GIS REGISTRY INFORMATION

SITE NAME:	Buettner Property		
BRRTS #:	03-59-207571	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	54929-8561-50		
CLOSURE DATE:	April 22, 2004		
STREET ADDRESS:	W9350 Lake Wagner Rd		
CITY:	Clintonville		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =** 622269		**Y =** 468527	
CONTAMINATED MEDIA:	Groundwater		Soil	Both X
OFF-SOURCE GW CONTAMINATION >ES:	**Yes**		**No**	X
• **IF YES, STREET ADDRESS:**				
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**		**Y =**	
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	**Yes**		**No**	X
• **IF YES, STREET ADDRESS 1:**				
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**		**Y =**	
CONTAMINATION IN RIGHT OF WAY:	**Yes**		**No**	X

DOCUMENTS NEEDED

Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	
County Parcel ID number, *if used for county*, for all affected properties	X
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour	X
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	X
RP certified statement that legal descriptions are complete and accurate.	X
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	
Copy of (soil or land use) deed restriction (s) or deed notice if any required as a condition of closure	

commerce.wi.gov
Wisconsin
Department of Commerce

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
2129 Jackson Street
Oshkosh, Wisconsin 54901-1805
TDD #: (608) 264-8777
Fax #: (920) 424-0217
Jim Doyle, Governor
Cory L. Nettles, Secretary

April 22, 2004

Donald Buettner
W9350 Lake Wagner Rd
Clintonville, WI 54929-8561

RE: **Final Closure**

Commerce # 54929-8561-50 WDNR BRRTS # 03-59-207571
Buettner Property, W9350 Lake Wagner Rd , Clintonville

Dear Mr. Buettner:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (920) 424-0025.

Sincerely,

Thomas Verstegen
Department of Commerce
PECFA - Site Review Section

cc: Don Brittnacher - OMNNI Associates
Case File

File Ref: S:\apps\tracker\word_templates\CLOSEFINAL.doc

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
2129 Jackson Street
Oshkosh, Wisconsin 54901-1805
TDD #: (608) 264-8777
Fax #: (920) 424-0217
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

February 26, 2004

Donald Buettner
W9350 Lake Wagner Rd
Clintonville, WI 54929-8561

RE: **Conditional Case Closure**

Commerce # 54929-8561-50 WDNR BRRTS # 03-59-207571
Buettner Property, W9350 Lake Wagner Rd , Clintonville

Dear Mr. Buettner:

The Wisconsin Department of Commerce (Commerce) has reviewed the request for case closure prepared by your consultant, Omnni Associates, for the site referenced above. It is understood that residual soil and groundwater contamination remains on-site. Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- All monitoring wells and sump must be properly abandoned. The appropriate documentation must be forwarded to the letterhead address.

This letter serves as your written notice of "no further action". Timely filing of your final PECFA claim (if applicable) is encouraged. If your claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement. Costs associated with recording deed notices or other restrictions are not eligible for PECFA reimbursement, and the recording of these notices should not delay the claim submittal process.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact Tom Verstegen in writing at the letterhead address or by telephone at (920) 424-0025.

Sincerely,

Dee Zoellner
Hydrogeologist
Site Review Section

cc: Don Brittnacher, Omnni Associates
Case File

Published by Eau Claire Book & Stationery Co.

(Section 59.51 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon the names of the grantors, grantees, witnesses and notary). WARRANTY DEED—STATE OF WISCONSIN, FORM NO. S9-P.

DOCUMENT NO.

315641

VOL 450 PAGE 257

WARRANTY DEED
STATE OF WISCONSIN—FORM 9
THIS SPACE RESERVED FOR RECORDING DATA

REGISTERS OFFICE } SS
SHAWANO COUNTY, WIS.
Received for Record this 27 day of Sept A. D. 1971 at 1:45 o'clock P M, and Recorded in Vol 450 of Records, Page 257
H. H. Berndt Register

RETURN TO

THIS INDENTURE, Made by Vernon Buettner and Vera Buettner, his wife,

grantor S of Shawano County, Wisconsin, hereby conveys and warrants to Donald J. Buettner and Kathy Barkow, as joint tenants, with full right of survivorship,

grantee S of Shawano County, Wisconsin, for the sum of one dollar and other valuable consideration - -

the following tract of land in Shawano County, State of Wisconsin;

That part of the northeast quarter of the southeast quarter of Sec. 31, town. 26 north, of range 15 east, described as follows: Commencing at the southeast corner of said quarter-quarter section; thence west on south line thereof 570 feet to the place of beginning; thence continue west on said line 110 feet; thence north parallel to the east line of said section 225 feet; thence east parallel with the south line of said quarter-quarter section 110 feet; and thence south 225 feet to place of beginning. Subject to easements of record and also subject to highway on south boundary thereof.

(This is a transfer from parents to child for nominal consideration - no transfer return nor fee required)

FEE
8
EXEMPT

IN WITNESS WHEREOF, the said grantor S have hereunto set their hand S and seal S this 25th day of September, A. D., 1971.

SIGNED AND SEALED IN PRESENCE OF

H. E. Koehler

H. E. Koehler

Etta Koehler

Etta Koehler

Vernon Buettner (SEAL)
Vernon Buettner

Vera Buettner (SEAL)
Vera Buettner

(SEAL)

(SEAL)

STATE OF WISCONSIN,
Shawano County. } ss.

Personally came before me, this 25th day of September, A. D., 1971.

ENGINEERING
ARCHITECTURE
ENVIRONMENTAL
PLANNING

OMNI ASSOCIATES

ONE SYSTEMS DRIVE
APPLETON, WI 54914
920-735-6900
FAX 920-830-6110

Transmittal Memorandum

WI DNR RECEIVED OCT 28 2003 NER WASTE

To: GIS Department

Address: DNR Northeast Region Headquarters
1125 N. Military Ave.
P.O. Box 10448
Green Bay, WI 54307-0448

From: Don Brittnacher

Date: October 27, 2003

Project No.: DNR #03-59-207571;
COMM #54929-8561-50;
OMNNI #N1546A99

Project: Buettner farm remediation

Last Dated	Item Description	Last Dated	Item Description
	GIS soils registry materials, including fee		
	GIS groundwater registry materials, including fee		

Sir/Madam,

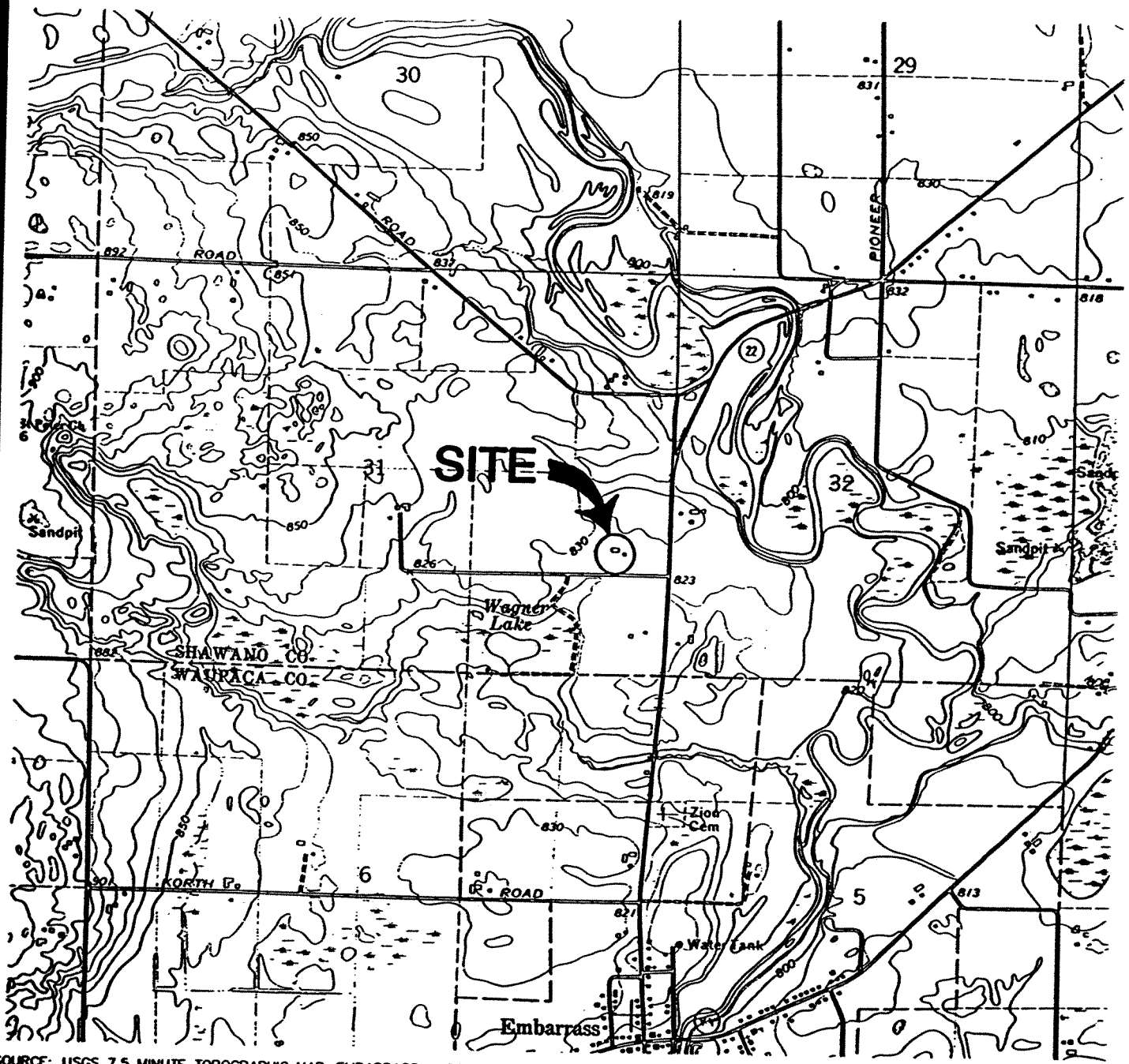
I'm sending the above materials as part of a closure request for the site. The tax parcel number for the portion of the Buettner's farm which includes the home and area of remaining contamination is 010-31410-0000. The geographic position of the contaminated portion of the Buettner farm site, in WTM91 coordinates, is 622269, 468527.

