State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

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

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TDD 414-263-8713

March 22, 2000

In Reply Refer To: FID# 241146730
BRRTS# 03-41-107640
County of Milwaukee
BRR-LUST

Mr. Jeff Mattice
Layton Avenue Citgo
4720 S. 27th Street
Milwaukee, WI 53221

SUBJECT: Closure Request for *Layton Avenue Citgo, 4720 S. 27th Street, Milwaukee, WI*

Dear Mr. Mattice:

The Wisconsin Department of Natural Resources (WDNR) previously reviewed the case file for the above referenced site to determine if case closure could be granted for the site. A letter was issued, that stated that a requirement of case closure is that a "groundwater use restriction" be placed on the deed of the property, according to s. NR 726.05(8)(am)."

I have received an official copy of the "groundwater use restriction", which was recorded on February 10, 2000. Based upon the information in the case file, it appears that the degree and extent of petroleum contamination has been determined in the soil and groundwater at the site. It appears that the contamination at the above-named site has been remediated in compliance with the requirements of chs. NR 700 to 724, Wis. Adm. Code. Therefore, the Department considers the case "closed," having determined that no further remedial action is necessary at the site at this time. However, the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare or the environment.

Please note that if any contaminated soil is ever discovered and excavated due to construction or other activities, the soil must be properly handled according to all applicable laws in effect at that time.

The WDNR appreciates the actions you have taken to restore the environment at this site. If you have any questions regarding this letter you may contact me at (414) 263-8541. Please refer to the FID and BRRTS numbers on the top of this letter in any future correspondence.

Sincerely,

Andrew Boettcher
Hydrogeologist

cc: Advent Environmental SER Case File

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Region
Sturtevant Service Center
9531 Rayne Road
Sturtevant, Wisconsin 53177
TELEPHONE 414-884-2300
FAX 414-884-2306

November 30, 1999

In Reply Refer To: FID# 241146730
BRRTS# 03-41-107640
County of Milwaukee
BRR-LUST

Mr. Jeff Mattice
Layton Avenue Citgo
4720 S. 27th Street
Milwaukee, WI 53221

SUBJECT: Closure Request for *Layton Avenue Citgo, 4720 S. 27th Street, Milwaukee, WI*

Dear Mr. Mattice:

The Wisconsin Department of Natural Resources (WDNR) has reviewed the report entitled *Request for Site Closure*, dated October 15, 1999, that was prepared by your consultant, Advent Environmental. The report contained a request that the WDNR grant "No Further Action" status for the site. Based upon the information in the case file and in the above referenced report, it appears that the degree and extent of contamination has been determined in the soil and groundwater at the site.

Due to the presence of benzene and methyl tert-butyl ether (MTBE) in the groundwater, at a concentration above the NR 140 Enforcement Standard (ES), a requirement of case closure is that a "groundwater use restriction" be placed on the deed of the property, according to s. NR 726.05(8)(am). You may wish to submit a draft copy of the proposed deed restriction prior to placement on the deed of the property so that the WDNR can verify that the restriction is acceptable. The language in the deed restriction should follow the template contained in the guidance document entitled "Close Out Guidance on the Use of Deed and Groundwater Use Restrictions and Deed Notices". If you need a copy of this document, please contact me. In addition to the language, please attach a map that identifies the location of the remaining groundwater contamination to the deed restriction.

After the WDNR receives an official copy of an acceptable deed restriction from the Register of Deeds office and copies of the well abandonment forms for all on-site monitoring wells, the site will be tracked as closed on the WDNR's computer database.

Please note that if any contaminated soil is ever discovered and excavated due to construction or other activities, the soil must be properly handled according to all applicable laws in effect at that time.

The WDNR appreciates the actions you have taken to restore the environment at this site. If you have any questions regarding this letter you may contact me at (414) 263-8541. Please refer to the FID and BRRTS numbers on the top of this letter in any future correspondence.

Sincerely,

Andrew Boettcher
Hydrogeologist

cc: Advent Environmental
SER Case File

Document Number	GROUNDWATER USE RESTRICTION Title of Document	7872974 REGISTER'S OFFICE) SS Milwaukee County, WI) RECORDED AT 1:44 PM 02-10-2000 REEL_____IMAGE_____ WALTER R. BARCZAK REGISTER OF DEEDS AMOUNT 14.00

DECLARATION OF RESTRICTIONS

In Re:

The West Twenty (20) feet of the East One Hundred Fifty-three (153) feet of the North One Hundred Seventy-three (173) feet of the West Three Hundred Sixty-three (363) feet of the Northwest One-quarter (1/4) of Section Thirty (30), in Township Six (6) North, Range Twenty-two (22) East in the City of Milwaukee, County of Milwaukee, State of Wisconsin, except the North Sixty (60) feet thereof.

The East One Hundred Thirty (130) feet of the West Two Hundred Ten (210) feet of the North Two Hundred Twenty-three (223) feet of the Northwest One-quarter (1/4) of Section 30, in Township Six (6) North, Range Twenty-two (22) East, in the City of Milwaukee, County of Milwaukee, State of Wisconsin, excepting the North Sixty (60) feet thereof.

Record this document with the Register of Deeds

Name and Return Address:
Domnitz, Mawicke, Goisman & Rosenberg, S.C.
1509 North Prospect Avenue
Milwaukee, WI 53202

623-9842-110-3
(Parcel Identification Number)

STATE OF WISCONSIN)
) ss.
COUNTY OF MILWAUKEE)

WHEREAS, MRED(27th/Layton), Inc. is the owner of the above-described property, commonly known as 4720 South 27th Street, Milwaukee, Wisconsin.

