The following site is being submitted for inclusion into the GIS registry:

- To begin, click on cell to the right of; *This is a:*
- Use Tab, ↓ or Pg Down to navigate form. Print & include with file when completed.

This is a:	New Submittal
BRRTS ID (no dashes):	**0242000301**
Comm # (no dashes):	54656257306
County:	Monroe
Region:	West Central
Site Name:	Rasmussen Bulk Tank Facility
Street Address:	706 Milwaukee St.
City:	Sparta
Final Closure Date:	2003-04-18
Closure Conditions:	met
Off-source property contamination?	No
(If yes, attach locational data and deed information on pg. 2)	
Right-of-way contamination?	Yes
Contaminated media:	Groundwater and Soil

GPS Coordinates (meters in the **WTM91** projection)

Easting (X):	455731
Northing (Y):	385233
Collection Method:	DNR Web Site
Scale or Resolution:	1:
(1:24,000 scale or finer)	
Prepared by:	D. Swimm
Submitted by:	D. Swimm

Source Property Checklist

- ☒ Final Closure Letter
- ☒ The most recent deed including legal descriptions, for all properties within or partially within the contaminated site boundaries w/ Soil > NR 720 RCL and/or GW > NR 140 ES
- ☐ A certified surveyed map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map
- ☒ Parcel ID for all properties w/ Soil > NR 720 RCL and/or GW > NR 140 ES
- ☒ General Location Map
- ☒ Detailed Location Map showing property boundaries, buildings, MW(s), soil borings and/or potable wells etc for properties w/ Soil > NR 720 RCL and/or GW > NR 140 ES
- ☒ Latest Map(s) showing extent or outline of current GW and/or Soil contamination plume
- ☒ Latest Table of GW and/or Soil results
- ☒ Map showing GW flow direction
- ☒ A table of the previous 4 water level elevation measurements
- ☒ Geologic cross section (if generated as part of the site investigation)
- ☒ Statement signed by RP certifying correctness of legal descriptions
- ☒ ROW Notification

ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
P.O. Box 8044
Madison, Wisconsin 53708-8044
TDD #: (608) 264-8777
Fax #: (608) 267-1381
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Jim Doyle, Governor
Cory L. Nettles, Secretary

Wisconsin
Department of Commerce

April 18, 2003

James Rasmussen
Rasmussen Oil Co Inc
PO Box 227
Sparta, WI 54656

RE: **Final Closure**

Commerce # 54656-2573-06 WDNR BRRTS # 02-42-000301
Rasmussen Bulk Tank Facility, 706 Milwaukee St, Sparta

Dear Mr. Rasmussen:

The Wisconsin Department of Commerce (Commerce) has received all the items required as conditions for closure as stated in the February 3, 2003 Conditional Case Closure document. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resource (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address the residual soil and groundwater contamination. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

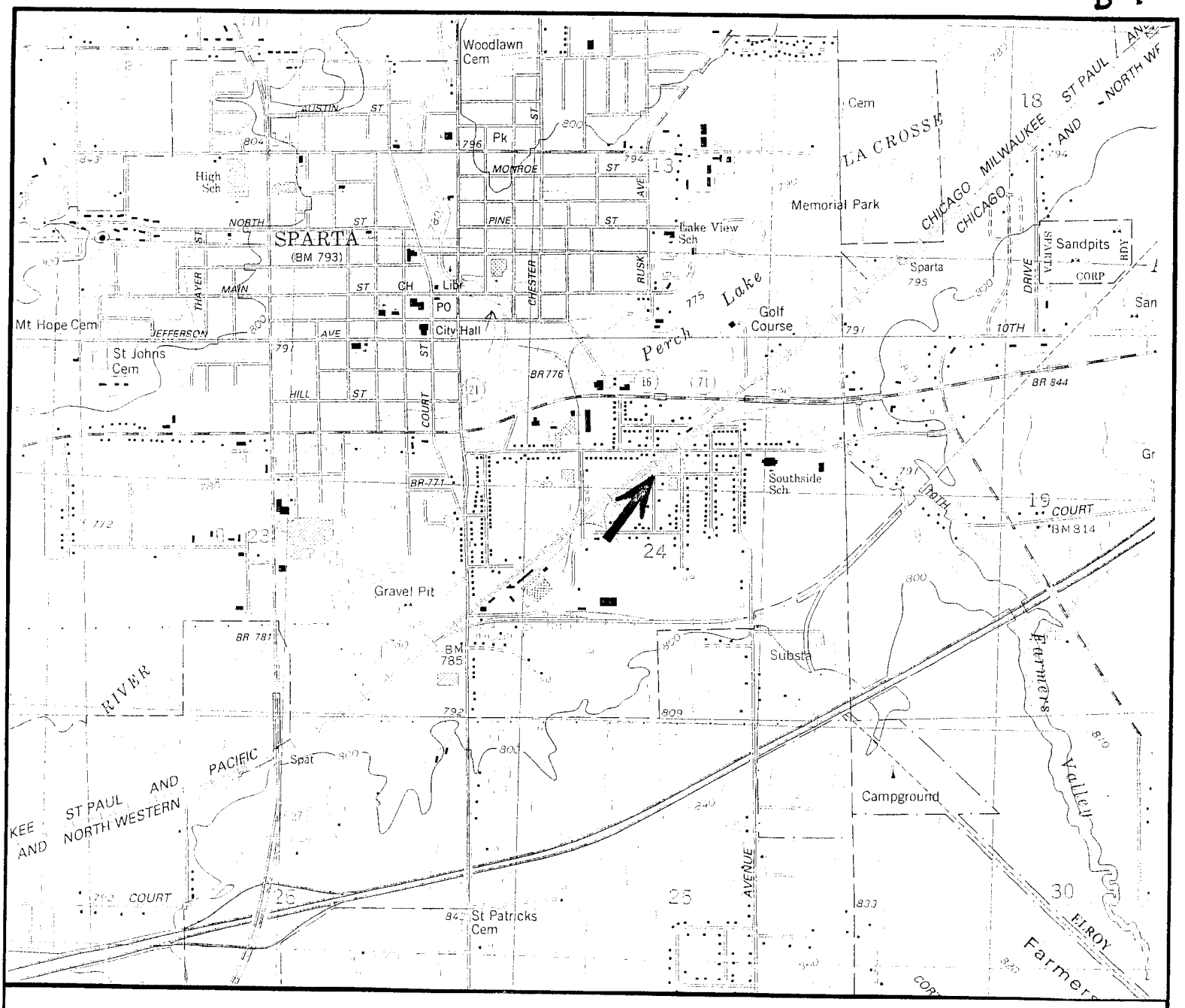
If residual contamination is encountered in the future, it must be managed in accordance with all applicable State and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required. If applicable, 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 (608) 264-8766.

Sincerely,

David Swimm
Hydrogeologist
Site Review Section

cc: Thomas Pignet, METCO



SITE LOCATION MAP

RASMUSSEN OIL BULK TANK FACILITY
706 MILWAUKEE STREET
SPARTA, WISCONSIN

METCO

2956 AIRPORT ROAD
LA CROSSE, WI 54603
608/ 781-8879
608/ 781-8893 FAX

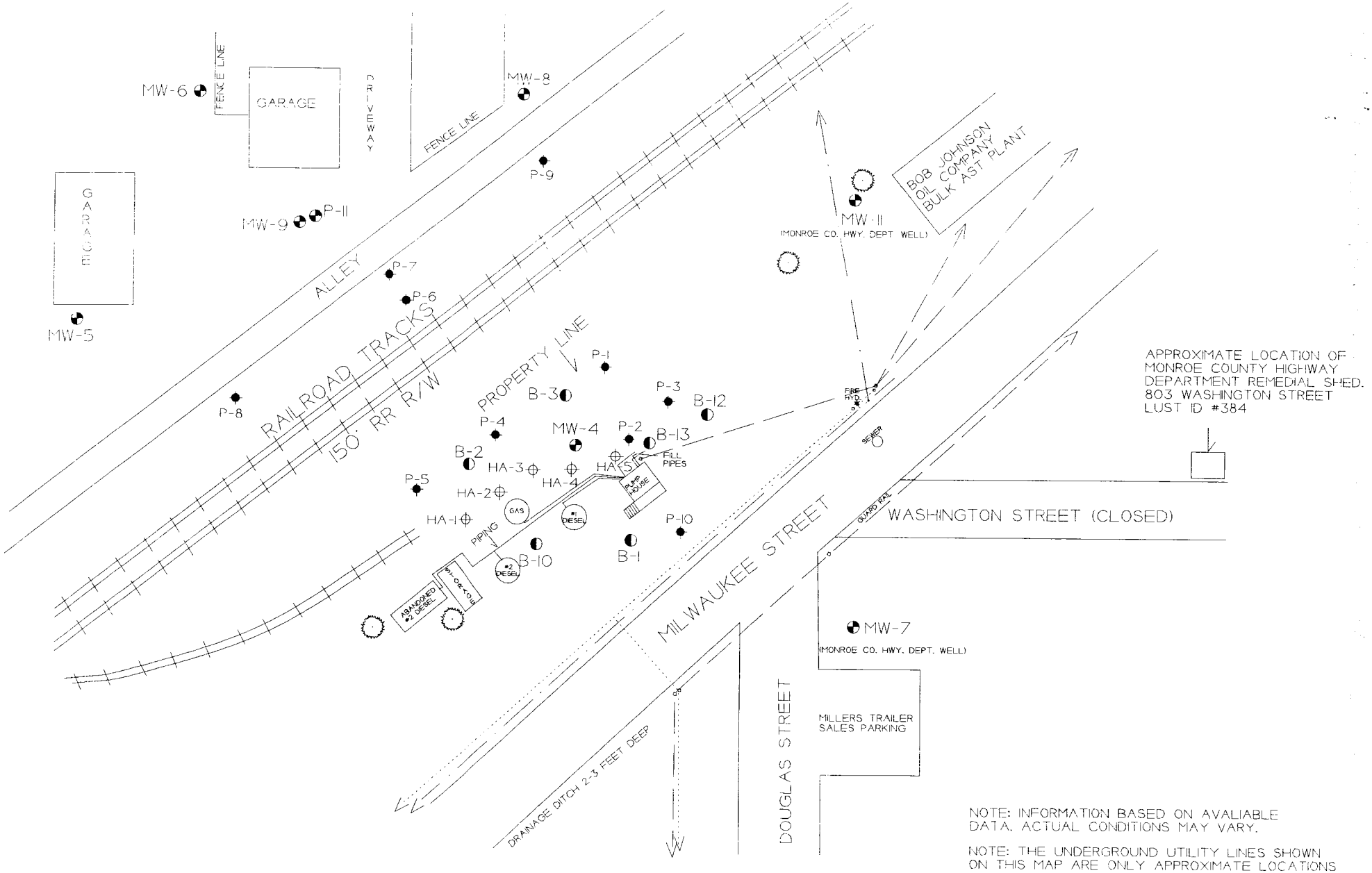
PO BOX 448
ENTERPRISE DRIVE
HILLSBORO, WI 54634
608/ 489-2198
608/ 489-2389

SPARTA QUADRANGLE

7.5 MINUTE SERIES

SCALE

1 INCH = 2,000 FEET



NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.

LEGEND

- ⊕ - HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- ● - GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- ○ - TREES/BUSHES
- ◐ = MONITORING WELL LOCATIONS
- ◐ = BORING LOCATION
- — · — = BURIED WATER LINE
- ····· = BURIED PHONE LINE
- —— —— = OVERHEAD UTILITIES

SITE LAYOUT MAP

RASMUSSEN OIL BULK TANK FACILITY

SPARTA, WISCONSIN

METCO

SCALE: 1 IN. = 60 FT.

DRAWN BY: JR

DATE: 6/17/96

JOB NO.: R-95-243/C375

B-2

F6

LEGAL DESCRIPTION (as best extracted from 1874 railroad warranty deed):

All the following described premises and real estate, situate, lying and being in the Village (now City) of Sparta, County of Monroe and State of Wisconsin to which, Commencing at a point on the quarter line (1/4) on East side of the SE ¼ NW ¼ Sec 24 T17 R4W at a point 110 feet south of where the right of way of Rail Road crosses said ¼ line, being a point on the East line of a ten acre lot formerly owned by Parmelee and Chapmon; running thence South westerly on the west line of highway, where it now is, laid from C.M. (Chicago Milwaukee) and St. P. (Saint Paul) RR depot to the C & NW (Chicago and Northwestern) RR depot to the west line of said ten acre lot; thence North on a line parallel with said ¼ line about 160 feet to the railroad right of way across said lot and thence northeasterly along the line of said right of way to North West corner of the Merchant Warehouse lot situated on said ten acre lot and thence southeasterly along the westerly side of said warehouse lot to the west line of said highway between depots and thence northeasterly on west line of said highway to the place of beginning, being a part of SE ¼ NW ¼ S24 T17 R4 West containing about one and 3/100 acres, more or less.

