



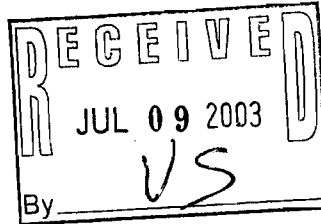
State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TTY 711

July 8, 2003

Mr. Robert Huelsman
1919 E Grange Ave
Milwaukee, WI 53201



In Reply Refer To: FID# 241496970
BRRTS# 02-41-000590
County of Milwaukee
BRR-ERP

SUBJECT: Final Case Closure for the 128th ARG 600000 Gallon Gas Spill 1968, 1919 E Grange Ave/Main Gate, Milwaukee, WI

Dear Mr. Huelsman:

During April 2001, your site as described above was reviewed for closure by the Department of Natural Resources. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On April 12, 2001, you were notified that conditional closure was granted to this case.

On June 17, 2003, the Department sent you a "Notice of Violation (NOV)" regarding this site. The NOV contains an explanation that certain documentation was required to be submitted to the Department prior to "closure" of the site. Steven Ford has been in contact with the Department and has submitted the required information, therefore the issues related to the NOV have been satisfactorily resolved.


On July 8, 2003, the Department received the required documentation and the required fee, therefore you have complied with the conditions of closure. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/qwur/index.htm>

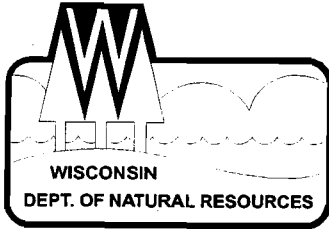
Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

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

Sincerely,


Andrew Boettcher
Hydrogeologist

cc: West Shore Pipeline - Warrenville, 28100 Torch Parkway, Suite 800, Warrenville, IL 60555



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region
Milwaukee Service Center
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8716
TDD 414-263-8713

May 9, 2001

Mr. Scott Buckner
West Shore Pipe Line Company
2316 Terminal Drive
Arlington Heights, Illinois 60005

Captain Robert Huelsman
128th Air Refueling Wing
1919 East Grange Avenue
Milwaukee, Wisconsin 53201

SUBJECT: Request for closure, 128th ANG Base-West Shore Pipe Line Release, 1919 East Grange Avenue, Milwaukee, Wisconsin. BRR-LUST FID#241496970/BRRTS#0241000590.


Dear Sirs:

At your request, we have reviewed the above referenced case file and have determined that the contamination discovered in association with the release from the West Shore Pipe Line has been investigated and remediated to the extent practicable under site conditions. Therefore, we consider the investigation and remediation of this release closed under s. NR 726.05, Wis. Adm. Code, when the following conditions are satisfied:

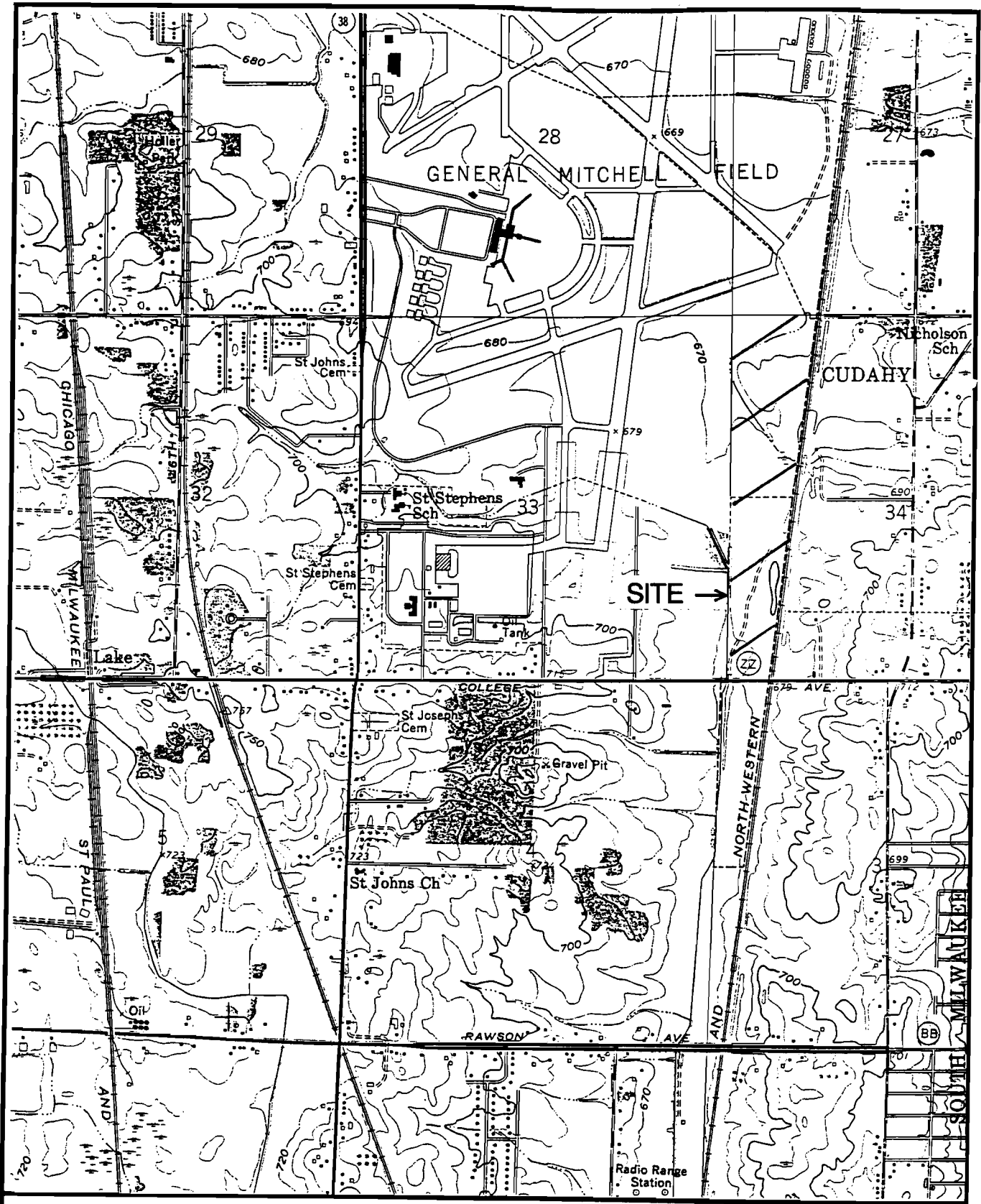
1. MONITORING WELL ABANDONMENT. The monitoring wells at this site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code, unless long term groundwater monitoring will be conducted at the site. If the monitoring wells will not be immediately abandoned because of future groundwater monitoring, you will need to notify the department of the monitoring plans to qualify for case closure.
2. GROUNDWATER USE RESTRICTION. Under Section NR 726.05(2)(b), Wis. Adm. Code, a groundwater use restriction must be placed on a property that has exceedances of NR 140 enforcement standards before closure can be obtained for the site. A model for this groundwater use restriction is found on the department's website www.dnr.state.wi.us. A draft of this restriction must be submitted for department review before the restriction is placed on the property's deed. Please be aware that if a groundwater use restriction is recorded for the wrong property due to an inaccurate legal description you have provided, you will be responsible for recording corrected documents at the Register of Deeds Office to correct the problem.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment. If you have any questions regarding this letter, please contact me at (414) 263-8589.

Sincerely,


Gina Keenan
Hydrogeologist

cc: Earth Tech
SER case file



SITE LOCATION MAP

Mitchell Field/128th ANG Base

Source: USGS Greendale, WI 7.5' Topo



Figure 1

JUN-27-68 05575 4401170 A CHREC

REFL 426 IMAG 1925

This Indenture Made by Wisconsin State Armory Board, a corporation existing under section 21.615, Stats., located at Madison, Wisconsin, by Ralph J. Olson, Chairman, and John L. Downing, Jr., Secretary-Treasurer, ~~XXXXXX~~
~~XXXXXX~~ grantor, of Dane County, Wisconsin, hereby ~~XXXXXX~~ quitclaims ~~XXXXXX~~ to The State of Wisconsin

grantee ~~XXXX~~ ~~XXXXXX~~ for the sum of One Dollar

the following tract of land in Milwaukee County, State of Wisconsin: Lands lying in the N.W. 1/4 Section 34 and the N.E. 1/4 Section 33, T 6 N, R 22 E, described as follows:

Commencing at the S.E. corner of the N.E. 1/4 Section 33, T 6 N, R 22 E, thence westerly along the South line of said 1/4 Section, 81.75 feet to a point, said point being 1,660 feet East of, measured at right angles, the centerline of Runway 1L-19R as said runway is now established and constructed at General Mitchell Field; thence northerly and parallel to the said centerline of said Runway 1L-19R to a point in the N.W. 1/4 Section 34, T 6 N, R 22 E, which point is 660 feet Southeasterly of, measured at right angles to, the centerline of Runway 7R-25L as said runway is now established and constructed at General Mitchell Field; thence Northeasterly and parallel to the said centerline of said Runway 7R-25L to a point which lies on the North Line of the N.W. 1/4 of Section 34, T 6 N, R 22 E, said point being 683.73 feet east of the N.W. corner of said 1/4 Section; thence Easterly on and along the North line of said 1/4 Section to a point which is 100 feet Westerly of the West right-of-way line of the Chicago and Northwestern Railroad, as said railroad right-of-way is laid out through the said 1/4 Section; thence Southerly and parallel to the said West right-of-way line 50 feet to a point; thence Easterly and parallel to the North line of said 1/4 (continued on opposite side)

In Witness Whereof, the said grantor has caused these presents to be signed by Ralph J. Olson, its Chairman, Treasurer, ~~XXXX~~ ~~XXXXXX~~ and countersigned by John L. Downing, Jr., its Secretary, at ~~XXXXXX~~, Wisconsin, and its corporate seal to be hereto affixed, this 24TH day of JUNE, A. D., 1968. This Board has no corporate seal Signed and Sealed in Presence of

WISCONSIN STATE ARMORY BOARD
Corporate Name

Ralph J. Olson
Ralph J. Olson, Chairman ~~XXXXXX~~

Countersigned by *John L. Downing, Jr.*
John L. Downing, Jr., Secretary-Treasurer

REGISTERS OFFICE
Dane County, Wis.
RECORDED AT 2:16 PM M 4401170

on JUN 27 1968 in
Reel # 23 Image 1725-1926

Melan Patter
Registrar of Deeds

State of Wisconsin, }
DANE County, } ss.

Personally came before me this twenty-fourth day of June, A. D., 1968. Ralph J. Olson, Chairman, ~~XXXXXX~~ and John L. Downing, Jr., ~~XXXXXX~~ Secretary-Treasurer of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me known to be such ~~XXXXXX~~ Chairman and Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

William P. Spang
Notary Public, Dane County, Wis.

My commission expires 11 October, A. D., 1970

No. _____

Wisconsin State Armory Board

To

The State of Wisconsin

~~WARRANT DEED~~
CUTCLAIM DEED

REGISTERS OFFICE,
State of Wisconsin,

_____ County.

Received for Record this _____ day of _____, 19____

at _____ o'clock _____ M., and recorded in

Vol _____ of Deeds on page _____

Register of Deeds.