WHEREAS, a discharge of unleaded gasoline has occurred at this property. Gasoline contaminated groundwater above the NR 140 enforcement standard exists on this property at the following location: at groundwater monitoring well ES-1 as shown on Exhibit A attached. In this well benzene, at 9.2 parts per billion, and methyl-tert-butyl-ether, at 1,100 parts per billion, exceeded the Wisconsin Department of Natural Resources NR 140 Enforcement Standard. The following numbers are the Wisconsin Deprtment of Natural Resources case numbers associated with the unleaded gaoline release at this site: BRRTS No. 03-41-107640, Facility ID No. 241146730.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct additional soil or groundwater remediation activities on the property at the present time.

NOW, THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied, and improved, subject to the following limitation and restrictions:

Natural attenuation has been approved by the Department of Natural Resources to remediate goundwater exceeding NR 140 groundwater standards within the boundaries of this property. Construction of wells where the water quality exceeds the drinking water standards in ch. 809 is restricted by chs. NR 811 and NR 812. Special well construction standards or water treatment standards, or both, or well construction prohibitions may apply. Anyone who proposes to 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 requirementbts are applicable prior to constructing or reconstructing a well on this property.

3

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, it 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 an 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 8th day of February, 2000.

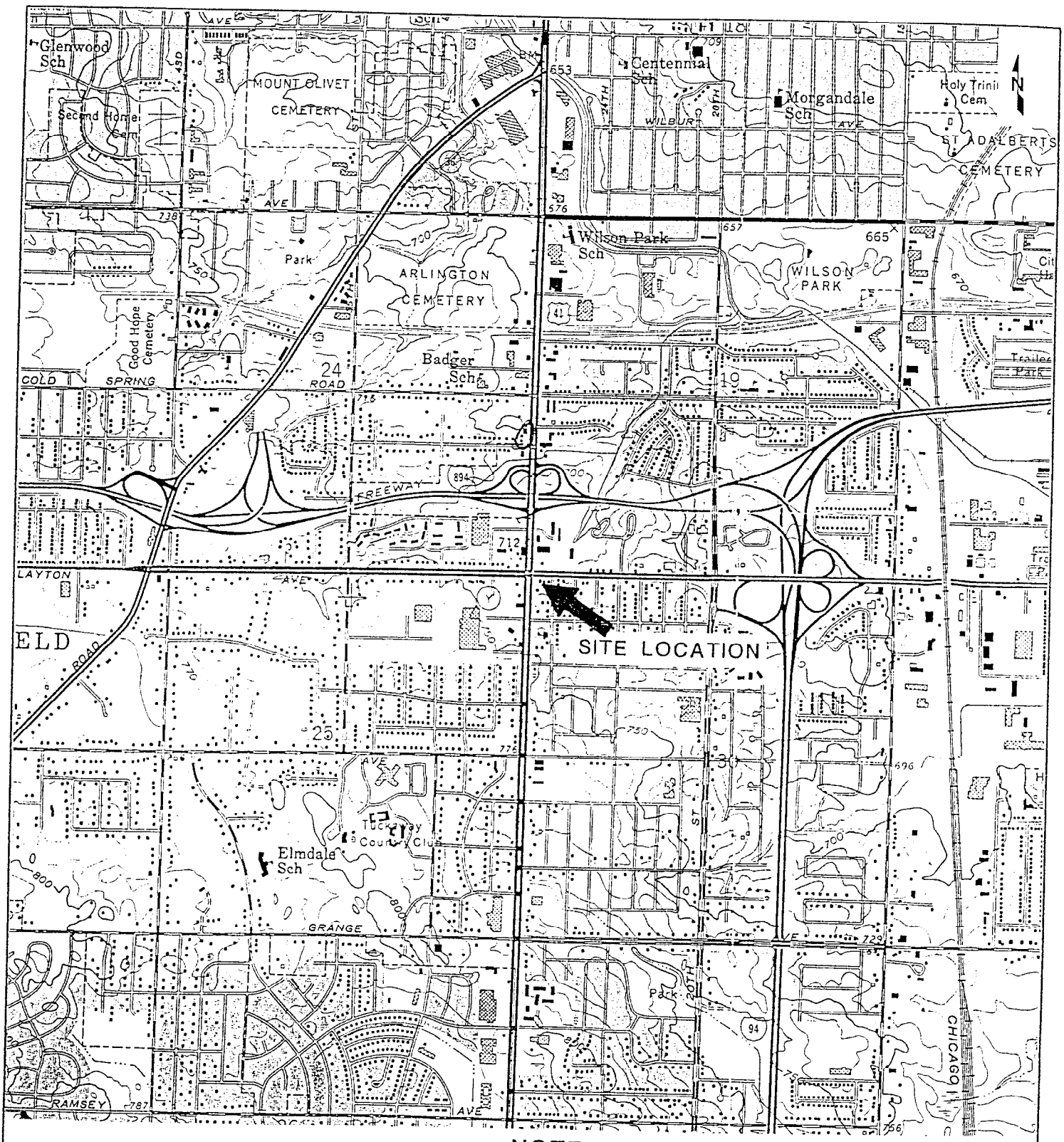
MRED(27th/Layton), Inc.

By: _____
Mark D. Redmond, President

Subscribed and sworn to before me this 8th day of February, 2000.

Thomas E. Whipp
THOMAS E. WHIPP
Notary Public, State of Wisconsin
My commission is permanent

This document was drafted by the Wisconsin Department of Natural Resources.



NOTE:

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

QUADRANGLE LOCATION
NW1/4 NW1/4 SEC.30 T.6N., R.22E.

SCALE (FEET): 0 2000

DRAWN BY: KRK	FIGURE #1 DETAIL SHEET
APPROVED BY:	SITE LOCATION
DATE: 6/13/97	LAYTON AVENUE CITGO MILWAUKEE, WISCONSIN
PROJECT #960180.01	ADVENT
REVISION #	ENVIRONMENTAL SERVICES, INC.