Ga

James Rasmussen
Rasmussen Oil Co., Inc
1111 River Rd.
P.O. Box 227
Sparta, WI 54656

Copy

March 1, 2002

Mr. Jim Konstantelos
CMC Heartland Partners
555 West Kinzie St.
Chicago, IL 60610

Re: Rasmussen Oil Remediation Project – Sparta, WI, Milwaukee Street Property
Closure Request with Natural Attenuation of Groundwater

Dear Mr. Konstantelos,

Starting with the following paragraph is the text of the form letter that the Wisconsin DNR requires me to send to you, with site-specific details entered at appropriate points by my environmental consultant, METCO. It is your notification of residual groundwater contamination on your property, with details on how the source property (in this case, again your property) is requesting case closure with natural attenuation as the final remediation for the contamination.

Groundwater contamination that appears to have originated on the property located at 706 Milwaukee Street, Sparta, Wisconsin, has been shown to be staying within the property boundaries except for an inferred expansion into the railroad right-of-way on the north side of the property. The levels of petroleum contamination in the groundwater on your property have been found to be, in several sampling events in the two years prior to the site excavation of September, 2001, above the state groundwater enforcement standards found in chapter NR 140, Wisconsin Administrative Code. The petroleum compounds found to be in exceedance were: ethylbenzene, trimethylbenzenes, and naphthalene. However, the environmental consultants who have investigated this contamination have informed me that this groundwater contaminant plume is stable or receding, particularly in light of the excavation of the site's contaminated soils, and will naturally degrade over time. I believe that allowing natural attenuation to complete the cleanup at this site will meet the requirements for case closure that are found in chapter NR 726 and chapter Comm 46, Wisconsin administrative Code, and I will be requesting that the Department of Commerce accept natural attenuation as the final remedy for this site and grant case closure. Closure means that the Department will not be requiring any further investigation or cleanup action to be taken, other than the reliance on natural attenuation.

Since I am the "responsible party" for the contamination on your property, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this groundwater contamination, as long as you and any subsequent owners comply with the requirements of section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup, if access is required. For your further information, I am enclosing a copy

of the WDNR's Fact Sheet on Natural Attenuation and the requirements of section 292.13, Wisconsin Statutes (publication RR671).

The Department of Commerce will not review my closure request for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the Department to provide any technical information that you may have that indicates closure should not be granted for this site. If you would like to submit any information to the Department of Commerce that is relevant to this closure request, you should mail that information to Mr. David Swimm, Wisconsin Department of Commerce – Bureau of PECFA, P.O. Box 8044, Madison, Wisconsin, 53708-8044.

If this case is closed, all properties within the site boundaries where groundwater contamination exceeds chapter NR 140 groundwater enforcement standards will be listed on the Department of Natural Resources' geographic information system (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 enforcement standards was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources internet web site. Please review the enclosed legal description of your property, and notify me within the next 30 days if the legal description is in any way incorrect. This description was taken from the original 1874 warranty deed summarizing the transfer of the property to the railroad entity of that day. You transmitted that deed to my consultant, METCO, as the relevant document still in force. A recent GPS coordinate determination from the center of (the Rasmussen rental portion of) the property, gave us the following: 43° 56' 15.2" N; 90° 48' 3.4" W.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to discuss with the Drinking Water program within the Department of Natural Resources the need for special well construction standards.

Once the Department makes a decision on my closure request, it will be documented in a letter. If the Department grants closure, you may obtain a copy of this letter by requesting a copy from me, by writing to the agency address given above or by accessing the DNR GIS Registry of Closed Remediation Sites on the Internet at www.dnr.state.wi.us/org/at/et/geo/gwur. A copy of the closure letter will be included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at Rasmussen Oil Co., Inc., 1111 River Road, Sparta, Wisconsin. The phone number at which you can reach me is (608) 269-4225. If you would prefer, you may contact Mr. David Swimm of the Department of Commerce at the address given above. His phone number is (608) 264-8766.

Sincerely,

James Rasmussen

LEGAL DESCRIPTION

All the following described premises and real estate, situate, lying and being in the Village (now City) of Sparta, County of Monroe and State of Wisconsin to which, Commencing at a point on the quarter line (1/4) on East side of the SE ¼ NW ¼ Sec 24 T17 R4W at a point 110 feet south of where the right of way of Rail Road crosses said ¼ line, being a point on the East line of a ten acre lot formerly owned by Parmelee and Chapmon; running thence South westerly on the west line of highway, where it now is, laid from C.M. (Chicago Milwaukee) and St. P. (Saint Paul) RR depot to the C & NW (Chicago and Northwestern) RR depot to the west line of said ten acre lot; thence North on a line parallel with said ¼ line about 160 feet to the railroad right of way across said lot and thence northeasterly along the line of said right of way to North West corner of the Merchant Warehouse lot situated on said ten acre lot and thence southeasterly along the westerly side of said warehouse lot to the west line of said highway between depots and thence northeasterly on west line of said highway to the place of beginning, being a part of SE ¼ NW ¼ S24 T17 R4 West containing about one and 3/100 acres, more or less.

Fa

WNDR BRRTs Case #: 02-42-000301

WDNR Site Name: Rasmussen Oil Bulk Tank Facility

Geographic Information System (GIS) Registry of Closed Remediation Sites

In compliance with the revisions to the NR 700 rule series requiring certain closed sites to be listed on the Geographic Information System (GIS) Registry of Closed Remediation Sites (Registry) effective Nov., 2001, I have provided the following information.

To the best of my knowledge the legal descriptions provided and attached to this statement are complete and accurate.

Responsible Party: James A Rasmussen Jr. President
(print name/title)

(signature) 3-5-02
(date)

WARRANTY DEED. J. B. HOEGER & SONS, Stationers, Milwaukee.

This Indenture, Made the First day of May in the year of our Lord, one thousand eight hundred and Seventy Four BETWEEN Samuel Coughron and his wife Martha A and J L Green and his wife L R of Monroe County Wisconsin party of the first part and Chicago Milwaukee and St Paul Rail Way Company party of the second part

Witnesseth, That the said party of the first part, for and in consideration of the sum of Four Hundred and Twenty Five Dollars to them in hand paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, have given, granted, bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents do give, grant, bargain, sell, remise, release, alien, convey and confirm, unto the said party of the second part, their Successors ~~heirs~~ and assigns forever. All of the following described premises and real estate situate lying & being in the Village of Sparta County of Monroe and State of Wisconsin to wit Commencing at a point on the quarter line (1/4) on East side of the SE¼ NW¼ Sec 24 T17 R4W at a point 110 feet South of where the right of way of Rail Road crops said 1/4 line, being a point on the East line of a ten acre lot formerly owned by Parmelee and Chapman; running thence South westerly on the West line of high way, where it now is, laid from C. M and St R R R Depot to the C. N W R R Depot to the West line of said ten acre lot; thence North on a line parallel with said 1/4 line about 160 feet to the Rail Road right of way across said lot and thence North Easterly along the line of said right of way to North West corner of the Merchant Ware house lot situated on said ten acre lot, and thence South Easterly along the Westerly side of said Ware house lot to the West line of said high way between Depots and thence North Easterly on West line of said high way to the place of beginning being a part of SE¼ NW¼ S 24 T17 R 4 west containing about One and 3/10 acres more or less

Together with all and singular the hereditaments and appurtenances thereunto belonging, or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To Have and to Hold the said premises, as above described, with the hereditaments and appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

And the said Coughron and Green for themselves heirs, executors and administrators do covenant, grant, bargain and agree to and with the said party of the second part their Successors ~~heirs~~ and assigns, that at the time of the ensealing and delivery of these presents they were well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever,

and that the above bargained premises in the quiet and peaceable possession of the said party of the second part their Successors ~~heirs~~ and assigns, against all and every person or persons, lawfully claiming the whole or any part thereof, they will forever WARRANT AND DEFEND.

In Witness Whereof, The said party of the first part have hereunto set their hands and seals the day and year first above written.

Signed, Sealed and Delivered in presence of

M. C. Green

Geo A Richardson

Samuel Coughran Esq'r

M A Coughran Esq'r

J L Green [SEAL.]

L. R. Green [SEAL.]

[SEAL.]

STATE OF WISCONSIN, County of Monroe } ss.

Be it Remembered, That on the 1st day of May A. D. 1874 personally came before me the above named S Coughron and Martha A Coughron his wife and J L Green and his wife L R Green to me known to be the person who executed the above Deed, and acknowledged the same to be their free act and deed for the uses and purposes therein mentioned.