Thank you.

Don Brittnacher

Don Brittnacher

R + R - OSH
RECEIVED
NOV 03 2003
TRACKED ☑
REVIEWED ☑



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, EMBARRASS, WISCONSIN QUADRANGLE, 1969.

0 1000' 2000' 4000'

SCALE 1" = 2000'

N

FIGURE 1
SITE LOCATION MAP

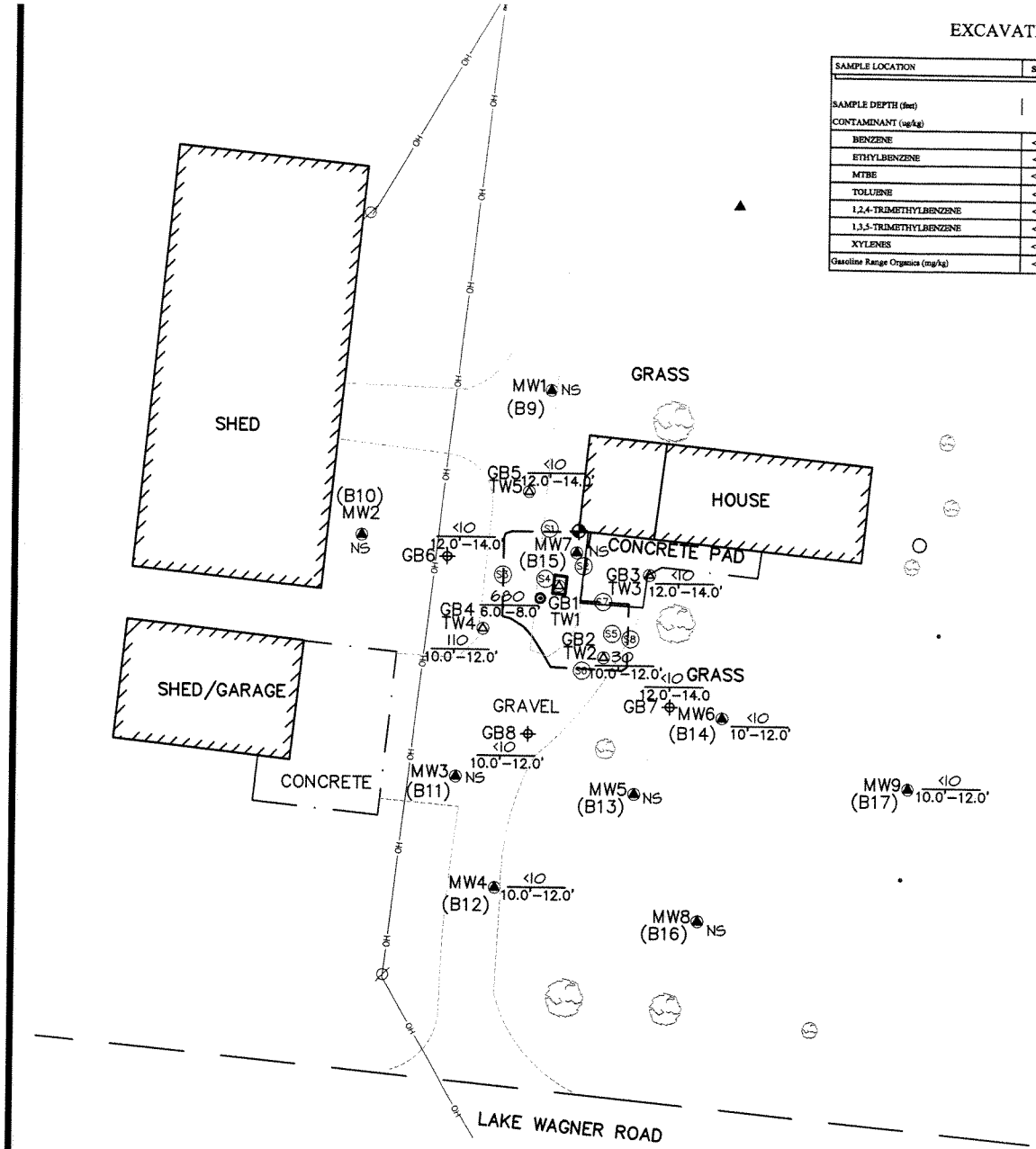
BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES

ONE SYSTEMS DRIVE
APPLETON, WI 54914

PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:		PROJECT NO:	N1546A99
PROJECT ENGINEER:		CAD FILE NO:	N1546A1
DRAWN BY:	KRE	SCALE:	
REVIEWED BY:		DATE:	2/4/99



EXCAVATION SOIL SAMPLE RESULTS

SAMPLE LOCATION	S1	S2	S3	S4	S5	S6	S7	S8
SAMPLE DEPTH (feet)	7'	8'	7'	15'	14'	7'	8'	8'
CONTAMINANT (ug/kg)								
BENZENE	<25	<250	<25	2,900	50	<25	3,600	<25
ETHYLBENZENE	<25	880	<25	480	<25	<25	4,400	<25
MTBE	<25	<250	<25	930	53	<25	1,900	<25
TOLUENE	<25	3,700	<25	4,600	<25	<25	14,000	<25
1,2,4-TRIMETHYLBENZENE	<25	120,000	40	1,000	190	64	12,000	<25
1,3,5-TRIMETHYLBENZENE	<25	37,000	40	280	51	<25	3,800	<25
XYLENES	<75	110,000	<75	2,800	480	<75	25,000	<25
Gasoline Range Organics (mg/kg)	<10	1,000	<10	22	<10	<10	160	<10

0' 6' 15' 30'
SCALE: 1" = 30'

LOCAL GRID NORTH
N

LEGEND:

- MW1 (TW1) — Well Location and I.D. No. / Temporary Monitoring Well Location
- B9 — Soil Boring Location and I.D No.
- 8" Dia. Sump Location
- 680 — GRO Concentration in Soil (mg/kg)
- 6.0'–8.0' — Depth of Sample (ft.)
- NS — Not Sampled
- Excavation Area
- S1 — Soil Sample Location and I.D. No.
- Building Face
- Former Tank Location
- Edge of Asphalt
- Edge of Concrete Pavement
- Private Well
- Septic Tank
- Septic Vent
- Tree
- OH — Overhead Utilities
- Power Pole
- Reference Point

FIGURE 2
SOIL BORING AND EXCAVATION SOIL SAMPLE RESULTS

BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:		PROJECT NO:	N1546A99
PROJECT ENGINEER:		CAD FILE NO:	N1546A3
DRAWN BY:	DLD	SCALE:	1" = 30'
REVIEWED BY:		DATE:	9/5/2003

TABLE 3
SUMMARY OF LABORATORY ANALYSIS
TEMPORARY WELL SAMPLES

PARAMETER (µg/L)	ES	PAL	TW1	TW2	TW3	TW4	TW5
SAMPLE DATE	-	-	April 1, 1999				
PVOCs							
BENZENE	5.5	0.5	27000	7200	410	1300	230
ETHYLBENZENE	700	140	2000	1200	2000	2300	1400
MTBE	60	12	36000	2300	<16	120	26
TOLUENE	343	68.6	33000	12000	2900	12000	4100
1,2,4-TRIMETHYLBENZENE	480 (combined)	96 (combined)	1600	1100	1400	2700	2400
1,3,5-TRIMETHYLBENZENE			500	370	490	870	690
XYLENES	620	124	12000	6200	11000	13000	7800

ES = enforcement standard
PAL = preventive action limit

Note: Temporary wells are not constructed in a manner which allows them to be used as NR 140 points of enforcement.

TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW1							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	<0.32	0.37	< 0.21	< 0.21	< 0.43	< 0.45	NS	NS
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NS	NS
n-BUTYBENZENE	-	-	<0.23	NA	NA	NA	NA	NA	NS	NS
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NS	NS
ETHYLBENZENE	700	140	<0.34	<0.34	< 0.22	< 0.22	< 0.49	< 0.82	NS	NS
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NS	NS
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NS	NS
MTBE	60	21	<0.31	<0.31	< 0.46	< 0.46	< 0.49	< 0.43	NS	NS
NAPHTHALENE	40	8	<0.88	NA	NA	NA	NA	NA	NS	NS
n-PROPYLBENZENE	-	-	<0.30	NA	NA	NA	NA	NA	NS	NS
TOLUENE	1000	200	<0.35	<0.35	< 0.41	< 0.41	< 0.63	< 0.68	NS	NS
1,2,4-TRIMETHYLBENZENE	480	96	<0.41	<0.35	< 0.26	< 0.26	< 0.42	< 0.92	NS	NS
1,3,5-TRIMETHYLBENZENE			<0.45	<0.64	< 0.34	< 0.34	< 0.72	< 0.94	NS	NS
m&p-XYLENE	10,000	1000	<0.66	<1.0	< 0.43	< 0.69	< 1.5	< 1.7	NS	NS
o-XYLENE			<0.32	(combined)	< 0.26	(combined)	(combined)	< 0.77	NS	NS
GASOLINE RANGE ORGANICS	-	-	<100	NA	NA	NA	NA	NA	NS	NS
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NA	NS	NS

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

F:\ENVIRO\N1546A99\TABLES\HISTORY

TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW2							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	<0.32	<0.32	< 0.21	< 0.21	< 0.43	< 0.45	NS	NS
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NS	NS
n-BUTYBENZENE	-	-	<0.23	NA	NA	NA	NA	NA	NS	NS
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NS	NS
ETHYLBENZENE	700	140	<0.34	<0.34	< 0.22	< 0.22	< 0.49	< 0.82	NS	NS
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NS	NS
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NS	NS
MTBE	60	21	<0.31	<0.31	< 0.46	< 0.46	< 0.49	< 0.43	NS	NS
NAPHTHALENE	40	8	<0.88	NA	NA	NA	NA	NA	NS	NS
n-PROPYLBENZENE	-	-	<0.30	NA	NA	NA	NA	NA	NS	NS
TOLUENE	1000	200	<0.35	<0.35	< 0.41	< 0.41	< 0.63	< 0.68	NS	NS
1,2,4-TRIMETHYLBENZENE	480	96	<0.41	<0.35	< 0.26	< 0.26	< 0.42	< 0.92	NS	NS
1,3,5-TRIMETHYLBENZENE			<0.45	<0.64	< 0.34	< 0.34	< 0.72	< 0.94	NS	NS
m&p-XYLENE	10,000	1000	<0.66	<1.0	< 0.43	< 0.69	< 1.5	< 1.7	NS	NS
o-XYLENE			<0.32	(combined)	< 0.26	(combined)	(combined)	< 0.77	NS	NS
GASOLINE RANGE ORGANICS	-	-	<100	NA	NA	NA	NA	NA	NS	NS
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NA	NS	NS

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

F:\ENVIRO\N1546A99\TABLES\HISTORY

TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW3							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	*1.2*	NS	*4.9*	**27**	< 4.3	< 4.5	**13**	< 0.30
sec-BUTYLBENZENE	1000	200	0.6	NS	NA	NA	NA	NA	NA	NA
n-BUTYBENZENE	-	-	3.1	NS	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	5	0.5	<0.36	NS	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	700	140	2.8	NS	47	29	23	14	5.0	< 0.60
ISOPROPYLBENZENE	-	-	<0.34	NS	NA	NA	NA	NA	NA	NA
p-ISOPROPYLBENZENE	-	-	<0.31	NS	NA	NA	NA	NA	NA	NA
MTBE	60	12	<0.31	NS	< 4.6	< 4.6	< 4.9	< 4.3	9.6	< 0.58
NAPHTHALENE	40	8	4.5	NS	**89**	**190**	**60**	**450**	*24*	0.81
n-PROPYLBENZENE	-	-	1.5	NS	NA	NA	NA	NA	NA	NA
TOLUENE	1000	200	19	NS	27	110	< 6.3	< 6.8	19	< 0.58
1,2,4-TRIMETHYLBENZENE	480	96	21	NS	**570**	**870**	**410**	**2100**	*250*	2.2
1,3,5-TRIMETHYLBENZENE			10	NS	**240**	**360**	**230**	**870**	*110*	1.7
m&p-XYLENE	10,000	1000	72	NS	680	*1900*	510	*970*	150	1.7
o-XYLENE			34	NS	(combined)	(combined)	(combined)	*250*	60	0.65
GASOLINE RANGE ORGANICS	-	-	300	NS	NA	NA	NA	NA	NA	NA
DISSOLVED LEAD	15	1.5	NA	NS	NA	NA	NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