WIS. STATE ARMORY BOARD
Deputy.
P.O. BOX 372
MADISON, WIS. 53701

(description continued from opposite side)

Section to a point which lies on the West right-of-way line of the Chicago and Northwestern Railroad; thence Southerly on and along said West right-of-way line to a point which lies on the South line of said N.W. 1/4 Section 34, T 6 N, R 22 E; thence Westerly on and along said South line of said 1/4 Section to the place of beginning, and containing 58-1/2 acres of land more or less, excepting and reserving to grantor, its successors and assigns, for the benefit of the general public at large, the right of way for the free and unobstructed passage of aircraft, by whomsoever owned or operated, in and through the air space, over, across, and above the land hereinabove described, and excepting the interest of the West Shore Pipe Line Company in the above-described premises.

CLIENT: WISCONSIN AIR NATIONAL GUARD

LEASE LAND MAP

LEASE DESCRIPTION B

A parcel of land located in the NW1/4-NW1/4 and the SW1/4-NW1/4, Section 34, T6N, R22E, Milwaukee County, Wisconsin, more fully described as follows:

Commencing at the Northwest corner of said Section 34, thence N88°54'27"E, along the north line of said NW1/4, 226.51 feet; thence S5°40'30"W, 262.95 feet to the point of beginning; thence continuing S5°40'30"W, 1130.90 feet; thence N84°19'30"W, 210.00 feet; thence N5°40'30"E, 1030.47 feet; thence N70°07'00"E, 232.78 feet to the point of beginning.

This description contains 226,944 square feet, (5.210 acres) more or less.

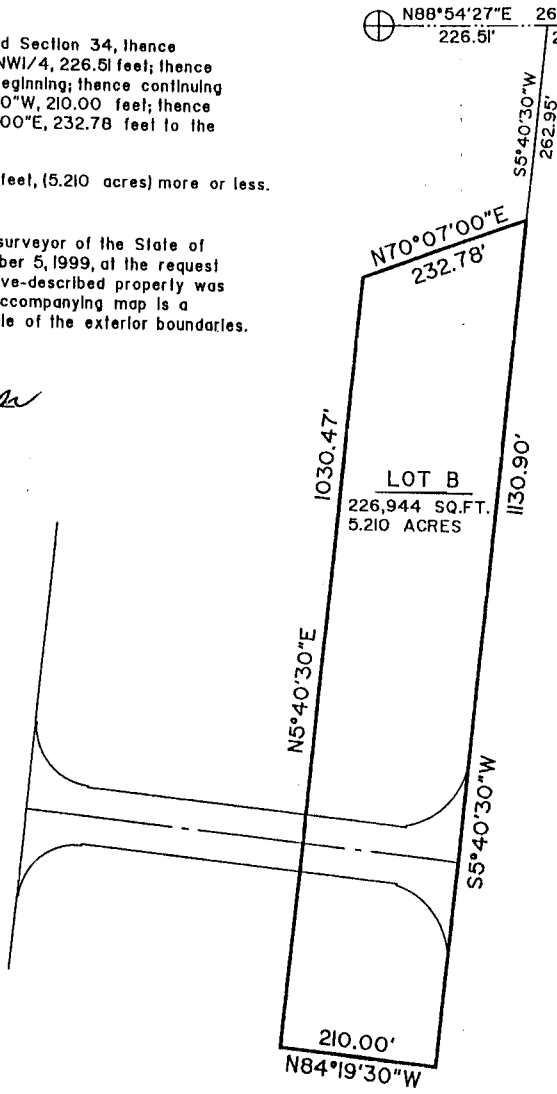
I, Roger D. Schneeberger, a registered land surveyor of the State of Wisconsin, do hereby certify that on November 5, 1999, at the request of the Wisconsin Air National Guard, the above-described property was surveyed under my direction and that the accompanying map is a correctly-dimensioned representation to scale of the exterior boundaries.

Roger D. Schneeberger
Roger D. Schneeberger, S-1096

NW CORNER
SECTION 34
T6N, R22E

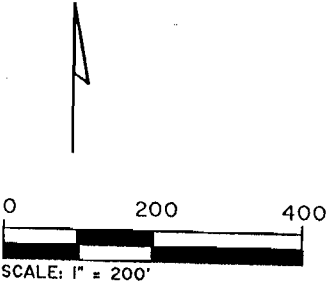
NE 1/4 CORNER
SECTION 34
T6N, R22E

⊕ N88°54'27"E 2657.57' ⊕
226.51' 2431.06'



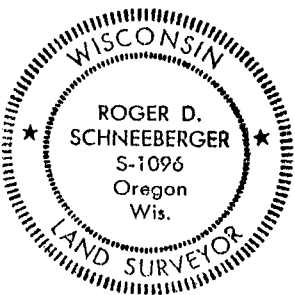
LOT B
226,944 SQ.FT.
5.210 ACRES

N



LEGEND

⊕ ALUMINUM MONUMENT FOUND



MEAD & HUNT

Mead & Hunt, Inc.
6501 Watts Road, Suite 101
Madison, Wisconsin 53719-2700
Phone: 608-273-6380
Fax: 608-273-6391

Dwg. No. N 9304 S

Sheet 1 of 1

Job No. W77-20-99G

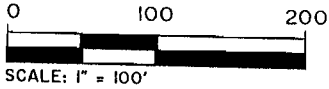
h:\survey\99\w77-99g\w772099b.dgn

CLIENT: WISCONSIN AIR NATIONAL GUARD

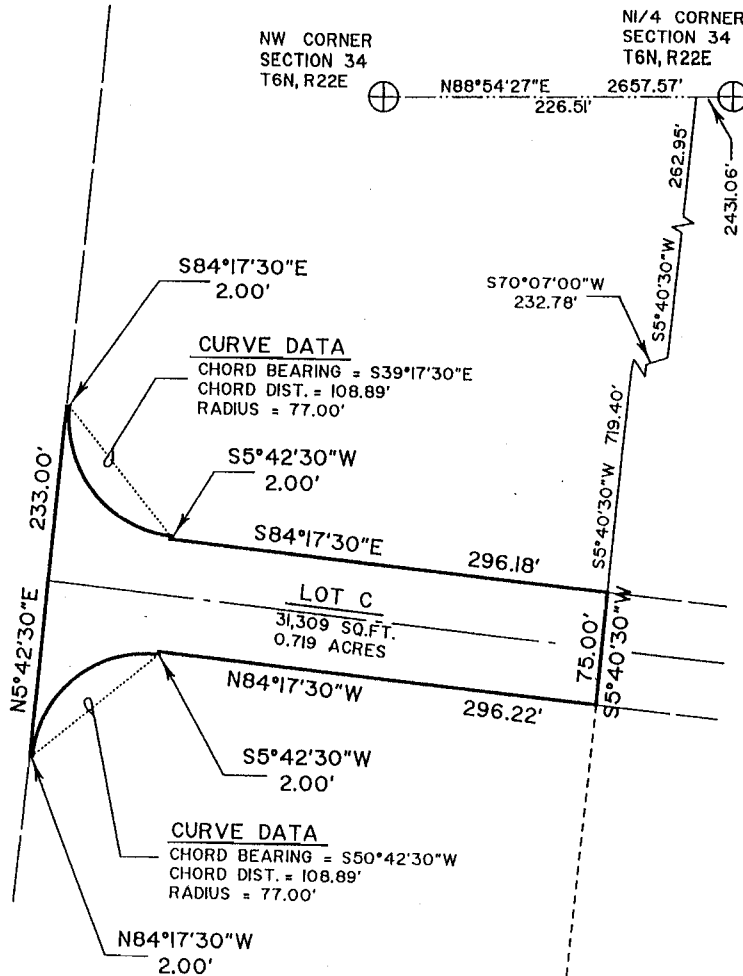
LEASE SURVEY

N1/4 CORNER
SECTION 34
T6N, R22E

NW CORNER
SECTION 34
T6N, R22E



LEGEND
⊕ ALUMINUM MONUMENT FOUND



LEASE DESCRIPTION C

A parcel of land located in the NW1/4-NW1/4 of Section 34 and the NE1/4-NE1/4 of Section 33, T6N, R22E, Milwaukee County, Wisconsin, more fully described as follows:

Commencing at the Northwest corner of said Section 34, thence N88°54'27"E, along the north line of said NW1/4-NW1/4, 226.51 feet; thence S5°40'30"W, 719.40 feet to the point of beginning; thence continuing S5°40'30"W, 75.00 feet; thence N84°17'30"W, 296.22'; thence S5°42'30"W, 2.00 feet; thence along the arc of a curve to the left whose radius is 77.00 feet and whose long chord bears S50°42'30"W, 108.89 feet; thence N84°17'30"W, 2.00 feet; thence N5°42'30"E, 233.00 feet; thence S84°17'30"E, 2.00 feet; thence along the arc of a curve to the left whose radius is 77.00 feet and whose long chord bears S39°17'30"E, 108.89 feet; thence S5°42'30"W, 2.00 feet; thence S84°17'30"E, 296.18 feet to the point of beginning.

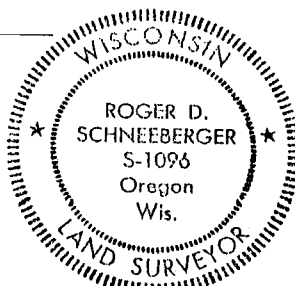
This description contains 31,309 square feet, (0.719 acres), more or less.

I, Roger D. Schneeberger, a registered land surveyor of the State of Wisconsin, do hereby certify that on November 5, 1999, at the request of the Wisconsin Air National Guard, the above-described property was surveyed under my direction and that the accompanying map is a correctly-dimensioned representation to scale of the exterior boundaries.

Roger D. Schneeberger
Roger D. Schneeberger, S-1096

MEAD & HUNT

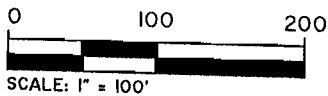
Mead & Hunt, Inc.
6501 Watts Road, Suite 101
Madison, Wisconsin 53719-2700
Phone: 608-273-6380
Fax: 608-273-6391



Dwg. No. N 9305 S
Sheet 1 of 1
Job No. W77-20-996

CLIENT: WISCONSIN AIR NATIONAL GUARD

LEASE LAND MAP



N

LEGEND

⊕ ALUMINUM MONUMENT FOUND

CURVE DATA

CHORD BEARING = N54°11'00"W
 CHORD DIST. = 206.28'
 RADIUS = 125.00'

LEASE DESCRIPTION D

A parcel of land located in the SW1/4-SW1/4 of Section 27 and the NW1/4-NW1/4 of Section 34, T6N, R22E, Milwaukee County, Wisconsin, more fully described as follows:

Commencing at the Northwest corner of said Section 34, thence N88°54'27"E, along the north line of said NW1/4-NW1/4, 484.54 feet to the point of beginning; thence N1°25'00"E, 375.85 feet; thence along the arc of a curve to the left whose radius is 125.00 feet and whose long chord bears N54°11'00"W, 206.28 feet; thence N70°13'00"E, 263.00 feet; thence S1°25'00"W, 650.50 feet; thence along the arc of a curve to the left whose radius is 50.00 feet and whose long chord bears S54°14'00"E, 82.56 feet; thence S70°07'00"W, 211.75 feet; thence along the arc of a curve to the left whose radius is 85.00 feet and whose long chord bears N35°46'00"E, 95.92 feet; thence N1°25'00"E, 107.31 feet to the point of beginning.