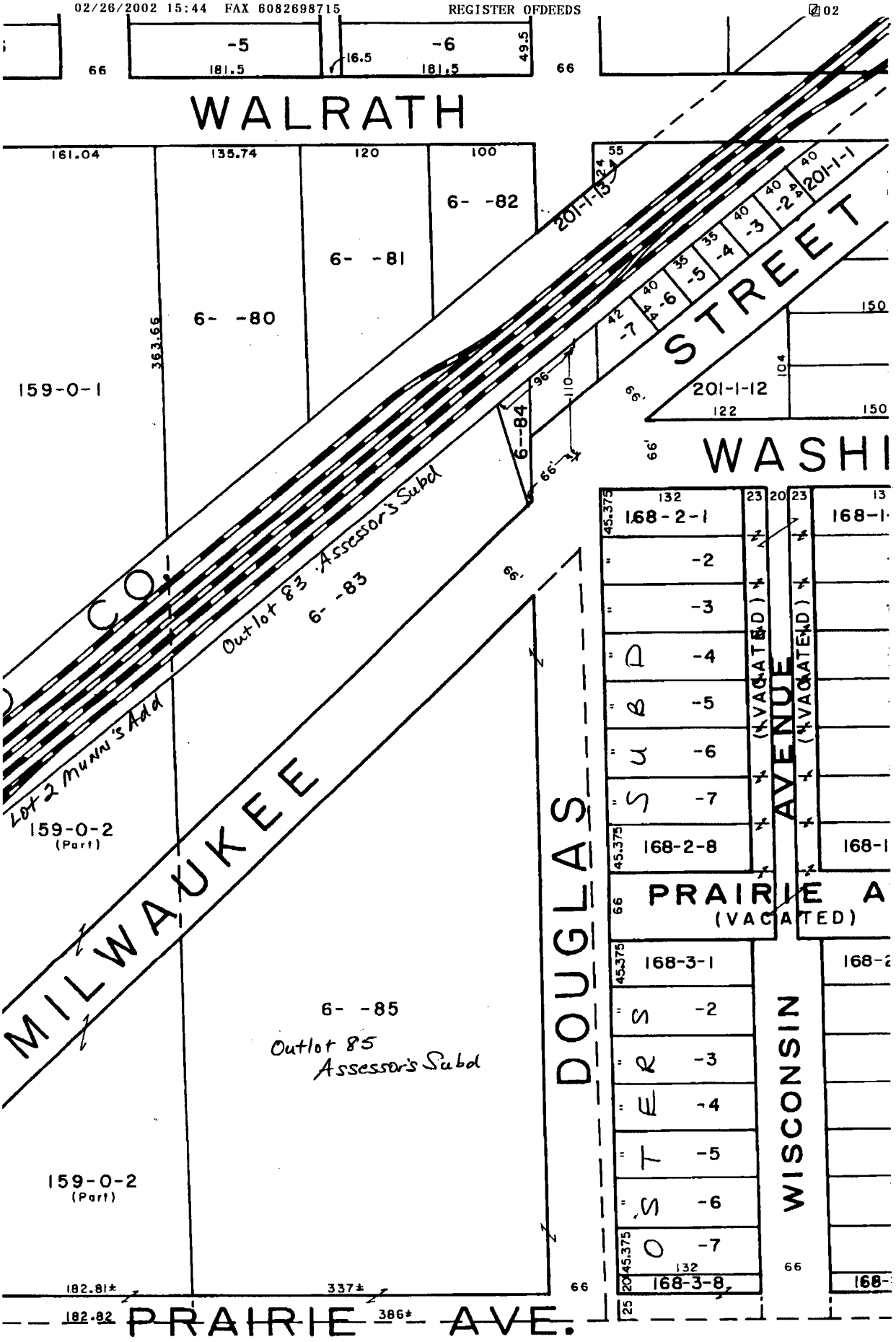
Geo A Richardson

Notary Public

Wm Cirkane

This

RE 34215


WALRATH
WASHI
STREET
MILWAUKEE
DOUGLAS
WISCONSIN
AVENUE
PRAIRIE A
(VACATED)
PRAIRIE AVE.
CO.
Outlot 83 Assessor's Subd
Lot 2 Munn's Add
Outlot 85 Assessor's Subd
6- -80
6- -81
6- -82
6- -83
6- -84
6- -85
159-0-1
159-0-2 (Part)
201-1-12
201-1-13
201-1-1
168-2-1
168-2-8
168-3-1
168-3-8
SUBD
OSTERS
-2
-3
-4
-5
-6
-7
66
66'
132
45.375
182.81±
182.82
337±
386±
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161.04
135.74
120
100
55
150
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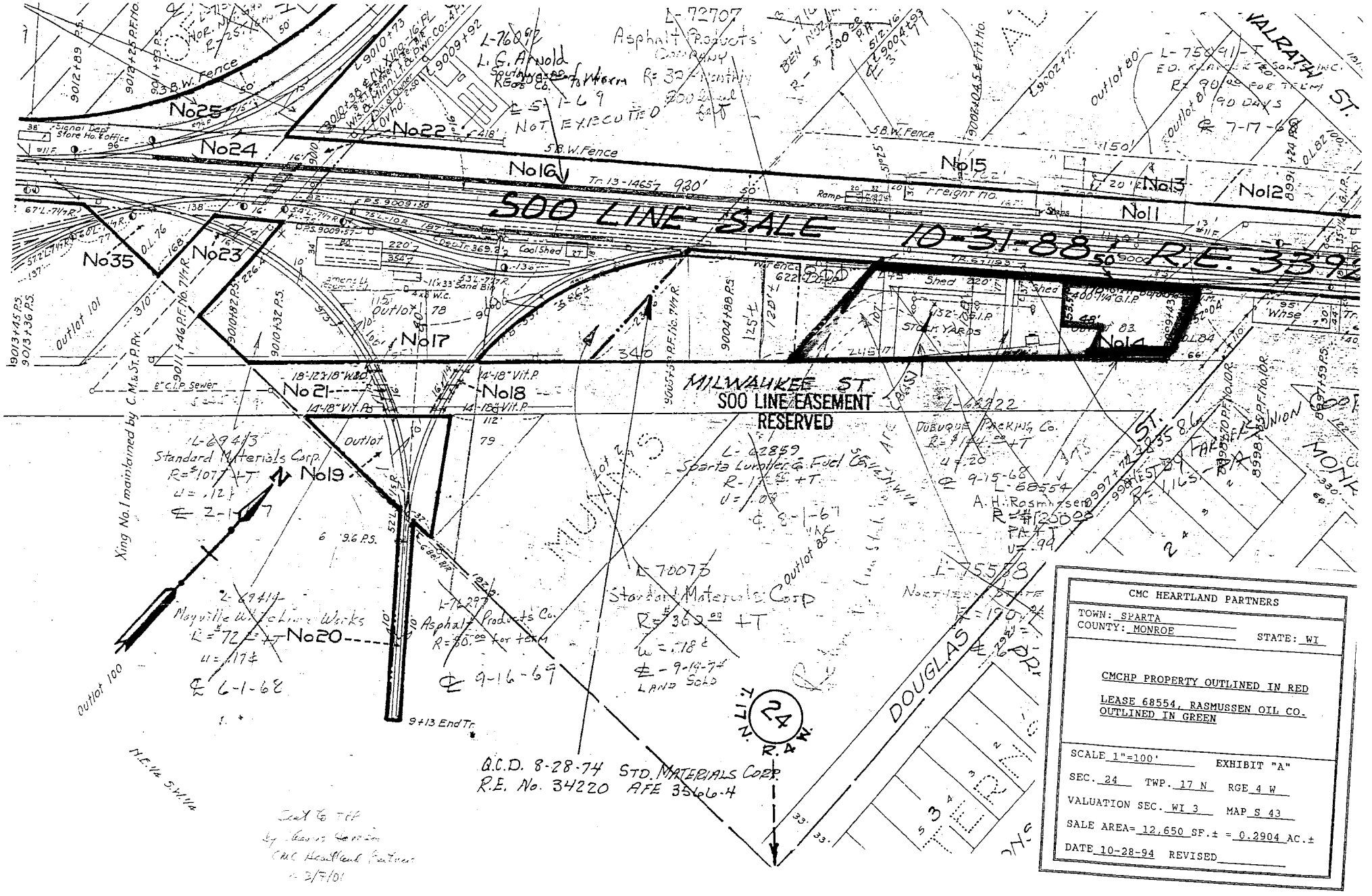
122
96
110
16.5
49.5
181.5


SOO LINE SALE 10-31-88 R.E. 3392
MILWAUKEE ST
SOO LINE EASEMENT RESERVED
DOUGLAS ST.
VALRATH ST.
No 25
No 24
No 22
No 16
No 15
No 13
No 12
No 11
No 35
No 23
No 17
No 21
No 18
No 19
No 20
No 14
Xing No.1 maintained by C.M.&St.P.Ry.
Outlot 101
Outlot 100
Outlot 85
Outlot 80
Outlot 78
Outlot 83
Outlot
Signal Dept Store Ho. & office
Freight Ho.
Cool Shed
Shed
Stock Yards
Whse
Ramp
5 B.W. Fence
Standard Materials Corp.
Mayville White Lime Works
Asphalt Products Co.
Sparta Lumber & Fuel Co.
Dubuque Packing Co.
A. H. Rasmussen
L. G. Arnold
Asphalt Products Company
Not Executed
Land Sold
Q.C.D. 8-28-74 STD. MATERIALS CORP.
R.E. No. 34220 AFE 3566-4
24
T. 17 N.
R. 4 W.
N.E. 1/4 S.W. 1/4
9+13 End Tr.
CMC HEARTLAND PARTNERS
TOWN: SPARTA
COUNTY: MONROE
STATE: WI
CMCHP PROPERTY OUTLINED IN RED
LEASE 68554, RASMUSSEN OIL CO. OUTLINED IN GREEN
SCALE 1"=100'
EXHIBIT "A"
SEC. 24 TWP. 17 N RGE 4 W
VALUATION SEC. WI 3 MAP S 43
SALE AREA= 12,650 SF.± = 0.2904 AC.±
DATE 10-28-94 REVISED

Rasmussen Oil LAST Site Property, Sparta, WI, Monroe County

Parcel Identification Number

281-020-083-002

Table 1
Groundwater Quality Test Results
Rasmussen Oil Bulk Facility

Monitoring Well MW-4
PVC Elevation = 787.06'
Well Screen Elevation Top = 782.38'
Well Screen Elevation Bottom = 772.38'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	776.60	<10	<10	*634*	*448*	*9430*	**2322**	**511**	<0.89	<0.99	49000	24600
07/11/96	777.05	<20	<20	**753**	*386*	*9360*	**2389**	**589**	<0.89	<0.99	21000	21000
02/16/99	775.97	<20	<20	**960**	*230*	*7600*	**2280**	**310**	<0.36	<0.30	12000	19000
06/17/99	777.21	<10	<10	*500*	140	*4600*	**1560**	**180**	<0.90	<0.75	25000	12000
10/9/00	776.18	<40	<40	*680*	130	*5800*	**1700**	**300**	<0.12	<0.16	20000	10000

Note: Bold type indicates an ES exceedance, italics indicate a PAL exceedance.

Monitoring Well MW-5
PVC Elevation = 785.65'
Well Screen Elevation Top = 780.50'
Well Screen Elevation Bottom = 770.50'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	775.65	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	**1.1**	<0.99	160	<50
07/11/96	776.065	<0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	<0.89	<0.99	<29	<30
02/16/99	774.92	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	*0.077*	*0.061*	<26	<30
06/17/99	776.23	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.24	*0.028*	*0.040*	<26	<30
10/9/00	775.20	<0.40	<0.40	<0.40	<0.40	<1.10	<0.80	<0.30	*0.080*	*0.080*	- - -	<14

Note: Bold type indicates an ES exceedance, italics indicate a PAL exceedance.

Table 1 Continued
Groundwater Quality Test Results
Rasmussen Oil Bulk Facility

Monitoring Well MW-6
PVC Elevation = 786.50'
Well Screen Elevation Top = 779.89'
Well Screen Elevation Bottom = 769.89'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	775.21	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	**0.28**	**0.41**	56	<50
07/11/96	775.63	0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	*0.18*	<0.099	<29	<30
02/16/99	774.49	<0.20	<0.20	<0.30	<0.20	1.7	<0.60	<0.23	*0.071*	*0.068*	<26	<30
06/17/99	775.80	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	<0.018	<0.015	<26	<30
10/9/00	Not	Sampled	Dry									

Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Monitoring Well MW-7
PVC Elevation = 787.74
Well Screen Elevation Top = 780.54'
Well Screen Elevation Bottom = 770.54'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	777.17	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	<0.089	<0.099	40	<50
07/11/96	777.83	<0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	<0.089	<0.099	<29	<30
02/16/99	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -
06/17/99	778.00	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	<0.018	<0.015	<26	<30
10/9/00	776.93	<0.40	<0.40	<0.40	<0.40	<1.10	<0.80	<0.30	<0.012	<0.016	- - -	<14

Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Table 1 Continued
Groundwater Quality Test Results
Rasmussen Oil Bulk Facility

Monitoring Well MW-8
PVC Elevation = 786.92
Well Screen Elevation Top = 780.26'
Well Screen Elevation Bottom = 770.26'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	775.615	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	**1.3**	<0.99	<29	<50
07/11/96	776.04	<0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	<0.45	<0.50	<29	<30
02/16/99	774.91	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	<0.018	<0.015	<26	<30
06/17/99	776.21	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	*0.094*	*0.086*	<26	<30
10/9/00	775.22	<0.40	<0.40	<0.40	<0.40	<1.10	<0.80	<0.30	<0.012	<0.016	- - -	<14

Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Monitoring Well MW-9
PVC Elevation = 786.68
Well Screen Elevation Top = 779.90'
Well Screen Elevation Bottom = 769.90'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	775.76	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	**3.4**	**2.2**	110	<50
07/11/96	776.18	<0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	**0.97**	**0.64**	<29	<30
02/16/99	775.03	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	*0.098*	*0.095*	<26	<30
06/17/99	776.33	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	*0.13*	*0.12*	<26	<30
10/9/00	775.34	<0.40	<0.40	<0.40	<0.40	1.1	<0.80	<0.30	0.016	0.017	- - -	<14

Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Table 1 Continued
Groundwater Quality Test Results
Rasmussen Oil Bulk Facility

Monitoring Well P-11
PVC Elevation = 786.54'
Well Screen Interval Top = 752.00'
Well Screen Interval Bottom = 747.00'

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-Benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
03/29/96	775.70	<0.2	<0.2	<0.2	<0.2	<0.6	<0.5	<0.3	<0.089	**0.32**	33	<50
07/11/96	776.12	<0.2	<0.2	<0.2	<0.2	<0.6	<0.11	<0.8	<0.089	<0.099	<29	<30
02/16/99	774.98	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	<0.018	<0.015	<26	<30
06/17/99	776.27	<0.20	<0.20	<0.30	<0.20	<0.90	<0.60	<0.23	<0.018	<0.015	<26	<30
10/9/00	775.28	<0.40	<0.40	<0.40	<0.40	<1.1	<0.80	<0.30	<0.012	<0.016	- - -	<14