(B)

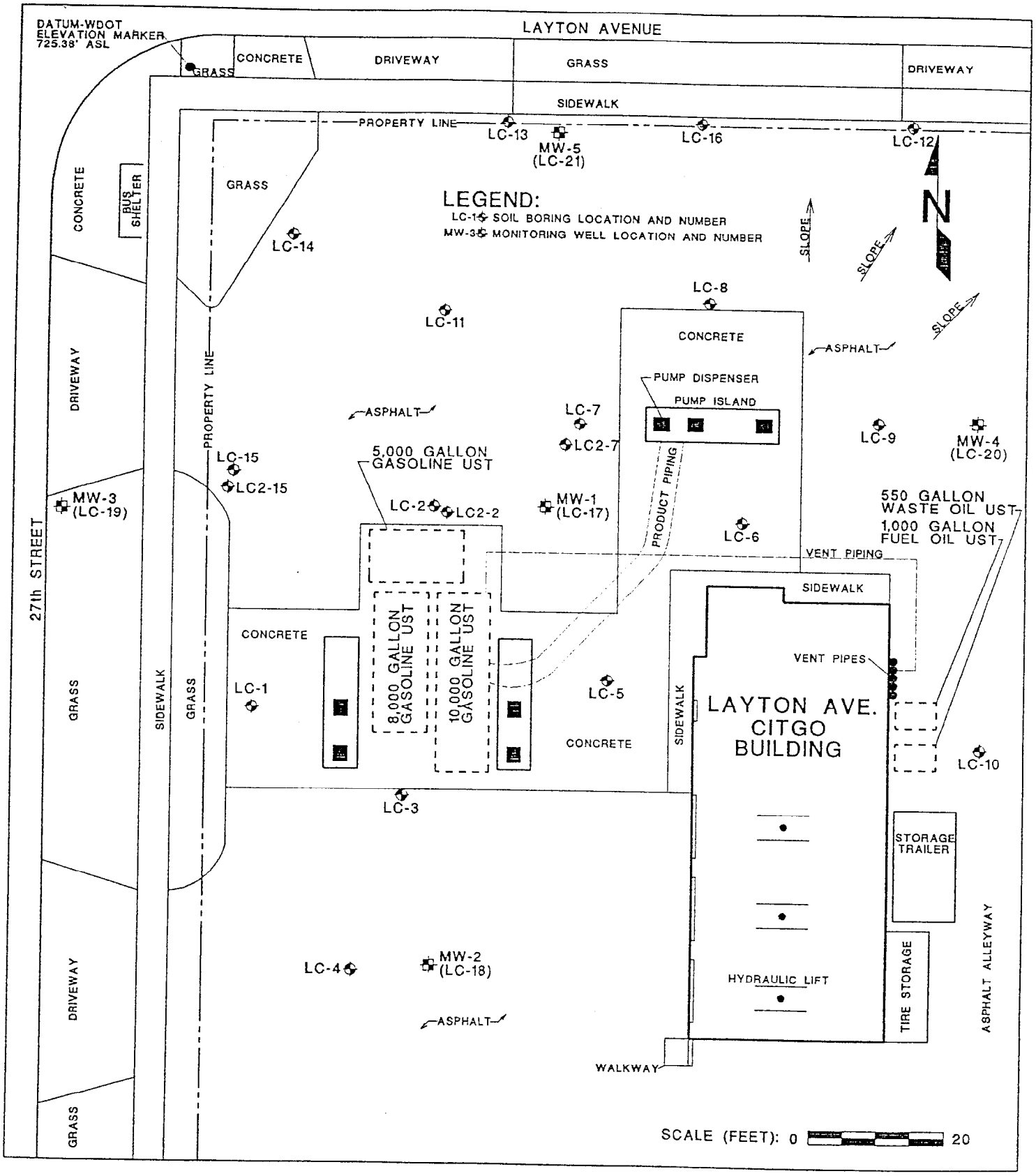
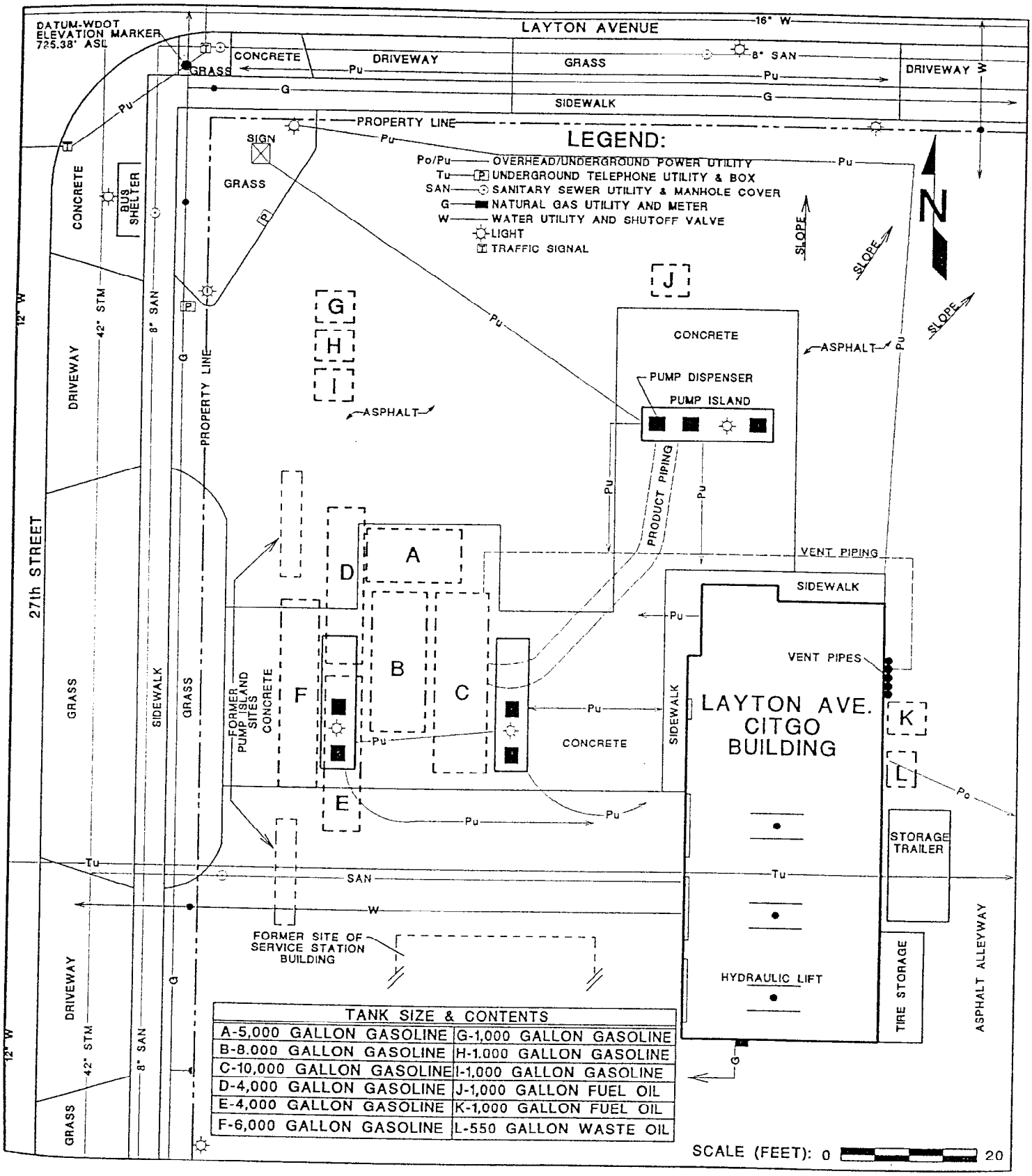