F:\ENVIRO\N1546A99\TABLES\HISTORY

TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW4							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	<0.32	NS	< 0.21	< 0.21	< 0.43	< 0.45	NS	< 0.30
sec-BUTYLBENZENE	1000	200	<0.34	NS	NA	NA	NA	NA	NS	NA
n-BUTYBENZENE	-	-	<0.23	NS	NA	NA	NA	NA	NS	NA
1,2-DICHLOROETHANE	5	0.5	<0.36	NS	NA	NA	NA	NA	NS	NA
ETHYLBENZENE	700	140	<0.34	NS	< 0.22	< 0.22	< 0.49	< 0.82	NS	< 0.60
ISOPROPYLBENZENE	-	-	<0.34	NS	NA	NA	NA	NA	NS	NA
p-ISOPROPYLBENZENE	-	-	<0.31	NS	NA	NA	NA	NA	NS	NA
MTBE	60	12	<0.31	NS	< 0.46	< 0.46	< 0.49	< 0.43	NS	< 0.58
NAPHTHALENE	40	8	<0.88	NS	NA	NA	< 1.4	NA	NS	NA
n-PROPYLBENZENE	-	-	<0.30	NS	NA	NA	NA	NA	NS	NA
TOLUENE	1000	200	<0.35	NS	< 0.41	< 0.41	< 0.63	< 0.68	NS	< 0.58
1,2,4-TRIMETHYLBENZENE	480	96	<0.41	NS	< 0.26	< 0.26	< 0.42	< 0.92	NS	< 0.66
1,3,5-TRIMETHYLBENZENE			<0.45	NS	< 0.34	< 0.34	< 0.72	< 0.94	NS	< 0.52
m&p-XYLENE	10,000	1000	<0.66	NS	< 0.43	< 0.69	< 1.5	< 1.7	NS	< 1.2
o-XYLENE			<0.32	NS	< 0.26	(combined)	(combined)	< 0.77	NS	< 0.64
GASOLINE RANGE ORGANICS	-	-	<100	NS	NA	NA	NA	NA	NS	NA
DISSOLVED LEAD	15	1.5	NA	NS	NA	NA	NA	NA	NS	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW5							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	**580**	**480**	**670**	**350**	**430**	**190**	**200**	**170**
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NA	NA
n-BUTYBENZENE	-	-	<0.23	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	700	140	*200*	*280*	*570*	*450*	*320*	*220*	*210*	91
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NA	NA
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NA	NA
MTBE	60	12	<0.31	<6.2	< 9.2	< 23	< 10	< 4.3	*34*	9.6
NAPHTHALENE	40	8	<0.88	NA	*33*	**120**	**74**	**150**	**97**	**68**
n-PROPYLBENZENE	-	-	7.7	NA	NA	NA	NA	NA	NA	NA
TOLUENE	1000	200	**2900**	*310*	**1800**	*520*	*880*	*310*	*290*	190
1,2,4-TRIMETHYLBENZENE	480	96	*160*	*260*	**360**	**890**	*240*	**1000**	**860**	**690**
1,3,5-TRIMETHYLBENZENE			*73*	*76*	**130**	**300**	*63*	**260**	**240**	**180**
m&p-XYLENE	10,000	1000	*2200*	*2100*	*3800*	*7700*	*2900*	*5300*	*4800*	*4000*
o-XYLENE			*1400*	(combined)	*1400*	(combined)	(combined)	*1800*	*1300*	*1300*
GASOLINE RANGE ORGANICS	-	-	10000	NA	NA	NA	NA	NA	NA	NA
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW6							
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	**1000**	**1300**	**2300**	**1300**	**1100**	**1400**	**820**	**1100**
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NA	NA
n-BUTYBENZENE	-	-	<0.23	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	700	140	62	*480*	*230*	**940**	51	**1000**	*560*	*460*
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NA	NA
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NA	NA
MTBE	60	12	*37*	<6.2	< 23	< 23	< 25	< 4.3	*34*	*14*
NAPHTHALENE	40	8	<0.88	NA	**55**	**140**	< 70	**170**	**98**	**83**
n-PROPYLBENZENE	-	-	6.4	NA	NA	NA	NA	NA	NA	NA
TOLUENE	1000	200	**1800**	**5700**	*440*	**2300**	160	*800*	*860*	*590*
1,2,4-TRIMETHYLBENZENE	480	96	*110*	**480**	*210*	**680**	*75*	**650**	**440**	*300*
1,3,5-TRIMETHYLBENZENE			*68*	**140**	*100*	**240**	*47*	**200**	**130**	*93*
m&p-XYLENE	10,000	1000	*1600*	*6400*	*1100*	*3900*	380	*2500*	*2200*	*1600*
o-XYLENE			*1200*	(combined)	*260*	(combined)	(combined)	*430*	*580*	*320*
GASOLINE RANGE ORGANICS	-	-	8300	NA	NA	NA	NA	NA	NA	NA
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW7				SUMP			
SAMPLE DATE	-	-	8/5/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	**3800**	**3000**	**13,000**	**6200**	**760**	**130**	**67**	**330**
sec-BUTYLBENZENE	1000	200	13	NA	NA	NA	NA	< 0.62	NA	NA
n-BUTYBENZENE	-	-	150	NA	NA	NA	NA	< 0.65	NA	NA
1,2-DICHLOROETHANE	5	0.5	11	NA	< 12	NA	< 2.7	< 0.55	NA	NA
ETHYLBENZENE	700	140	*370*	*190*	**1200**	*580*	75	6.5	< 0.82	< 1.5
ISOPROPYLBENZENE	-	-	39	NA	NA	NA	NA	2.6	NA	NA
p-ISOPROPYLBENZENE	-	-	3.6	NA	NA	NA	NA	NA	NA	NA
MTBE	60	12	**1500**	**1600**	**5200**	**2100**	**540**	**170**	**87**	**230**
NAPHTHALENE	40	8	**220**	**140**	**280**	**260**	*16*	*14*	2.5	2.4
n-PROPYLBENZENE	-	-	110	NA	NA	NA	NA	2.2	NA	NA
TOLUENE	1000	200	**2000**	**1100**	**18,000**	**5300**	110	34	< 0.68	< 1.4
1,2,4-TRIMETHYLBENZENE	480	96	**1100**	**1000**	**1700**	**1200**	*200*	29	< 0.92	< 1.6
1,3,5-TRIMETHYLBENZENE			**380**	**350**	**550**	**540**	*74*	9.5	< 0.94	< 1.3
m&p-XYLENE	10,000	1000	*2800*	*2800*	**8800**	*4600*	*740*	62	< 1.7	< 3.0
o-XYLENE			*1100*	(combined)	**3600**	(combined)	*280*	39	8.2	15
GASOLINE RANGE ORGANICS	-	-	15000	NA	NA	NA	NA	NA	NA	NA
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW8							
SAMPLE DATE	-	-	10/29/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	<0.32	<0.32	< 0.21	*0.92*	< 0.43	*0.54*	**6.5**	< 0.30
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NA	NA
n-BUTYBENZENE	-	-	0.23	NA	NA	NA	NA	NA	NA	NA
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	700	140	<0.34	<0.34	< 0.22	< 0.22	< 0.49	< 0.82	< 0.82	< 0.60
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NA	NA
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NA	NA
MTBE	60	12	4.4	1.3	< 0.46	*18*	1.0	4.2	*34*	5.4
NAPHTHALENE	40	8	<0.088	NA	NA	NA	< 1.4	NA	NA	NA
n-PROPYLBENZENE	-	-	<0.30	NA	NA	NA	NA	NA	NA	NA
TOLUENE	1000	200	<0.35	<0.35	< 0.41	< 0.41	< 0.63	< 0.68	< 0.68	< 0.58
1,2,4-TRIMETHYLBENZENE	480	96	<0.35	<0.35	< 0.26	< 0.26	< 0.42	< 0.92	< 0.92	< 0.66
1,3,5-TRIMETHYLBENZENE			<0.64	<0.64	< 0.34	< 0.34	< 0.72	< 0.94	< 0.94	< 0.52
m&p-XYLENE	10,000	1000	<0.66	<1.0	< 0.43	< 0.69	< 1.5	< 1.7	< 1.7	< 1.2
o-XYLENE			<0.32	(combined)	< 0.26	(combined)	(combined)	< 0.77	0.90	< 0.64
GASOLINE RANGE ORGANICS	-	-	<100	NA	NA	NA	NA	NA	NA	NA
DISSOLVED LEAD	15	1.5	<1	NA	NA	NA	NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	MW9							
SAMPLE DATE	-	-	10/29/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	<0.32	<0.32	< 0.21	< 0.21	< 0.43	< 0.45	NS	NS
sec-BUTYLBENZENE	1000	200	<0.34	NA	NA	NA	NA	NA	NS	NS
n-BUTYBENZENE	-	-	0.23	NA	NA	NA	NA	NA	NS	NS
1,2-DICHLOROETHANE	5	0.5	<0.36	NA	NA	NA	NA	NA	NS	NS
ETHYLBENZENE	700	140	<0.34	<0.34	< 0.22	< 0.22	< 0.49	< 0.82	NS	NS
ISOPROPYLBENZENE	-	-	<0.34	NA	NA	NA	NA	NA	NS	NS
p-ISOPROPYLBENZENE	-	-	<0.31	NA	NA	NA	NA	NA	NS	NS
MTBE	60	12	<0.31	<0.31	< 0.46	< 0.46	< 0.49	< 0.43	NS	NS
NAPHTHALENE	40	8	<0.088	NA	NA	NA	< 1.4	NA	NS	NS
n-PROPYLBENZENE	-	-	<0.30	NA	NA	NA	NA	NA	NS	NS
TOLUENE	1000	200	<0.35	<0.35	< 0.41	< 0.41	< 0.63	< 0.68	NS	NS
1,2,4-TRIMETHYLBENZENE	480	96	<0.35	<0.35	< 0.26	< 0.26	< 0.42	< 0.92	NS	NS
1,3,5-TRIMETHYLBENZENE			<0.64	<0.64	< 0.34	< 0.34	< 0.72	< 0.94	NS	NS
m&p-XYLENE	10,000	1000	<0.66	<1.0	< 0.43	< 0.69	< 1.5	< 1.7	NS	NS
o-XYLENE			<0.32	(combined)	< 0.26	(combined)	(combined)	< 0.77	NS	NS
GASOLINE RANGE ORGANICS	-	-	<100	NA	NA	NA	NA	NA	NS	NS
DISSOLVED LEAD	15	1.5	*2.2*	NA	NA	NA	NA	NA	NS	NS

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	SUMP							
SAMPLE DATE	-	-	10/29/99	1/11/00	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)										
BENZENE	5	0.5	Sump was not installed during this event	Sump was not installed during this event	Sump was not installed during this event	Sump was not installed during this event	**760**	**130**	**67**	**330**
sec-BUTYLBENZENE	1000	200					NA	< 0.62	NA	NA
n-BUTYBENZENE	-	-					NA	< 0.65	NA	NA
1,2-DICHLOROETHANE	5	0.5					< 2.7	< 0.55	NA	NA
ETHYLBENZENE	700	140					75	6.5	< 0.82	< 1.5
ISOPROPYLBENZENE	-	-					NA	2.6	NA	NA
p-ISOPROPYLBENZENE	-	-					NA	NA	NA	NA
MTBE	60	12					**540**	**170**	**87**	**230**
NAPHTHALENE	40	8					*16*	*14*	2.5	2.4
n-PROPYLBENZENE	-	-					NA	2.2	NA	NA
TOLUENE	1000	200					110	34	< 0.68	< 1.4
1,2,4-TRIMETHYLBENZENE	480	96					*200*	29	< 0.92	< 1.6
1,3,5-TRIMETHYLBENZENE							*74*	9.5	< 0.94	< 1.3
m&p-XYLENE	10,000	1000					*740*	62	< 1.7	< 3.0
o-XYLENE							*280*	39	8.2	15
GASOLINE RANGE ORGANICS	-	-					NA	NA	NA	NA
DISSOLVED LEAD	15	1.5					NA	NA	NA	NA

Remedial excavation took place.