This description contains 63,773 square feet, (1.464 acres), more or less.

LOT D
 63,773 SQ.FT.
 1.464 ACRES

⊕
 NW CORNER
 SECTION 34
 T6N, R22E

CURVE DATA

CHORD BEARING = N35°46'00"E
 CHORD DIST. = 95.92'
 RADIUS = 85.00'

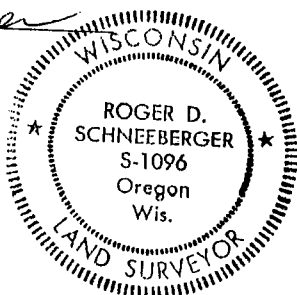
⊕
 NE CORNER
 SECTION 34
 T6N, R22E

I, Roger D. Schneeberger, a registered land surveyor of the State of Wisconsin, do hereby certify that on November 11, 1999, at the request of the Wisconsin Air National Guard, the above-described property was surveyed under my direction and that the accompanying map is a correctly-dimensioned representation to scale of the exterior boundaries.

Roger D. Schneeberger
 Roger D. Schneeberger, S-1096

MEAD & HUNT

Mead & Hunt, Inc.
 6501 Watts Road, Suite 101
 Madison, Wisconsin 53719-2700
 Phone: 608-273-6380
 Fax: 608-273-6391



CURVE DATA

CHORD BEARING = S54°14'00"E
 CHORD DIST. = 82.56'
 RADIUS = 50.00'

Dwg. No. N 9306 S
 Sheet 1 of 1
 Job No. W77-20-990



State of Wisconsin Department of Military Affairs

**Office of the Adjutant General
P. O. Box 14587
Madison, WI 53714-0587**

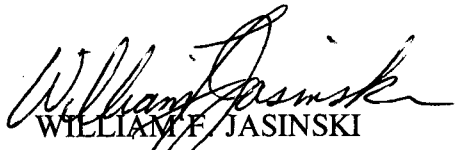
Date: 30 June 2003

Mr. John J. Hnat
State Of Wisconsin
Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King Jr. Drive
P. O. Box 12436
Milwaukee, WI 53212-0436

Dear Mr. Hnat:

The legal description found in the deed between the County of Milwaukee and the State of Wisconsin is complete and accurate to the best of my knowledge. If there are any further concerns feel free to contact me at:

Mr. Bill Jasinski
Real Property Manager
128th Air Refueling Wing
1685 East grange Avenue
Milwaukee, WI 53207-6151


WILLIAM F. JASINSKI
Real Property Manager
128th ARW/CES

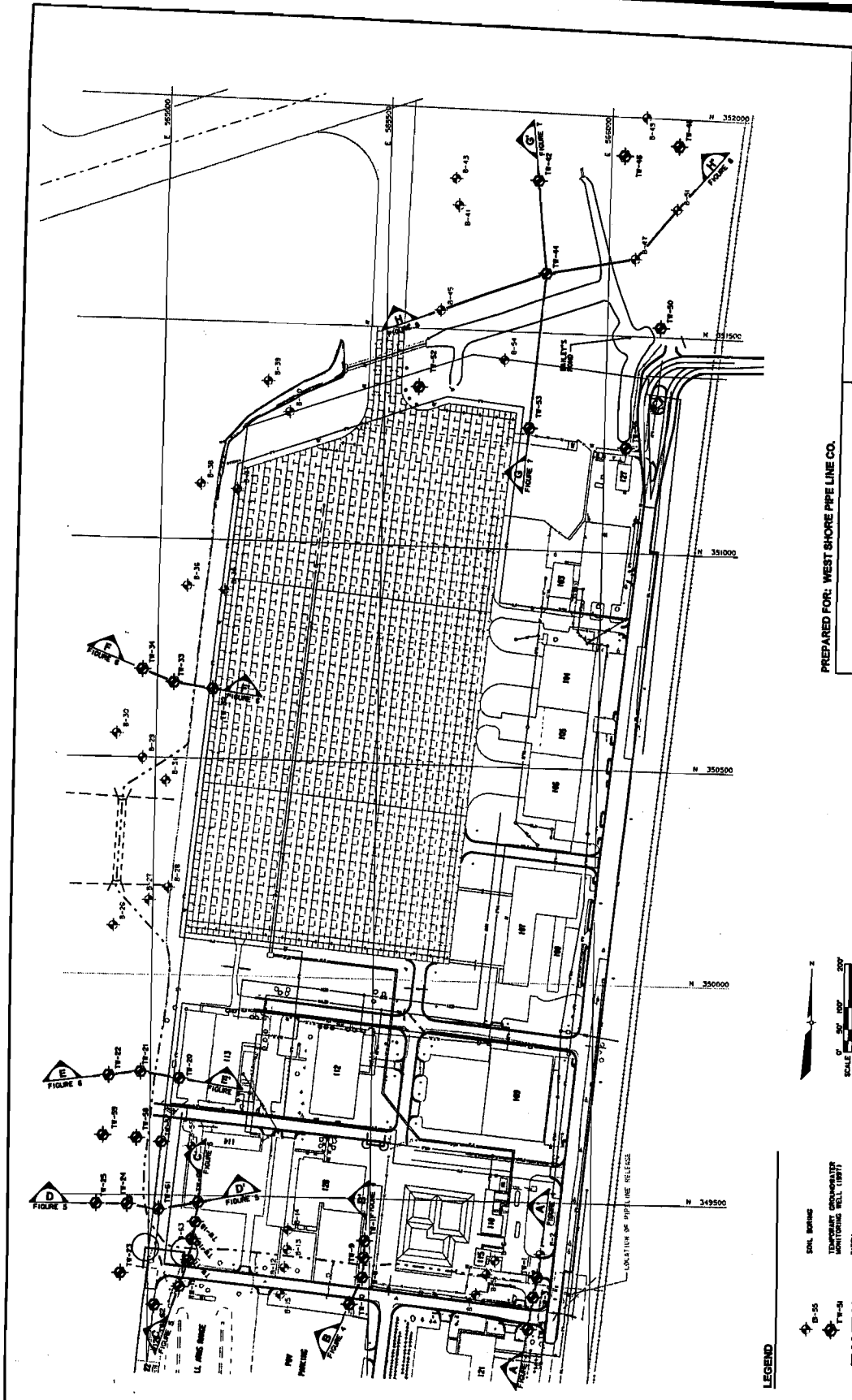


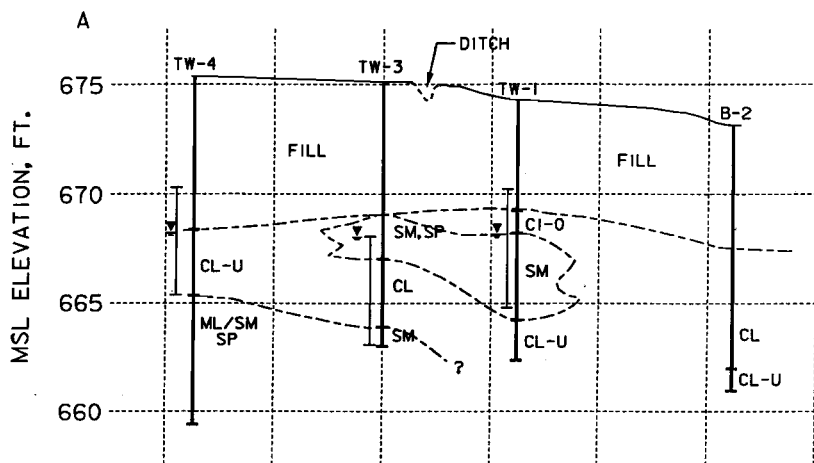
FIGURE 2
SITE PLAN

128th AIR REFUELING WING

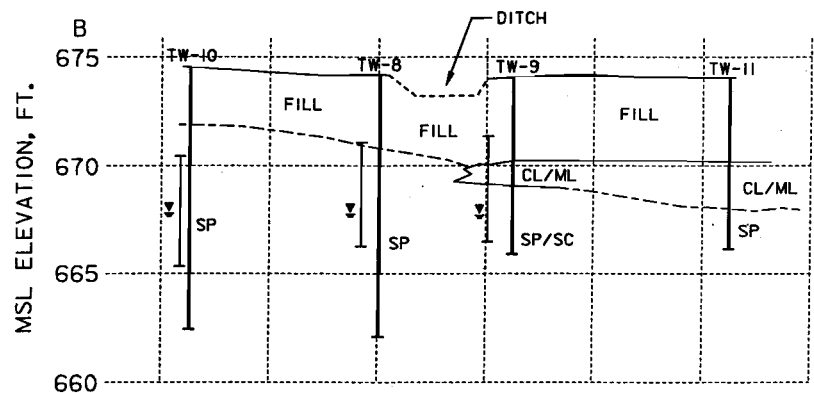
PREPARED FOR: WEST SHORE PIPE LINE CO.



- LEGEND**
- SOIL BORING
 - TEMPERATURE CONDUCTIVITY MONITORING WELL (TBM)
 - BITCH
 - CROSS - SECTION LOCATION



SECTION A - A'



SECTION B - B'

LEGEND

- TW-22 TEMPORARY WELL
- B-26 SOIL BORING
- ▼ WATER LEVEL
(10/15/97, 10/16/97)
- CL CLAY
- OL ORGANIC CLAY
- ML SILT
- CL/ML SILTY CLAY
- SP, SM SANDS, SILTY SAND
- U UNOXIDIZED
- O OXIDIZED
- I WELL SCREEN INTERVAL

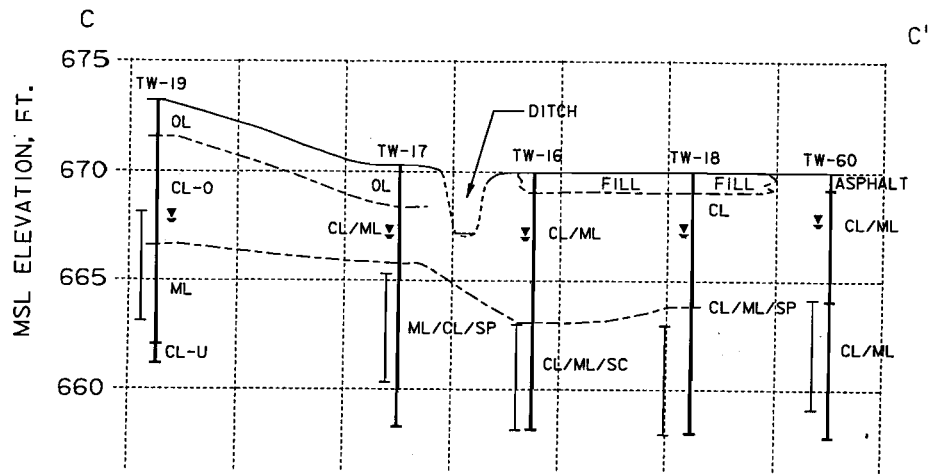


PREPARED FOR: WEST SHORE PIPE LINE CO.