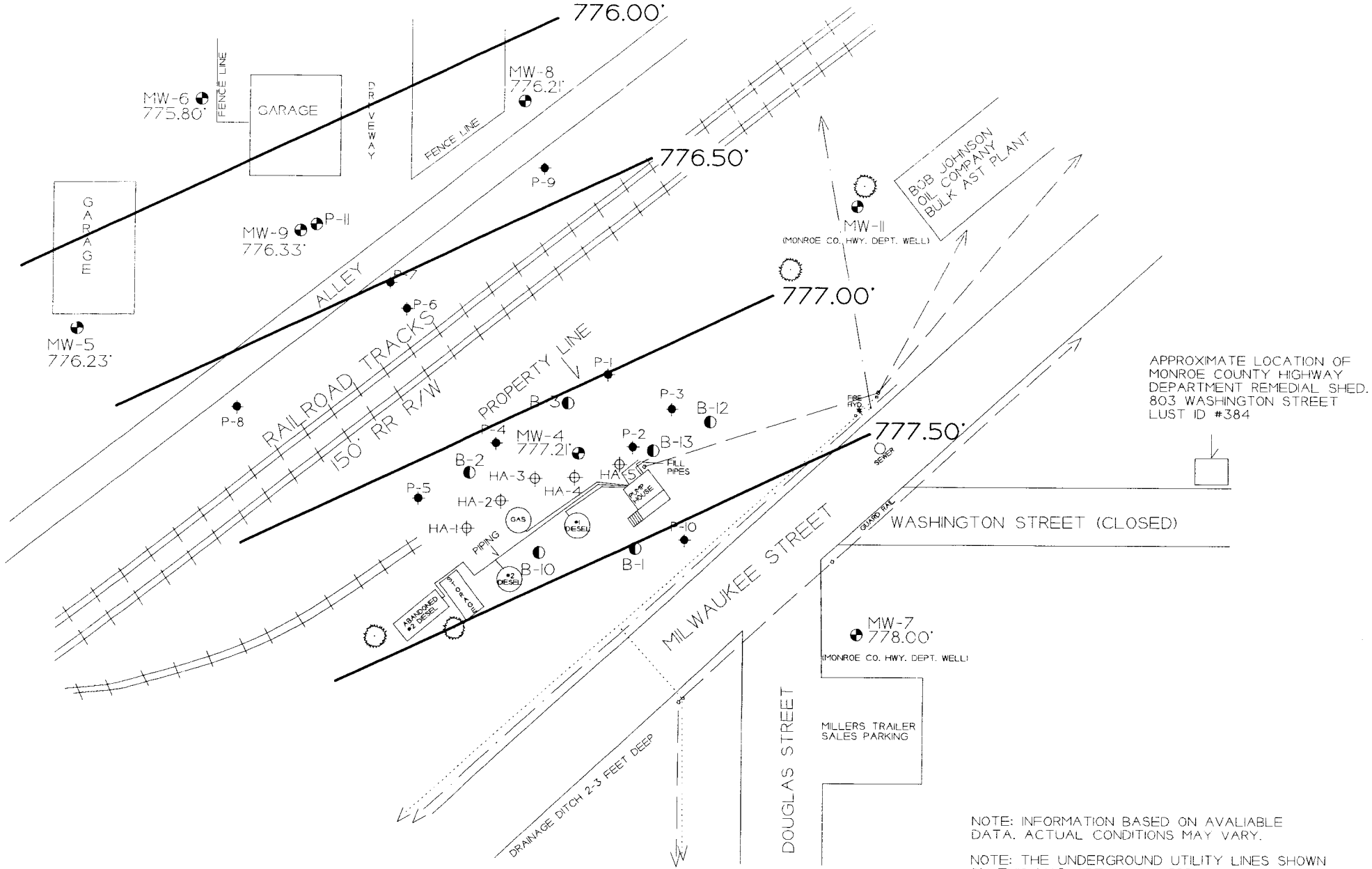
Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Monitoring Well MW-11
PVC Elevation = - - -
Well Screen Interval Top = - - -
Well Screen Interval Bottom = - - -

Date	Water Elevation (feet)	MtBE (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylene (ppb)	Trimethyl-Benzenes (ppb)	Naphthalene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	DRO (ppb)	GRO (ppb)
10/9/00	- - -	<0.40	<0.40	<0.40	<0.40	<1.10	<0.80	<0.30	<0.012	<0.016	<18	<14

Note: **Bold** type indicates an ES exceedance, *italics* indicate a PAL exceedance.

Special Notes: Samples taken on 3/29/96 and 7/11/96 are pre-remedial sample rounds.
Samples taken on 2/16/99, 6/17/99 and 10/9/00 are samples taken during the remedial phase of the project.



NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.

LEGEND

- ⊕ - HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- ◆ - GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- ○ - TREES/BUSHES
- ◕ - MONITORING WELL LOCATIONS
- ◐ - BORING LOCATION
- — · — = BURIED WATER LINE
- ····· = BURIED PHONE LINE
- — — = OVERHEAD UTILITIES

GROUNDWATER ELEVATION CONTOUR MAP - 06/17/99

RASMUSSEN OIL BULK TANK FACILITY

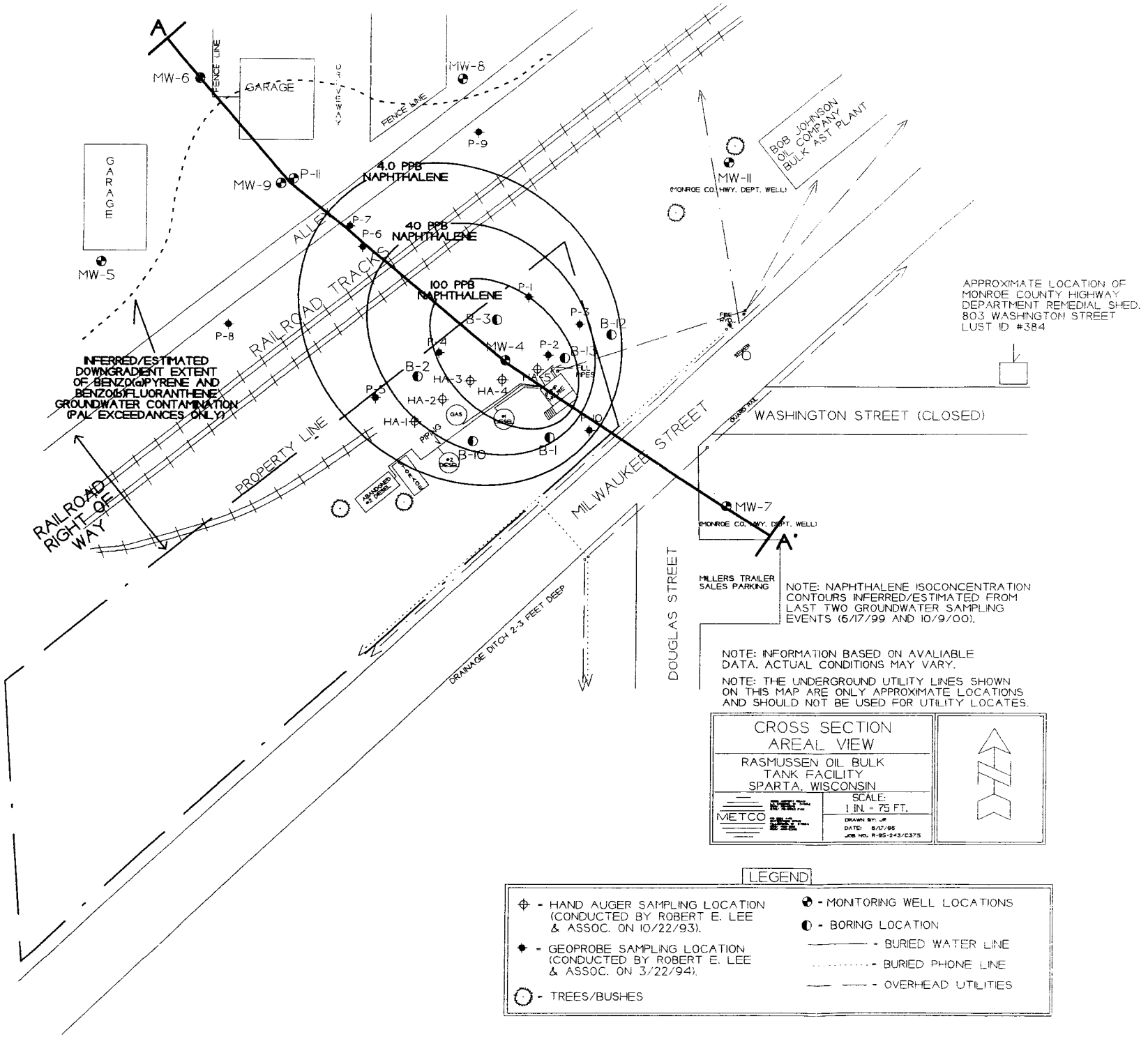
SPARTA, WISCONSIN

METCO

SCALE: 1 IN. = 60 FT.

DRAWN BY: JR
DATE: 6/17/96
JOB NO.: R-95-243/C375

B-9


A
A'
MW-6
FENCE LINE
GARAGE
DRIVEWAY
MW-8
FENCE LINE
P-9
GARAGE
MW-9
P-11
4.0 PPB NAPHTHALENE
40 PPB NAPHTHALENE
100 PPB NAPHTHALENE
P-7
P-6
ALLEY
RAILROAD TRACKS
MW-5
P-8
INFERRED/ESTIMATED DOWNGRADIENT EXTENT OF BENZO(a)PYRENE AND BENZO(b)FLUORANTHENE GROUNDWATER CONTAMINATION (PAL EXCEEDANCES ONLY)
PROPERTY LINE
RAILROAD RIGHT OF WAY
P-1
P-3
B-3
B-12
P-4
MW-4
P-2
B-13
B-2
HA-3
HA-4
HA-5
P-5
HA-2
HA-1
GAS
PIPING
B-10
B-1
P-10
ABANDONED #2 DIESEL
MILWAUKEE STREET
MW-11
(MONROE CO. HWY. DEPT. WELL)
BOB JOHNSON OIL COMPANY BULK AST PLANT
APPROXIMATE LOCATION OF MONROE COUNTY HIGHWAY DEPARTMENT REMEDIAL SHED. 803 WASHINGTON STREET LUST ID #384
WASHINGTON STREET (CLOSED)
MW-7
(MONROE CO. HWY. DEPT. WELL)
MILLERS TRAILER SALES PARKING
DOUGLAS STREET
DRAINAGE DITCH 2-3 FEET DEEP
NOTE: NAPHTHALENE ISOCONCENTRATION CONTOURS INFERRED/ESTIMATED FROM LAST TWO GROUNDWATER SAMPLING EVENTS (6/17/99 AND 10/9/00).
NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.
NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.
CROSS SECTION
AREAL VIEW
RASMUSSEN OIL BULK TANK FACILITY
SPARTA, WISCONSIN
METCO
SCALE: 1 IN. = 75 FT.
DRAWN BY: JR
DATE: 6/17/98
JOB NO: R-95-243/C375
LEGEND
- HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- TREES/BUSHES
- MONITORING WELL LOCATIONS
- BORING LOCATION
- BURIED WATER LINE
- BURIED PHONE LINE
- OVERHEAD UTILITIES