ES = enforcement standard
PAL = preventive action limit
<0.7 = <{below sample detection limit}
NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 4
SUMMARY OF LABORATORY ANALYSIS
GROUNDWATER SAMPLES - HISTORICAL

PARAMETER (µg/L)	ES	PAL	Private Well					
SAMPLE DATE	-	-	5/10/01	12/4/01	6/12/02	10/23/02	1/30/03	8/20/03
DETECTED VOCs (µg/L)								
BENZENE	5	0.5	< 0.21	< 0.21	< 0.43	< 0.45	< 0.45	NS
sec-BUTYLBENZENE	1000	200	NA	NA	NA	NA	NA	NS
n-BUTYBENZENE	-	-	NA	NA	NA	NA	NA	NS
1,2-DICHLOROETHANE	5	0.5	< 0.23	NA	NA	NA	NA	NS
ETHYLBENZENE	700	140	< 0.22	< 0.22	< 0.49	< 0.82	< 0.82	NS
ISOPROPYLBENZENE	-	-	NA	NA	NA	NA	NA	NS
p-ISOPROPYLBENZENE	-	-	NA	NA	NA	NA	NA	NS
MTBE	60	12	< 0.46	< 0.46	< 0.49	< 0.43	< 0.43	NS
NAPHTHALENE	40	8	NA	NA	< 1.4	NA	NA	NS
n-PROPYLBENZENE	-	-	NA	NA	NA	NA	NA	NS
TOLUENE	1000	200	< 0.41	< 0.41	< 0.63	< 0.68	< 0.68	NS
1,2,4-TRIMETHYLBENZENE	480	96	< 0.26	< 0.26	< 0.42	< 0.92	< 0.92	NS
1,3,5-TRIMETHYLBENZENE			< 0.34	< 0.34	< 0.72	< 0.94	< 0.94	NS
m&p-XYLENE	10,000	1000	< 0.43	< 0.69	< 1.5	< 1.7	< 1.7	NS
o-XYLENE			< 0.26	(combined)	(combined)	< 0.77	< 0.77	NS
GASOLINE RANGE ORGANICS	-	-	NA	NA	NA	NA	NA	NS
DISSOLVED LEAD	15	1.5	NA	NA	NA	NA	NA	NS

ES = enforcement standard
PAL = preventive action limit

NA = not analyzed
Bold = sample concentrations detected above the ES for regulated points of enforcement
Italics = sample concentrations detected above the PAL for regulated points of enforcement

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TABLE 1
SUMMARY OF FIELD HEADSPACE ANALYSIS
SOIL BORING SAMPLES

SAMPLE ID	DATE AND LOCATION	DEPTH (ft)	PID (ppm*)	SOIL CHARACTERISTICS
⚐ GB1-1	March 26, 1999 Temporary Monitoring Well TW1	6.0-8.0	3860.0	Red-brown silty clay w/gravel and mottling and a strong odor.
GB1-2		8.0-10.0	1298.0	Red-brown silty clay w/gravel and mottling and a strong odor.
GB1-3		10.0-12.0	-	No recovery, the geoprobe pushed a stone from approximately 10.0' to 12.0'.
GB1-4		12.0-14.0	799.0	Red -brown sandy clay with gravel and a slight odor.
GB2-1	March 26, 1999 Temporary Monitoring Well TW2	0.0-2.0	0.0	Yellow gravel over brown sand over red-brown sandy clay over black silty clay with no odor.
GB2-2		2.0-4.0	0.0	Black silty clay over brown sand over red-brown clay over red-brown sandy clay with gravel and no odor.
GB2-3		4.0-6.0	0.0	Red-brown sandy clay w/gravel and no odor.
GB2-4		6.0-8.0	0.0	Red-brown silty clay w/gravel and no odor.
GB2-5		8.0-10.0	75.8	Sandy/gravelly clay over red-brown silty clay w/gravel and a slight odor.
⚐ GB2-6		10.0-12.0	2591.0	Red-brown sandy/silty clay w gravel and a strong odor.
GB2-7		12.0-14.0	529.0	Red-brown silty clay w/gravel and interbedded brown sand seams and a strong odor.
GB3-1	March 26, 1999 Temporary Monitoring Well TW3	0.0-2.0	44.0	Black sandy topsoil.
GB3-2		2.0-4.0	-	No recovery, the geoprobe pushed a stone from approximately 1.0' to 4.0'.
GB3-3		4.0-6.0	0.0	Light brown sand over red-brown clayey sand w/gravel and no odor.
GB3-4		6.0-8.0	0.0	Red-brown sandy clay over red-brown silty clay with no odor.
GB3-5		8.0-10.0	0.0	Red-brown silty clay over dark brown sand and gravel over red-brown silty clay with gravel and no odor.
GB3-6		10.0-12.0	238.0	Red-brown silty clay w/gravel over red-brown sandy clay w/gravel and mottling with strong odor.
⚐ GB3-7		12.0-14.0	274.0	Red-brown silty/sandy clay with gravel and interbedded sand seams and slight odor.
GB4-1	March 26, 1999 Temporary Monitoring Well TW4	0.0-2.0	0.0	Gravel over yellowish brown sand over dark brown silty sand with no odor.
GB4-2		2.0-4.0	0.0	Dark brown silty sand over light brown sand with no odor.
GB4-3		4.0-6.0	0.0	Light brown sand over red sandy clay w/gravel over light brown sand with no odor.
GB4-4		6.0-8.0	0.0	Light brown sand over brown coarse sand with no odor.
GB4-5		8.0-10.0	100.0	Brown coarse sand over red-brown clayey sand w/gravel and no odor.
⚐ GB4-6		10.0-12.0	926.0	Red-brown sandy clay over brown silty clay w/gravel with a strong odor.
GB4-7		12.0-14.0	167.0	Brown silty/sandy clay with a slight odor.
GB5-1	March 26, 1999 Temporary Monitoring Well TW5	0.0-2.0	0.0	Gravel over brown sand w/gravel and no odor.
GB5-2		2.0-4.0	0.0	Red-brown sandy clay with no odor.
GB5-3		4.0-6.0	0.0	Red-brown sandy clay with no odor.
GB5-4		6.0-8.0	0.0	Red-brown sandy clay with no odor.
GB5-5		8.0-10.0	0.0	Red-brown silty clay w/gravel and interbedded sand and gravel seams with no odor.
GB5-6		10.0-12.0	0.0	No recovery.
⚐ GB4-7		12.0-14.0	189.0	Brown sand with no odor.
GB6-1	March 26, 1999 Geoprobe Boring GB6	0.0-2.0	0.0	Topsoil over brown sand over red-brown sandy clay w/gravel and no odor.
GB6-2		2.0-4.0	23.2	Red-brown sandy clay w/gravel and no odor.
GB6-3		4.0-6.0	74.0	Red-brown sandy clay w/gravel over red-brown clayey sand w/gravel and no odor.
GB6-4		6.0-8.0	0.0	Red-brown clayey sand w/gravel over red-brown silty clay w/gravel and no odor.
GB6-5		8.0-10.0	271.0	Red-brown silty clay w/gravel and no odor.
GB6-6		10.0-12.0	239.0	Red-brown silty clay w/gravel and a slight odor.
⚐ GB6-7		12.0-14.0	306.0	Red-brown silty clay w/gravel and a slight odor.

* = isobutylene equivalents
⚐ = samples collected for laboratory analysis
\- = no headspace readings were taken

TABLE 1
SUMMARY OF FIELD HEADSPACE ANALYSIS
SOIL BORING SAMPLES

SAMPLE ID	DATE AND LOCATION	DEPTH (ft)	PID (ppm*)	SOIL CHARACTERISTICS
GB7-1	March 26, 1999 Geoprobe Boring GB7	0.0-2.0	0.0	Black sandy topsoil with no odor.
GB7-2		2.0-4.0	0.0	Black sandy topsoil over light brown sand with no odor.
GB7-3		4.0-6.0	0.0	Red-brown clayey sand w/gravel and no odor.
GB7-4		6.0-8.0	0.0	Red-brown clayey sand w/gravel over red-brown silty clay w gravel and no odor.
GB7-5		8.0-10.0	0.0	Red-brown silty clay w/gravel and no odor.
GB7-6		10.0-12.0	112.0	Red-brown silty clay w/gravel and no odor.
⚐ GB7-7		12.0-14.0	219.0	Red-brown silty clay w/gravel and no odor.
GB8-1	March 26, 1999 Geoprobe Boring GB8	0.0-2.0	0.0	Gravel over black organic rich silty sand with no odor.
GB8-2		2.0-4.0	0.0	Light brown sand with no odor.
GB8-3		4.0-6.0	0.0	Brown clayey sand over brown silty sand with no odor.
GB8-4		6.0-8.0	0.0	Brown silty sand over light brown medium sand with no odor.
GB8-5		8.0-10.0	0	Light brown medium sand and no odor.
⚐ GB8-6		10.0-12.0	374	Light brown medium sand and no odor.
GB8-7		12.0-14.0	-	Equipment failure. Split spoon broke off in the hole.
B9	July 16, 1999 Monitoring Well MW1	15.5	-	Blind drilled, groundwater monitoring well MW1 installed.
B10	July 16, 1999 Monitoring Well MW2	15.5	-	Blind drilled, groundwater monitoring well MW2 installed.
B11	July 16, 1999 Monitoring Well MW3	15.5	-	Blind drilled, groundwater monitoring well MW3 installed.
B12-1	July 16, 1999 Monitoring Well MW4	2.5-4.5	0.0	Tan medium sand with no odor.
B12-2		5.0-7.0	0.0	Tan medium sand with no odor.
B12-3		7.5-9.5	0.0	Tan medium sand with no odor.
B12-4		10.0-12.0	0.0	Tan medium sand with no odor.
⚐ B12-5		12.5-14.5	0.0	Tan medium sand with no odor.
B13	July 16, 1999 Monitoring Well MW5	15.5	-	Blind drilled, groundwater monitoring well MW5 installed.
B14-1	July 16, 1999 Monitoring Well MW6	2.5-4.5	0.0	Dark brown organic rich sand over red-brown sandy clay w/gravel with no odor.
B14-2		5.0-7.0	0.0	Red-brown sandy clay w/gravel over red-brown silty clay w/gravel and no odor.
B14-3		7.5-9.5	0.0	Red-brown silty clay with no odor.
⚐ B14-4		10.0-12.0	0.0	Red-brown silty clay w/gravel and no odor.
B14-5		12.5-14.5	0.0	No recovery.
B15	July 16, 1999 Monitoring Well MW7	16.0	-	Blind drilled, groundwater monitoring well MW7 installed.
B16	October 11, 1999 Monitoring Well MW8	16.5	-	Blind drilled, groundwater monitoring well MW8 installed.
B17-1	October 11, 1999 Monitoring Well MW9	2.5-4.5	0.0	Brown sand w/gravel over red-brown clayey sand w/gravel with no odor.
B17-2		5.0-7.0	0.0	Red-brown clayey sand w/gravel and no odor.
B17-3		7.5-9.5	0.0	Brown clayey sand w/gravel over red-brown silty clay w/gravel over red-brown sand w/gravel and no odor.
⚐ B17-4		10.0-12.0	0.0	Red-brown silty clay w/gravel over red-brown clayey sand w/gravel and no odor.
B17-5		12.5-14.5	0.0	Red-brown silty clay w/gravel and no odor.