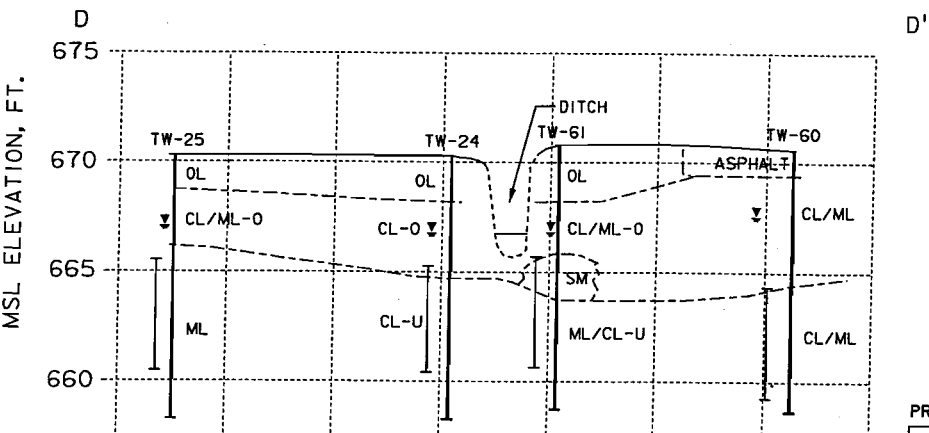


FIGURE 3
CROSS SECTIONS

128th AIR REFUELING WING
GENERAL BILLY MITCHELL FIELD, ANGR



SECTION C - C'



SECTION D - D'

LEGEND

- TW-22 TEMPORARY WELL
- B-26 SOIL BORING
- ▽ WATER LEVEL (10/15/97, 10/16/97)
- CL CLAY
- OL ORGANIC CLAY
- ML SILT
- CL/ML SILTY CLAY
- SP, SM SANDS, SILTY SAND
- U UNOXIDIZED
- O OXIDIZED
- I WELL SCREEN INTERVAL

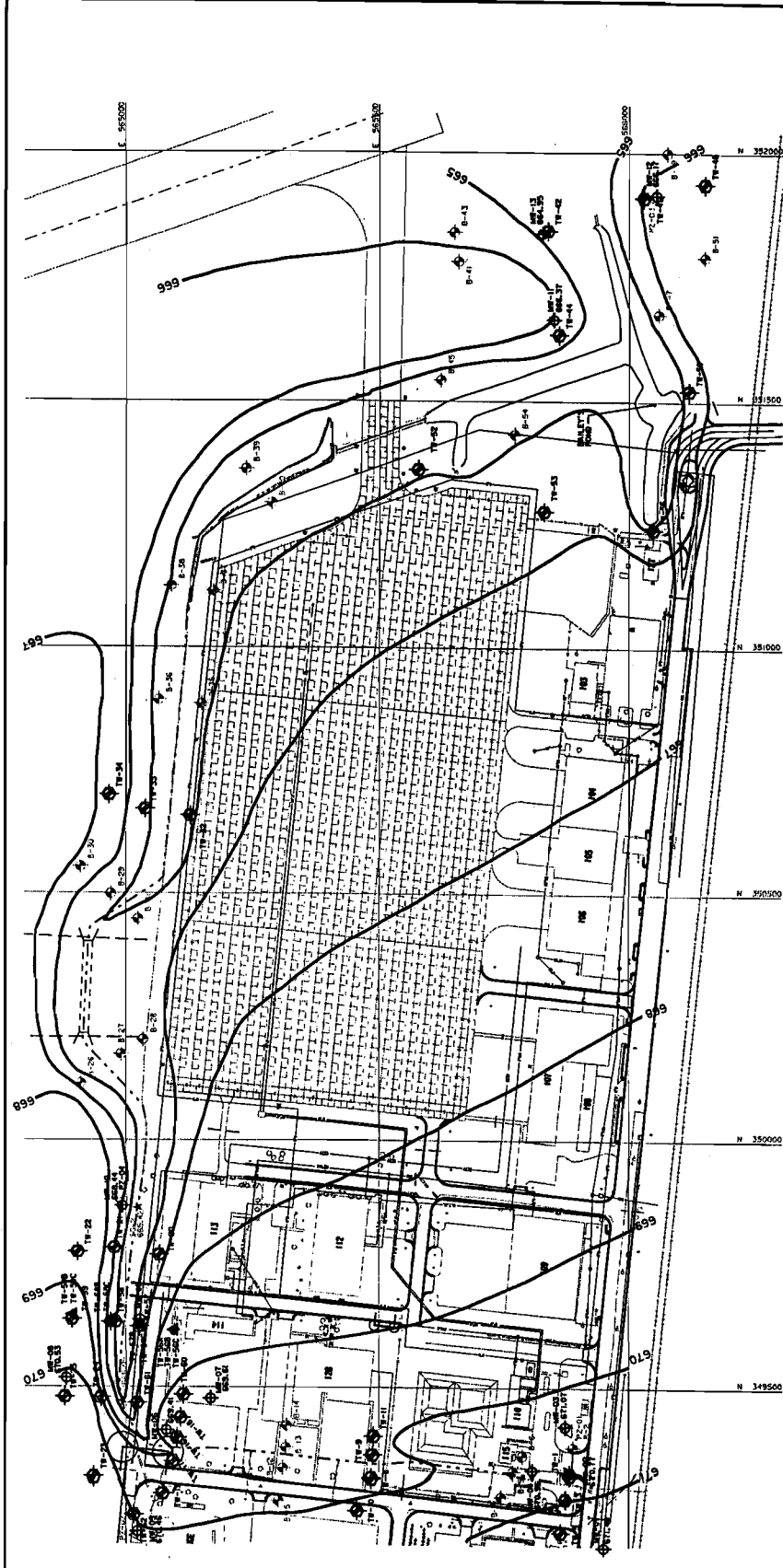


PREPARED FOR: WEST SHORE PIPE LINE CO.



FIGURE 4
CROSS SECTIONS

128th AIR REFUELING WING
GENERAL BILLY MITCHELL FIELD, ANGR



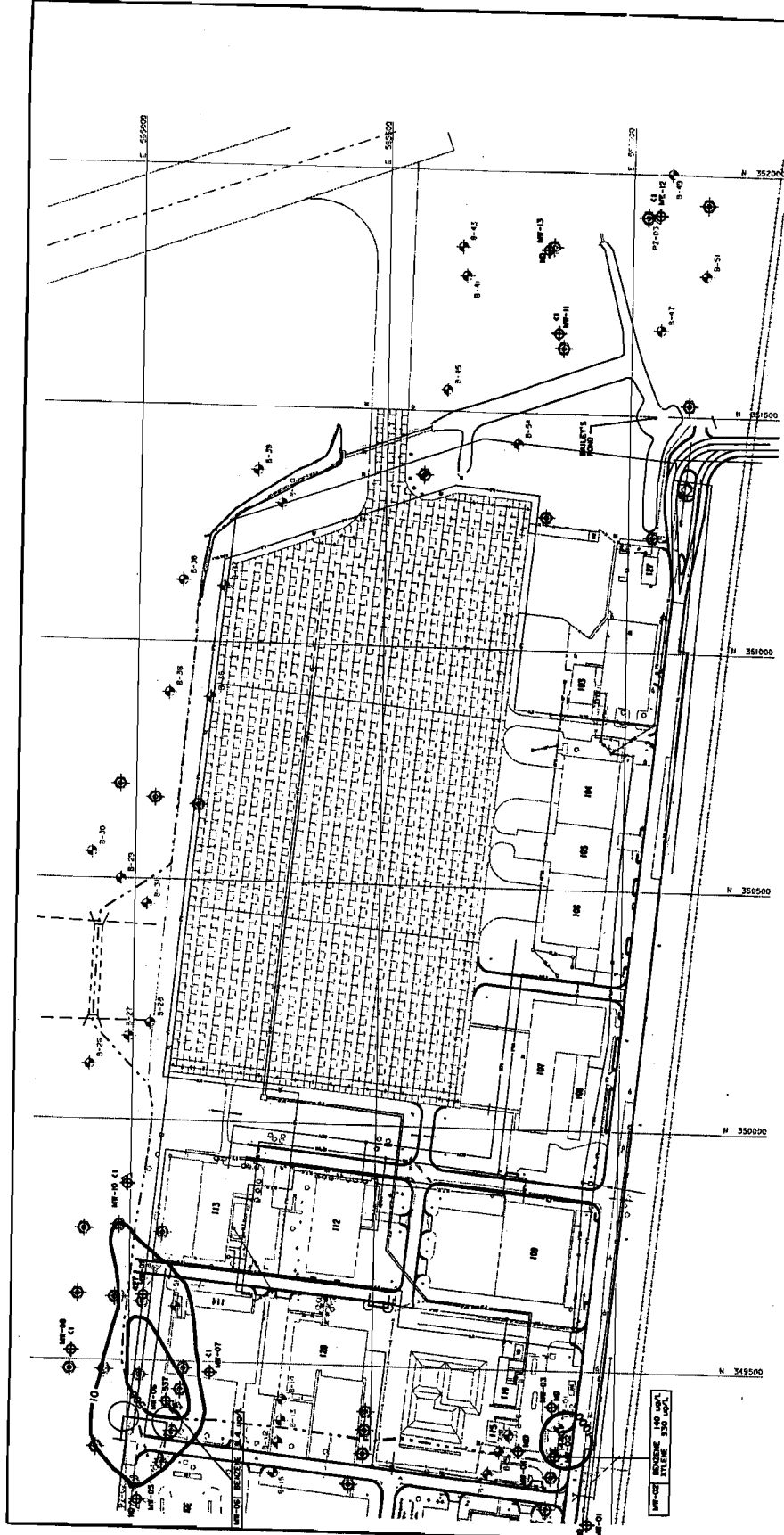


FIGURE 6
TOTAL BTEX CONCENTRATIONS
IN GROUND WATER - APRIL 1998
 128th AIR REFUELING WING



PREPARED FOR: WEST SHORE PIPE LINE CO.