CROSS SECTION
RASMUSSEN OIL BULK TANK FACILITY

METCO

SPARTA, WISCONSIN

DRAWN BY: JR
DATE: 5/2/97
JOB NO.: R-95-243/C375

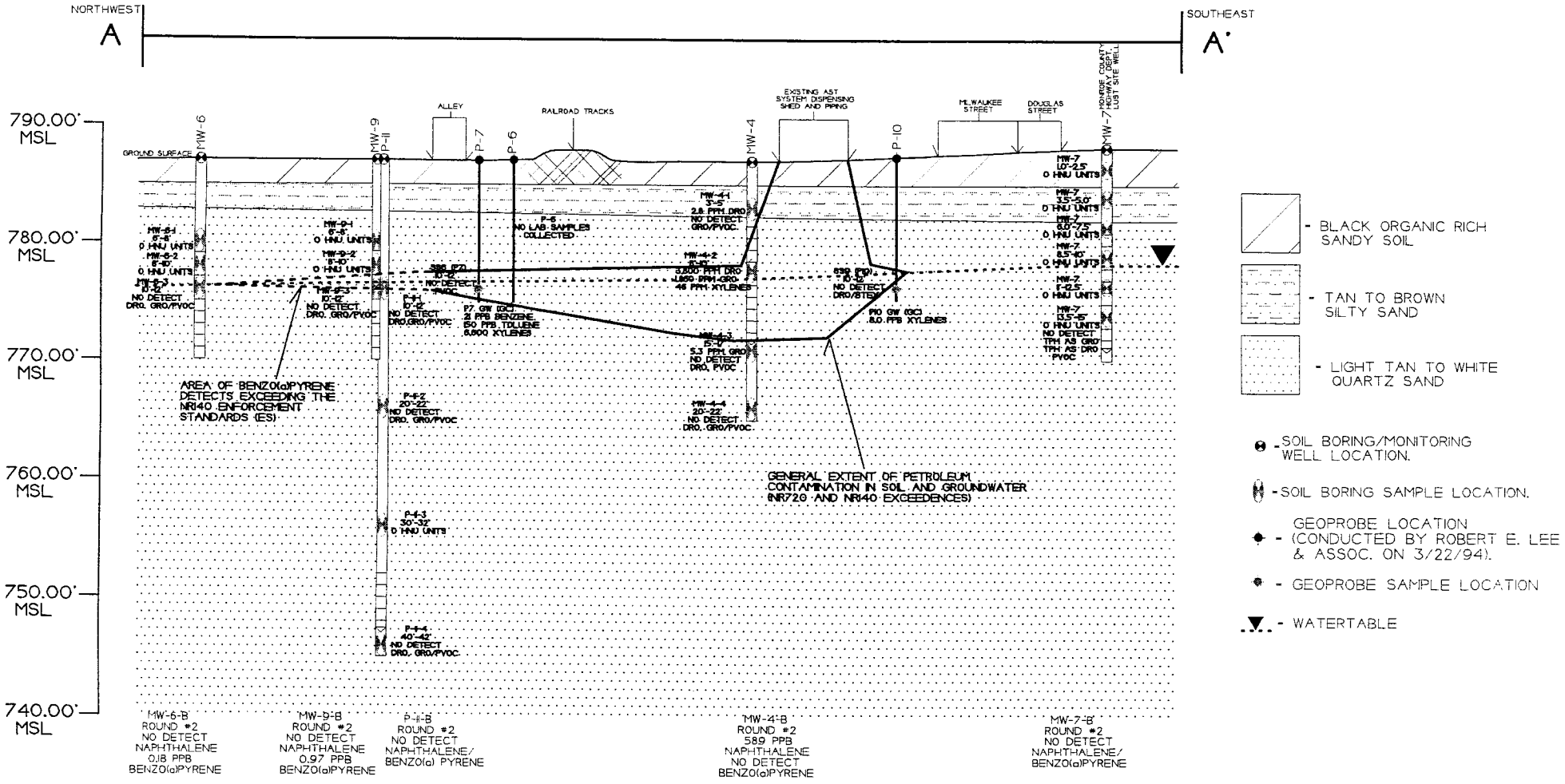
NOTE: HORIZONTAL SCALE: 1 INCH = 65 FEET
VERTICAL SCALE: 1 INCH = 1.3 FEET

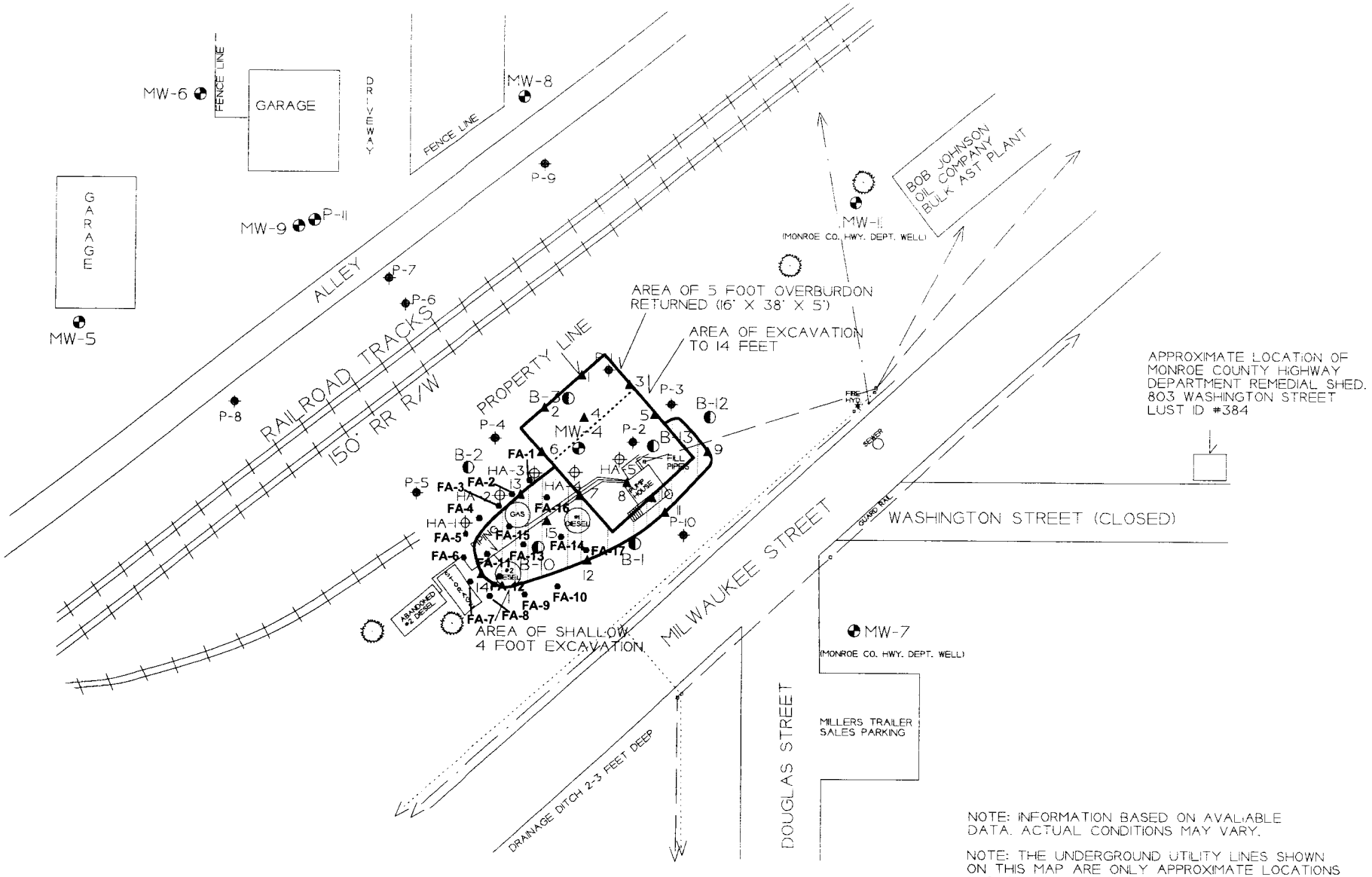
NOTE: ALL SOIL/BEDROCK SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

NOTE: ALL GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

NOTE: INFORMATION IS BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: GROUNDWATER FLOW IS GENERALLY TOWARDS THE NORTHWEST.





NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.

LEGEND

- ⊕ = HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- ◆ = GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- ○ = TREES/BUSHES
- ◕ = MONITORING WELL LOCATIONS
- ◐ = BORING LOCATION
- ▲ = EXCAVATION SAMPLE LOCATION
- —— · —— = BURIED WATER LINE
- ····· = BURIED PHONE LINE
- —— —— = OVERHEAD UTILITIES

EXCAVATION MAP

RASMUSSEN OIL BULK TANK FACILITY

SPARTA, WISCONSIN

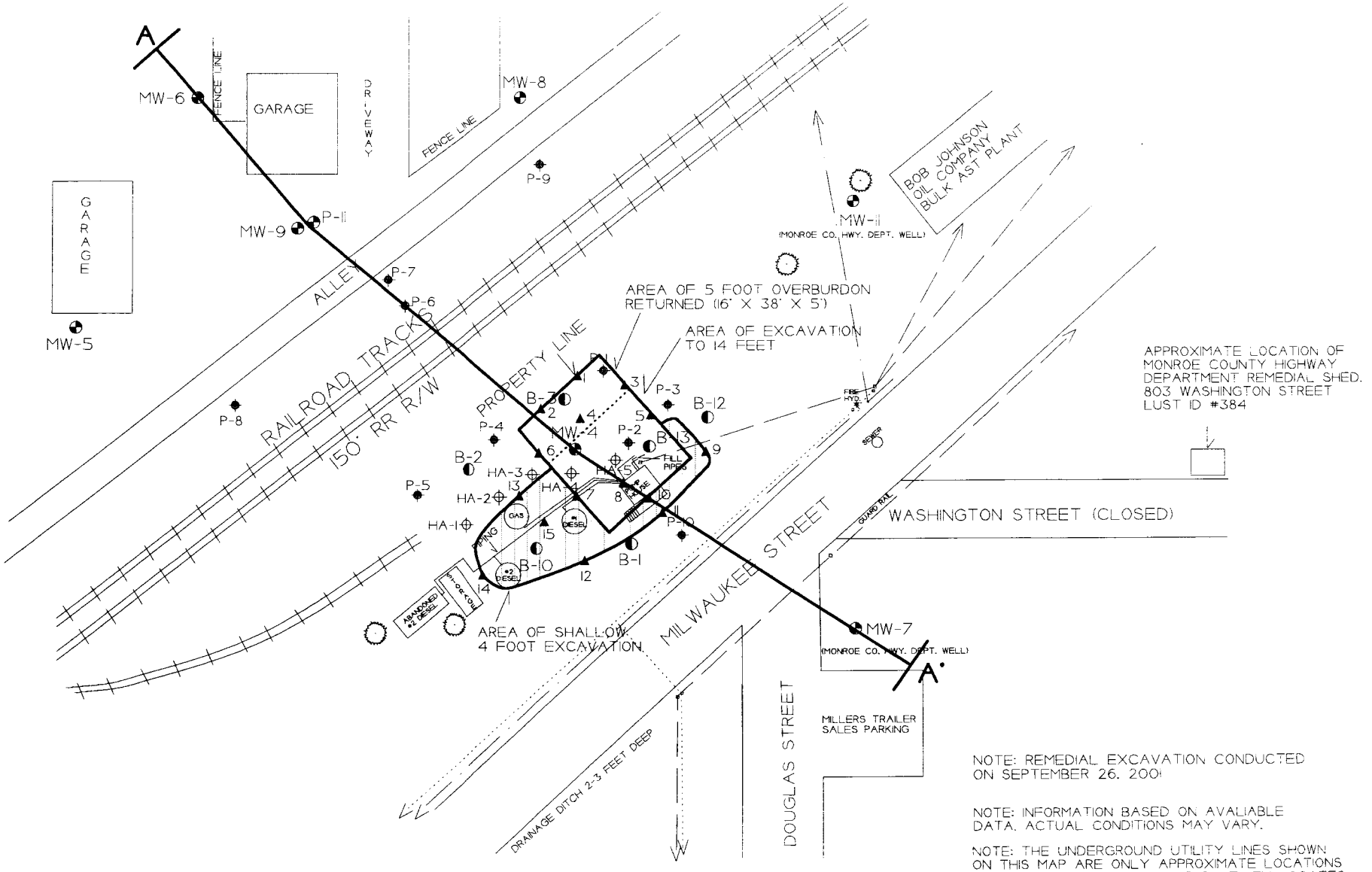
METCO

SCALE: 1 IN. = 65 FT.

DRAWN BY: JR

DATE: 6/17/96

JOB NO.: R-95-243/C375



NOTE: REMEDIAL EXCAVATION CONDUCTED ON SEPTEMBER 26, 2001

NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.

LEGEND

- ⊕ = HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- ◆ = GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- ○ = TREES/BUSHES
- ◉ = MONITORING WELL LOCATIONS
- ◐ = BORING LOCATION
- ▲ = EXCAVATION SAMPLE LOCATION
- — · — = BURIED WATER LINE
- ····· = BURIED PHONE LINE
- — — = OVERHEAD UTILITIES

EXCAVATION MAP

RASMUSSEN OIL BULK TANK FACILITY

SPARTA, WISCONSIN

METCO

SCALE: 1 IN. = 65 FT.