* = isobutylene equivalents
⚐ = samples collected for laboratory analysis
\- = no headspace readings were taken

TABLE 2a
SUMMARY OF LABORATORY ANALYSIS
SOIL BORING SAMPLES

PARAMETER (µg/L)	Standard	GB1-1	GB2-6	GB3-7	GB4-6	GB5-7	GB6-7	GB7-7	GB8-6	B12-4	B14-4	B17-3
SAMPLE DATE	-	3/26/99								7/16/99		10/11/99
SAMPLE DEPTH (feet)	-	6.0-8.0	10.0-12.0	12.0-14.0	10.0-12.0	12.0-14.0	12.0-14.0	12.0-14.0	10.0-12.0	10.0-12.0	10.0-12.0	10.0-12.0
PVOCs (µg/kg)												
BENZENE	5.5	**2300**	31000	<25	<250	<25	<25	31	26	<25	130	<25
ETHYLBENZENE	2900	**12000**	630	120	2400	<25	32	42	<25	<25	<25	<25
MTBE	-	<250	2900	<25	<250	<25	<25	<25	<25	<25	<25	<25
TOLUENE	1500	**39000**	5400	110	6700	<25	63	120	78	<25	<25	<25
1,2,4-TRIMETHYLBENZENE	-	50000	1200	220	700	41	69	82	54	<25	<25	<25
1,3,5-TRIMETHYLBENZENE	-	16000	420	71	2400	26	32	33	29	<25	<25	<25
XYLENES	4100	**110000**	3400	800	13000	<50	150	370	120	<50	<50	<50
Gasoline Range Organics (mg/kg)	100	**680**	30	<10	110	<10	<10	<10	<10	<10	<10	<10
Total Lead (mg/kg)	50	8	7	<6	<6	<6	6.7	<6	<6	<6	<6	<6

Bold = sample concentration detected above the DNR soil standard

NOTE: Excluding soil sample GB1-1, all soil samples were taken from within the saturated zone, below the seasonally high groundwater table.

NOTE: Borings B9, B10, B11, B13, B15, and B16 were blind drilled. Soil samples were not taken.

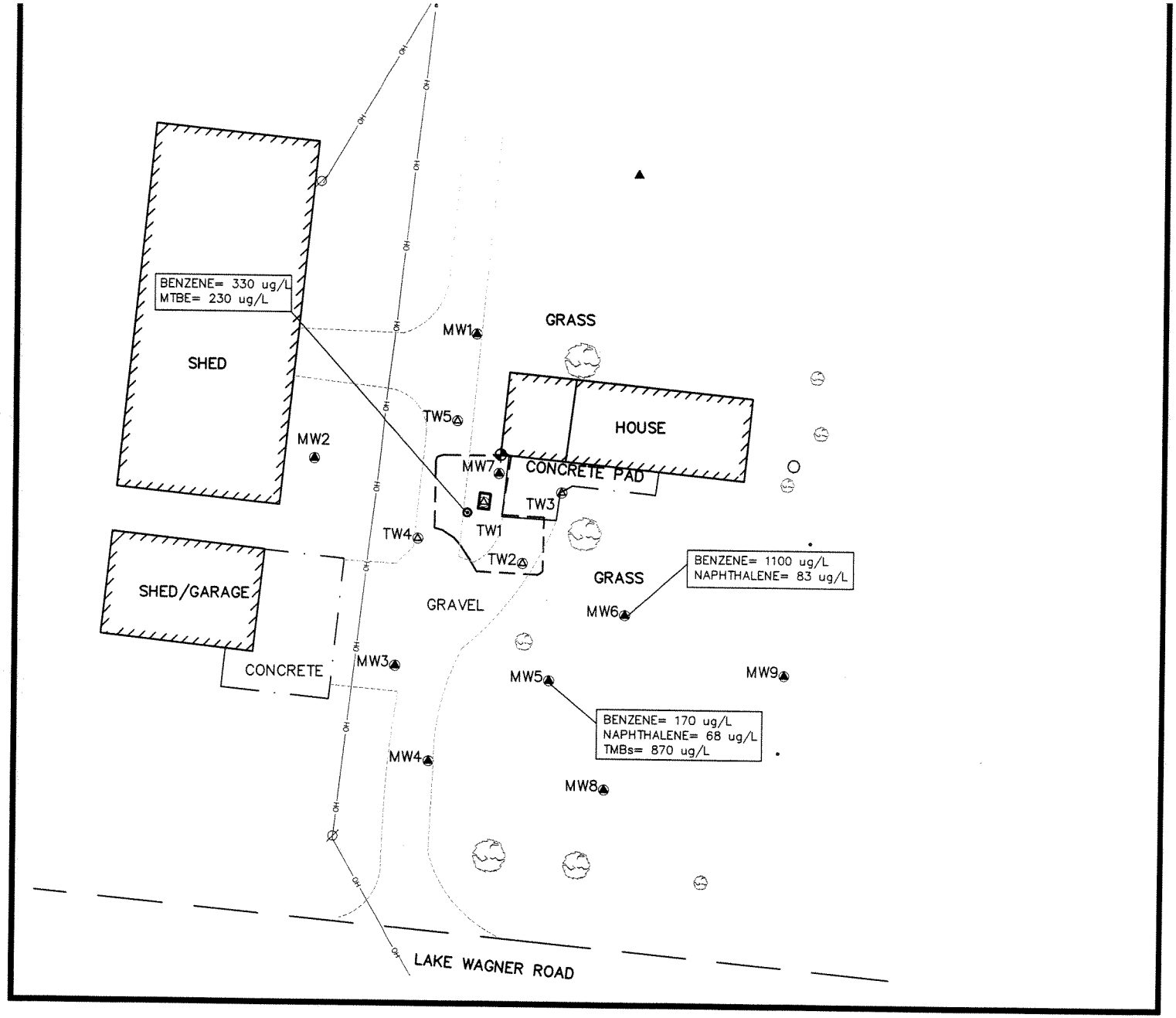
TABLE 2b
SUMMARY OF LABORATORY ANALYSIS
SOIL EXCAVATION SAMPLES

PARAMETER (µg/L)	Standard	S1	S2	S3	S4	S5	S6	S7	S8
SAMPLE DATE	-								
SAMPLE DEPTH (feet)	-	7	8	7	15	14	7	8	8
PVOCs (µg/kg)									
BENZENE	5.5	< 25	< 250	< 25	2900	50	< 25	**3600**	< 25
ETHYLBENZENE	2900	< 25	880	< 25	480	< 25	< 25	**4400**	< 25
MTBE	-	< 25	< 250	< 25	930	53	< 25	1900	< 25
TOLUENE	1500	< 25	**3700**	< 25	4600	< 25	< 25	**14000**	< 25
1,2,4-TRIMETHYLBENZENE	-	< 25	120000	40	1000	190	64	12000	< 25
1,3,5-TRIMETHYLBENZENE	-	< 25	37000	40	280	51	< 25	3800	< 25
XYLENES	4100	< 75	**110000**	< 75	2800	480	< 75	**25000**	< 75
Gasoline Range Organics (mg/kg)	250*	< 10	**1000**	< 10	22	< 10	< 10	160	< 10

Bold = sample concentration detected above the DNR soil standard

* A permeability test was not run on these samples. The DNR standard for less permeable soils has been used because these samples are clayey soils.

NOTE: Soil samples S4 and S5 were taken from within the saturated zone, below the seasonally high groudwater table.



