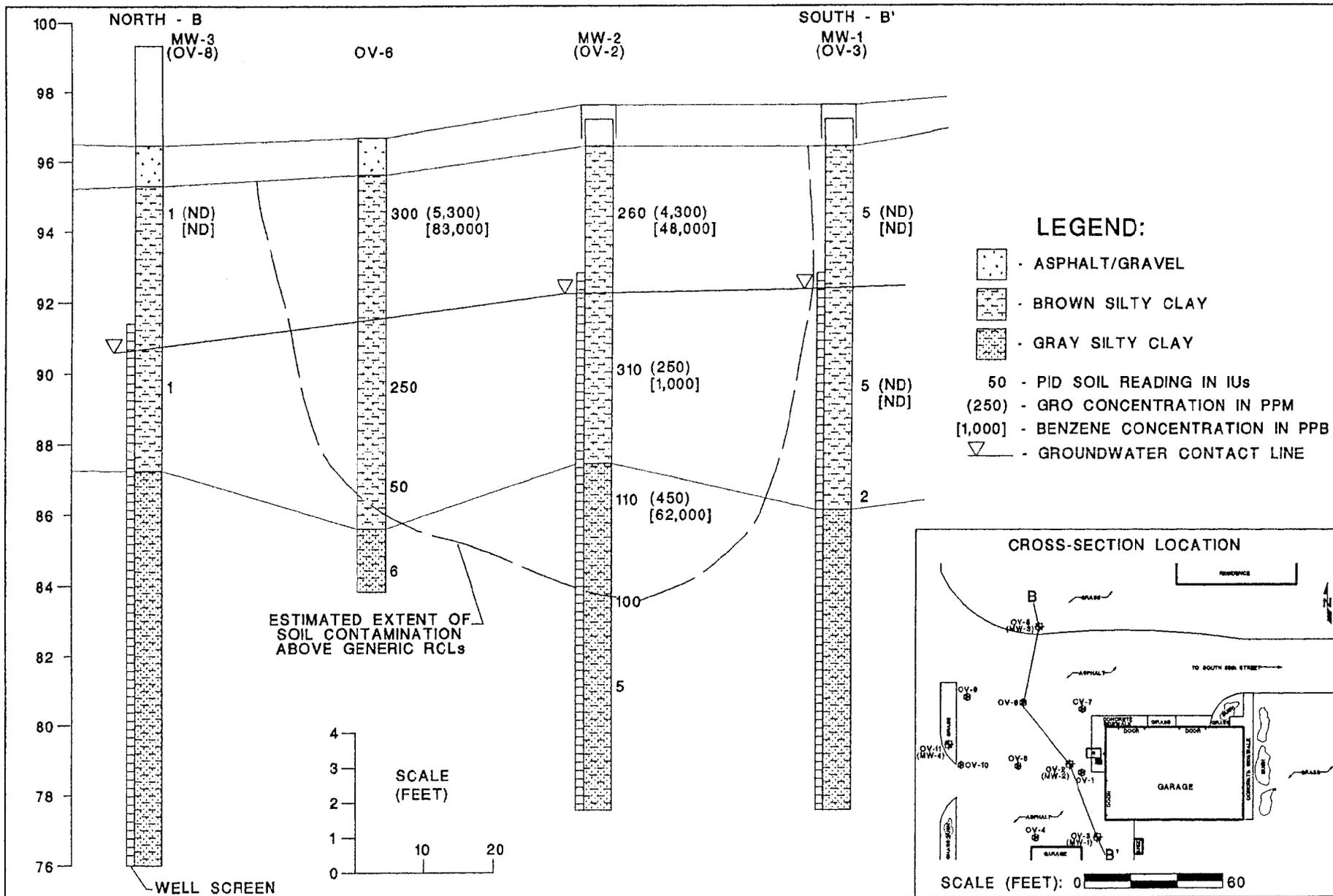


FIGURE 5 NORTH TO SOUTH CROSS-SECTION B-B'  
 MT. OLIVET CEMETERY  
 MILWAUKEE, WISCONSIN

**A D V E N T**

ENVIRONMENTAL SERVICES, INC.  
 DATE: 9/19/97  
 DRAWING # 970085.01C