GIS REGISTRY INFORMATION

SITE NAME:	Raymond Oil Co		
BRRTS #:	03-52-096045	**FID #** (if appropriate):	
COMMERCE # (if appropriate):	53126-9709-10		
CLOSURE DATE:	July 08, 2003		
STREET ADDRESS:	8810 W Six Mile Rd		
CITY:	Franksville		

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	**X =**	681320		**Y =**	262313	
CONTAMINATED MEDIA:	Groundwater	Y	Soil	Y	Both	Y
OFF-SOURCE GW CONTAMINATION >ES:		N			**No**	
• **IF YES, STREET ADDRESS:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):		N			**No**	
• **IF YES, STREET ADDRESS 1:**						
• **GPS COORDINATES** (meters in WTM91 projection):	**X =**			**Y =**		
CONTAMINATION IN RIGHT OF WAY:	N					

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	X
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.**	X
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)	X
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	X
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure*	x

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

August 12, 2003

Mr. Howard Scott
Raymond Oil Company
8810 W. Six Mile Road
Franksville, WI 53126

RE: **Final Closure**

Commerce # 53126-9709-10 WDNR BRRTS # 03-52-096045
Raymond Oil Company, 8810 W. Six Mile Road, Franksville

Dear Mr. Scott:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure. 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.

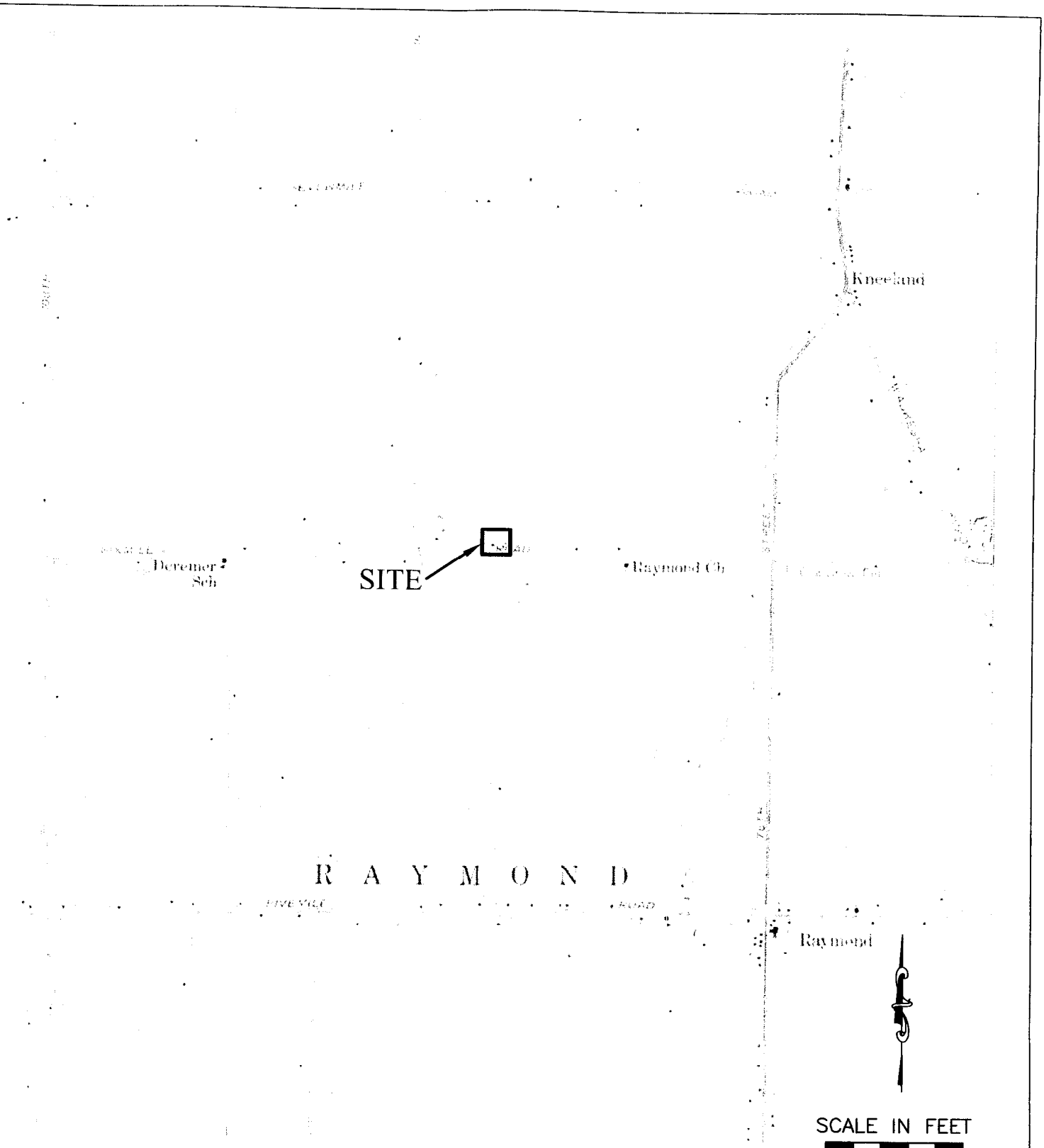
If residual contamination is encountered in the future, it must be managed in accordance with all applicable regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If applicable, the PECFA claim for this site would also be reopened and you may apply for assistance to the extent of remaining eligibility.

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 (414) 220-5375.

Sincerely,

Greg Michael
Hydrogeologist
Site Review Section

cc: Key Engineering Group, Ltd.
Case File



SOURCE: USGS North Cape, Wisconsin Quadrangle Map
Topographic Map 1959
Photorevised 1971 & 1976

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APPROVED BY DJG	SHEET NO. 1
CADFILE G:\ACAD\0601010\06010101.DWG XREF LMAN Jay	

FIGURE 1
SITE LOCATION MAP
RAYMOND OIL COMPANY

8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN

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Jun 13, 2003 – 1:20pm G:\ACAD\0601010\dwg\6010108.dwg

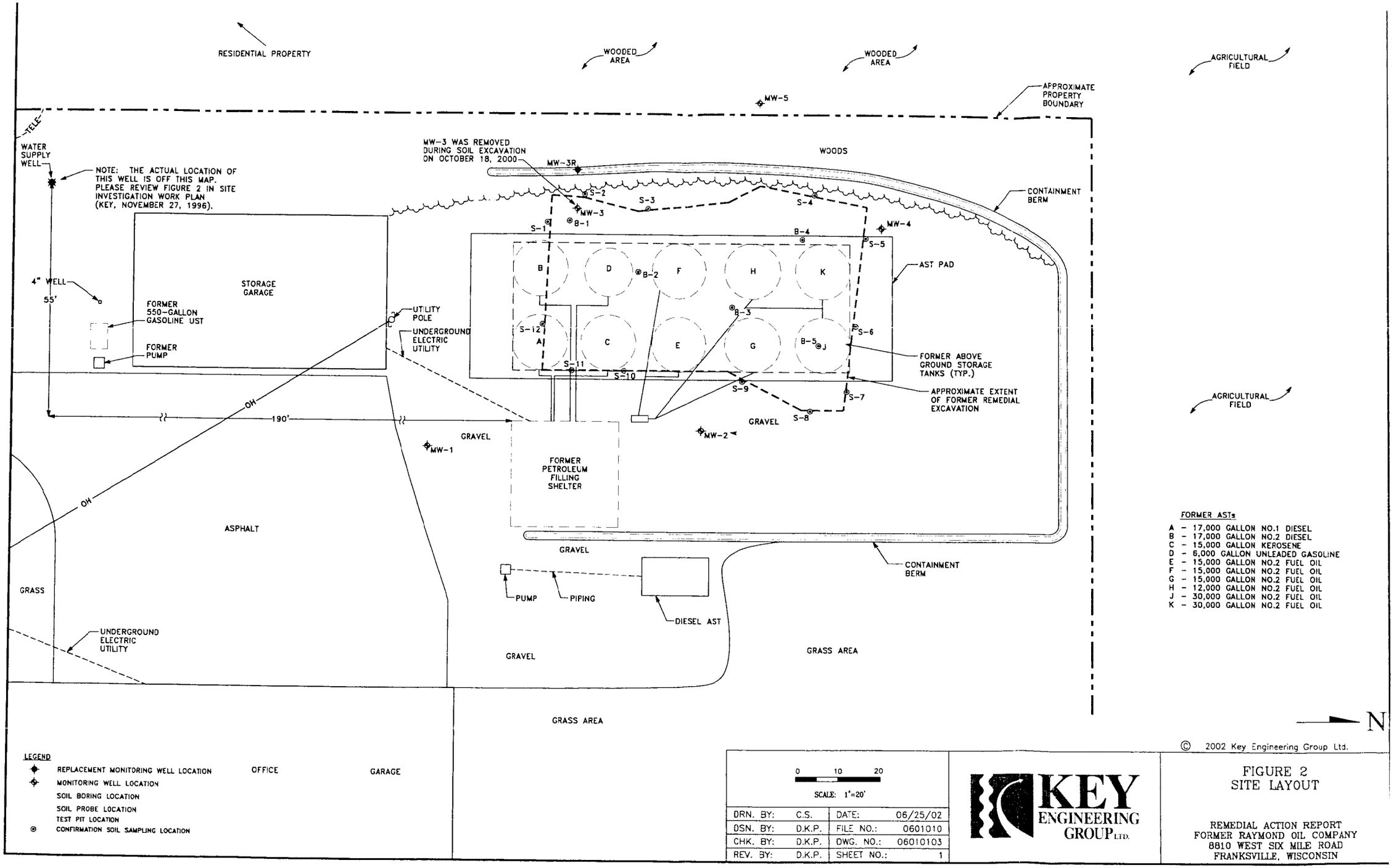
RESIDENTIAL PROPERTY
WOODED AREA
WOODED AREA
AGRICULTURAL FIELD
APPROXIMATE PROPERTY BOUNDARY
MW-5
TELE
WATER SUPPLY WELL
NOTE: THE ACTUAL LOCATION OF THIS WELL IS OFF THIS MAP. PLEASE REVIEW FIGURE 2 IN SITE INVESTIGATION WORK PLAN (KEY, NOVEMBER 27, 1996).
MW-3 WAS REMOVED DURING SOIL EXCAVATION ON OCTOBER 18, 2000
MW-3R
WOODS
CONTAINMENT BERM
S-2
S-3
S-4
MW-3
B-1
S-1
B-4
MW-4
S-5
AST PAD
B
D
B-2
F
H
K
4" WELL
55'
STORAGE GARAGE
FORMER 550-GALLON GASOLINE UST
FORMER PUMP
UTILITY POLE
UNDERGROUND ELECTRIC UTILITY
S-12
A
C
E
G
B-3
B-5
J
S-6
FORMER ABOVE GROUND STORAGE TANKS (TYP.)
S-11
S-10
S-9
S-7
APPROXIMATE EXTENT OF FORMER REMEDIAL EXCAVATION
S-8
OH
190'
GRAVEL
GRAVEL
MW-2
MW-1
FORMER PETROLEUM FILLING SHELTER
AGRICULTURAL FIELD
ASPHALT
OH
GRAVEL
CONTAINMENT BERM
GRASS
PUMP
PIPING
DIESEL AST
UNDERGROUND ELECTRIC UTILITY
GRAVEL
GRASS AREA
GRASS AREA
OFFICE
GARAGE
N
LEGEND
REPLACEMENT MONITORING WELL LOCATION
MONITORING WELL LOCATION
SOIL BORING LOCATION
SOIL PROBE LOCATION
TEST PIT LOCATION
CONFIRMATION SOIL SAMPLING LOCATION
FORMER ASTs
A - 17,000 GALLON NO.1 DIESEL
B - 17,000 GALLON NO.2 DIESEL
C - 15,000 GALLON KEROSENE
D - 6,000 GALLON UNLEADED GASOLINE
E - 15,000 GALLON NO.2 FUEL OIL
F - 15,000 GALLON NO.2 FUEL OIL
G - 15,000 GALLON NO.2 FUEL OIL
H - 12,000 GALLON NO.2 FUEL OIL
J - 30,000 GALLON NO.2 FUEL OIL
K - 30,000 GALLON NO.2 FUEL OIL
0 10 20
SCALE: 1"=20'
DRN. BY: C.S. DATE: 06/25/02
DSN. BY: D.K.P. FILE NO.: 0601010
CHK. BY: D.K.P. DWG. NO.: 06010103
REV. BY: D.K.P. SHEET NO.: 1
KEY ENGINEERING GROUP LTD.
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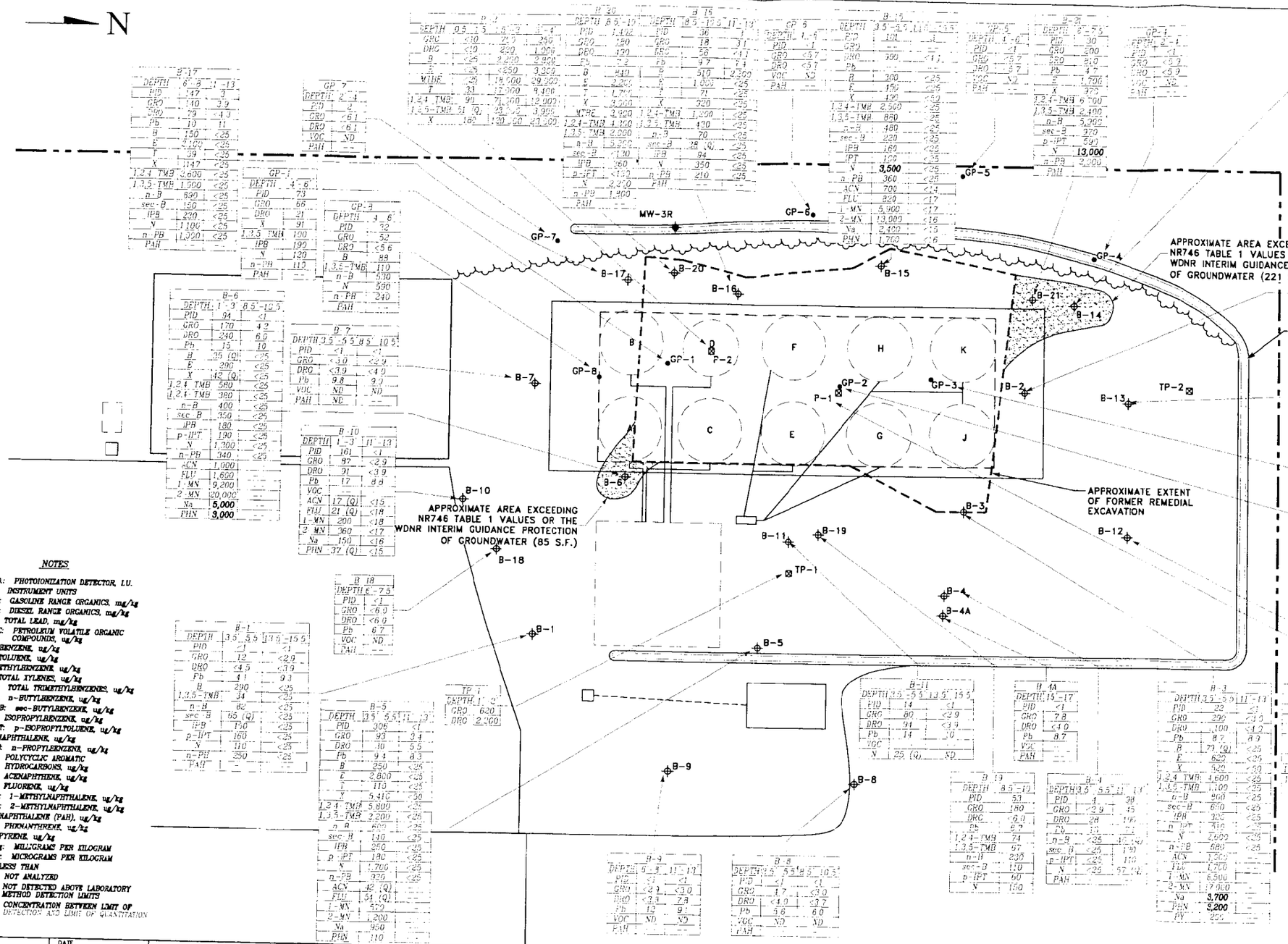
FIGURE 2
SITE LAYOUT
REMEDIAL ACTION REPORT
FORMER RAYMOND OIL COMPANY
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN



NOTES

P.I.D.: PHOTOIONIZATION DETECTOR, I.U.
I.U.: INSTRUMENT UNITS
GRO: GASOLINE RANGE ORGANICS, mg/kg
DRO: DIESEL RANGE ORGANICS, mg/kg
Pb: TOTAL LEAD, mg/kg
PVOC: PETROLEUM VOLATILE ORGANIC COMPOUNDS, ug/kg
B: BENZENE, ug/kg
T: TOLUENE, ug/kg
E: ETHYLBENZENE, ug/kg
X: TOTAL XYLENES, ug/kg
TMB: TOTAL TRIMETHYLBENZENES, ug/kg
n-B: n-BUTYLBENZENE, ug/kg
sec-B: sec-BUTYLBENZENE, ug/kg
IPB: ISOPROPYLBENZENE, ug/kg
p-IPT: p-ISOPROPYLTOLUENE, ug/kg
N: NAPHTHALENE, ug/kg
n-PB: n-PROPYLBENZENE, ug/kg
PAH: POLYCYCLIC AROMATIC HYDROCARBONS, ug/kg
ACN: ACENAPHTHENE, ug/kg
FLU: FLUORENE, ug/kg
1-MN: 1-METHYLNAPHTHALENE, ug/kg
2-MN: 2-METHYLNAPHTHALENE, ug/kg
Na: NAPHTHALENE (PAH), ug/kg
PHN: PHENANTHRENE, ug/kg
PY: PYRENE, ug/kg
mg/kg: MILLIGRAMS PER KILOGRAM
ug/kg: MICROGRAMS PER KILOGRAM
< : LESS THAN
-- : NOT ANALYZED
ND : NOT DETECTED ABOVE LABORATORY METHOD DETECTION LIMITS
(Q) : CONCENTRATION BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION

LEGEND

- REPLACEMENT MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- SOIL PROBE LOCATION
- TEST PIT LOCATION
- 3,700 — BOLD VALUES EXCEED NR 746 TABLE 1 VALUES OR THE WDNR INTERIM GUIDANCE PROTECTION OF GROUNDWATER
- BOLD VALUES EXCEED NR 746 TABLE 2 VALUES OR THE WDNR INTERIM GUIDANCE DIRECT CONTACT VALUES

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CADFILE G:\ACAD\060101G\6010108.dwg XREF LMAN	

FIGURE 3
SUMMARY OF PRE-REMEDIAL SOIL SAMPLE ANALYTICAL RESULTS

FORMER RAYMOND OIL
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN

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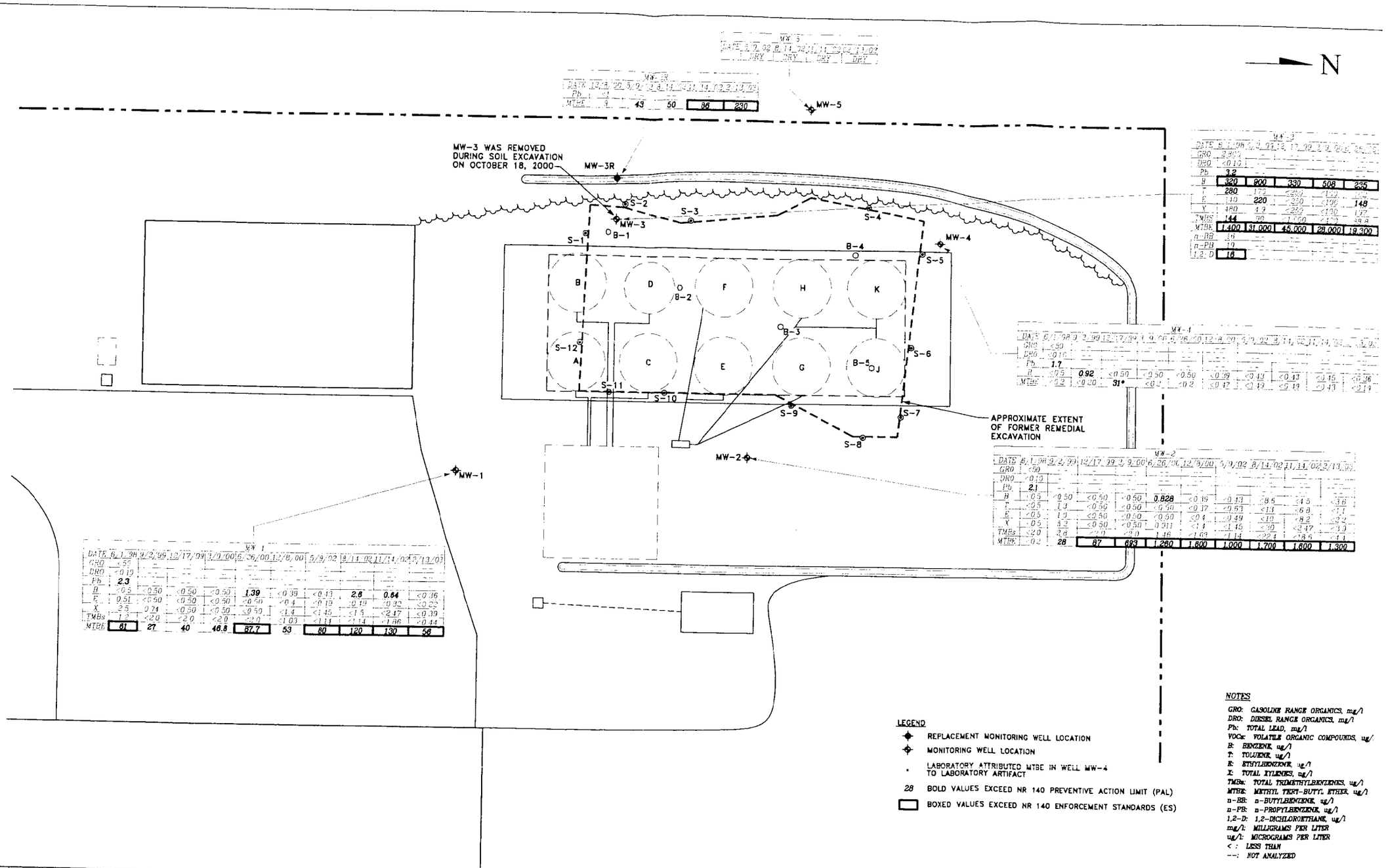