FIGURE 3 SOIL BORING AND MONITORING WELL LOCATIONS
LAYTON AVENUE CITGO
MILWAUKEE, WISCONSIN

A D V E N T
ENVIRONMENTAL SERVICES, INC.
DATE: 2/4/98
DRAWING #960180.01A

(B)



TANK SIZE & CONTENTS	
A-5,000 GALLON GASOLINE	G-1,000 GALLON GASOLINE
B-8,000 GALLON GASOLINE	H-1,000 GALLON GASOLINE
C-10,000 GALLON GASOLINE	I-1,000 GALLON GASOLINE
D-4,000 GALLON GASOLINE	J-1,000 GALLON FUEL OIL
E-4,000 GALLON GASOLINE	K-1,000 GALLON FUEL OIL
F-6,000 GALLON GASOLINE	L-550 GALLON WASTE OIL

FIGURE 2 SITE FEATURES
LAYTON AVENUE CITGO
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
DATE: 6/26/98
DRAWING #960180.02A

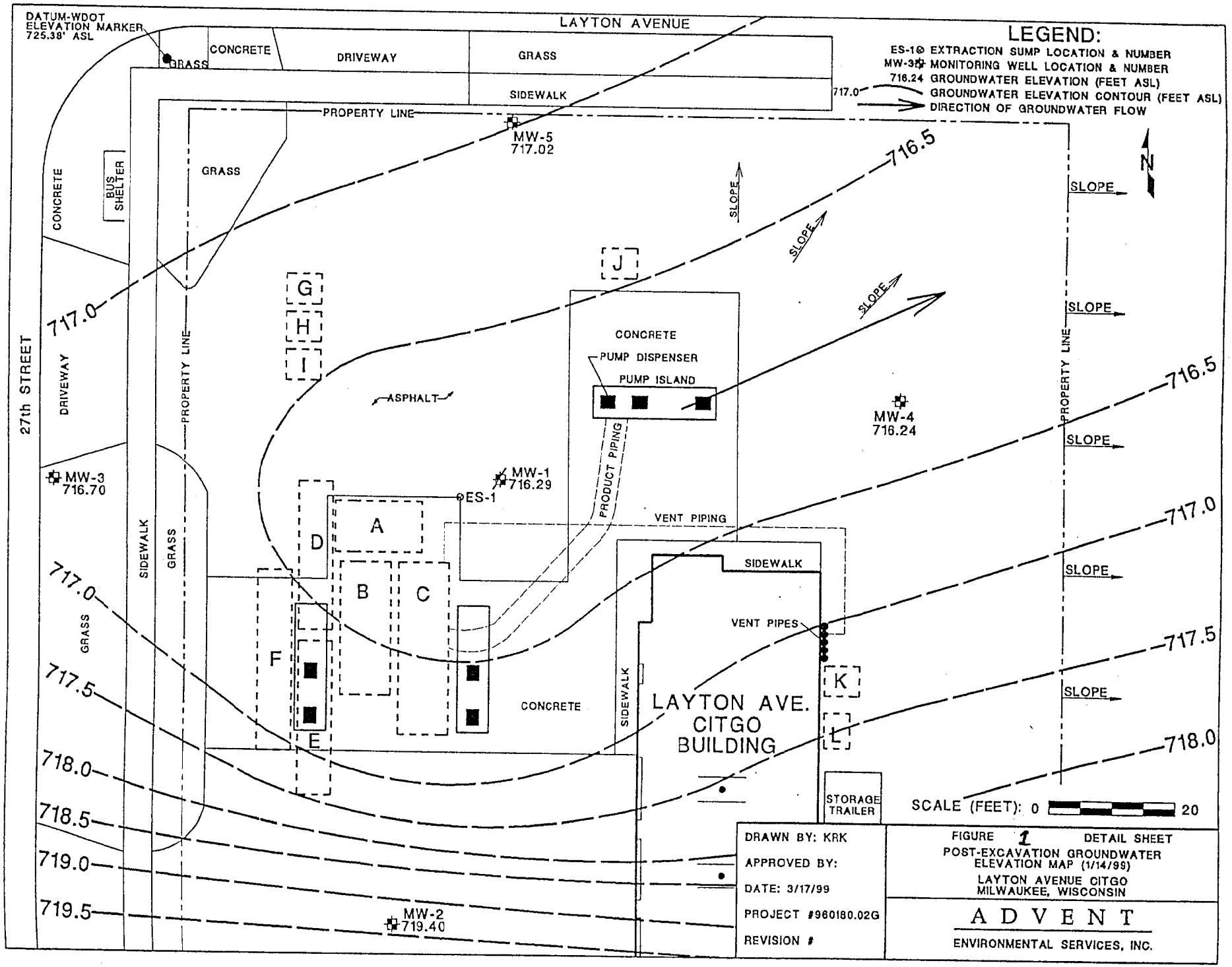

LEGEND:
ES-1 EXTRACTION SUMP LOCATION & NUMBER
MW-3 MONITORING WELL LOCATION & NUMBER
716.24 GROUNDWATER ELEVATION (FEET ASL)
717.0 GROUNDWATER ELEVATION CONTOUR (FEET ASL)
DIRECTION OF GROUNDWATER FLOW
DATUM-WDOT ELEVATION MARKER 725.38' ASL
LAYTON AVENUE
27th STREET
CONCRETE
DRIVEWAY
GRASS
SIDEWALK
PROPERTY LINE
BUS SHELTER
MW-5 717.02
MW-4 716.24
MW-3 716.70
MW-1 716.29
MW-2 719.40
ES-1
ASPHALT
CONCRETE
PUMP DISPENSER
PUMP ISLAND
PRODUCT PIPING
VENT PIPING
VENT PIPES
LAYTON AVE. CITGO BUILDING
STORAGE TRAILER
SLOPE
N
A
B
C
D
E
F
G
H
I
J
K
L
716.5
717.0
717.5
718.0
718.5
719.0
719.5
SCALE (FEET): 0 20
DRAWN BY: KRK
APPROVED BY:
DATE: 3/17/99
PROJECT #960180.02G
REVISION #
FIGURE 1 DETAIL SHEET
POST-EXCAVATION GROUNDWATER ELEVATION MAP (1/14/99)
LAYTON AVENUE CITGO
MILWAUKEE, WISCONSIN
ADVENT
ENVIRONMENTAL SERVICES, INC.

TABLE 2 (PAGE 1 OF 3)
ANALYTICAL RESULTS - GROUNDWATER
LAYTON AVENUE CITGO SITE
MILWAUKEE, WISCONSIN

	NR 140 Remedial Action Limits		Groundwater Samples															
			LC-2W[T2]	LC-7W[T2]	MW-1A[2]	MW-1 DUP[2]	MW-1B	ES-1C	ES-1D	ES-1E	ES-1F	ES-1F DUP	MW-2A	MW-2B	MW-2C	MW-2D	MW-2E	MW-2F
Well / Boring			LC-2W	LC-7W	MW-1	MW-1	MW-1	ES-1	ES-1	ES-1	ES-1	ES-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Depth (feet)			6.1'	8.0'	4-14'	4-14'	4-14'	5-15'	5-15'	5-15'	5-15'	5-15'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'
Date Sampled			7/15/97	7/15/97	10/7/97	10/7/97	1/19/98	6/23/98	10/1/98	1/14/99	4/15/99	4/15/99	10/7/97	1/19/98	6/23/98	10/1/98	1/14/99	4/15/99
ANALYTE	*ES*	*PAL*																
GROs (ppb)			36	21	3,000	-----	6,200	83	110	340	490	500	440	<50	<50	<50	<50	<50
Total Lead (ug/L)	*15*	*1.5*	-----	-----	<1.5	-----	-----	-----	-----	-----	-----	-----	<1.5	-----	-----	-----	-----	-----