- LEGEND**
- SOIL BORING
 - TEMPERATURE/CHLOROWATER MONITORING WELL
 - SHALLOW MONITORING WELL, WITH BTEX CONCENTRATION SENSOR IN UO/A
 - Piezometer 18 inch
 - MW-01 BTEX < 100 UO/A
 - MW-02 BTEX < 100 UO/A
 - MW-03 BTEX < 100 UO/A
 - MW-04 BTEX < 100 UO/A
 - MW-05 BTEX < 100 UO/A
 - MW-06 BTEX < 100 UO/A
 - MW-07 BTEX < 100 UO/A
 - MW-08 BTEX < 100 UO/A
 - MW-09 BTEX < 100 UO/A
 - MW-10 BTEX < 100 UO/A
 - MW-11 BTEX < 100 UO/A
 - MW-12 BTEX < 100 UO/A
 - MW-13 BTEX < 100 UO/A
 - MW-14 BTEX < 100 UO/A
 - MW-15 BTEX < 100 UO/A
 - MW-16 BTEX < 100 UO/A
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 - MW-19 BTEX < 100 UO/A
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 - MW-23 BTEX < 100 UO/A
 - MW-24 BTEX < 100 UO/A
 - MW-25 BTEX < 100 UO/A
 - MW-26 BTEX < 100 UO/A
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 - MW-78 BTEX < 100 UO/A
 - MW-79 BTEX < 100 UO/A
 - MW-80 BTEX < 100 UO/A
 - MW-81 BTEX < 100 UO/A
 - MW-82 BTEX < 100 UO/A
 - MW-83 BTEX < 100 UO/A
 - MW-84 BTEX < 100 UO/A
 - MW-85 BTEX < 100 UO/A
 - MW-86 BTEX < 100 UO/A
 - MW-87 BTEX < 100 UO/A
 - MW-88 BTEX < 100 UO/A
 - MW-89 BTEX < 100 UO/A
 - MW-90 BTEX < 100 UO/A
 - MW-91 BTEX < 100 UO/A
 - MW-92 BTEX < 100 UO/A
 - MW-93 BTEX < 100 UO/A
 - MW-94 BTEX < 100 UO/A
 - MW-95 BTEX < 100 UO/A
 - MW-96 BTEX < 100 UO/A
 - MW-97 BTEX < 100 UO/A
 - MW-98 BTEX < 100 UO/A
 - MW-99 BTEX < 100 UO/A
 - MW-100 BTEX < 100 UO/A
 - NOT DETECTED
 - LINE OF EQUAL BTEX CONCENTRATION CONTOUR INTERVAL-VARIABLE
 - 1000
 - DITCH

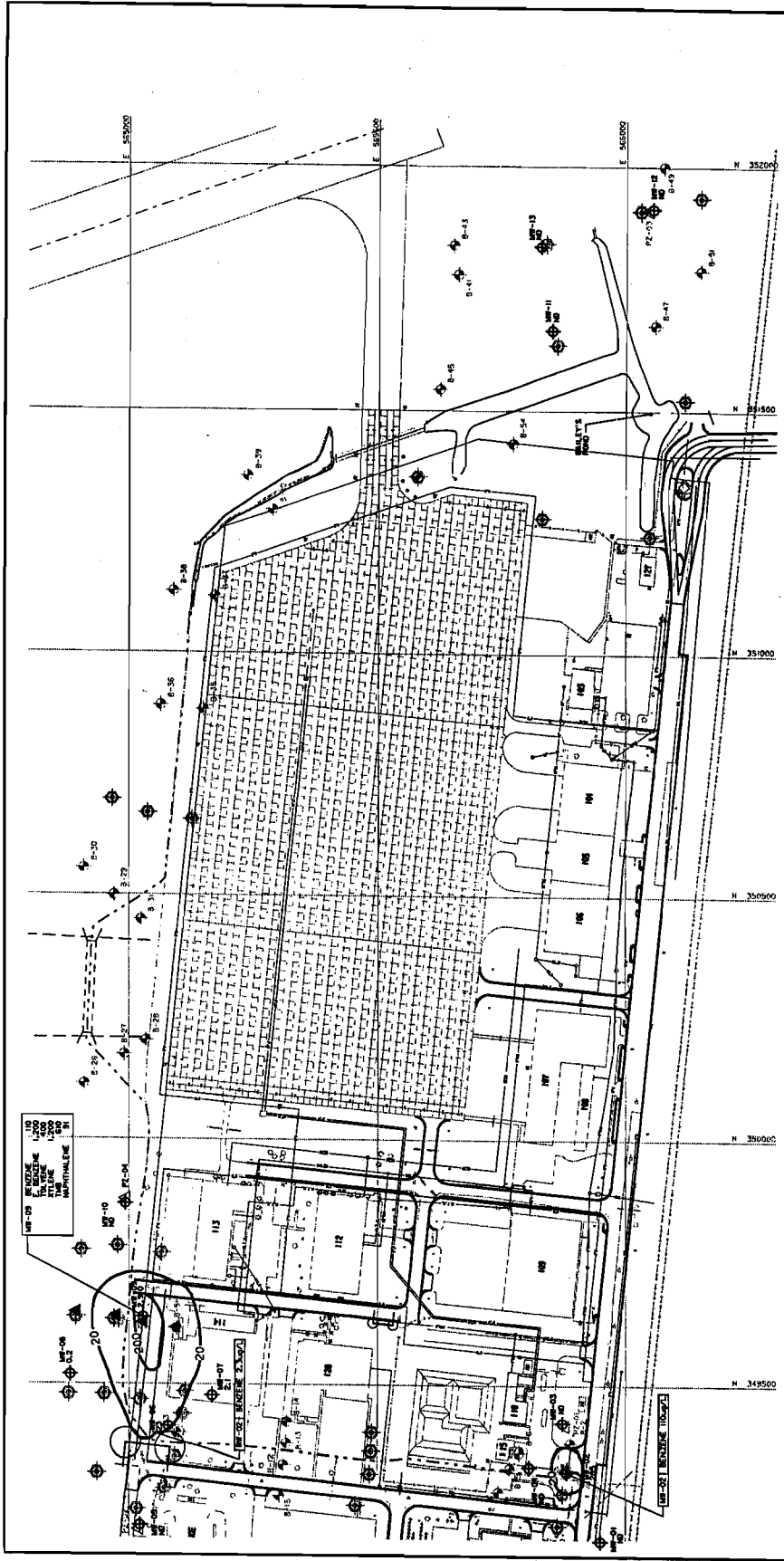


FIGURE 7
TOTAL BIEX CONCENTRATIONS
IN GROUND WATER - NOVEMBER 1998
 128th AIR REFUELING WING
 GENERAL BILLY MITCHELL FIELD ANGFB

PREPARED FOR: WEST SHORE PIPE LINE CO.



- LEGEND**
- SOIL BORING
 - MONITORING WELL
 - BIEX MONITORING WELL WITH TOTAL BIEX CONCENTRATIONS SHOWN IN LOCAL
 - PIEZOMETER 1/2 INCH
 - TEMPORARY PIEZOMETER WEST 13/4 INCH
 - DITCH
 - NO
 - NOT DETECTED
 - BIEX MONITORING WELL HAS EXCEEDED

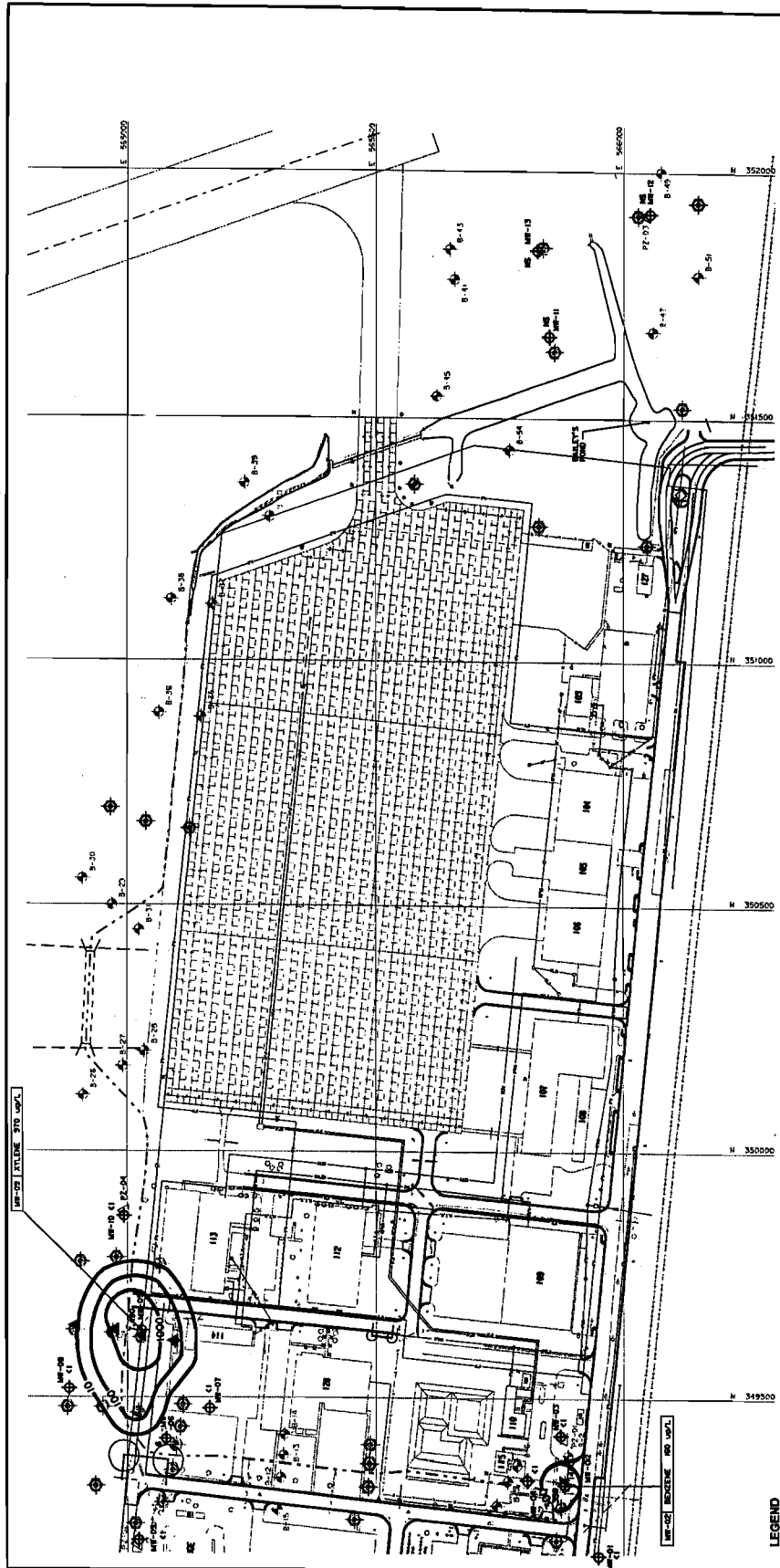
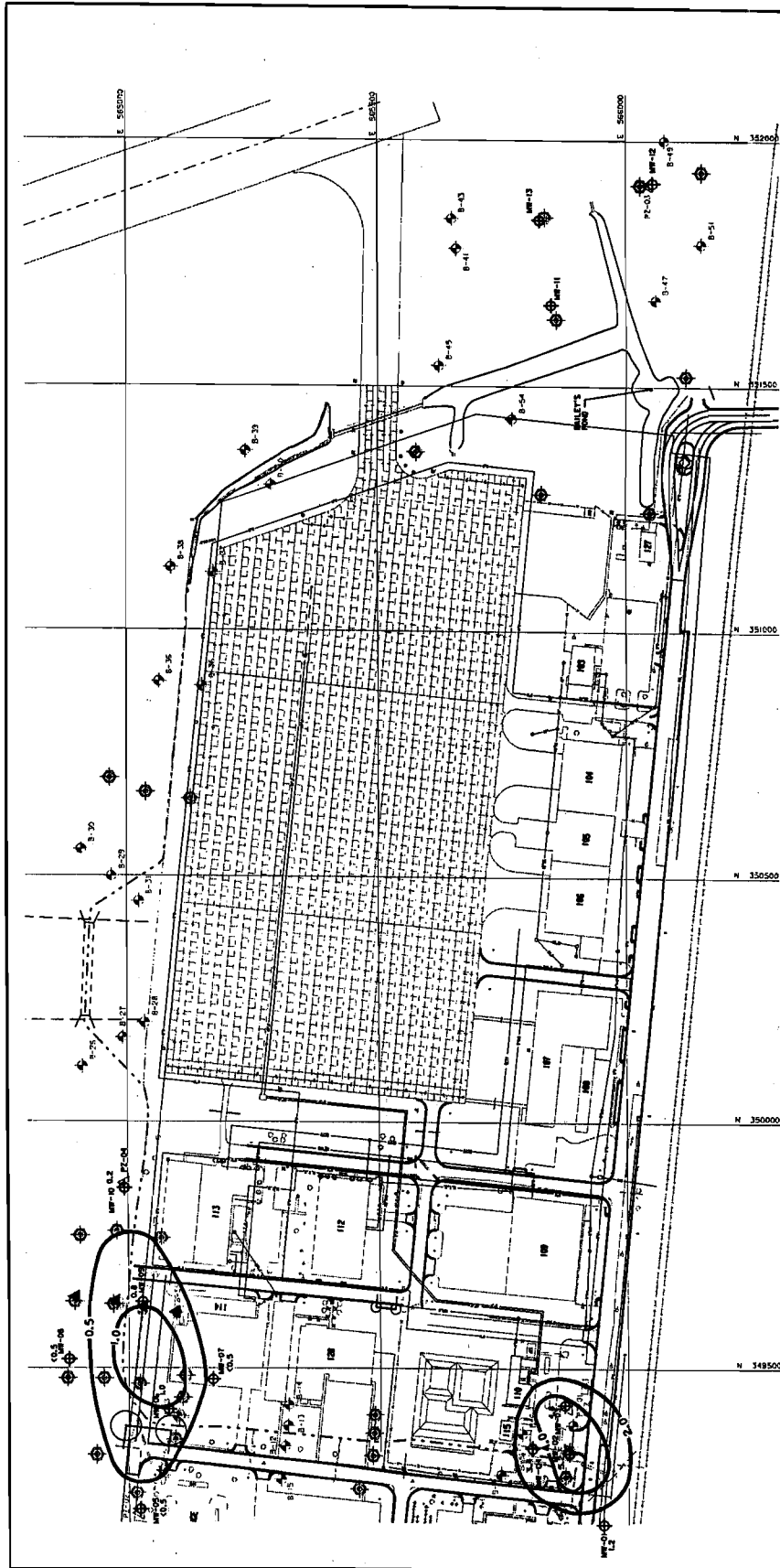