DESIGNED BY	DATE
DKP	03/04/03
DRAWN BY	PROJECT
CTM	0601010
APPROVED BY	SHEET NO.
DJG	4

CADFILE G:\ACAD\0601010\0601010B.dwg
XREF
LMAN

FIGURE 4
SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

FORMER RAYMOND OIL
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN

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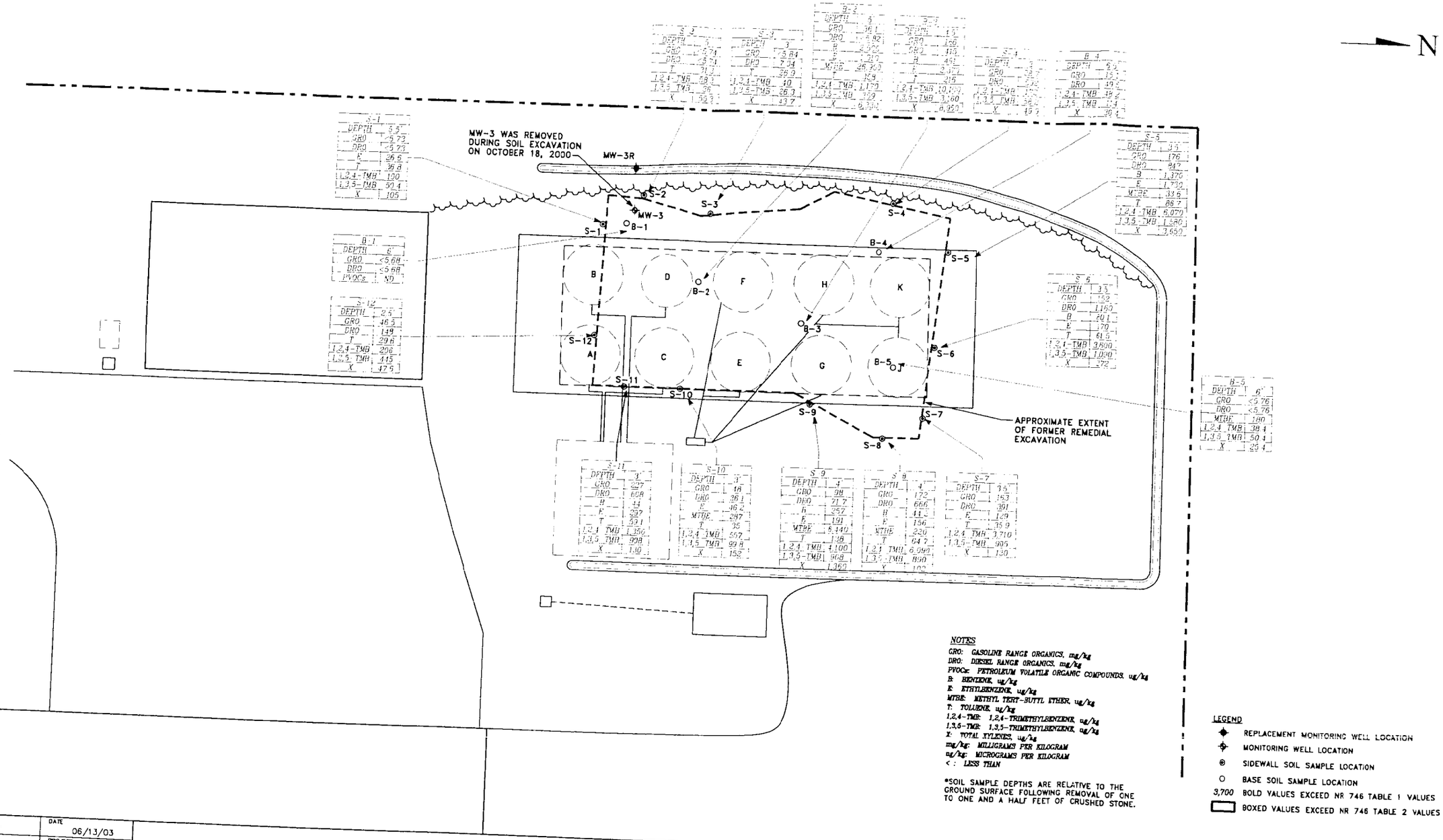

NOTES

GRO: GASOLINE RANGE ORGANICS, mg/kg
DRO: DIESEL RANGE ORGANICS, mg/kg
PVOCs: PETROLEUM VOLATILE ORGANIC COMPOUNDS, ug/kg
B: BENZENE, ug/kg
E: ETHYLBENZENE, ug/kg
MTBE: METHYL TERT-BUTYL ETHER, ug/kg
T: TOLUENE, ug/kg
1,2,4-TMB: 1,2,4-TRIMETHYLBENZENE, ug/kg
1,3,5-TMB: 1,3,5-TRIMETHYLBENZENE, ug/kg
X: TOTAL XYLENES, ug/kg
mg/kg: MILLIGRAMS PER KILOGRAM
ug/kg: MICROGRAMS PER KILOGRAM
< : LESS THAN

*SOIL SAMPLE DEPTHS ARE RELATIVE TO THE GROUND SURFACE FOLLOWING REMOVAL OF ONE TO ONE AND A HALF FEET OF CRUSHED STONE.

LEGEND

- REPLACEMENT MONITORING WELL LOCATION
- MONITORING WELL LOCATION
- SIDEWALL SOIL SAMPLE LOCATION
- BASE SOIL SAMPLE LOCATION
- 3,700 BOLD VALUES EXCEED NR 746 TABLE 1 VALUES
- BOXED VALUES EXCEED NR 746 TABLE 2 VALUES

DESIGNED BY DKP	DATE 06/13/03
DRAWN BY CTM	PROJECT 0601010
APPROVED BY DJG	SHEET NO. 5
CADFILE G:\ACAD\0601010\601010B.dwg XREF LMAP	

FIGURE 5
CONFIRMATION SOIL SAMPLE LOCATIONS AND SOIL SAMPLE ANALYTICAL RESULTS

FORMER RAYMOND OIL
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN

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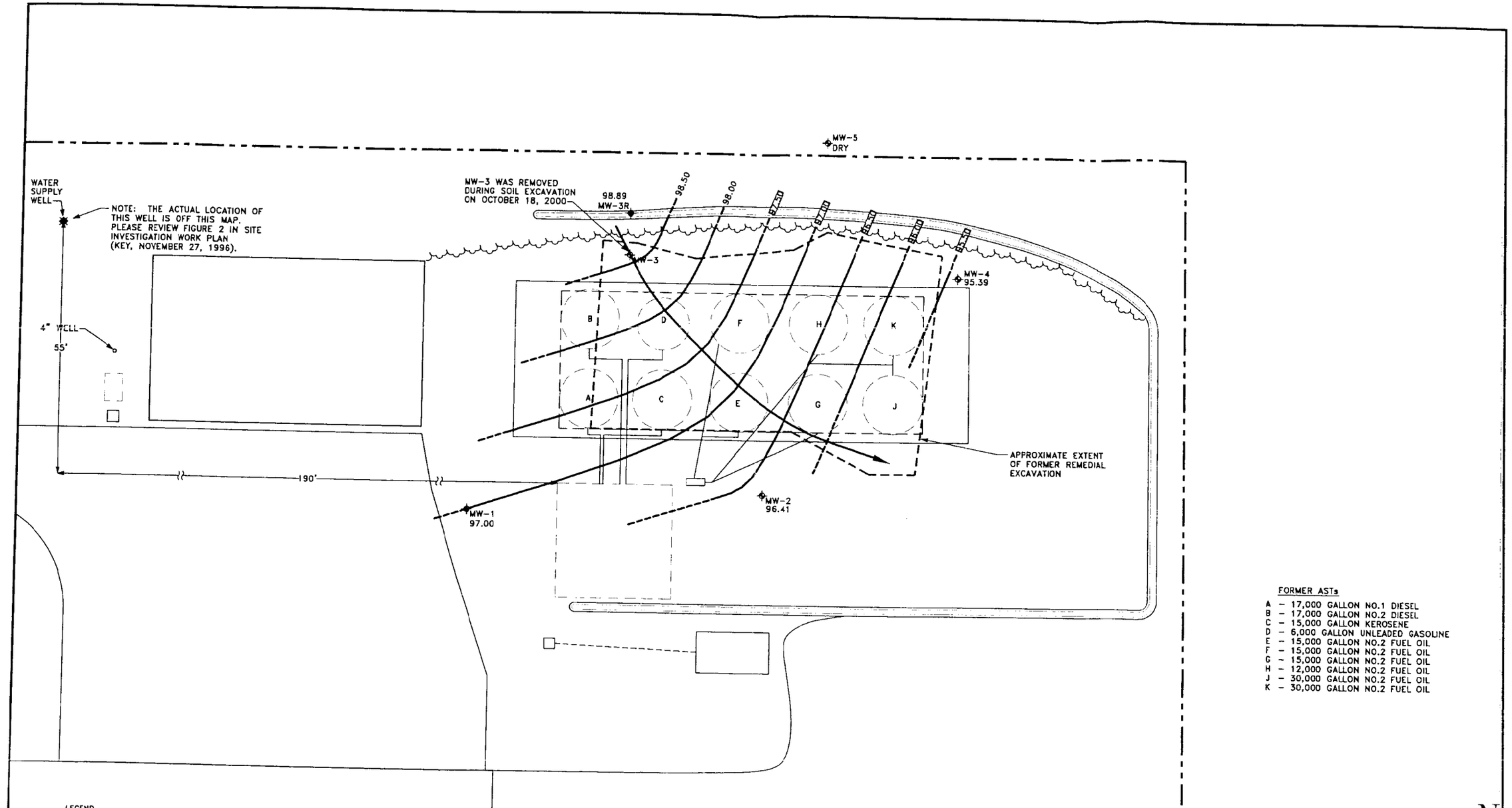

FORMER ASTs

A – 17,000 GALLON NO.1 DIESEL
B – 17,000 GALLON NO.2 DIESEL
C – 15,000 GALLON KEROSENE
D – 6,000 GALLON UNLEADED GASOLINE
E – 15,000 GALLON NO.2 FUEL OIL
F – 15,000 GALLON NO.2 FUEL OIL
G – 15,000 GALLON NO.2 FUEL OIL
H – 12,000 GALLON NO.2 FUEL OIL
J – 30,000 GALLON NO.2 FUEL OIL
K – 30,000 GALLON NO.2 FUEL OIL

LEGEND

REPLACEMENT MONITORING WELL LOCATION
MONITORING WELL LOCATION
97.00 GROUNDWATER ELEVATION (MAY 9, 2002)
GROUNDWATER FLOW DIRECTION
CONTOUR INTERVAL = 0.50 FEET
AVERAGE HYDRAULIC GRADIENT = 0.042 FEET/FOOT

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0 10 20
SCALE: 1"=20'

DRN. BY:	C.T.M	DATE:	06/14/03
DSN. BY:	D.K.P.	FILE NO.:	0601010
CHK. BY:	D.K.P.	DWG. NO.:	06010103
REV. BY:	D.J.G.	SHEET NO.:	1