DRAWN BY: JR
DATE: 6/17/96
JOB NO.: R-95-243/C375

EXCAVATION CROSS SECTION (9/26/01)

RASMUSSEN OIL
BULK TANK FACILITY

METCO

SPARTA, WISCONSIN

DRAWN BY: JR
DATE: 5/2/97
JOB NO.: R-95-243/C375

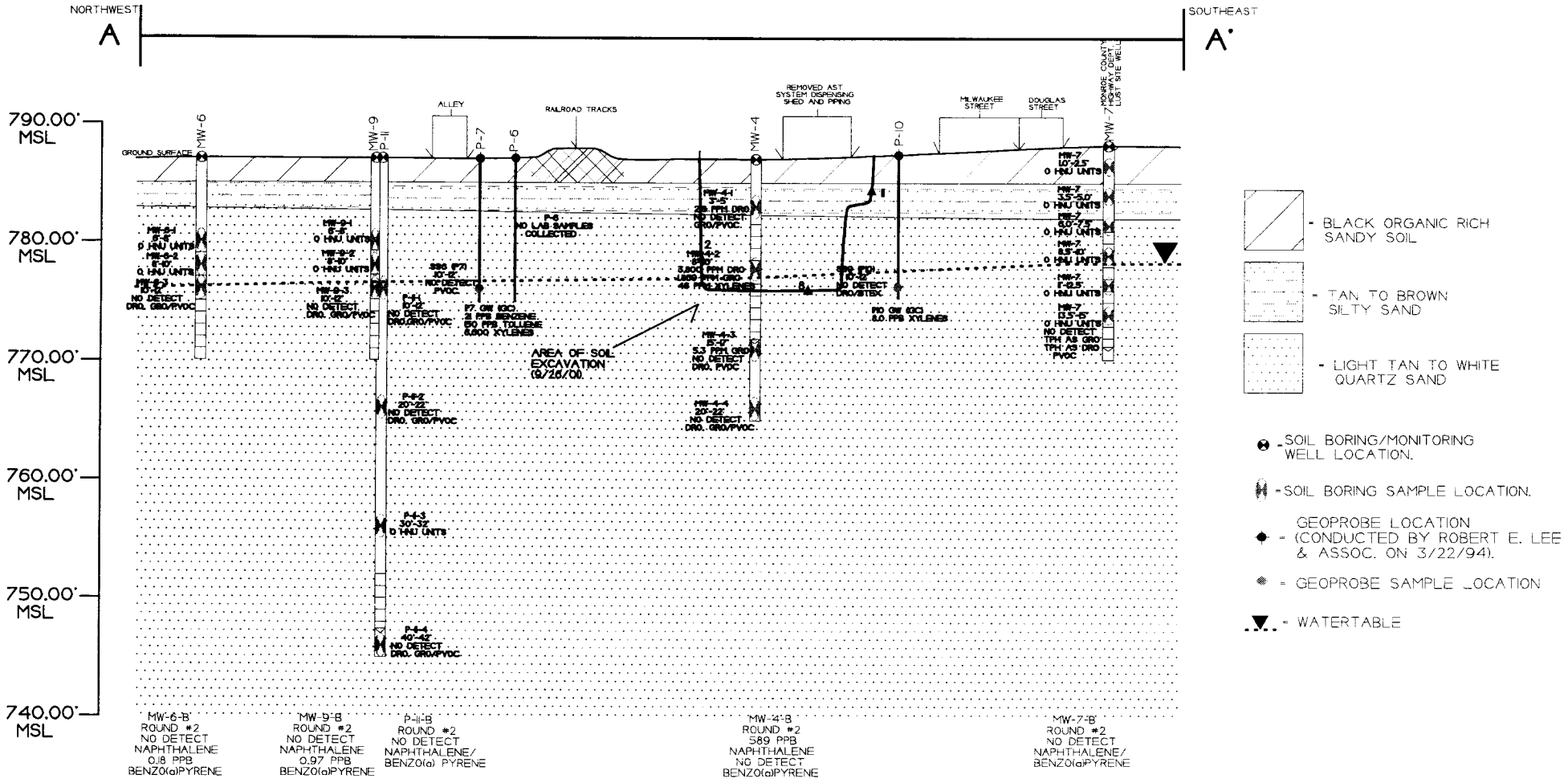
NOTE: HORIZONTAL SCALE: 1 INCH = 65 FEET
VERTICAL SCALE: 1 INCH = 16.25 FEET

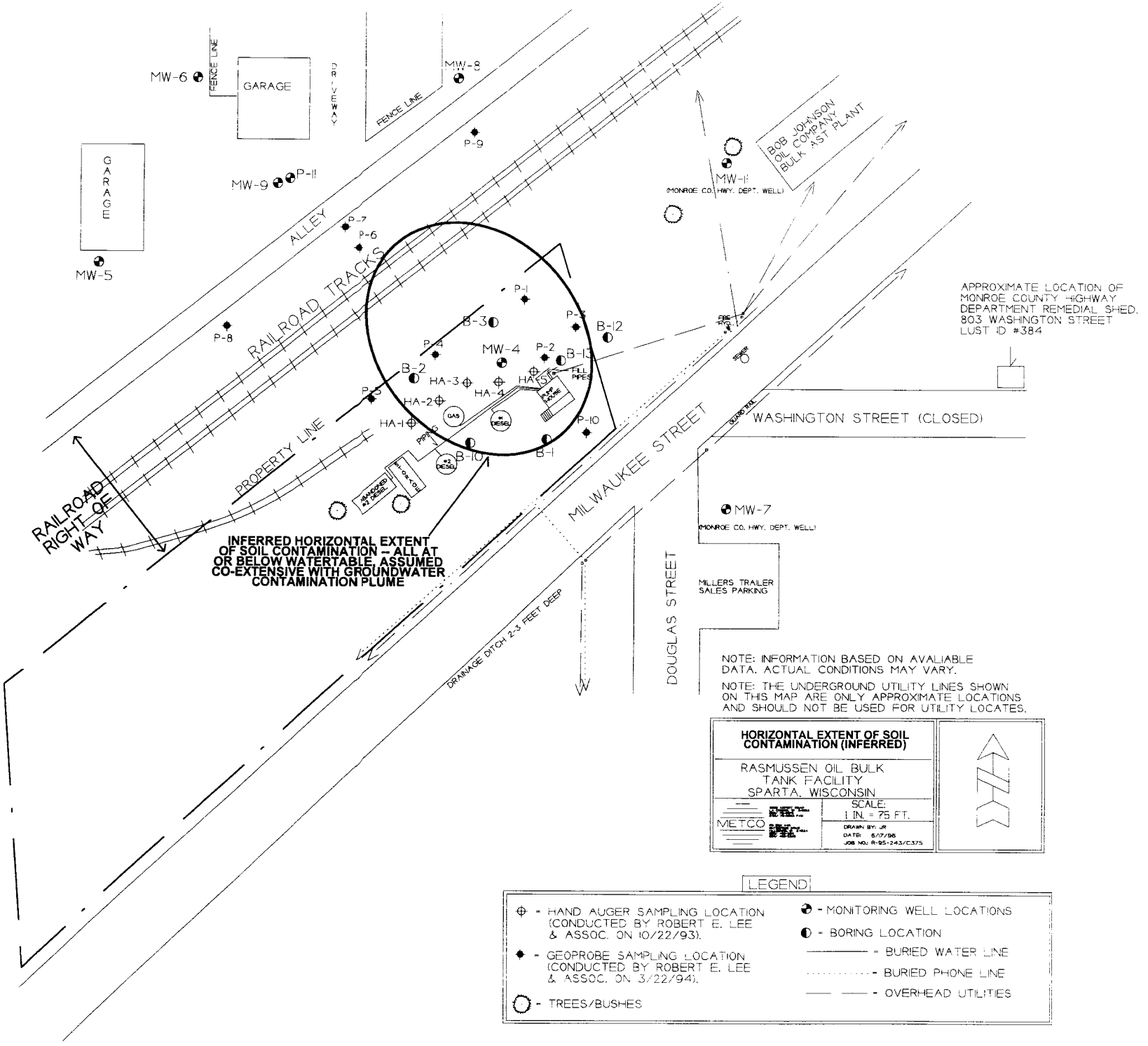
NOTE: ALL SOIL/BEDROCK SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

NOTE: ALL GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

NOTE: INFORMATION IS BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY VARY.

NOTE: GROUNDWATER FLOW IS GENERALLY TOWARDS THE NORTHWEST.





MW-6
FENCE LINE
GARAGE
DRIVEWAY
MW-8
FENCE LINE
P-9
GARAGE
MW-9
P-11
MW-5
ALLEY
P-7
P-6
RAILROAD TRACKS
P-8
P-1
B-3
P-3
B-12
P-4
MW-4
P-2
B-13
B-2
HA-3
HA-4
HA-5
FILL PIPES
P-5
HA-2
HA-1
GAS
#1 DIESEL
PUMP HOUSE
P-10
PIPING
B-10
B-1
#2 DIESEL
ABANDONED #2 DIESEL
PROPERTY LINE
RAILROAD RIGHT OF WAY
INFERRED HORIZONTAL EXTENT OF SOIL CONTAMINATION -- ALL AT OR BELOW WATERTABLE, ASSUMED CO-EXTENSIVE WITH GROUNDWATER CONTAMINATION PLUME
MILWAUKEE STREET
DOUGLAS STREET
DRAINAGE DITCH 2-3 FEET DEEP
MW-11
(MONROE CO. HWY. DEPT. WELL)
BOB JOHNSON OIL COMPANY BULK AST PLANT
FIRE HYD.
SEWER
GUARD RAIL
WASHINGTON STREET (CLOSED)
APPROXIMATE LOCATION OF MONROE COUNTY HIGHWAY DEPARTMENT REMEDIAL SHED. 803 WASHINGTON STREET LUST ID #384
MW-7
(MONROE CO. HWY. DEPT. WELL)
MILLERS TRAILER SALES PARKING
NOTE: INFORMATION BASED ON AVALIABLE DATA. ACTUAL CONDITIONS MAY VARY.
NOTE: THE UNDERGROUND UTILITY LINES SHOWN ON THIS MAP ARE ONLY APPROXIMATE LOCATIONS AND SHOULD NOT BE USED FOR UTILITY LOCATES.
HORIZONTAL EXTENT OF SOIL CONTAMINATION (INFERRED)
RASMUSSEN OIL BULK TANK FACILITY
SPARTA, WISCONSIN
METCO
SCALE: 1 IN. = 75 FT.
DRAWN BY: JR
DATE: 6/17/96
JOB NO.: R-95-243/C375
LEGEND
- HAND AUGER SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 10/22/93).
- GEOPROBE SAMPLING LOCATION (CONDUCTED BY ROBERT E. LEE & ASSOC. ON 3/22/94).
- TREES/BUSHES
- MONITORING WELL LOCATIONS
- BORING LOCATION
- BURIED WATER LINE
- BURIED PHONE LINE
- OVERHEAD UTILITIES

Robert E. Lee & Associates Sampling Results

Soil Sample Analysis
Date Sampled: October 22, 19993

Sample Number	Sample Depth, ft.	Parameter	Analytical Results mg/kg
HA-1	5.5	GRO	**938**
HA-2	5.5	DRO	**42,800**

BTEX ANALYSIS RESULTS FROM THE RASMUSSEN OIL, 706 MILWAUKEE ST., SPARTA, WI

Geoprobe Project groundwater results from portable G-C Laboratory (PID analysis) 3/22/94

BORING#	DEPTH	B (PPB)	T (PPB)	EB (PPB)	MPX (PPB)	OX (PPB)	TOTALBTEX (PPB)
1	GW	230	4400	7100	13000	12000	36730
2	GW	200	950	6400	13000	9600	30150
3	GW						
5	GW		13	30	290	200	533
7	GW	21	150		4100	2500	6771
8	GW	<1	<1		<1		<1
9	GW	<1	<1		<1		<1
10	GW		<1		<1	8	8

B - BENZENE
T - TOLUENE
EB - EHTYLBENZE
MPX - META, PARAXYLENE

BLANK CELL - UNKNOWN DETECTION LIMIT
GW - GROUNDWATER
PPB - PARTS PER BILLION
OX - ORTHOXYLENE

Rasmussen Oil Company

Geoprobe Project soil sample results (Laboratory analysis) 3/22/94

SOIL SAMPLE	PARAMETERS (ug/kg)							
	DRO (mg/kg)	Benzene	Ethylbenzene	MtBE	Toluene	1,2,4-TMB	1,3,5-TMB	Xylene
SS1 (P1 6-8)	**350**		6.3					
SS2 (P1 10-12)	**6,000**	==	==	==	==	==	==	==
SS3 (P2 6-8)								
SS4 (P3 10-12)								
SS5 (P5 10-12)	==							
SS6 (P7 10-12)	==							
SS7 (P8 10-12)	==							
SS8 (P9 10-12)	==							
SS9 (P10 10-12)	==							

NOTES: METCO Data Table Reproduction of Robert E. Lee Report.
BOLD type indicates ES exceedence; *ITALICS* indicate PAL exceedences.
Blank cells indicate unknown detection limit.