FIGURE 9
TOTAL BTEX CONCENTRATIONS IN
GROUND WATER - OCTOBER 14, 1999
 128th AIR REFUELING WING
 GENERAL BILLY MITCHELL FIELD ANG

PREPARED FOR: WEST SHORE PIPE LINE CO.



- LEGEND**
- SOIL BORING
 - TEMPORARY MONITORING WELL WITH TOTAL BTEX CONCENTRATION
 - PIEZOMETER 12 INCH
 - TEMPORARY PIEZOMETER TEST 13/4 INCH
 - MW NO ES EXCESSIVE
 - LINE OF EQUAL BTEX CONCENTRATION CONTOUR INTERVAL - VARIABLE
 - DITCH
 - NOT SAMPLED
- SB-01 BORING (30' DPT)
 MW-01 MONITORING WELL (30' DPT)
 PZ-01 PIEZOMETER (12" DPT)
 MW-02 BORING (30' DPT)
- 1" = 50'



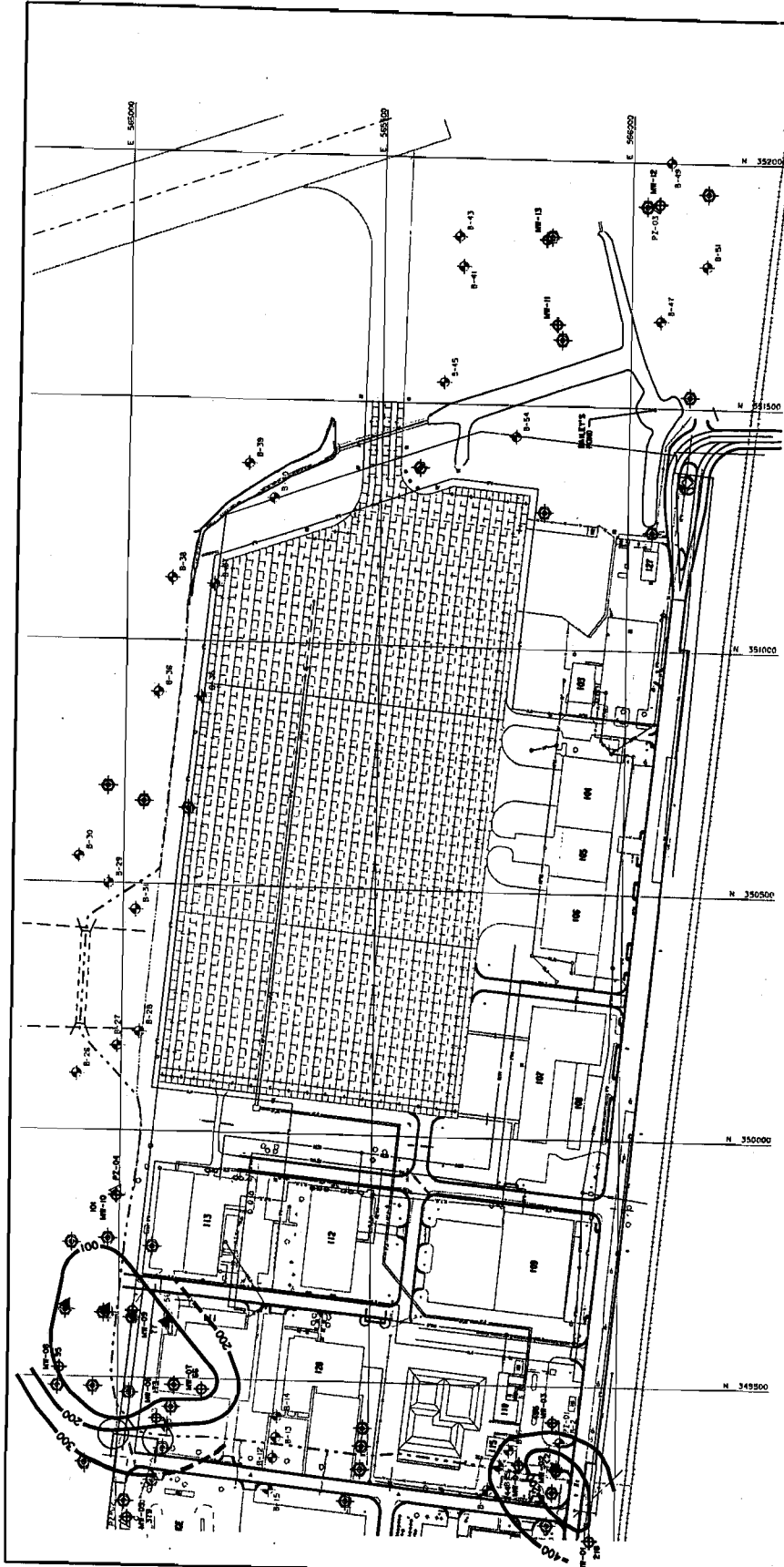
- LEGEND**
- ⊕ SOIL BORING
 - ⊕ B-55
 - ⊕ TEMPORARY GROUNDWATER MONITORING WELL
 - ⊕ SHALLOW MONITORING WELL WITH FE(II) CONCENTRATION IN mg/L
 - ⊕ PZ-01
 - ⊕ PZ-02
 - ⊕ PZ-03
 - ⊕ TEMPORARY PIEZOMETER WITH 1.54 INCH MP-01
 - ⊕ MP-02
 - ⊕ MP-03
 - LINE OF EQUAL FE(II) CONCENTRATION CONTOUR INTERVAL-VARIABLE
 - 1.0
 - - - DITCH

PREPARED FOR: WEST SHORE PIPE LINE CO.



EARTH TECH

FIGURE 10
IRON(II) CONCENTRATIONS IN
GROUND WATER - OCTOBER 14, 1999
 128th AIR REFUELING WING
 GENERAL BILLY MITCHELL FIELD ANGWS