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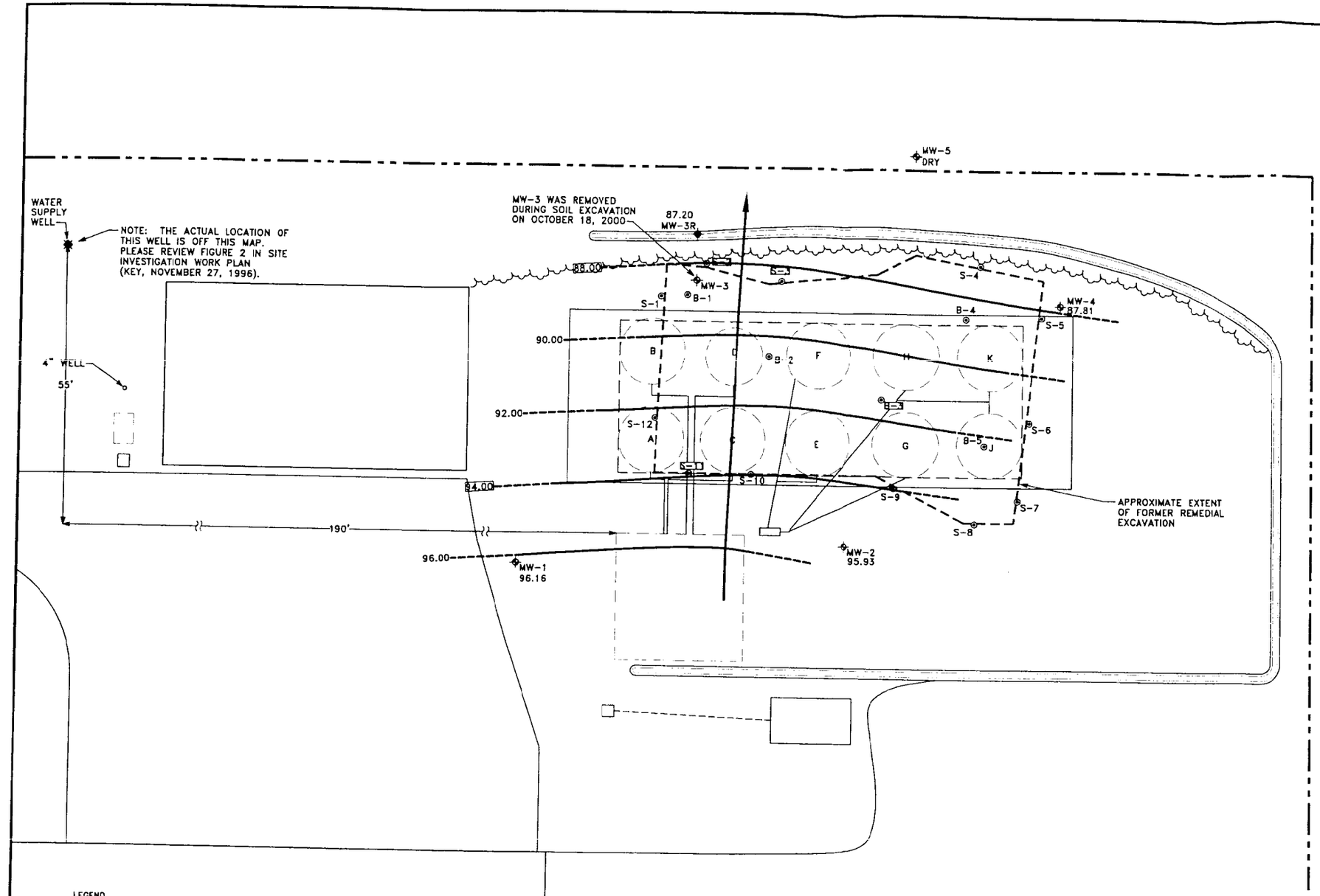
FIGURE 6A
GROUNDWATER ELEVATION CONTOUR MAP
(MAY 9, 2002)
REMEDIAL ACTION REPORT
FORMER RAYMOND OIL COMPANY
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN



FORMER ASTs

A – 17,000 GALLON NO.1 DIESEL
B – 17,000 GALLON NO.2 DIESEL
C – 15,000 GALLON KEROSENE
D – 6,000 GALLON UNLEADED GASOLINE
E – 15,000 GALLON NO.2 FUEL OIL
F – 15,000 GALLON NO.2 FUEL OIL
G – 15,000 GALLON NO.2 FUEL OIL
H – 12,000 GALLON NO.2 FUEL OIL
J – 30,000 GALLON NO.2 FUEL OIL
K – 30,000 GALLON NO.2 FUEL OIL

LEGEND

REPLACEMENT MONITORING WELL LOCATION
MONITORING WELL LOCATION
96.16 GROUNDWATER ELEVATION (NOVEMBER 14, 2002)
GROUNDWATER FLOW DIRECTION
CONTOUR INTERVAL = 2.00 FEET
AVERAGE HYDRAULIC GRADIENT = 0.143 FEET/FOOT

0 10 20
SCALE: 1"=20'

DRN. BY:	C.T.M	DATE:	06/14/03
DSN. BY:	D.K.P.	FILE NO.:	0601010
CHK. BY:	D.K.P.	DWG. NO.:	06010103
REV. BY:	D.K.P.	SHEET NO.:	2

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FIGURE 6B
GROUNDWATER ELEVATION CONTOUR MAP
(NOVEMBER 14, 2002)
REMEDIAL ACTION REPORT
FORMER RAYMOND OIL COMPANY
8810 WEST SIX MILE ROAD

TABLE 1

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION														NR 140	
	MW-1														ES	PAL
Date Collected	6/1/98	9/2/99	12/17/99	3/9/00	3/9/00 *	6/26/00	6/26/00 *	12/8/00	12/8/00 *	5/9/02	8/14/02	11/14/02	2/13/03	2/13/03 *	NA	NA
GRO (µg/l)	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
DRO (µg/l)	<0.10	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
Dissolved Lead (µg/l)	**2.3**	---	---	---	---	---	---	---	---	---	---	---	---	---	15	1.5
PVOCs and Detected VOCs (µg/l)																
Benzene	<0.5	<0.50	<0.50	<0.50	<0.50	**1.39**	**1.66**	<0.39	**1.5**	<0.43	**2.6**	**0.64**	<0.36	<0.36	5	0.5
Toluene	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.37	<0.37	<0.63	<0.63	<0.68	<0.11	<0.11	1,000	200
Ethylbenzene	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.4	<0.4	<0.49	<0.49	<0.82	<0.22	<0.22	700	140
Xylenes	2.5	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	<1.4	<1.43	<1.45	<1.5	<2.47	<0.39	<0.39	10,000	1,000
Trimethylbenzenes	1.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.03	<1.03	<1.14	<1.14	<1.86	<0.44	<0.44	480	96
Methyl tert-butyl ether	**61**	**27**	**40**	**46.8**	**52.4**	**87.7**	**104**	**53**	**89**	**80**	**120**	**130**	**56**	**55**	60	12
n-Butylbenzene	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
n-Propylbenzene	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
1,2-Dichloroethane	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	5	0.5

Notes:

Bold concentrations exceed NR 140 PAL
Boxed concentrations exceed NR 140 ES
* - duplicate sample
--- - not analyzed
(1) - NR 140 standards are not established.
(2) - According to the analytical laboratory, the detection of MTBE in this sample is likely the result of carry over from the previous sample which contained MTBE
DRO - diesel range organics
ES - NR 140 enforcement standard
GRO - gasoline range organics
MTBE - methyl tert-butyl ether
NA - not applicable
PAL - NR 140 preventive action limit
PVOCs - petroleum volatile organic compounds
µg/l - micrograms per liter
VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION										NR 140	
	MW-2										ES	PAL
Date Collected	6/1/98	9/2/99	12/17/99	3/9/00	6/26/00	12/8/00	5/9/02	8/14/02	11/14/02	2/13/03	NA	NA
GRO (µg/l)	<50	---	---	---	---	---	---	---	---	---	(1)	(1)
DRO (µg/l)	<0.10	---	---	---	---	---	---	---	---	---	(1)	(1)
Dissolved Lead (µg/l)	**2.1**	---	---	---	---	---	---	---	---	---	15	1.5
PVOCs and Detected VOCs (µg/l)												
Benzene	<0.5	<0.50	<0.50	<0.50	**0.828**	<0.39	<0.43	<8.6	<4.5	<3.6	5	0.5
Toluene	<0.5	1.3	<0.50	<0.50	<0.50	<0.37	<0.63	<13	<6.8	<1.1	1,000	200
Ethylbenzene	<0.5	1.0	<0.50	<0.50	<0.50	<0.4	<0.49	<10	<8.2	<2.2	700	140
Xylenes	<0.5	5.2	<0.50	<0.50	0.911	<1.4	<1.45	<30	<2.47	<3.9	10,000	1,000
Trimethylbenzenes	<2.0	2.8	<2.0	<2.0	1.46	<1.03	<1.14	<22.4	<18.6	<4.4	480	96
Methyl tert-butyl ether	<0.2	**28**	**87**	**693**	**1,260**	**1,600**	**1,000**	**1,700**	**1,600**	**1,300**	60	12
n-Butylbenzene	<0.5	---	---	---	---	---	---	---	---	---	(1)	(1)
n-Propylbenzene	<0.5	---	---	---	---	---	---	---	---	---	(1)	(1)
1,2-Dichloroethane	<0.5	---	---	---	---	---	---	---	---	---	5	0.5

Notes:

Bold concentrations exceed NR 140 PAL
Boxed concentrations exceed NR 140 ES
* - duplicate sample
--- - not analyzed
(1) - NR 140 standards are not established.
(2) - According to the analytical laboratory, the detection of MTBE in this sample is likely the result of carry over from the previous sample which contained MTBE
DRO - diesel range organics
ES - NR 140 enforcement standard
GRO - gasoline range organics
MTBE - methyl tert-butyl ether
NA - not applicable
PAL - NR 140 preventive action limit
PVOCs - petroleum volatile organic compounds
µg/l - micrograms per liter
VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION										NR 140	
	MW-3					MW-3R					ES	PAL
Date Collected	6/1/98	9/2/99	12/17/99	3/9/00	6/26/00	12/8/00	5/9/02	8/14/02	11/14/02	2/13/03	NA	NA
GRO (µg/l)	2,800	---	---	---	---	---	---	---	---	---	(1)	(1)
DRO (µg/l)	<0.10	---	---	---	---	---	---	---	---	---	(1)	(1)
Dissolved Lead (µg/l)	**3.2**	---	---	---	---	<1	---	---	---	---	15	1.5
PVOCs and Detected VOCs (µg/l)												
Benzene	**320**	**900**	**330**	**508**	**235**	<0.39	<0.43	<0.43	<0.45	<0.72	5	0.5
Toluene	**280**	170	<250	<100	102	<0.37	<0.63	<0.63	<0.68	<0.22	1,000	200
Ethylbenzene	140	**220**	<250	<100	**148**	<0.4	<0.49	<0.49	<0.82	<0.44	700	140
Xylenes	480	4.9	<250	<100	197	<1.43	<1.45	<1.5	<2.47	<0.78	10,000	1,000
Trimethylbenzenes	**144**	90	<1,000	<400	88.8	<1.03	<1.14	<1.14	<1.86	<0.88	480	96
Methyl tert-butyl ether	**1,400**	**31,000**	**45,000**	**28,000**	**19,300**	9	**43**	**50**	**86**	**230**	60	12
n-Butylbenzene	16	---	---	---	---	<0.43	---	---	---	---	(1)	(1)
n-Propylbenzene	19	---	---	---	---	<0.42	---	---	---	---	(1)	(1)
1,2-Dichloroethane	**16**	---	---	---	---	<0.35	---	---	---	---	5	0.5

Notes:

Bold concentrations exceed NR 140 PAL
Boxed concentrations exceed NR 140 ES
* - duplicate sample
--- - not analyzed
(1) - NR 140 standards are not established.
(2) - According to the analytical laboratory, the detection of MTBE in this sample is likely the result of carry over from the previous sample which contained MTBE
DRO - diesel range organics
ES - NR 140 enforcement standard
GRO - gasoline range organics
MTBE - methyl tert-butyl ether
NA - not applicable
PAL - NR 140 preventive action limit
PVOCs - petroleum volatile organic compounds
µg/l - micrograms per liter
VOCs - volatile organic compounds

TABLE 1 (CONTINUED)

SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION														NR 140	
	MW-4												WATER SUPPLY WELL		ES	PAL
Date Collected	6/1/98	9/2/99	12/17/99	3/9/00	6/26/00	12/8/00	5/9/02	8/14/02	8/14/02 *	11/14/02	11/14/02 *	2/13/03	9/2/99	6/26/00	NA	NA
GRO (µg/l)	<50	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
DRO (µg/l)	<0.10	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
Dissolved Lead (µg/l)	1.7	---	---	---	---	---	---	---	---	---	---	---	---	---	15	1.5
PVOCs and Detected VOCs (µg/l)																
Benzene	<0.5	**0.92**	<0.50	<0.50	<0.50	<0.39	<0.43	<0.43	<0.43	<0.45	<0.45	<0.36	<0.50	<0.50	5	0.5
Toluene	<0.5	<0.50	<0.50	<0.50	<0.50	<0.37	<0.63	<0.63	<0.63	<0.68	<0.68	<0.11	<0.50	<0.50	1,000	200
Ethylbenzene	<0.5	<0.50	<0.50	<0.50	<0.50	<0.4	<0.49	<0.49	<0.49	<0.82	<0.82	<0.22	2.3	<0.50	700	140
Xylenes	<0.5	<0.50	<0.50	<0.50	<0.50	<1.4	<1.45	<1.5	<1.5	<2.47	<2.47	<0.39	5.3	<0.50	10,000	1,000
Trimethylbenzenes	<2.0	<2.0	<2.0	<2.0	<2.0	<1.03	<1.14	<1.14	<1.14	<1.86	<1.86	<0.44	7	<2.0	480	96
Methyl tert-butyl ether	<0.2	<0.20	**31 (2)**	<0.2	<0.2	<0.47	<0.49	<0.49	<0.49	<0.43	<0.43	<0.19	<0.20	<0.2	60	12
n-Butylbenzene	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
n-Propylbenzene	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	(1)	(1)
1,2-Dichloroethane	<0.5	---	---	---	---	---	---	---	---	---	---	---	---	---	5	0.5

Notes:

Bold concentrations exceed NR 140 PAL
Boxed concentrations exceed NR 140 ES
* - duplicate sample
--- - not analyzed
(1) - NR 140 standards are not established.
(2) - According to the analytical laboratory, the detection of MTBE in this sample is likely the result of carry over from the previous sample which contained MTBE
DRO - diesel range organics
ES - NR 140 enforcement standard
GRO - gasoline range organics
MTBE - methyl tert-butyl ether
NA - not applicable
PAL - NR 140 preventive action limit
PVOCs - petroleum volatile organic compounds
µg/l - micrograms per liter
VOCs - volatile organic compounds

TABLE 1A

SUMMARY OF WATER SUPPLY WELL SAMPLE ANALYTICAL RESULTS

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETER	WATER SUPPLY WELL	NR 140	
		ES	PAL
Date Collected	9/2/1999	NA	NA
Detected PVOCs (ug/l)			
Benzene	<0.50	5	0.5
Toluene	<0.50	343	68.6
Ethylbenzene	2.3	700	140
Xylenes	5.3	620	124
Trimethylbenzenes	7.0	480	96
Methyl-tert-butyl ether	<0.20	60	12

Notes:

ES - NR 140 enforcement standard, exceedances shaded
NA - not applicable
PAL - NR 140 preventive action limit, exceedances bold
PVOCs - petroleum volatile organic compounds
ug/l - micrograms per liter

TABLE 2

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

SITE INVESTIGATION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION																			GENERIC RCLs	
	B-1		B-2		B-3		B-4		B-4A	B-5		B-6		B-7		B-8		B-9		PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Collected	5/1/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	5/2/97	---	---
Depth (feet bgs)	3.5-5.5	13.5-15.5	3.5-5.5	11-13	3.5-5.5	11-13	3.5-5.5	11-13	15-17	3.5-5.5	11-13	1-3	8.5-10.5	3.5-5.5	8.5-10.5	3.5-5.5	8.5-10.5	6-8	11-13	---	---
PID (i.u.)	<1	<1	<1	<1	22	<1	4	98	<1	306	<1	94	<1	<1	<1	<1	<1	<1	<1	---	---
GRO (mg/kg)	12	<2.9	37	4.6	290	<3.0	<2.9	45	7.8	93	3.4	170	4.2	<3.0	<2.9	4.7	<3.0	<2.9	<3.0	250 (1)	---
DRO (mg/kg)	<4.5	<3.9	420	<4.3	1,100	<4.0	28	190	<4.0	30	5.5	240	6.0	<3.9	<4.0	<4.0	<3.7	<3.9	7.8	250 (1)	---
Total Lead (mg/kg)	4.1	9.3	11	11	8.7	8.9	13	7.1	8.7	9.4	8.3	15	10	9.8	9.0	5.6	6.0	12	9.1	---	500 (1)
Detected VOCs (µg/kg)																					
Benzene	290	<25	31 Q	<25	79 Q	<25	<25	<25	<25	250	<25	35 Q	<25	<25	<25	<25	<25	<25	<25	5.5 (1)/8,500 (4)	1,100 (3)
Ethylbenzene	<25	<25	50 Q	<25	620	<25	<25	<25	<25	2,800	<25	290	<25	<25	<25	<25	<25	<25	<25	2,900 (1)/4,600 (4)	---
Toluene	<25	<25	<25	<25	<50	<25	<25	<25	<25	110	<25	<25	<25	<25	<25	<25	<25	<25	<25	1,500 (1)/38,000 (4)	---
Xylenes	<50	<50	30 Q	<50	520	<50	<50	<50	<50	5,410	<50	42 Q	<50	<50	<50	<50	<50	<50	<50	4,100 (1)/42,000 (4)	---
Methyl tert-butyl ether	<25	<25	<25	<25	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	---	---
1,2,4-Trimethylbenzene	<25	<25	340	<25	4,600	<25	<25	<25	<25	5,800	<25	560	<25	<25	<25	<25	<25	<25	<25	83,000 (4)	---
1,3,5-Trimethylbenzene	34	<25	<25	<25	1,100	<25	<25	<25	<25	2,200	<25	380	<25	<25	<25	<25	<25	<25	<25	11,000 (4)	---
n-Butylbenzene	82	<25	240	<25	800	<25	<25	40 Q	<25	600	<25	400	<25	<25	<25	<25	<25	<25	<25	---	---
sec-Butylbenzene	65 Q	<25	330	<25	650	<25	<25	130	<25	140	<25	350	<25	<25	<25	<25	<25	<25	<25	---	---
Isopropylbenzene	150	<25	50 Q	<25	320	<25	<25	<25	<25	250	<25	180	<25	<25	<25	<25	<25	<25	<25	---	---
p-Isopropyltoluene	160	<25	210	<25	510	<25	<25	110	<25	180	<25	190	<25	<25	<25	<25	<25	<25	<25	---	---
Naphthalene	110	<25	280	<25	2,600	<25	<25	57 Q	<25	1,700	<25	1,300	<25	<25	<25	<25	<25	<25	<25	2,700 (4)	---
n-Propylbenzene	250	<25	92	<25	680	<25	<25	<25	<25	920	<25	340	<25	<25	<25	<25	<25	<25	<25	---	---
PAHs (µg/kg)																					
Acenaphthene	---	---	350	---	1,000	---	---	---	---	42 Q	---	1,100	---	<16	---	---	---	---	---	38,000 (2)	60,000,000 (2)
Acenaphthylene	---	---	<33	---	<200	---	---	---	---	<16	---	<260	---	<17	---	---	---	---	---	700 (2)	360,000 (2)
Anthracene	---	---	<28	---	<170	---	---	---	---	<14	---	<230	---	<14	---	---	---	---	---	3,000,000 (2)	300,000,000 (2)
Benzo(a)anthracene	---	---	<27	---	<170	---	---	---	---	<13	---	<220	---	<14	---	---	---	---	---	17,000 (2)	3,900 (2)
Benzo(a)pyrene	---	---	<26	---	<160	---	---	---	---	<13	---	<210	---	<13	---	---	---	---	---	48,000 (2)	390 (2)
Benzo(b)fluoranthene	---	---	<32	---	<200	---	---	---	---	<16	---	<250	---	<16	---	---	---	---	---	360,000 (2)	3,900 (2)
Benzo(g,h,i)perylene	---	---	<30	---	<190	---	---	---	---	<15	---	<250	---	<16	---	---	---	---	---	6,800,000 (2)	35,000 (2)
Benzo(k)fluoranthene	---	---	<29	---	<180	---	---	---	---	<15	---	<240	---	<15	---	---	---	---	---	870,000 (2)	39,000 (2)
Chrysene	---	---	<28	---	<170	---	---	---	---	<14	---	<230	---	<14	---	---	---	---	---	37,000 (2)	390,000 (2)
Dibenzo(a,h,)anthracene	---	---	<43	---	<270	---	---	---	---	<22	---	<350	---	<22	---	---	---	---	---	38,000 (2)	390 (2)
Fluoranthene	---	---	<30	---	<190	---	---	---	---	<15	---	<250	---	<16	---	---	---	---	---	500,000 (2)	40,000,000 (2)
Fluorene	---	---	590	---	1,700	---	---	---	---	54 Q	---	1,600	---	<19	---	---	---	---	---	100,000 (2)	40,000,000 (2)
Indeno (1,2,3-cd)pyrene	---	---	<29	---	<180	---	---	---	---	<15	---	<240	---	<15	---	---	---	---	---	680,000 (2)	3,900 (2)
1-Methylnaphthalene	---	---	1,500	---	8,500	---	---	---	---	570	---	9,200	---	<19	---	---	---	---	---	23,000 (2)	70,000,000 (2)
2-Methylnaphthalene	---	---	1,300	---	17,000	---	---	---	---	1,200	---	20,000	---	<17	---	---	---	---	---	20,000 (2)	40,000,000 (2)
Naphthalene	---	---	300	---	**3,700**	---	---	---	---	950	---	**5,000**	---	<16	---	---	---	---	---	400 (2)/2,700 (4)	110,000 (2)
Phenanthrene	---	---	1,100	---	**3,200**	---	---	---	---	110	---	**3,000**	---	<17	---	---	---	---	---	1,800 (2)	390,000 (2)
Pyrene	---	---	180	---	200	---	---	---	---	<15	---	<250	---	<16	---	---	---	---	---	8,700,000 (2)	30,000,000 (2)

Notes:

Bold values exceed NR 746 Table 1 values or the WDNR Interim Guidance (2) protection of groundwater values
Boxed values exceed NR 746 Table 2 values or the WDNR Interim Guidance (2) direct-contact values
--- - not analyzed
(1) - NR 720 Generic RCLs
(2) - From Soil Cleanup Levels for PAHs Interim Guidance, WDNR, PUBL-RR-519-97, April 1997, Corrected.
(3) - NR 746/COMM 46, Table 2 protection of human health from direct contact with contaminated soil (0-4 feet).
(4) - NR 746/COMM 46, Table 1 indicators of residual petroleum product in soil pores.
bgs - below ground surface
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
NA - not applicable
PAHs - polynuclear aromatic hydrocarbons
Q - result between the limit of detection and limit of quantitation
RCLs - residual contaminant levels
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 2 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