DRILLING PROJECT DATA TABLE FOR RASMUSSEN OIL BULK TANK FACILITY LEAKING AST INVESTIGATION
BY METCO
JUNE 17, 1996

SAMPLING CONDUCTED ON DECEMBER 4-6, 1995

SOIL SAMPLES

Sample Location Number	B-1-1	B-1-2	B-1-3	B-2-1	B-2-2	B-2-3	B-3-1	B-3-2	B-3-3	MW-4-1	MW-4-2	MW-4-3	MW-4-4
Sample Depth in Feet	3-5	8-10	10-12	3-5	8-1	10-12	3-5	8-10	10-12	3-5	8-10	15-17	20-22
Soil Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Petroleum Odors	None	None	None	None	None	None	None	**Yes**	**Yes**	**Yes**	**Yes**	**Slight**	None
Petroleum Staining	None	None	None	None	None	None	None	**Yes**	**Yes**	None	None	None	None
Moisture	Moist	Wet	Wet	Moist	Moist	Wet	Moist	Moist	Wet	Moist	Moist	Wet	Wet
HNU in Units	0	==	0	0	0	==	==	==	==	==	==	==	==
Lab Sample Collected?	No	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Diesel Range Organics/ppm	==	<1.5	==	==	==	<1.4	<1.5	**3000**	**12000**	2.8	**3800**	<1.5	<1.5
Gasoline Range Organics/ppm	==	<1.0	==	==	==	<1.0	<1.0	**2220**	==	<1.0	**1860**	5.3	<1.0
LUST Total Percent Solids/%	==	86.1	==	==	==	96.2	88.6	93.3	96.0	96.7	94.9	84.5	85.9
Total Lead/ppm	==	==	==	==	==	==	==	==	**9.08**	==	==	==	==
Benzene/ppm	==	<0.025	==	==	==	<0.025	<0.025	<0.25	<5.0	<0.025	<1.2	<0.025	<0.025
Bromobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Bromodichloromethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
n-Butylbenzene/ppm	==	==	==	==	==	==	==	==	149	==	==	==	==
sec-Butylbenzene/ppm	==	==	==	==	==	==	==	==	16	==	==	==	==
tert-Butylbenzene/ppm	==	==	==	==	==	==	==	==	<5.0	==	==	==	==
Carbon tetrachloride/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Chlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Chloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Chloroform/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Chloromethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
2-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
4-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Chlorodibromomethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2-Dibromo-3-Chloropropane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2-Dibromoethane(EDB)/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,3-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,4-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Dichlorodifluoromethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,1-Dichloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2-Dichloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,1-Dichloroethene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
cis-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
trans-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,3-Dichloropropane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
2,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Diisopropyl ether/ppm	==	==	==	==	==	==	==	==	<5.0	==	==	==	==
Ethylbenzene/ppm	==	<0.025	==	==	==	<0.025	<0.025	**6.3**	<5.0	<0.025	**2.2**	<0.025	<0.025
Hexachlorobutadiene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Isopropylbenzene/ppm	==	==	==	==	==	==	==	==	<5.0	==	==	==	==
p-Isopropyltoluene/ppm	==	==	==	==	==	==	==	==	<5.0	==	==	==	==
Dichloromethane/ppm	==	==	==	==	==	==	==	==	<1.0	==	==	==	==
Methyl-tert-butyl ether/ppm	==	<0.025	==	==	==	<0.025	<0.025	<0.25	<5.0	<0.025	<1.2	<0.025	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	**65**	==	==	==	==
n-Propylbenzene/ppm	==	==	==	==	==	==	==	==	<5.0	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Tetrachloroethene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Toluene/ppm	==	<0.025	==	==	==	<0.025	<0.025	<0.25	<5.0	<0.025	<1.2	<0.025	<0.025
1,2,3-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2,4-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,1,1-Trichloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,1,2-Trichloroethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Trichloroethene/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
Trichlorofluoromethane/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
1,2,4-Trimethylbenzene/ppm	==	<0.025	==	==	==	<0.025	<0.025	**114**	**339**	<0.025	**91**	0.088	<0.025
1,3,5-Trimethylbenzene/ppm	==	<0.025	==	==	==	<0.025	<0.025	**46**	**102**	<0.025	**29**	<0.025	<0.025
Vinyl chloride/ppm	==	==	==	==	==	==	==	==	<0.50	==	==	==	==
m&p-Xylene/ppm	==	<0.025	==	==	==	<0.025	<0.025	**57**	**188**	<0.025	**30**	<0.025	<0.025
o-Xylene/ppm	==	<0.025	==	==	==	<0.025	<0.025	**32**	**149**	<0.025	**16**	<0.025	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	<19	==	==	==	==
Acenaphthylene/ppm	==	==	==	==	==	==	==	==	<7.9	==	==	==	==
1-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	55	==	==	==	==
2-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	56	==	==	==	==
Acenaphthene/ppm	==	==	==	==	==	==	==	==	<11	==	==	==	==
Fluorene/ppm	==	==	==	==	==	==	==	==	<0.98	==	==	==	==
Phenanthrene/ppm	==	==	==	==	==	==	==	==	14	==	==	==	==
Anthracene/ppm	==	==	==	==	==	==	==	==	<0.83	==	==	==	==
Fluoranthene/ppm	==	==	==	==	==	==	==	==	<0.13	==	==	==	==
Pyrene/ppm	==	==	==	==	==	==	==	==	<0.29	==	==	==	==
Benzo (a) Anthracene/ppm	==	==	==	==	==	==	==	==	0.074	==	==	==	==
Chrysene/ppm	==	==	==	==	==	==	==	==	<0.25	==	==	==	==
Benzo (b) Fluoranthene/ppm	==	==	==	==	==	==	==	==	<0.067	==	==	==	==
Benzo (k) Fluoranthene/ppm	==	==	==	==	==	==	==	==	<0.079	==	==	==	==
Benzo (a) Pyrene/ppm	==	==	==	==	==	==	==	==	<0.21	==	==	==	==
Dibenzo (a,h) Anthracene/ppm	==	==	==	==	==	==	==	==	<0.38	==	==	==	==
Benzo (ghi) Perylene/ppm	==	==	==	==	==	==	==	==	<0.38	==	==	==	==
Indeno (1,2,3-cd) Pyrene/ppm	==	==	==	==	==	==	==	==	<0.17	==	==	==	==
# 4 Sieve/% Passing	==	==	==	100.0	100.0	==	==	==	==	==	==	100.0	==
# 10 Sieve/% Passing	==	==	==	98.1	100.0	==	==	==	==	==	==	100.0	==
# 20 Sieve/% Passing	==	==	==	87.4	99.3	==	==	==	==	==	==	99.7	==
# 40 Sieve/% Passing	==	==	==	55.5	53.8	==	==	==	==	==	==	87.6	==
# 60 Sieve/% Passing	==	==	==	30.3	15.1	==	==	==	==	==	==	54.9	==
# 80 Sieve/% Passing	==	==	==	20.4	3.5	==	==	==	==	==	==	26.8	==
# 100 Sieve/% Passing	==	==	==	19.1	2.3	==	==	==	==	==	==	18.5	==
# 200 Sieve/% Passing	==	==	==	14.2	0.2	==	==	==	==	==	==	1.1	==
Heterotrophic Plate Count	==	==	==	==	==	==	==	==	==	==	46000	==	==
Petroleum Hydrocarbon Degraders	==	==	==	==	==	==	==	==	==	==	4800	==	==
Percent Degraders	==	==	==	==	==	==	==	==	==	==	10.4	==	==
pH (Lab)	==	==	==	==	==	==	==	==	==	==	6.8	==	==
Total Organic Nitrogen	==	==	==	==	==	==	==	==	==	==	121.0	==	==
Phosphorus, Total (Solids/Sludge)	==	==	==	==	==	==	==	==	==	==	14	==	==

SOIL BORING DATA TABLE FOR RASMUSSEN OIL BULK TANK FACILITY LEAKING AST INVESTIGATION
BY METCO
JUNE 17, 1996

SAMPLING CONDUCTED ON DECEMBER 4-6, 1995

SOIL SAMPLES

Sample Location Number	B-10-1	B-10-2	B-10-3	P-11-1	P-11-2	P-11-3	P-11-4	B-12-1	B-12-2	B-12-3	B-13-1	B-13-2	B-13-3	METH BLANK
Sample Depth in Feet	3-5	8-10	10-12	10-12	20-22	30-32	40-42	2-4	5-7	10-12	3-5	8-10	10-12	==
Soil Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Silt/Sand	Sand	Sand	Silt/Sand	Sand	Sand	==
Petroleum Odors	None	None	None	None	None	None	None	None	None	None	Yes	Yes	Yes	==
Petroleum Staining	None	None	None	None	None	None	None	None	None	None	Yes	Yes	Yes	==
Moisture	Moist	Moist	Wet	Wet	Wet	Wet	Wet	Moist	Moist	Wet	Moist	Moist	Wet	==
HNU in Units	0	0	==	==	==	0	==	15	0	==	==	==	==	==
Lab Sample Collected?	No	No	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes
Diesel Range Organics/ppm	==	==	28	<1.6	<1.6	==	<1.6	==	==	<1.5	5800	3100	16000	==
Gasoline Range Organics/ppm	==	==	<1.0	<1.0	<1.0	==	<1.0	==	==	<1.0	947	2520	10200	<1.0
LUST Total Percent Solids/%	==	==	89.5	83.6	82.6	==	83.5	==	==	86.4	97.8	96.9	88.4	==
Total Lead/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	<1.2	<2.5	<0.025
Bromobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Bromodichloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
n-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
sec-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
tert-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Carbon tetrachloride/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chloroform/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
2-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
4-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chlorodibromomethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dibromo-3-Chloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dibromoethane(EDB)/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,3-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,4-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Dichlorodifluoromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,1-Dichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,1-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
cis-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
trans-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,3-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
2,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Diisopropyl ether/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Ethylbenzene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	3.7	36	<0.025
Hexachlorobutadiene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Isopropylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
p-Isopropyltoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Dichloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Methyl-tert-butyl ether/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	<1.2	<2.5	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
n-Propylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Tetrachloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Toluene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	<1.2	17	<0.025
1,2,3-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2,4-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,1,1-Trichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,1,2-Trichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Trichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Trichlorofluoromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1,2,4-Trimethylbenzene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	106	780	<0.025
1,3,5-Trimethylbenzene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	11	1.2	7.9	<0.025
Vinyl chloride/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
m&p-Xylene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	58	444	<0.025
o-Xylene/ppm	==	==	<0.025	<0.025	<0.025	==	<0.025	==	==	<0.025	<1.2	28	201	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Acenaphthylene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
1-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
2-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Acenaphthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Fluorene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Phenanthrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (a) Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Chrysene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (b) Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (k) Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (a) Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Dibenzo (a,h) Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (ghi) Perylene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Indeno (1,2,3-cd) Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==	==	==
# 4 Sieve/% Passing	==	==	==	==	==	==	100.0	==	==	==	==	==	==	==
# 10 Sieve/% Passing	==	==	==	==	==	==	99.9	==	==	==	==	==	==	==
# 20 Sieve/% Passing	==	==	==	==	==	==	99.4	==	==	==	==	==	==	==
# 40 Sieve/% Passing	==	==	==	==	==	==	84.8	==	==	==	==	==	==	==
# 60 Sieve/% Passing	==	==	==	==	==	==	50.0	==	==	==	==	==	==	==
# 80 Sieve/% Passing	==	==	==	==	==	==	22.5	==	==	==	==	==	==	==
# 100 Sieve/% Passing	==	==	==	==	==	==	15.7	==	==	==	==	==	==	==
# 200 Sieve/% Passing	==	==	==	==	==	==	0.9	==	==	==	==	==	==	==
Heterotrophic Plate Count	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Petroleum Hydrocarbon Degraders	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Percent Degraders	==	==	==	==	==	==	==	==	==	==	==	==	==	==
pH (Lab)	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Total Organic Nitrogen	==	==	==	==	==	==	==	==	==	==	==	==	==	==
Phosphorus, Total (Solids/Sludge)	==	==	==	==	==	==	==	==	==	==	==	==	==	==