0' 6' 15' 30'
SCALE: 1" = 30'

LOCAL GRID NORTH
N

LEGEND:

- MW1 — Well Location and I.D. No.
- (TW1) — Temporary Monitoring Well Location
- 8" Dia. Sump Location
- Excavation Area
- Building Face
- Former Tank Location
- Edge of Asphalt
- Edge of Concrete Pavement
- Private Well
- Septic Tank
- Septic Vent
- Tree
- Overhead Utilities
- Power Pole
- Reference Point

FIGURE 6
GROUNDWATER ENFORCEMENT
STANDARD EXCEEDANCES (8/20/2003)

BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

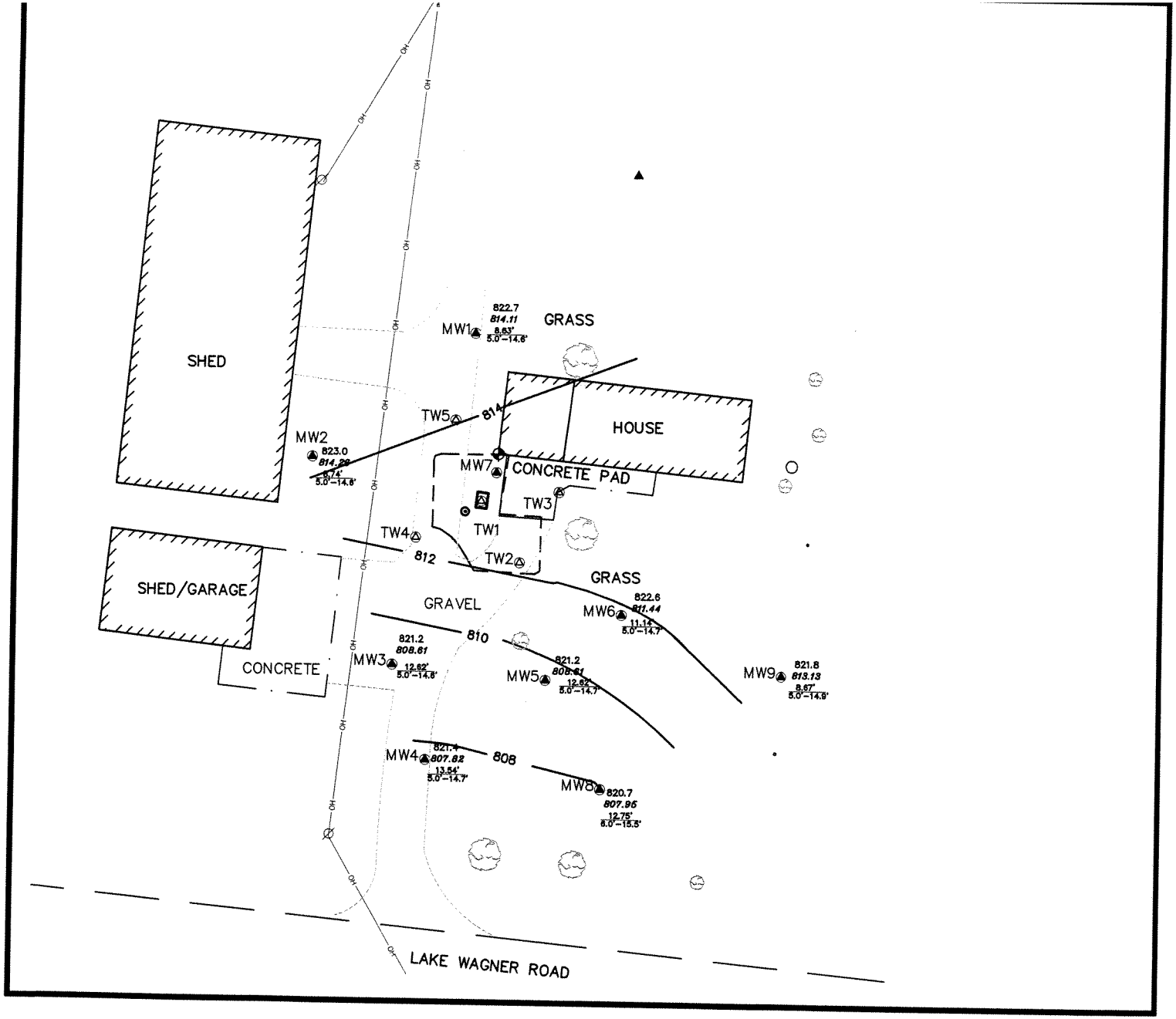
PROJECT MANAGER:		PROJECT NO:	N1546A99
PROJECT ENGINEER:		CAD FILE NO:	N1546A3
DRAWN BY:	DLD	SCALE:	1" = 30'
REVIEWED BY:		DATE:	9/5/2003

N1546A99
BUETTNER FARM

TABLE 7
HISTORICAL GROUNDWATER TABLE ELEVATIONS

Date	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9
08/05/99	812.81	813.19	807.96	807.45	808.48	809.45	812.54		
10/29/99	812.26	812.33	806.65	806.29	808.27	809.12	812.00	807.68	808.41
01/11/00	811.80	811.82			808.14	810.19	811.52	805.52	811.06
05/10/01	814.34	815.71			809.52	813.37	814.18	808.83	813.91
12/04/01	813.41	814.07	807.21	806.69	808.37	811.58	813.22	806.76	813.22
06/12/02	814.36	815.54	809.24	808.61	809.12	813.50		808.55	814.59
10/23/02	813.50	813.85	807.59	807.28	808.44	811.31		807.32	812.99
01/30/03			807.23		808.51	811.55		806.79	
08/20/03	814.11	814.26	808.61	807.82	808.61	811.44		807.95	813.13
Top/BM Elevation	822.12	825.45	820.61	820.70	820.62	822.09	825.47	820.32	821.34
Ground Surface Elevation	822.7	823.0	821.2	821.3	821.2	822.6	823.5	820.7	821.8
Depth of Well	14.60	17.60	14.70	14.70	14.70	14.70	17.50	15.50	14.90
Top of Screen Elevation	817.52	817.85	815.91	816.00	815.92	817.39	817.97	814.82	816.44
Bottom Elevation	807.52	807.85	805.91	806.00	805.92	807.39	807.97	804.82	806.44
Avg. Water Surface Elev. (Historical)	813.32	813.85	807.78	807.36	808.61	811.28	812.69	807.43	812.47
Avg. Depth to Water from Surface (Historical)	9.42	9.15	13.45	13.91	12.62	11.30	10.79	13.28	9.33
Min. Depth to Water from Surface (Historical)	8.38	7.29	11.99	12.66	11.71	9.08	9.30	11.87	7.21
Max. Depth to Water from Surface (Historical)	10.94	11.18	14.58	14.98	13.09	13.46	11.96	15.18	13.39

F:\ENVIRO\N1546A99\TABLES\WATER ELEVATIONS



0' 6' 15' 30'
SCALE: 1" = 30'

LOCAL GRID NORTH
N

LEGEND:

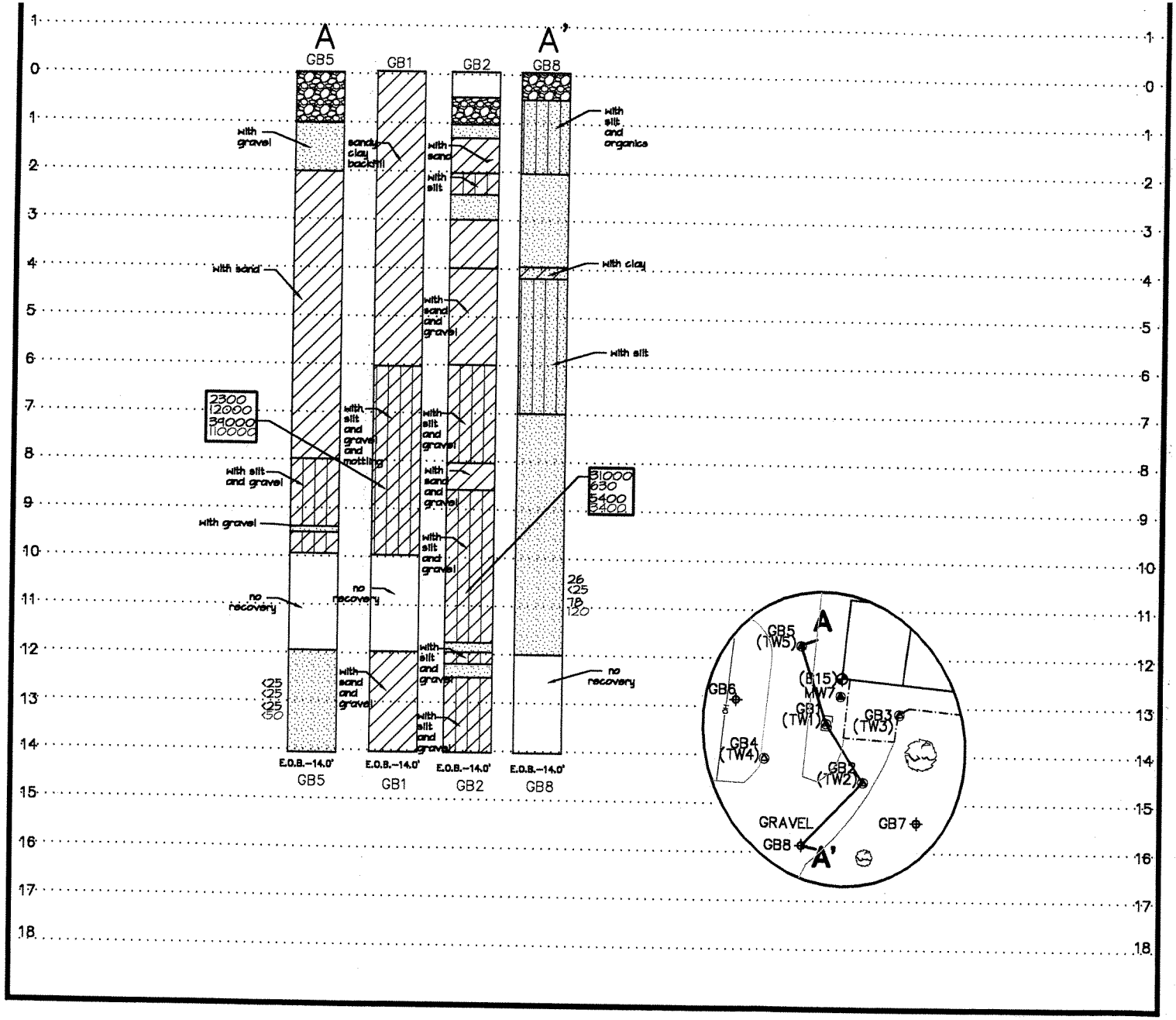
- MW1 — Well Location and I.D. No.
- (TW1) — Temporary Monitoring Well Location
- 8" Dia. Sump Location
- MW1 822.7 / 814.11 — Surface Elevation at Well / Groundwater Elevation at Well
- 8.63' / 5.0'-14.6' — Depth to Water from Surface / Screened Interval (ft.)
- 810 — Groundwater Contour Line (2' Contour Interval)
- Excavation Area
- Building Face
- Former Tank Location
- Edge of Asphalt
- Edge of Concrete Pavement
- Private Well
- Septic Tank
- Septic Vent
- Tree
- Overhead Utilities
- Power Pole
- Reference Point

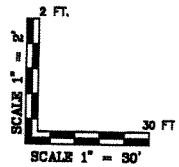
FIGURE 5
GROUNDWATER ELEVATION
CONTOUR MAP (8/20/2003)

BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRIVE
APPLETON, WI 54914
PHONE (920) 735-6900
FAX (920) 830-6100

PROJECT MANAGER:		PROJECT NO:	N1546A99
PROJECT ENGINEER:		CAD FILE NO:	N1546A3
DRAWN BY:	DLD	SCALE:	1" = 30'
REVIEWED BY:		DATE:	9/5/2003





LEGEND:

- Gravel
- Sand
- Clay
- Silt

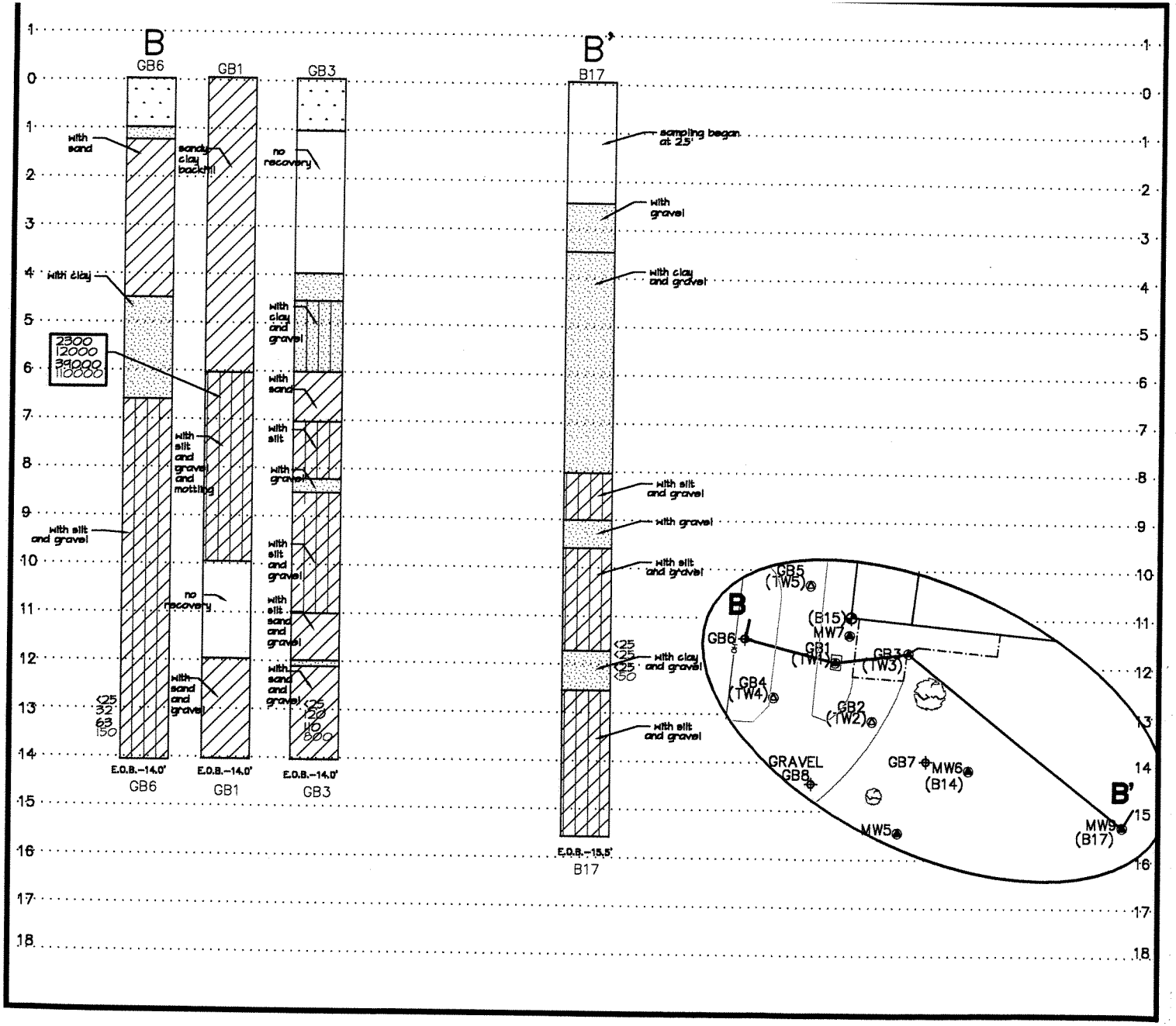
2300	Benzene Concentration in Soil (ug/kg)
12000	Ethylbenzene Concentration in Soil (ug/kg)
34000	Toluene Concentration in Soil (ug/kg)
110000	Total Xylenes in Soil (ug/kg)

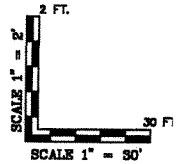
FIGURE 3
DIAGRAMMATIC CROSS-SECTION OF STRATIGRAPHY FROM A TO A'

BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES
ONE SYSTEMS DRI
APPLETON, WI 549
PHONE (920) 735-69
FAX (920) 830-61

PROJECT MANAGER:		PROJECT NO:	N1546
PROJECT ENGINEER:		CAD FILE NO:	N1546
DRAWN BY:		SCALE:	
REVIEWED BY:	DLD	DATE:	11/18/





LEGEND:

- Topsoil
- Gravel
- Sand
- Clay
- Silt

2300	Benzene Concentration in Soil (ug/kg)
12000	Ethylbenzene Concentration in Soil (ug/kg)
39000	Toluene Concentration in Soil (ug/kg)
110000	Total Xylenes in Soil (ug/kg)

FIGURE 4
DIAGRAMMATIC CROSS-SECTION OF STRATIGRAPHY FROM B TO B'

BUETTNER FARM
W9350 LAKE WAGNER ROAD
CLINTONVILLE, WISCONSIN

OMNI ASSOCIATES

ONE SYSTEMS DR
APPLETON, WI 54
PHONE (920) 735-6
FAX (920) 830-6

PROJECT MANAGER:		PROJECT NO:	N154
PROJECT ENGINEER:		CAD FILE NO:	N154
DRAWN BY:		SCALE:	
REVIEWED BY:	DLD	DATE:	11/22

Affidavit by Responsible Party

As responsible party for the Buettner farm contamination investigation and remediation, BRRTS #03-59-207571 and Commerce #54929-8561-50, I hereby state that I have attached the legal description for the property that is within the contaminated site boundary.

Donald J Buettner — October 25, 2003

(signed) Kathleen J Buettner — (dated)