SITE INVESTIGATION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION																				GENERIC RCLs	
	B-10		B-11		B-12		B-13		B-14		B-15		B-16		B-17		B-18	B-19	B-20	B-21	PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Collected	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	7/22/97	4/16/98	4/16/98	4/16/98	4/16/98	---	---
Depth (feet bgs)	1-3	11-13	3.5-5.5	13.5-15.5	1-3	11-13	3.5-5.5	11-13	3.5-5.5	11-13	3.5-5.5	13.5-15.5	8.5-10.5	11-13	6-8	11-13	6-7.5	8.5-10	8.5-10	6-7.5	---	---
PID (u.)	161	<1	14	<1	5	3	74	3	78	3	101	3	36	3	147	3	<1	53	1,402	30	---	---
GRO (mg/kg)	87	<2.9	60	<2.9	61	<2.9	---	---	---	---	---	---	18	3.1	140	3.9	<6.0	180	180	200	250 (1)	---
DRO (mg/kg)	91	<3.9	94	<3.9	150	<4.0	90	4.4	1,000	<4.2	990	<4.1	56	<4.1	79	<4.3	<6.0	<6.0	490	810	250 (1)	---
Total Lead (mg/kg)	17	8.8	14	10	9.2	8.0	---	---	---	---	---	---	9.7	7.4	10	11	6.7	6.7	7.2	4.7	---	500 (1)
Detected VOCs (µg/kg)																						
Benzene	---	---	---	---	---	---	---	---	120 Q	<25	300	<25	510	2,200	150	<25	<25	<25	840	<500	5.5 (1)/8,500 (4)	1,100 (3)
Ethylbenzene	---	---	---	---	---	---	---	---	680	<25	450	<25	1,000	<25	2,100	<25	<25	<25	2,200	1,700	2,900 (1)/4,600 (4)	---
Toluene	---	---	---	---	---	---	---	---	<50	<25	<25	<25	71	<25	39	<25	<25	<25	1,700	<500	1,500 (1)/38,000 (4)	---
Xylenes	---	---	---	---	---	---	---	---	770	<50	490	<50	920	<50	1147	<50	<50	<50	3,000	970	4,100 (1)/42,000 (4)	---
Methyl tert-butyl ether	---	---	---	---	---	---	---	---	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	3,900	<500	---	---
1,2,4-Trimethylbenzene	---	---	---	---	---	---	---	---	5,700	<25	2,500	<25	1,200	<25	3,600	<25	<25	74	4,300	6,700	83,000 (4)	---
1,3,5-Trimethylbenzene	---	---	---	---	---	---	---	---	1,700	<25	880	<25	430	<25	1,900	<25	<25	67	2,000	2,400	11,000 (4)	---
n-Butylbenzene	---	---	---	---	---	---	---	---	1,100	<25	480	<25	70	<25	690	<25	<25	230	5,200	5,900	---	---
sec-Butylbenzene	---	---	---	---	---	---	---	---	500	<25	220	<25	38 Q	<25	150	<25	<25	110	<130	970	---	---
Isopropylbenzene	---	---	---	---	---	---	---	---	290	<25	160	<25	94	<25	230	<25	<25	<25	360	<25	---	---
p-Isopropyltoluene	---	---	---	---	---	---	---	---	<50	<25	100	<25	<25	<25	<25	<25	<25	60	<130	590	---	---
Naphthalene	---	---	---	---	---	---	---	---	**4,900**	<25	**3,500**	<25	350	<25	1,100	<25	<25	150	2,200	**13,000**	2,700 (4)	---
n-Propylbenzene	---	---	---	---	---	---	---	---	700	<25	360	<25	210	<25	1,000	<25	<25	<25	1,800	2,000	---	---
PAHs (µg/kg)																						
Acenaphthene	17 Q	<15	<15	<15	<15	<15	33 Q	<15	740	<15	700	<14	---	---	---	---	---	---	---	---	38,000 (2)	60,000,000 (2)
Acenaphthalene	<17	<16	<16	<16	<16	<16	<16	<16	<160	<16	<160	<16	---	---	---	---	---	---	---	---	700 (2)	360,000 (2)
Anthracene	<15	<14	<14	<14	<14	<14	<14	<14	<140	<13	<140	<13	---	---	---	---	---	---	---	---	3,000,000 (2)	300,000,000 (2)
Benzo(a)anthracene	<14	<13	<13	<13	<13	<13	<14	<13	<130	<13	<130	<13	---	---	---	---	---	---	---	---	17,000 (2)	3,900 (2)
Benzo(a)pyrene	<13	<13	<13	<13	<13	<13	<13	<13	<130	<12	<130	<12	---	---	---	---	---	---	---	---	48,000 (2)	390 (2)
Benzo(b)fluoranthene	<16	<16	<16	<16	<16	<15	<16	<15	<160	<15	<160	<15	---	---	---	---	---	---	---	---	360,000 (2)	3,900 (2)
Benzo(g,h,i)perylene	<16	<15	<15	<15	<15	<15	<15	<15	<150	<15	<150	<14	---	---	---	---	---	---	---	---	6,800,000 (2)	39,000 (2)
Benzo(k)fluoranthene	<15	<15	<15	<15	<15	<14	<15	<14	<140	<14	<140	<14	---	---	---	---	---	---	---	---	870,000 (2)	39,000 (2)
Chrysene	<15	<14	<14	<14	<14	<14	<14	<14	<140	<13	<140	<13	---	---	---	---	---	---	---	---	37,000 (2)	390,000 (2)
Dibenzo(a,h,)anthracene	<23	<22	<22	<22	<21	<21	<22	<21	<210	<21	<210	<20	---	---	---	---	---	---	---	---	38,000 (2)	390 (2)
Fluoranthene	<16	<15	<15	<15	<15	<15	<15	<15	<150	<15	<150	<14	---	---	---	---	---	---	---	---	500,000 (2)	40,000,000 (2)
Fluorene	21 Q	<18	<18	<18	<18	<18	47 Q	<18	870	<17	820	<17	---	---	---	---	---	---	---	---	100,000 (2)	40,000,000 (2)
Indeno (1,2,3-cd)pyrene	<15	<15	<15	<15	<15	<14	<15	<14	<140	<14	<140	<14	---	---	---	---	---	---	---	---	680,000 (2)	3,900 (2)
1-Methylnaphthalene	200	<18	<18	<18	<18	<18	100	<18	6,500	<17	5,900	<17	---	---	---	---	---	---	---	---	23,000 (2)	70,000,000 (2)
2-Methylnaphthalene	360	<17	<17	<17	<17	<17	<17	<17	13,000	<16	13,000	<16	---	---	---	---	---	---	---	---	20,000 (2)	40,000,000 (2)
Naphthalene	150	<16	25 Q	<16	<16	<15	<16	<15	2,400	<15	2,400	<15	---	---	---	---	---	---	---	---	400 (2)/2,700 (4)	110,000 (2)
Phenanthrene	37 Q	<16	<16	<16	<16	<16	78	<16	1,700	<16	1,700	<16	---	---	---	---	---	---	---	---	1,800 (2)	390,000 (2)
Pyrene	<16	<15	<15	<15	<15	<15	<15	<15	<150	<15	<150	<14	---	---	---	---	---	---	---	---	6,700,000 (2)	30,000,000 (2)

Notes:

Bold values exceed NR 746 Table 1 values or the WDNR Interim Guidance (2) protection of groundwater values
Boxed values exceed NR 746 Table 2 values or the WDNR Interim Guidance (2) direct-contact values
--- - not analyzed
(1) - NR 720 Generic RCLs
(2) - From Soil Cleanup Levels for PAHs Interim Guidance, WDNR, PUBL-RR-519-97, April 1997, Corrected.
(3) - NR 746/COMM 46, Table 2 protection of human health from direct contact with contaminated soil (0-4 feet).
(4) - NR 746/COMM 46, Table 1 indicators of residual petroleum product in soil pores.
bgs - below ground surface
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
NA - not applicable
PAHs - polynuclear aromatic hydrocarbons
Q - result between the limit of detection and limit of quantitation
RCLs - residual contaminant levels
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 2 (CONTINUED)

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS

SITE INVESTIGATION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETER	SAMPLE IDENTIFICATION								GENERIC RCLs	
	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7	GP-8	PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Collected	4/24/98	4/24/98	4/24/98	4/24/98	4/24/98	4/24/98	4/24/98	4/24/98	---	---
Depth (feet bgs)	4-6	2-4	4-6	2-4	4-6	4-6	2-4	4-6	---	---
PID (i.u.)	73	382	96	<1	<1	<1	2	32	---	---
GRO (mg/kg)	66	1,500	130	<5.9	<5.7	<5.7	<6.1	52	250 (1)	---
DRO(mg/kg)	21	710	420	<5.9	<5.7	<5.7	<6.1	<5.6	250 (1)	---
Total Lead (mg/kg)	---	---	---	---	---	---	---	---	---	500 (1)
PVOCs (µg/kg)										
Benzene	<25	2,500	420	<25	<25	<25	<25	88	5.5 (1)/8,500 (4)	1,100 (3)
Ethylbenzene	<25	**5,900**	930	<25	<25	<25	<25	<25	2,900 (1)/4,600 (4)	---
Toluene	<25	<250	1,000	<25	<25	<25	<25	<25	1,500 (1)/38,000 (4)	---
Xylenes	91	**61,000**	600	<50	<50	<50	<50	<50	4,100 (1)/42,000 (4)	---
Methyl tert-butyl ether	<25	<250	<250	<25	<25	<25	<25	<25	---	---
1,2,4-Trimethylbenzene	<25	56,000	2,600	<25	<25	<25	<25	<25	83,000 (4)	---
1,3,5-Trimethylbenzene	100	**23,000**	600	<25	<25	<25	<25	110	11,000 (4)	---
n-Butylbenzene	<25	36,000	1,800	<25	<25	<25	<25	530	---	---
sec-Butylbenzene	<25	<250	<250	<25	<25	<25	<25	<25	---	---
Isopropylbenzene	190	2,200	<250	<25	<25	<25	<25	<25	---	---
p-Isopropyltoluene	<25	2,400	330	<25	<25	<25	<25	<25	---	---
Naphthalene	120	**12,000**	**5,400**	<25	<25	<25	<25	590	2,700 (4)	---
n-Propylbenzene	110	4,100	1,100	<25	<25	<25	<25	240	---	---
PAHs (µg/kg)										
Acenaphthene	---	---	---	---	---	---	---	---	38,000 (2)	60,000,000 (2)
Acenaphthalene	---	---	---	---	---	---	---	---	700 (2)	360,000 (2)
Anthracene	---	---	---	---	---	---	---	---	3,000,000 (2)	300,000,000 (2)
Benzo(a)anthracene	---	---	---	---	---	---	---	---	17,000 (2)	3,900 (2)
Benzo(a)pyrene	---	---	---	---	---	---	---	---	48,000 (2)	390 (2)
Benzo(b)fluoranthene	---	---	---	---	---	---	---	---	360,000 (2)	3,900 (2)
Benzo(g,h,i)perylene	---	---	---	---	---	---	---	---	6,800,000 (2)	39,000 (2)
Benzo(k)fluoranthene	---	---	---	---	---	---	---	---	870,000 (2)	39,000 (2)
Chrysene	---	---	---	---	---	---	---	---	37,000 (2)	390,000 (2)
Dibenzo(a,h,)anthracene	---	---	---	---	---	---	---	---	38,000 (2)	390 (2)
Fluoranthene	---	---	---	---	---	---	---	---	500,000 (2)	40,000,000 (2)
Fluorene	---	---	---	---	---	---	---	---	100,000 (2)	40,000,000 (2)
Indeno (1,2,3-cd)pyrene	---	---	---	---	---	---	---	---	680,000 (2)	3,900 (2)
1-Methylnaphthalene	---	---	---	---	---	---	---	---	23,000 (2)	70,000,000 (2)
2-Methylnaphthalene	---	---	---	---	---	---	---	---	20,000 (2)	40,000,000 (2)
Naphthalene	---	---	---	---	---	---	---	---	400 (2)/2,700 (4)	110,000 (2)
Phenanthrene	---	---	---	---	---	---	---	---	1,800 (2)	390,000 (2)
Pyrene	---	---	---	---	---	---	---	---	8,700,000 (2)	30,000,000 (2)

Notes:

Bold values exceed NR 746 Table 1 values or the WDNR Interim Guidance (2) protection of groundwater values
Boxed values exceed NR 746 Table 2 values or the WDNR Interim Guidance (2) direct-contact values
--- - not analyzed
(1) - NR 720 Generic RCLs
(2) - From Soil Cleanup Levels for PAHs Interim Guidance, WDNR, PUBL-RR-519-97, April 1997, Corrected.
(3) - NR 746/COMM 46, Table 2 protection of human health from direct contact with contaminated soil (0-4 feet).
(4) - NR 746/COMM 46, Table 1 indicators of residual petroleum product in soil pores.
bgs - below ground surface
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
NA - not applicable
PAHs - polynuclear aromatic hydrocarbons
Q - result between the limit of detection and limit of quantitation
RCLs - residual contaminant levels
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 2A

SUMMARY OF CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

PARAMETERS	SAMPLE IDENTIFICATION																	GENERIC RCLs	
	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	B-1	B-2	B-3	B-4	B-5	PROTECTION OF GROUNDWATER	DIRECT CONTACT (INDUSTRIAL)
Date Collected	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	10/18/00	---	---
Depth (feet bgs) (4)	5.5	5	3	3	3.5	3.5	3.5	4	4	3	3	2.5	6	5	4.5	6.5	6	---	---
GRO (mg/kg)	<5.73	<5.74	<5.84	28.7	176	152	163	172	98	48	227	46.5	<5.68	36.1	166	15.1	<5.76	250 (1)	---
DRO (mg/kg)	<5.73	<5.74	7.04	592	847	1,160	391	666	71.7	36.1	608	148	<5.68	<5.82	415	49.5	<5.76	250 (1)	---
Detected PVOCs (µg/kg)																			
Benzene	<25	<25	<25	<25	1,370	80.1	<25	44.2	257	<25	44	<25	<25	2,500	491	<25	<25	5.5 (1)/8,500 (3)	1,100 (2)
Ethylbenzene	26.6	<25	<25	<25	1,730	170	129	156	191	46.2	297	<25	<25	1,010	2,370	<25	<25	2,900 (1)/4,600 (3)	---
Methyl tert-butyl ether	<25	<25	<25	<25	33.6	<50	<25	220	6,440	287	<25	<25	<25	26,900	<50	<25	180	---	---
Toluene	36.8	31.3	26.9	<25	86.7	61.5	35.9	64.7	138	35	59.1	29.6	<25	358	216	<25	<25	1,500 (1)/38,000 (3)	---
1,2,4-Trimethylbenzene	100	58.3	40	172	6,070	3,600	3,710	6,090	4,100	557	1,350	206	<25	1,170	10,100	48.2	38.4	83,000 (3)	---
1,3,5-Trimethylbenzene	50.4	36	26.3	58.2	1,580	1,090	905	890	908	99.8	908	445	<25	359	3,160	114	50.4	11,000 (3)	---
Xylenes	105	55.3	43.7	49.9	3,650	272	130	102	1,360	152	130	47.6	<25	6,330	8,950	30.4	25.4	4,100 (1)/42,000 (3)	---

Notes:

Bold values exceed NR 746 Table 1 values
Boxed values exceed NR 746 Table 2 values
--- - not analyzed, not applicable or no standard established
(1) - NR 720 Generic RCLs
(2) - NR 746/COMM 46, Table 2 protection of human health from direct contact with contaminated soil (0-4 feet).
(3) - NR 746/COMM 46, Table 1 indicators of residual petroleum product in soil pores.
(4) - Depths were measured relative to the ground surface following the removal of 1 to 1 1/2 feet of clean gravel.
bgs - below ground surface
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram
Q - result between the limit of detection and limit of quantitation
RCLs - residual contaminant levels
µg/kg - micrograms per kilogram
VOCs - volatile organic compounds

TABLE 3

SUMMARY OF GROUNDWATER DEPTHS AND ELEVATION DATA

REMEDIAL ACTION REPORT

RAYMOND OIL COMPANY
8810 West Six Mile Road
Franksville, Wisconsin

WELL ID	TOP OF PVC ELEVATION	GROUND SURFACE ELEVATION	DEPTH TO GROUNDWATER	GROUNDWATER ELEVATION	DEPTH TO GROUNDWATER
UNITS	(feet) (1)	(feet) (1)	(feet) (2)	(feet) (1)	(feet bgs)
MW-1					
5/9/02	98.97	99.4	1.97	97.00	2.4
8/14/02			2.82	96.15	3.3
11/14/02			2.81	96.16	3.2
2/13/03			4.84	94.13	5.3
MW-2					
5/9/02	98.70	99.1	2.29	96.41	2.7
8/14/02			2.55	96.15	2.9
11/14/02			2.77	95.93	3.2
2/13/03			3.50	95.20	3.9
MW-3					
12/17/99	102.47	99.7	12.44	90.03	9.7
3/9/00			6.79	95.68	4.0
6/26/00			8.53	93.94	5.8
7/19/00			4.31	98.16	1.5
MW-3R					
5/9/02	104.30	101.49	5.41	98.89	2.6
8/14/02			14.96	89.34	12.2
11/14/02			17.10	87.20	14.3
2/13/03			15.79	88.51	13.0
MW-4					
5/9/02	100.04	98.30	4.65	95.39	2.9
8/14/02			11.70	88.34	10.0
11/14/02			12.23	87.81	10.5
2/13/03			13.66	86.38	11.9
MW-5					
5/9/02	104.42	99.98	DRY	---	---
8/14/02			DRY	---	---
11/14/02			DRY	---	---
2/13/03			DRY	---	---

Notes:
(1) Elevations are relative to a site benchmark, the southwest corner of the main building which was assigned an elevation of 100.00 feet.
(2) From top of casing
--- - not measured or not applicable
bgs - below ground surface
PVC - polyvinyl chloride

DOCUMENT # 1614493
DOCUMENT NO.

STATE BAR OF WISCONSIN FORM 3 – 1982
QUIT CLAIM DEED

VOL 7227 PAGE 972

REGISTERED IN FILE
RACINE COUNTY, WI

RECORDED
98 FEB 24 PM 4:12
MARK A. LADD
REGISTER OF DEEDS

John A. Scott and Gertrude Scott, husband and wife, and Richard L. Scott and Kay M. Scott, husband and wife

quit-claim's to Howard Scott and Doris Scott, husband and wife

the following described real estate in Racine County, State of Wisconsin:

10

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS
Howard and Doris Scott
8810 W. 6 mile Rd
Franksville, WI 53126

Pt of 012-04-21-09-010-000
Pt of 012-04-21-09-011-000
PARCEL IDENTIFICATION NUMBER
New # 012-04-21-09-011-010

That part of the South 96-1/2 rods of the West 110 rods of Section 9, Township 4 North, Range 21 East, described as follows: Commence at a point in the South line of said Section 9 which is 1299.15 feet West of the South 1/4 corner of said Section 9; run thence North 0°18' East 370.00 feet; thence East parallel to the South line of said Section 9, 408.15 feet to a point which is 66.00 feet West of the East line of the West 110 rods of said Section 9; thence South 0°18' West, 370.00 feet to a point in the South line of said Section 9; thence West along the South line of said Section 9, 408.15 feet to the place of beginning. EXCEPTING therefrom the Southerly 33 feet for road purposes. Said land being in the Town of Raymond, County of Racine, State of Wisconsin.

This deed is given to clarify public record as to the interest of the above named properties

Tax Exempt 77.25 #3

This is not ~~is~~ (is not) homestead property.

Tax Exempt 77.25 #3

Dated this 19th day of February, 19 98

John A Scott (SEAL)
• John A. Scott

Richard L Scott (SEAL)
• Richard L. Scott

Gertrude Scott (SEAL)
• Gertrude Scott

Kay M Scott (SEAL)
• Kay M. Scott

AUTHENTICATION

Signature(s)

authenticated this day of

•

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Atty. Jeffrey B. Green

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTARY PUBLIC
CRAIG M. HASKINS
STATE OF WISCONSIN

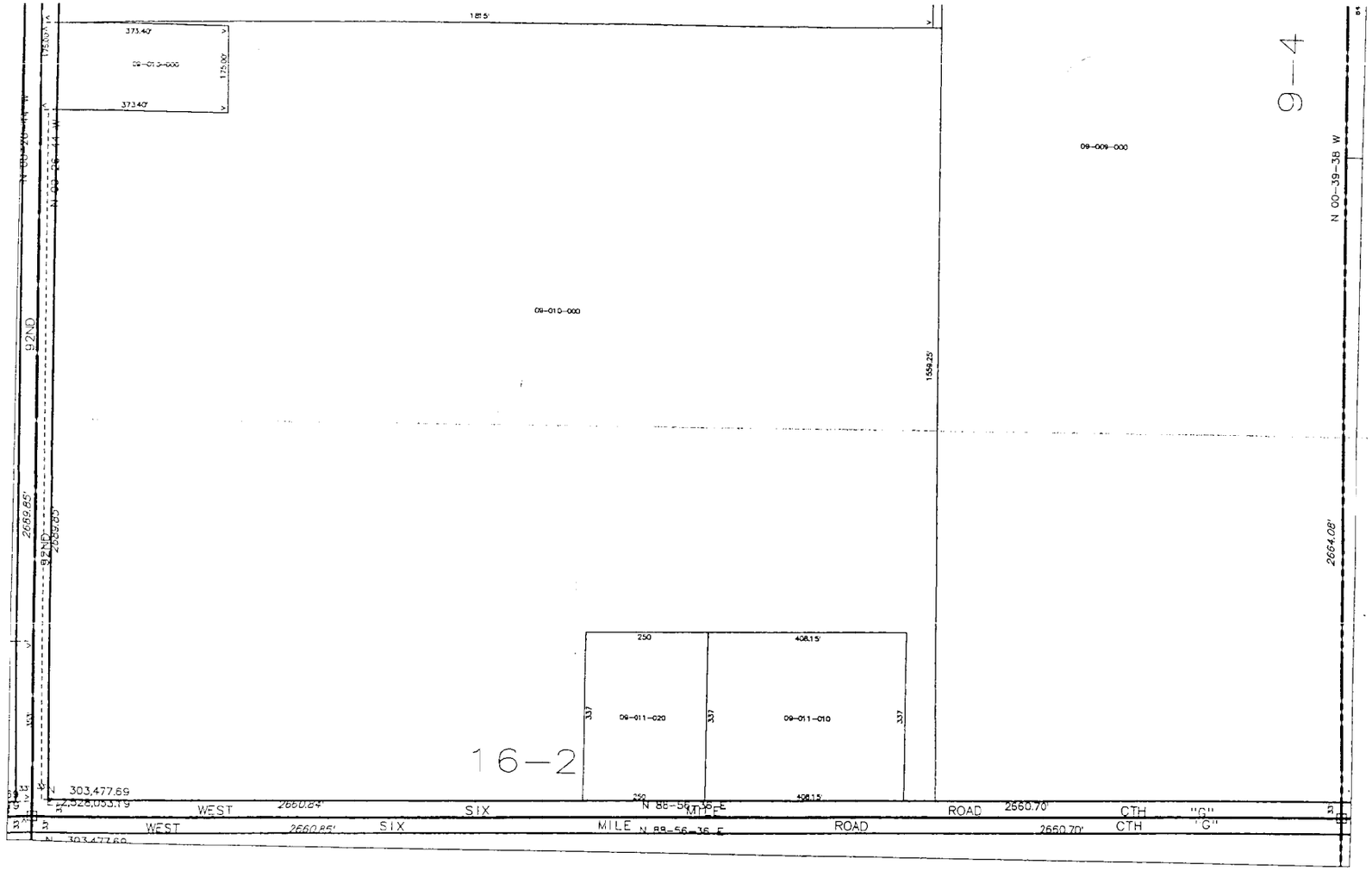
ACKNOWLEDGMENT

State of Wisconsin, } ss.
Racine County.