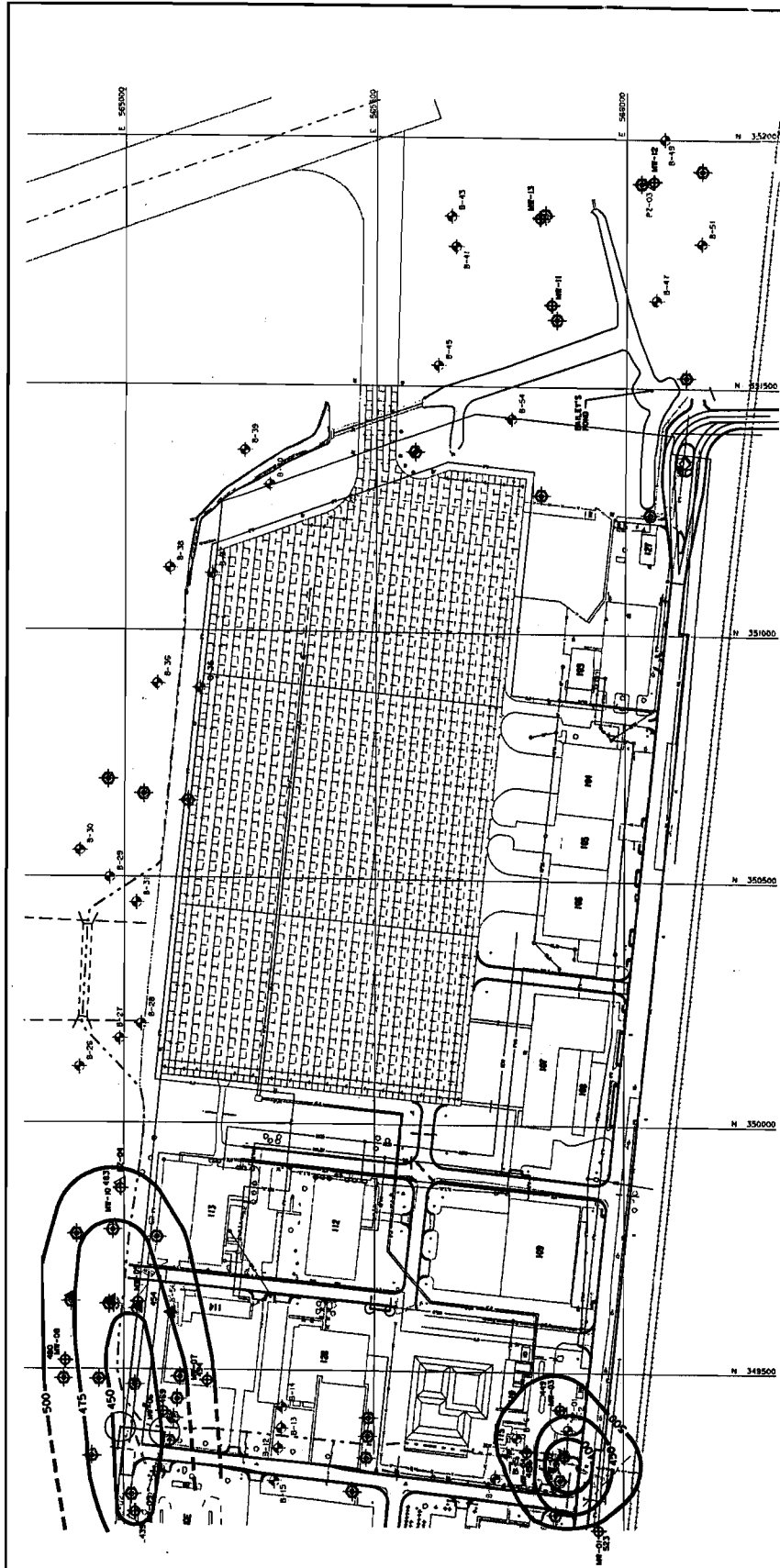
LEGEND

- ◆ SOIL BORING
- ◆ TEMPORARY GROUNDWATER MONITORING WELL
- ◆ SOIL GAS MONITORING WELL WITH SULFATE CONCENTRATION IN INCH
- △ PNEUMETER 12 INCH
- ▲ TEMPORARY PNEUMETER NEST 13/4 INCH
- DITCH
- 200 — LINE OF EQUAL SULFATE CONCENTRATION (CONTOUR INTERVAL=1000)

PREPARED FOR: WEST SHORE PIPE LINE CO.



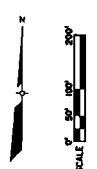
FIGURE 12
SULFATE CONCENTRATIONS IN
GROUND WATER - OCTOBER 14, 1999
 128th AIR REFUELING WING



LEGEND

- ◆ P-15
- ◆ B-15
- ◆ MR-15
- △ P-1
- ▲ 450
- 450
- - -

SKA BORING
 TEMPORARY GROUNDWATER MONITORING WELL
 PERMANENT GROUNDWATER MONITORING WELL WITH REDUCED POTENTIAL SKETCH BY MULTIMEDIA UNIT
 PNEUMETER 2 INCH
 TEMPORARY PNEUMETER TEST 1.54 INCH
 LINE OF EQUAL REDOX VALUE
 CONTOUR INTERVAL-VARIABLE
 BITCH



PREPARED FOR: WEST SHORE PIPE LINE CO.



FIGURE 13
 OXIDATION-REDUCTION POTENTIAL OF GROUND WATER - OCTOBER 14, 1999
 128TH AIR REFUELING WING

TABLE 2
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-1

		NR 140 PAL	NR 140 ES	Date:			
				4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	< 0.21	< 1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	=Exceeds ES
6.9	=Exceeds PAL

TABLE 3
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Monitoring Well MW-2

	Units	NR 140	NR 140	Date:					
		PAL	ES	4/13/98	4/13/98	11/3/98	4/12/99	4/12/99	10/14/99
PVOCs									
Benzene	ug/L	0.5	5	140	120 d	110	130	140 d	160
E Benzene	ug/L	140	700	300	260 d	55	75	82 d	45
Toluene	ug/L	68.6	343	76	65 d	7.9	11	12 d	Q 4
Xylene (total)	ug/L	124	620	930	786 d	112	212	233 d	150
MTBE	ug/L	12	60	< 0.80	< 0.80 d	0.87	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	255	193 d	40	51	56 d	26
Naphthalene	ug/L	8	40	28	25 d	1.9	5.2	4.4 d	< 5
PAHs									
Acenaphthene	ug/L	None	None	< 1.9	< 0.47 d	NA	NA	NA	NA
Acenaphthylene	ug/L	None	None	< 1.6	< 0.41 d	NA	NA	NA	NA
Anthracene	ug/L	600	3,000	< 0.084	< 0.021 d	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	None	None	< 0.56	< 0.014 d	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	< 0.060	< 0.015 d	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	< 0.060	< 0.015 d	NA	NA	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.084	< 0.021 d	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	< 0.036	< 0.009 d	NA	NA	NA	NA
Chrysene	ug/L	0.02	0.2	< 0.064	< 0.016 d	NA	NA	NA	NA
Dibenzo(a,h.)anthracene	ug/L	None	None	< 0.080	< 0.02 d	NA	NA	NA	NA
Fluoranthene	ug/L	80	400	< 0.060	< 0.015 d	NA	NA	NA	NA
Fluorene	ug/L	80	400	Q 0.45	Q 0.43 d	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	None	None	< 0.100	< 0.025	NA	NA	NA	NA
1-Methylnaphthalene	ug/L	None	None	Q 1.6	1.2 d	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	None	None	Q 4.3	4.1 d	NA	NA	NA	NA
Naphthalene	ug/L	8	40	15	14 d	NA	NA	NA	NA
Phenanthrene	ug/L	None	None	< 0.18	< 0.046 d	NA	NA	NA	NA
Pyrene	ug/L	50	250	< 0.068	< 0.017 d	NA	NA	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
 NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit
 PVOCs = Petroleum volatile organic compounds
 PAHs = Polycyclic aromatic hydrocarbons
 d = Duplicate sample
 NA = Not analyzed
 Q = Result between level of detection and level of quantification
 < = Less than level of detection
 MTBE = Methyl-tert butyl ether
 TMB = 1,3,5 and 1,2,4-trimethylbenzene

930 =Exceeds ES
6.9 =Exceeds PAL

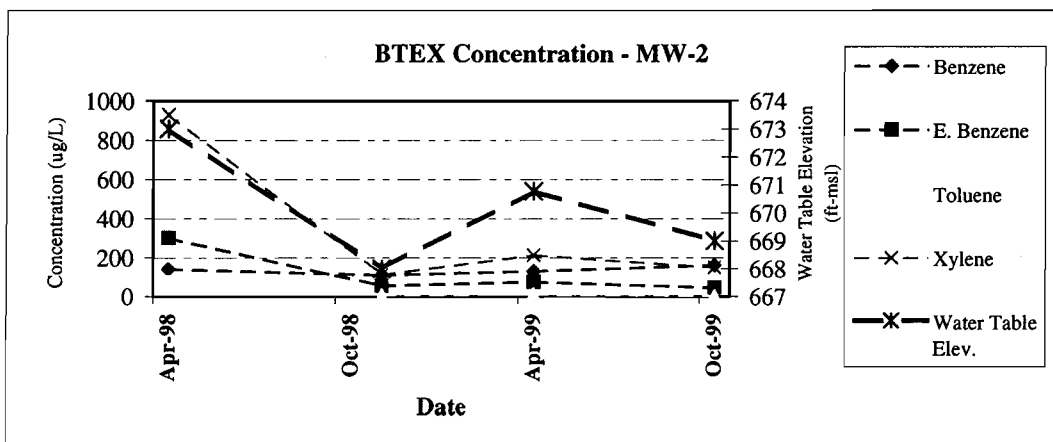


TABLE 4
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-3

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/13/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	< 0.21	< 1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	=Exceeds ES
6.9	=Exceeds PAL

TABLE 5
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-4

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	< 0.21	< 1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 6
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-5

		NR 140	NR 140	Date:			
		PAL	ES	4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	Q 0.77	1
E Benzene	ug/L	140	700	< 0.24	< 0.24	Q 0.29	1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	< 0.21	1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 7
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Monitoring Well MW-6

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	11/3/98	4/12/99	10/14/99
PVOCs		Units						
Benzene	ug/L	0.5	5	9.4	2.3	2.1 d	1.7	Q 2
E Benzene	ug/L	140	700	64	13	12 d	2.1	Q 4
Toluene	ug/L	68.6	343	44	Q 0.50	Q 0.37 d	< 0.21	< 1
Xylene (total)	ug/L	124	620	420	7.2	6.9 d	1.6	< 1
MTBE	ug/L	12	60	6.0	Q 0.44	Q 0.31 d	< 0.22	< 1
TMB	ug/L	96	480	161	3.9	3.7 d	1.1	< 1
Naphthalene	ug/L	8	40	12	< 0.89	< 0.89	< 0.89	< 5
PAHs								
Acenaphthene	ug/L	None	None	< 0.47	NA	NA	NA	NA
Acenaphthylene	ug/L	None	None	< 0.41	NA	NA	NA	NA
Anthracene	ug/L	600	3,000	< 0.021	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	None	None	< 0.014	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	< 0.015	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	< 0.015	NA	NA	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.021	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	< 0.009	NA	NA	NA	NA
Chrysene	ug/L	0.02	0.2	< 0.016	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	None	None	< 0.02	NA	NA	NA	NA
Fluoranthene	ug/L	80	400	< 0.015	NA	NA	NA	NA
Fluorene	ug/L	80	400	Q 0.12	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	< 0.025	NA	NA	NA	NA
1-Methylnaphthalene	ug/L	None	None	Q 0.37	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	None	None	Q 0.75	NA	NA	NA	NA
Naphthalene	ug/L	8	40	Q 0.74	NA	NA	NA	NA
Phenanthrene	ug/L	None	None	Q 0.056	NA	NA	NA	NA
Pyrene	ug/L	50	250	< 0.017	NA	NA	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
 NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit
 PVOCs = Petroleum volatile organic compounds
 PAHs = Polycyclic aromatic hydrocarbons
 d = Duplicate sample
 NA = Not analyzed
 Q = Result between level of detection and level of quantification
 < = Less than level of detection
 MTBE = Methyl-tert butyl ether
 TMB = 1,3,5 and 1,2,4-trimethylbenzene