SO_4 (mg/L)			-----	-----	16	-----	<5.0	-----	190	180	130	-----	89	130	-----	76	100	73
NO_3 (mg/L)			-----	-----	0.11	-----	0.08	-----	0.61	0.05	<0.05	-----	0.15	1.8	-----	0.28	0.082	0.84
Manganese (mg/L)			-----	-----	0.26	-----	1	-----	0.16	0.22	0.35	-----	0.54	0.55	-----	0.12	0.073	0.18
Soluble Fe (mg/L)			-----	-----	<0.05	-----	0.072	-----	<0.05	<0.05	0.15	-----	<0.05	<0.05	-----	<0.05	<0.05	<0.05
Dissolved Oxygen (mg/L)			-----	-----	6.72	-----	0.06	0.35	1.15	0.32	1.14	-----	8.9	2.74	0.13	0.35	1.52	3.77
VOCs (ppb)[1]																		
Benzene	*5*	*0.5*	**3,300**	**2,100**	830	970	**1,300**	<0.5	<0.5	<0.5	**9.2**	**9.2**	2.0	<0.5	<0.5	<0.5	<0.5	<0.5
n-butylbenzene			113	73	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	13	<0.5	-----	-----	-----	-----
sec-butylbenzene			30	<60	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	0.96	<0.5	-----	-----	-----	-----
1,2-Dichloroethane	*5*	*0.5*	<7[2]	<14[2]	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	<0.5	<0.5	-----	-----	-----	-----
Ethylbenzene	*700*	*140*	**1,400**	430	<250[2]	<250[2]	<25[2]	<0.5	<0.5	<0.5	1	0.98	2.6	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene			65	<38	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	<0.5	<0.5	-----	-----	-----	-----
p-Isopropyltoluene			<18.5	<37	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	1.4	<0.5	-----	-----	-----	-----
Methyl-tert-butyl-ether	*60*	*12*	**1,700**	**17,000**	**11,000**	**12,000**	**14,000**	**980**	<0.2	**590**	**1,300**	**1,100**	1.3	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	*40*	*8*	**101**	<100[2]	<4000[2]	<4000[2]	<400[2]	-----	-----	-----	-----	-----	<8.0	<8.0	-----	-----	-----	-----
n-propylbenzene			151	70	<250[2]	<250[2]	<25[2]	-----	-----	-----	-----	-----	1.9	<0.5	-----	-----	-----	-----
Toluene	*343*	*68.6*	**4,500**	**590**	<250[2]	<250[2]	130	<0.5	<0.5	<0.5	0.98	0.92	5	<0.5	<0.5	<0.5	<0.5	1.1
1,2,4-Trimethylbenzene	*480*[3]	*96*[3]	**1,300**	**340**	<500[2]	<500[2]	<50[2]	<1.0	<1.0	<1.0	1.3	1.3	27	<1.0	<1.0	<1.0	<1.0	1.3
1,3,5-Trimethylbenzene			**490**	**150**	<500[2]	<500[2]	<50[2]	<1.0	<1.0	<1.0	<1.0	<1.0	7.2	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	*620*	*124*	**9,300**	**1,600**	<250[2]	<250[2]	130	0.57	<0.5	<0.5	1	0.95	19	<0.5	<0.5	<0.5	<0.5	2.2
Total VOCs			22,450	22,353	11,830	12,970	15,560	981	0	590	1,313.48	1,113.35	81	0	0	0	0	4.6