Personally came before me this 19th day of February, 19 98, the above named John A. Scott and Gertrude Scott, husband and wife, and Richard L. Scott and Kay M. Scott, husband and wife to me known to be the persons who executed the foregoing instrument and acknowledge the same.

Craig M. Haskins
• Craig M. Haskins
Notary Public, Racine County, Wis.
My commission is permanent. (If not, state expiration date: June 3, ~~19~~ 2001)

* Names of persons signing in any capacity should by typed or printed below their signatures.

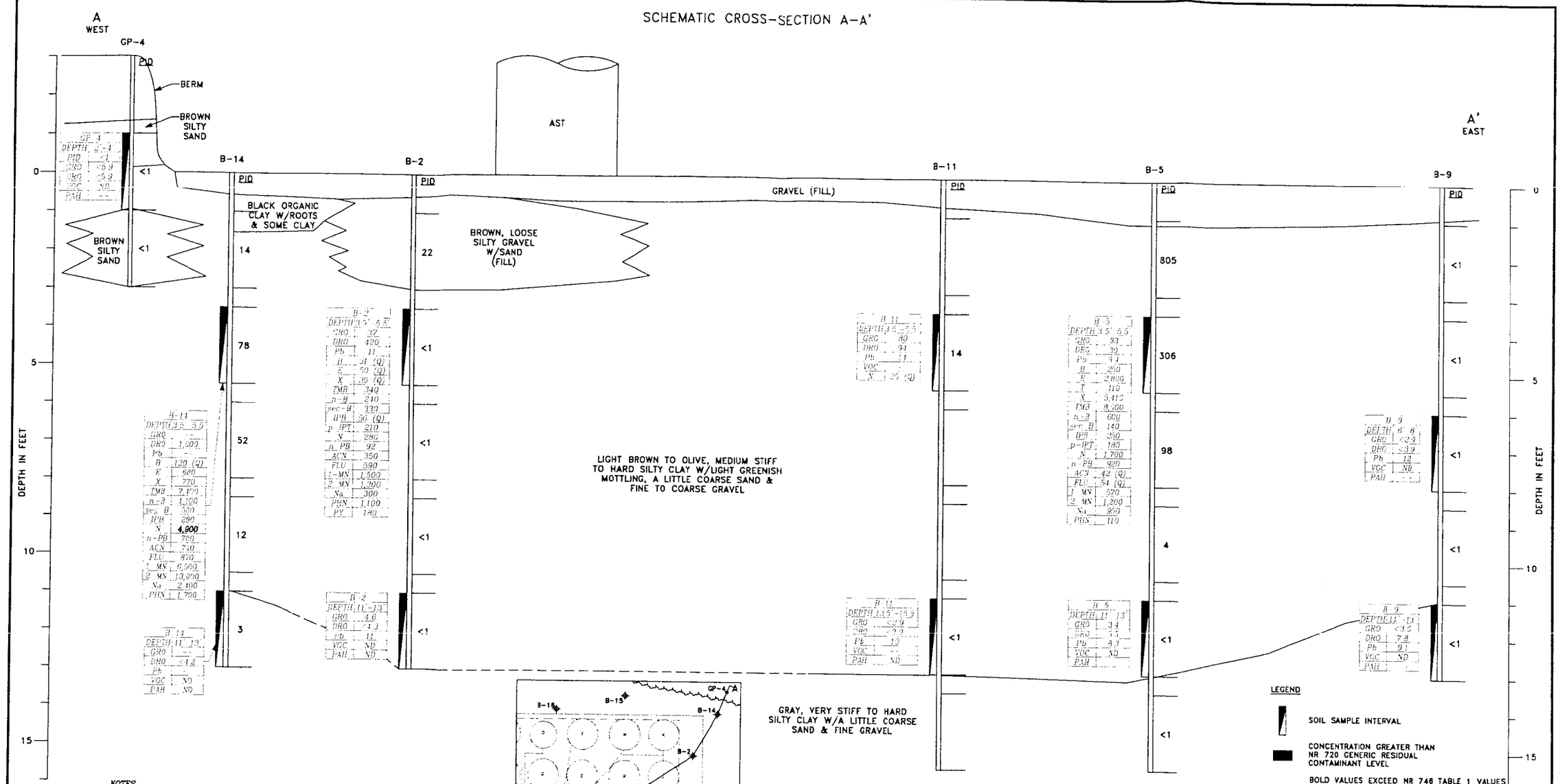


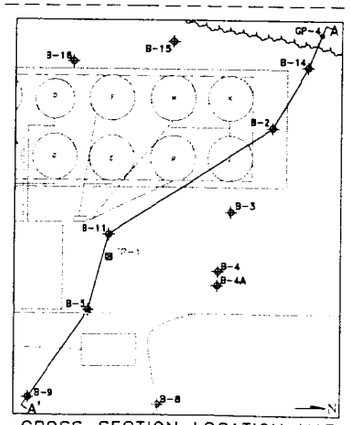
Date of origin.

THIS MAP IS NEITHER A LEGALLY RECORDED MAP NOR A SURVEY AND IS NOT INTENDED TO BE USED AS ONE. THIS DRAWING IS A COMPILATION OF RECORDS, DATA AND INFORMATION LOCATED IN VARIOUS STATE COUNTY AND MUNICIPAL OFFICES AND OTHER SOURCES AFFECTING. THE AREA SHOWN IS TO BE USED FOR REFERENCE PURPOSES ONLY. RACINE COUNTY IS NOT RESPONSIBLE FOR ANY INACCURACIES HEREIN CONTAINED. IF DISCREPANCIES ARE FOUND PLEASE CONTACT THE DEPARTMENT OF PLANNING AND DEVELOPMENT.

Information cu

SCHEMATIC CROSS-SECTION A-A'





CROSS-SECTION LOCATION MAP

NOTES

P.I.D.: PHOTOIONIZATION DETECTOR, I.U.
I.U.: INSTRUMENT UNITS
GRO: GASOLINE RANGE ORGANICS, mg/kg
DRO: DIESEL RANGE ORGANICS, mg/kg
Pb: TOTAL LEAD, mg/kg
PVOC: PETROLEUM VOLATILE ORGANIC COMPOUNDS, ug/kg
B: BENZENE, ug/kg
T: TOLUENE, ug/kg
E: ETHYLBENZENE, ug/kg
X: TOTAL XYLENES, ug/kg
TMB: TOTAL TRIMETHYLBENZENES, ug/kg
n-B: n-BUTYLBENZENE, ug/kg
sec-B: sec-BUTYLBENZENE, ug/kg
IPB: ISOPROPYLBENZENE, ug/kg
p-IPT: p-ISOPROPYLTOLUENE, ug/kg
N: NAPHTHALENE, ug/kg
n-PB: n-PROPYLBENZENE, ug/kg
PAH: POLYCYCLIC AROMATIC HYDROCARBONS, ug/kg
ACN: ACENAPHTHENE, ug/kg
FLU: FLUORENE, ug/kg
1-MN: 1-METHYLNAPHTHALENE, ug/kg
2-MN: 2-METHYLNAPHTHALENE, ug/kg
Na: NAPHTHALENE (PAH), ug/kg
PHN: PHENANTHRENE, ug/kg
PY: PYRENE, ug/kg
mg/kg: MILLIGRAMS PER KILOGRAM
ug/kg: MICROGRAMS PER KILOGRAM
< : LESS THAN
-- : NOT ANALYZED
ND : NOT DETECTED ABOVE LABORATORY METHOD DETECTION LIMITS
(Q) : CONCENTRATION BETWEEN LIMIT OF DETECTION AND LIMIT OF QUANTITATION

0 5 10
0 1.25 2.5
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=2.5'

DRN. BY:	C.T.M.	DATE:	06/14/03
DSN. BY:	D.K.P.	FILE NO.:	0601010
CHK. BY:	D.K.P.	DWG. NO.:	06010106
REV. BY:	D.J.G.	SHEET NO.:	3

KEY ENGINEERING GROUP LTD.

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FIGURE 3
SCHEMATIC CROSS-SECTION A-A'

SITE INVESTIGATION REPORT
RAYMOND OIL COMPANY
8810 WEST SIX MILE ROAD
FRANKSVILLE, WISCONSIN

STATEMENT

In accordance with NR 726.05(3)(a)(4)(g) of the Wisconsin Administrative Code regarding case closure:

"A statement signed by the responsible party that he or she believes that legal descriptions for all of the properties within or partially within the contaminated site's boundaries that have groundwater contamination exceeding NR 140 enforcement standards, at the time that closure is requested, other than public street or highway rights-of way or railroad rights-of-way, have been submitted to the agency with administrative authority for the site, either as an attachment to the site investigation report or as part of the groundwater GIS registry attachment to the case close out report."

Raymond Oil Company, Inc.

Howard B Scott

Signature

Howard B. SCOTT

Printed Name

6-20-03

Date

DOCUMENT # 1614493
DOCUMENT NO.

STATE BAR OF WISCONSIN FORM 3 – 1982
QUIT CLAIM DEED

VOL 2727 PAGE 972

REGISTER'S OFFICE
RACINE COUNTY, WI

RECORDED
98 FEB 24 PM 4:12
MARK A. LADD
REGISTER OF DEEDS

John A. Scott and Gertrude Scott, husband and wife, and Richard L. Scott and Kay M. Scott, husband and wife

quit-claims to Howard Scott and Doris Scott, husband and wife

the following described real estate in Racine County, State of Wisconsin:

10

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS
Howard and Doris Scott
8810 W. 6 mile Rd
Franksville, WI 53126

Pt of 012-04-21-09-010.000
Pt of 012-04-21-09-011.000
PARCEL IDENTIFICATION NUMBER
New # 012-04-21-09-011.010

That part of the South 96-1/2 rods of the West 110 rods of Section 9, Township 4 North, Range 21 East, described as follows: Commence at a point in the South line of said Section 9 which is 1299.15 feet West of the South 1/4 corner of said Section 9; run thence North 0°18' East 370.00 feet; thence East parallel to the South line of said Section 9, 408.15 feet to a point which is 66.00 feet West of the East line of the West 110 rods of said Section 9; thence South 0°18' West, 370.00 feet to a point in the South line of said Section 9; thence West along the South line of said Section 9, 408.15 feet to the place of beginning. EXCEPTING therefrom the Southerly 33 feet for road purposes. Said land being in the Town of Raymond, County of Racine, State of Wisconsin.

This deed is given to clarify public record as to the interest of the above named properties

Tax Exempt 77.25 #3

This is not homestead property. (is not)

~~Tax Exempt 77.25~~ ~~#3~~

Dated this 19th day of February, 19 98

John A Scott (SEAL)
• John A. Scott

Richard L Scott (SEAL)
• Richard L. Scott

Gertrude Scott (SEAL)
• Gertrude Scott

Kay M Scott (SEAL)
• Kay M. Scott

AUTHENTICATION

Signature(s)

authenticated this day of 19

•

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Atty. Jeffrey B. Green

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTARY PUBLIC
CRAIG M. HASKINS
STATE OF WISCONSIN

ACKNOWLEDGMENT

State of Wisconsin, } ss.
Racine County.

Personally came before me this 19th day of February, 19 98, the above named John A. Scott and Gertrude Scott, husband and wife, and Richard L. Scott and Kay M. Scott, husband and wife to me known to be the person s who executed the foregoing instrument and acknowledge the same.

Craig M. Haskins
• Craig M. Haskins
Notary Public, Racine County, Wis.
My commission is permanent. (If not, state expiration date: June 3, ~~19~~ 2001)

* Names of persons signing in any capacity should by typed or printed below their signatures.