DRILLING PROJECT DATA TABLE FOR RASMUSSEN OIL BULK TANK FACILITY LEAKING AST INVESTIGATION
BY METCO
JUNE 17, 1996

SAMPLING CONDUCTED ON DECEMBER 4-6, 1995

SOIL SAMPLES

Sample Location Number	MW-5-1	MW-5-2	MW-5-3	MW-6-1	MW-6-2	MW-6-3	MW-8-1	MW-8-2	MW-8-3	MW-9-1	MW-9-2	MW-9-3
Sample Depth in Feet	6-8	8-10	10-12	6-8	8-10	10-12	6-8	8-10	10-12	6-8	8-10	10-12
Soil Type	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Petroleum Odors	None	None	None	None	None	None	None	None	None	None	None	None
Petroleum Staining	None	None	None	None	None	None	None	None	None	None	None	None
Moisture	Moist	Moist	Wet	Moist	Moist	Wet	Moist	Moist	Wet	Moist	Moist	Wet
HNU in Units	0	0	0	0	0	==	0	0	==	0	0	==
Lab Sample Collected?	No	Yes	Yes	No	No	Yes	No	No	Yes	No	No	Yes
Diesel Range Organics/ppm	==	<1.4	==	==	==	<1.4	==	==	<1.4	==	==	<1.5
Gasoline Range Organics/ppm	==	<1.0	==	==	==	<1.0	==	==	<1.0	==	==	<1.0
LUST Total Percent Solids/%	==	95.9	==	==	==	91.5	==	==	92.4	==	==	85.4
Total Lead/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
Bromobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Bromodichloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
n-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
sec-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
tert-Butylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Carbon tetrachloride/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chloroform/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
2-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
4-Chlorotoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chlorodibromomethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dibromo-3-Chloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dibromoethane(EDB)/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,3-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,4-Dichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Dichlorodifluoromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,1-Dichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,1-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
cis-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
trans-1,2-Dichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,3-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
2,2-Dichloropropane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Diisopropyl ether/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Ethylbenzene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
Hexachlorobutadiene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Isopropylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
p-Isopropyltoluene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Dichloromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Methyl-tert-butyl ether/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
n-Propylbenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Tetrachloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Toluene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
1,2,3-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2,4-Trichlorobenzene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,1,1-Trichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,1,2-Trichloroethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Trichloroethene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Trichlorofluoromethane/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1,2,4-Trimethylbenzene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
1,3,5-Trimethylbenzene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
Vinyl chloride/ppm	==	==	==	==	==	==	==	==	==	==	==	==
m&p-Xylene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
o-Xylene/ppm	==	<0.025	==	==	==	<0.025	==	==	<0.025	==	==	<0.025
Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Acenaphthylene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
1-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
2-Methyl Naphthalene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Acenaphthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Fluorene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Phenanthrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (a) Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Chrysene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (b) Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (k) Fluoranthene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (a) Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Dibenzo (a,h) Anthracene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Benzo (ghi) Perylene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
Indeno (1,2,3-cd) Pyrene/ppm	==	==	==	==	==	==	==	==	==	==	==	==
# 4 Sieve/% Passing	==	==	100.0	==	==	100.0	==	==	100.0	==	==	100.0
# 10 Sieve/% Passing	==	==	99.7	==	==	99.9	==	==	100.0	==	==	100.0
# 20 Sieve/% Passing	==	==	99.3	==	==	99.2	==	==	99.8	==	==	100.0
# 40 Sieve/% Passing	==	==	83.5	==	==	81.5	==	==	94.3	==	==	98.7
# 60 Sieve/% Passing	==	==	46.8	==	==	50.6	==	==	68.6	==	==	88.2
# 80 Sieve/% Passing	==	==	19.9	==	==	21.9	==	==	32.6	==	==	42.0
# 100 Sieve/% Passing	==	==	14.0	==	==	16.2	==	==	22.9	==	==	31.7
# 200 Sieve/% Passing	==	==	1.0	==	==	1.4	==	==	1.5	==	==	1.2
Heterotrophic Plate Count	==	==	==	==	==	32000	==	==	==	==	==	30000
Petroleum Hydrocarbon Degraders	==	==	==	==	==	900	==	==	==	==	==	2300
Percent Degraders	==	==	==	==	==	2.8	==	==	==	==	==	7.7
pH (Lab)	==	==	==	==	==	7.3	==	==	==	==	==	7.8
Total Organic Nitrogen	==	==	==	==	==	18.5	==	==	==	==	==	14.5
Phosphorus, Total (Solids/Sludge)	==	==	==	==	==	31	==	==	==	==	==	40

Rasmussen Oil Bulk Tank Facility
Pre-Excavation Hand Sampling Data Table
(9/24/01)

Sample	FA-1	FA-2	FA-3	FA-4	FA-5	FA-6	FA-7	FA-8	FA-9	FA-10
Location	North Edge of Tank Basin	North Edge of Tank Basin	North Edge of Tank Basin	North Edge of Tank Basin	North Edge of Tank Basin	West Edge of Tank Basin	West Edge of Tank Basin	West Edge of Tank Basin	West Edge of Tank Basin	West Edge of Tank Basin
Depth (ft.)	2-3	2-3	2-3	2-3	2-3	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5	0.5-1.5
Field Assessment	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors	No Petroleum Odors

Sample	FA-11	FA-12	FA-13	FA-14	FA-15	FA-16	FA-17
Location	West Edge of Tank Basin	West Edge of Tank Basin	Central Area of Tank Basin	Central Area of Tank Basin	North Central Area of Tank Basin	North Central Area of Tank Basin	South Central Area of Tank Basin
Depth (ft.)	~1	~1	~1	~1	~1	~1	~1
Field Assessment	Strong Petroleum Odors	Strong Petroleum Odors	Strong Petroleum Odors	Strong Petroleum Odors	Light Petroleum Odors	Light Petroleum Odors	Light Petroleum Odors

Long-Term Observations
Pump House Area, North & East Sides Primarily
Surficial
Staining, Strong Petroleum Odors, Greasy Soil Particles

RASMUSSEN OIL BULK PLANT SOIL EXCAVATION DATA TABLE
BY METCO

SAMPLING CONDUCTED ON SETEMBER 26, 2001

SOIL SAMPLES

Sample Location Number	EX-1	EX-2	EX-3	EX-4	EX-5	EX-6	EX-7	EX-8	EX-9	EX-10	EX-11	EX-12	EX-13	EX-14	EX-15
Sampling Location	N. Wall	N. Wall	N.E. Wall	Bottom N.	E. Center Wall	N.W. Wall	W. Wall	Bottom S.	S.E. Wall	S. Wall	S. Wall	S.W. Wall	N.W. Wall	W.Wall	Bottom
Sample Depth in Feet	3	8	3	14	8	3	8	14	3	8	3	3	3	3	4
Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Sand	Sand	Sand	Silty Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Petroleum Odors	No	No	No	Yes	No	No	No	Yes	No	No	No	No	No	No	No
Petroleum Staining	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Moisture	Moist	Moist	Moist	Wet	Moist	Moist	Moist	Wet	Moist	Moist	Moist	Moist	Moist	Moist	Moist
HNU in Units	0	0	0	450	0	0	0	300	0	0	0	0	0	0	40
Benzene/ppm	<0.05	<0.05	<0.05	<0.17	<0.05	<0.05	<0.05	**1.6**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene/ppm	<0.05	<0.05	<0.05	**3.7**	<0.05	<0.05	<0.05	**1.9**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl-tert-butyl ether/ppm	<0.10	<0.10	<0.10	<0.33	<0.10	<0.10	<0.10	<0.33	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Toluene/ppm	<0.05	<0.05	<0.05	**3.2**	<0.05	<0.05	<0.05	**7.9**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2,4-Trimethylbenzene/ppm	<0.10	<0.10	<0.10	**100**	<0.10	<0.10	<0.10	**98**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3,5-Trimethylbenzene/ppm	<0.10	<0.10	<0.10	**30**	<0.10	<0.10	<0.10	**35**	<0.10	<0.10	**0.41**	<0.10	<0.10	**0.27**	<0.10
m&p-Xylene/ppm	<0.05	<0.05	<0.05	**80**	<0.05	<0.05	<0.05	**21**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene/ppm	<0.05	<0.05	<0.05	**36**	<0.05	<0.05	<0.05	**9.5**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Diesel Range Organics/ppm	<3.3	<3.3	<3.3	**9300**	<3.3	<3.3	<3.3	**2700**	<3.3	<3.3	**7.5**	<3.3	**3.5**	**23**	<3.3
Gasoling Range Organics/ppm	<3.3	<3.3	<3.3	**1900**	<3.3	<3.3	<3.3	**4200**	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3	<3.3
LUST Total Percent Solids	**96**	**97**	**98**	**95**	**98**	**95**	**97**	**88**	**99**	**86**	**98**	**99**	**96**	**98**	**97**
Lead, Total	**1.6**	==	<0.67	==	==	**1.4**	==	==	**0.7**	==	**1.2**	<0.67	**1.8**	<0.67	==
Acenaphthylene/ppm	<0.020	==	<0.020	==	==	<0.020	==	==	<0.020	==	<0.020	<0.020	<0.020	<0.020	==
Acenaphthene/ppm	<0.040	==	<0.040	==	==	<0.040	==	==	<0.040	==	<0.040	<0.040	<0.040	<0.040	==
Anthracene/ppm	<0.001033	==	<0.001033	==	==	<0.001033	==	==	<0.001033	==	<0.001033	<0.001033	<0.001033	<0.001033	==
Benzo (a) Anthracene/ppm	<0.010	==	<0.010	==	==	<0.010	==	==	<0.010	==	<0.010	<0.010	<0.010	<0.010	==
Benzo (b) Fluoranthene/ppm	<0.0066	==	<0.0066	==	==	<0.0066	==	==	<0.0066	==	<0.0066	<0.0066	<0.0066	<0.0066	==
Benzo (k) Fluoranthene/ppm	<0.0017	==	<0.0017	==	==	<0.0017	==	==	<0.0017	==	<0.0017	<0.0017	<0.0017	<0.0017	==
Benzo (ghi) Perylene/ppm	<0.0167	==	<0.0167	==	==	<0.0167	==	==	<0.0167	==	<0.0167	<0.0167	<0.0167	<0.0167	==
Benzo (a) Pyrene/ppm	<0.0066	==	<0.0066	==	==	<0.0066	==	==	<0.0066	==	<0.0066	<0.0066	<0.0066	<0.0066	==
Chrysene/ppm	<0.20	==	<0.20	==	==	<0.20	==	==	<0.20	==	<0.20	<0.20	<0.20	<0.20	==
Dibenzo (a,h) Anthracene/ppm	<0.010	==	<0.010	==	==	<0.010	==	==	<0.010	==	<0.010	<0.010	<0.010	<0.010	==
Fluoranthene/ppm	<0.017	==	<0.017	==	==	<0.017	==	==	<0.017	==	<0.017	<0.017	<0.017	<0.017	==
Fluorene/ppm	<0.0040	==	<0.0040	==	==	<0.0040	==	==	<0.0040	==	<0.0040	<0.0040	<0.0040	<0.0040	==
Indeno (1,2,3-cd) Pyrene/ppm	<0.0666	==	<0.0666	==	==	<0.0666	==	==	<0.0666	==	<0.0666	<0.0666	<0.0666	<0.0666	==
1-Methyl Naphthalene/ppm	<0.020	==	<0.020	==	==	<0.020	==	==	<0.020	==	<0.020	<0.020	<0.020	<0.020	==
2-Methyl Naphthalene/ppm	<0.020	==	<0.020	==	==	<0.020	==	==	<0.020	==	<0.020	<0.020	<0.020	<0.020	==
Naphthalene/ppm	<0.020	==	<0.020	==	==	<0.020	==	==	<0.020	==	<0.020	<0.020	<0.020	<0.020	==
Phenanthrene/ppm	**0.0039**	==	**0.017**	==	==	**0.018**	==	==	<0.000533	==	**0.0062**	**0.011**	**0.011**	**0.013**	==
Pyrene/ppm	<0.10	==	<0.10	==	==	<0.10	==	==	<0.10	==	<0.10	<0.10	<0.10	<0.10	==