----- = not analyzed

Shaded areas indicate concentrations above the PAL. **Bold type** indicates concentrations exceeding the ES.

[T] temporary well sample

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed, results and laboratory detection limits, see Appendix F.

[2] Laboratory detection limits were increased due to presence of petroleum contaminants.

[3] WDNR recommended standards (Not yet promulgated).

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TABLE 2 (PAGE 2 OF 3)
ANALYTICAL RESULTS - GROUNDWATER
LAYTON AVENUE CITGO SITE
MILWAUKEE, WISCONSIN

	NR 140 Remedial Action Limits		Groundwater Samples																		
			No Sample Well Dry	MW-3A	MW-3 DUP	MW-3B	MW-3C	MW-3D	MW-3E	MW-3F	MW-4A	MW-4B	MW-4 DUP	MW-4C	MW-4 DUP	MW-4D	MW-4 DUP	MW-4E	MW-4 DUP	MW-4F
Well / Boring			MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4
Depth (feet)			4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	4-14'
Date Sampled			10/7/97	12/15/97	12/15/97	1/19/98	6/23/98	10/1/98	1/14/99	4/15/99	10/7/97	1/19/98	1/19/98	6/23/98	6/23/98	10/1/98	10/1/98	1/14/99	1/14/99	4/15/99
ANALYTE	*ES*	*PAL*																		
GROs (ppb)			-----	76	-----	<50	<50	<50	<50	<50	210	<50	-----	<50	<50	<50	<50	<50	<50	<50
Total Lead (mg/L)	*15*	*1.5*	-----	<1.5	-----	-----	-----	-----	-----	-----	<1.5	-----	-----	-----	-----	-----	-----	-----	-----	-----
SO_4 (mg/L)			-----	170	-----	170	-----	180	240	94	<10	8	-----	-----	-----	40	-----	20	-----	<10
NO_3 (mg/L)			-----	0.65	-----	0.53	-----	0.67	0.45	0.31	0.062	<0.05	-----	-----	-----	0.075	-----	<0.05	-----	<0.05
Manganese (mg/L)			-----	0.071	-----	<0.05	-----	<0.05	<0.05	<0.05	0.53	2.6	-----	-----	-----	3.2	-----	3.2	-----	<0.05
Soluble Fe (mg/L)			-----	<0.05	-----	<0.05	-----	<0.05	<0.05	<0.05	<0.05	1.5	-----	-----	-----	0.71	-----	3	-----	<0.05
Dissolved Oxygen (mg/L)			-----	-----	-----	7.68	7.21	5.85	7.5	5.83	7.82	0.13	-----	0.17	-----	0.21	-----	0.25	-----	0.69
VOCs (ppb)[1]																				
Benzene	*5*	*0.5*	-----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-butylbenzene			-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	7.8	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
sec-butylbenzene			-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
1,2-Dichloroethane	*5*	*0.5*	-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
Ethylbenzene	*700*	*140*	-----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene			-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
p-isopropyltoluene			-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
Methyl-tert-butyl-ether	*60*	*12*	-----	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	48	27	30	20	31	0.68	0.91	54	69	29
Naphthalene	*40*	*8*	-----	<8.0	<8.0	<8.0	-----	-----	-----	-----	<8.0	<8.0	<8.0	-----	-----	-----	-----	-----	-----	-----
n-propylbenzene			-----	<0.5	<0.5	<0.5	-----	-----	-----	-----	0.64	<0.5	<0.5	-----	-----	-----	-----	-----	-----	-----
Toluene	*343*	*68.6*	-----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.97
1,2,4-Trimethylbenzene	*480*[3]	*96*[3]	-----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	9	<1.0	<1.0	<1.0	5.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene			-----	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	*620*	*124*	-----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	3	<0.5	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	0.88
Total VOCs			0	0	0	0	0	0	0	5.9	72.74	27	30	20	38.6	0.68	0.91	54	69	30.85

----- = not analyzed

Shaded areas indicate concentrations above the PAL. **Bold type** indicates concentrations exceeding the ES.

[T] temporary well sample

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed, results and laboratory detection limits, see Appendix F.

[2] Laboratory detection limits were increased due to presence of petroleum contaminants.

[3] WDNR recommended standards (Not yet promulgated).

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TABLE 2 (PAGE 3 OF 3)
ANALYTICAL RESULTS - GROUNDWATER
LAYTON AVENUE CITGO SITE
MILWAUKEE, WISCONSIN

	NR 140 Remedial Action Limits		Groundwater Samples																			
			MW-5A	MW-5B	MW-5C	MW-5D	MW-5E	MW-5F	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK	TRIP BLANK	FIELD BLANK
Well / Boring			MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Depth (feet)			4-14'	4-14'	4-14'	4-14'	4-14'	4-14'	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Date Sampled			10/7/97	1/19/98	6/23/98	10/1/98	1/14/99	4/15/99	10/7/97	10/7/97	12/15/97	12/15/97	1/19/98	1/19/98	6/23/98	6/23/98	10/1/98	10/1/98	1/14/99	1/14/99	4/15/99	4/15/99
ANALYTE	*ES*	*PAL*																				
GROs (ppb)			260	<50	<50	<50	<50	<50	----	----	----	----	----	----	----	----	<50	<50	<50	<50	<50	<50
Total Lead (mg/L)	*15*	*1.5*	<1.5	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
SO_4 (mg/L)			150	98	----	62	82	65	----	----	----	----	----	----	----	----	----	----	----	----	----	----
NO_3 (mg/L)			0.17	0.16	----	0.15	0.14	0.08	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Manganese (mg/L)			0.18	<0.05	----	<0.05	<0.05	<0.05	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Soluble Fe (mg/L)			<0.05	<0.05	----	<0.05	<0.05	<0.05	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Dissolved Oxygen (mg/L)			8.58	1.74	2.6	0.86	2.45	3.78	----	----	----	----	----	----	----	----	----	----	----	----	----	----
VOCs (ppb)[1]																						
Benzene	*5*	*0.5*	<0.5	<0.5	<0.5	<0.5	<0.5	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-butylbenzene			7	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
sec-butylbenzene			<0.5	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
1,2-Dichloroethane	*5*	*0.5*	<0.5	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
Ethylbenzene	*700*	*140*	1	<0.5	<0.5	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Isopropylbenzene			<0.5	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
p-Isopropyltoluene			0.88	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
Methyl-tert-butyl-ether	*60*	*12*	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Naphthalene	*40*	*8*	<8.0	<8.0	----	----	----	----	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	----	----	----	----	----	----	----	----
n-propylbenzene			0.9	<0.5	----	----	----	----	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	----	----	----	----	----	----	----	----
Toluene	*343*	*68.6*	1.2	<0.5	<0.5	<0.5	<0.5	3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	*480*[3]	*96*[3]	15	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene			3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Xylenes	*620*	*124*	8.2	<0.5	<0.5	<0.5	0.61	3.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total VOCs			37.98	0	0	0	0.61	8.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0

---- = not analyzed

Shaded areas indicate concentrations above the PAL. **Bold type** indicates concentrations exceeding the ES.

[T] temporary well sample

[1] Only VOCs detected are listed. For a complete list of the compounds analyzed, results and laboratory detection limits, see Appendix F.

[2] Laboratory detection limits were increased due to presence of petroleum contaminants.

[3] WDNR recommended standards (Not yet promulgated).

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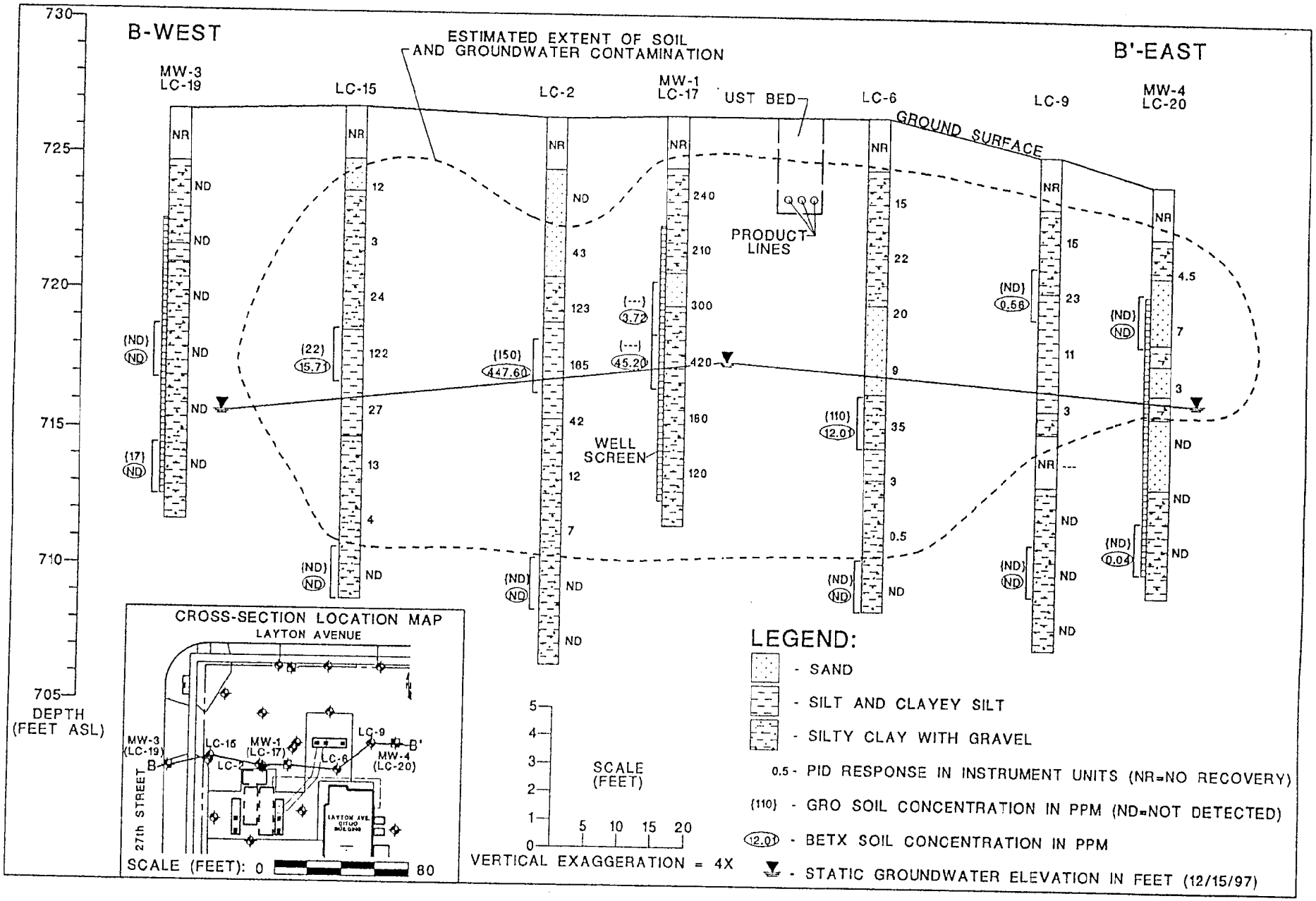

FIGURE 5 WEST TO EAST CROSS-SECTION B-B'
LAYTON AVENUE CITGO
MILWAUKEE, WISCONSIN

ADVENT
ENVIRONMENTAL SERVICES, INC.
DATE: 3/18/98
DRAWING #960180.01F

(E)

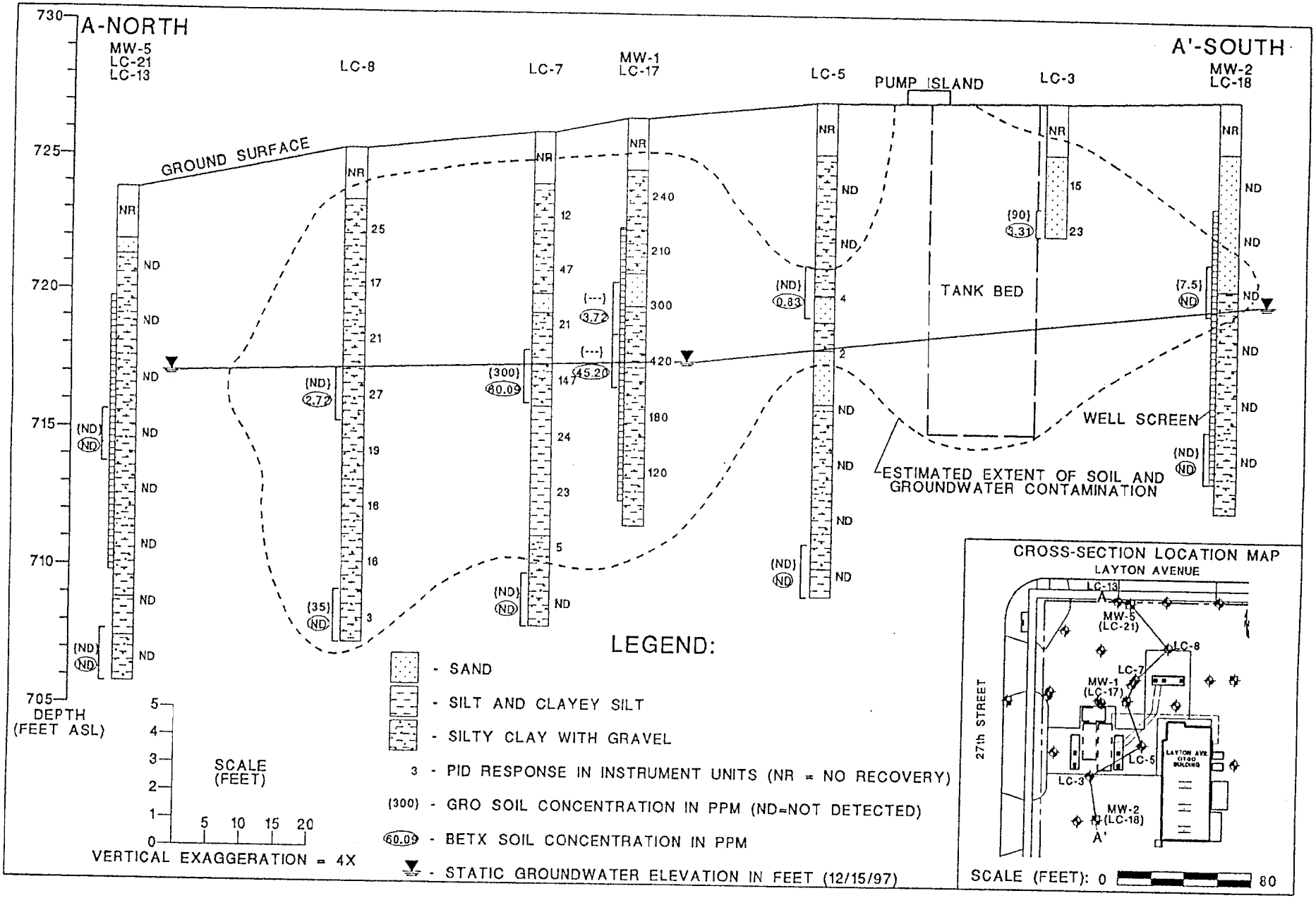

FIGURE 4 NORTH TO SOUTH CROSS-SECTION A-A'
LAYTON AVENUE CITGO
MILWAUKEE, WISCONSIN

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