9.30 = Exceeds ES
6.9 = Exceeds PAL

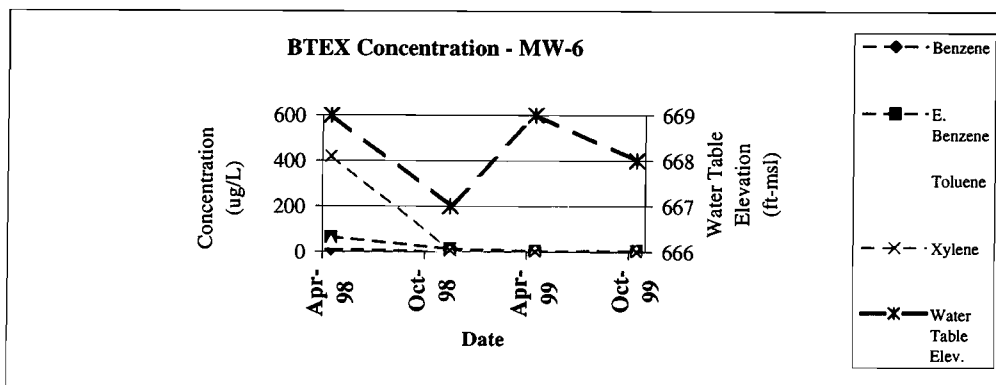


TABLE 8
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-7

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.52	< 0.52	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.48	< 0.48	< 1
Toluene	ug/L	68.6	343	Q 0.22	< 0.42	< 0.42	< 1
Xylene (total)	ug/L	124	620	< 0.37	2.1	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.44	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	2.1	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	Q 3.9	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	=Exceeds ES
6.9	=Exceeds PAL

TABLE 9
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-8

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	Q 0.35	Q 0.23	< 0.21	< 1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 10
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Monitoring Well MW-9

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs		Units					
Benzene	ug/L	0.5	5	1.9	110	12	< 1
E Benzene	ug/L	140	700	19	1,200	280	370
Toluene	ug/L	68.6	343	26	400	75	150
Xylene (total)	ug/L	124	620	380	1,200	412	970
MTBE	ug/L	12	60	0.85	32	< 0.44	< 1
TMB	ug/L	96	480	67	610	155	228
Naphthalene	ug/L	8	40	4.4	91	23	35
PAHs							
Acenaphthene	ug/L	None	None	< 0.47	NA	NA	NA
Acenaphthylene	ug/L	None	None	< 0.41	NA	NA	NA
Anthracene	ug/L	600	3,000	< 0.021	NA	NA	NA
Benzo(a)anthracene	ug/L	None	None	< 0.014	NA	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	< 0.015	NA	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	< 0.015	NA	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.021	NA	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	< 0.009	NA	NA	NA
Chrysene	ug/L	0.02	0.2	< 0.016	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	None	None	< 0.02	NA	NA	NA
Fluoranthene	ug/L	80	400	< 0.015	NA	NA	NA
Fluorene	ug/L	80	400	Q 0.12	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	< 0.025	NA	NA	NA
1-Methylnaphthalene	ug/L	None	None	Q 0.37	NA	NA	NA
2-Methylnaphthalene	ug/L	None	None	Q 0.75	NA	NA	NA
Naphthalene	ug/L	8	40	Q 0.74	NA	NA	NA
Phenanthrene	ug/L	None	None	Q 0.056	NA	NA	NA
Pyrene	ug/L	50	250	< 0.017	NA	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

PVOCs = Petroleum volatile organic compounds

PAHs = Polycyclic aromatic hydrocarbons

d = Duplicate sample

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930 = Exceeds ES
 6.9 = Exceeds PAL

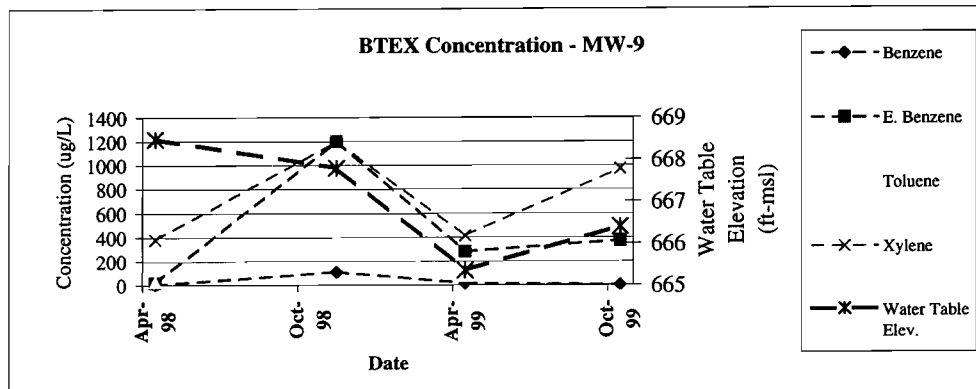


TABLE 11
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-10

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	Q 0.33	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	Q 0.61	< 0.21	< 0.21	< 1
Xylene (total)	ug/L	124	620	< 0.22	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 5

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930 = Exceeds ES

6.9 = Exceeds PAL

TABLE 12
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-11

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/13/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	NA
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	NA
Toluene	ug/L	68.6	343	Q 0.36	< 0.21	< 0.21	NA
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	NA
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	NA
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	NA
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	=Exceeds ES
6.9	=Exceeds PAL

TABLE 13
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-12

		NR 140	NR 140	Date:			
		PAL	ES	4/13/98	11/3/98	4/13/99	10/14/99
PVOCs	units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	NA
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	NA
Toluene	ug/L	68.6	343	Q 0.46	< 0.21	< 0.21	NA
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	NA
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	NA
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	NA
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl-tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	=Exceeds ES
6.9	=Exceeds PAL

TABLE 14
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
Monitoring Well MW-13

		NR 140	NR 140	Date:				
		PAL	ES	4/13/98	11/3/98	4/13/99	4/13/99	10/14/99
PVOCs	units							
Benzene	ug/L	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26d	NA
E Benzene	ug/L	140	700	< 0.24	< 0.24	< 0.24	< 0.24d	NA
Toluene	ug/L	68.6	343	< 0.21	< 0.21	< 0.21	< 0.21d	NA
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	< 0.37	< 0.37	NA
MTBE	ug/L	12	60	< 0.22	< 0.22	< 0.22	< 0.22d	NA
TMB	ug/L	96	480	< 0.54	< 0.54	< 0.54	< 0.54d	NA
Naphthalene	ug/L	8	40	< 0.89	< 0.89	< 0.89	< 0.89d	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit
NA = Not analyzed
Q = Result between level of detection and level of quantification
< = Less than level of detection
MTBE = Methyl-tert butyl ether
TMB = 1,3,5 and 1,2,4-trimethylbenzene

930 = Exceeds ES
6.9 = Exceeds PAL

TABLE 15
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Piezometer PZ-1

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/13/99	10/14/99
PVOCs							
	Units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	0.24	< 1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	0.21	< 1
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	0.89	< 1
PAHs							
Acenaphthene	ug/L	None	None	Q 0.47	< 0.62	NA	NA
Acenaphthylene	ug/L	None	None	Q 0.41	< 0.54	NA	NA
Anthracene	ug/L	600	3,000	Q 0.021	< 0.028	NA	NA
Benzo(a)anthracene	ug/L	None	None	Q 0.014	< 0.018	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	Q 0.027	< 0.020	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	Q 0.023	< 0.020	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.021	< 0.028	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	Q 0.010	< 0.012	NA	NA
Chrysene	ug/L	0.02	0.2	Q 0.020	< 0.021	NA	NA
Dibenzo(a,h,)anthracene	ug/L	None	None	< 0.020	Q 0.030	NA	NA
Fluoranthene	ug/L	80	400	Q 0.040	Q 0.024	NA	NA
Fluorene	ug/L	80	400	< 0.058	< 0.076	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	Q 0.056	Q 0.041	NA	NA
1-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.47	NA	NA
2-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.47	NA	NA
Naphthalene	ug/L	8	40	< 0.42	< 0.55	NA	NA
Phenanthrene	ug/L	None	None	< 0.046	< 0.061	NA	NA
Pyrene	ug/L	50	250	Q 0.031	< 0.022	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
 NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit
 PVOCs = Petroleum volatile organic compounds
 PAHs = Polycyclic aromatic hydrocarbons
 d = Duplicate sample
 NA = Not analyzed
 Q = Result between level of detection and level of quantification
 < = Less than level of detection
 MTBE = Methyl tert butyl ether
 TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 16
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Piezometer PZ-2

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/12/99	10/14/99
PVOCs							
	Units						
Benzene	ug/L	0.5	5	< 0.26	< 0.26	0.26	< 1
E Benzene	ug/L	140	700	< 0.24	< 0.24	0.24	< 1
Toluene	ug/L	68.6	343	< 0.21	< 0.21	0.21	< 1
Xylene	ug/L	124	620	< 0.37	< 0.37	0.37	< 1
MTBE	ug/L	12	60	< 0.22	< 0.22	0.22	< 1
TMB	ug/L	96	480	< 0.54	< 0.54	0.54	< 1
Naphthalene	ug/L	8	40	< 0.89	< 0.89	0.89	< 1
PAHs							
Acenaphthene	ug/L	None	None	Q 0.47	< 0.047	NA	NA
Acenaphthylene	ug/L	None	None	Q 0.41	< 0.41	NA	NA
Anthracene	ug/L	600	3,000	Q 0.021	< 0.021	NA	NA
Benzo(a)anthracene	ug/L	None	None	Q 0.014	< 0.014	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	Q 0.018	< 0.015	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	Q 0.015	< 0.015	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.021	< 0.028	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	< 0.009	< 0.009	NA	NA
Chrysene	ug/L	0.02	0.2	< 0.016	< 0.016	NA	NA
Dibenzo(a,h)Anthracene	ug/L	None	None	< 0.020	< 0.02	NA	NA
Fluoranthene	ug/L	80	400	Q 0.028	< 0.015	NA	NA
Fluorene	ug/L	80	400	< 0.058	< 0.058	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	Q 0.035	< 0.025	NA	NA
1-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.36	NA	NA
2-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.36	NA	NA
Naphthalene	ug/L	8	40	< 0.42	< 0.42	NA	NA
Phenanthrene	ug/L	None	None	< 0.046	< 0.046	NA	NA
Pyrene	ug/L	50	250	Q 0.019	< 0.017	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard

NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

PVOCs = Petroleum volatile organic compounds

PAHs = Polycyclic aromatic hydrocarbons

d = Duplicate sample

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 17
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Piezometer PZ-3

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	11/3/98	4/13/99	10/14/99
PVOCs								
Benzene	ug/L	0.5	5	< 0.26	< 0.26	NA	0.26	NA
E Benzene	ug/L	140	700	< 0.24	< 0.24	NA	0.24	NA
Toluene	ug/L	68.6	343	Q 0.4	< 0.21	NA	0.21	NA
Xylene (total)	ug/L	124	620	< 0.37	< 0.37	NA	0.37	NA
MTBE	ug/L	12	60	< 0.22	< 0.22	NA	0.22	NA
TMB	ug/L	96	480	< 0.54	< 0.54	NA	0.54	NA
Naphthalene	ug/L	8	40	< 0.89	< 0.89	NA	0.89	NA
PAHs								
Acenaphthene	ug/L	None	None	Q 0.47	< 0.47	< 0.63 d	NA	NA
Acenaphthylene	ug/L	None	None	Q 0.41	< 0.41	< 0.55 d	NA	NA
Anthracene	ug/L	600	3,000	Q 0.021	< 0.021	Q 0.051 d	NA	NA
Benzo(a)anthracene	ug/L	None	None	Q 0.014	Q 0.019	Q 0.046 d	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	< 0.015	Q 0.033	0.087 d	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	< 0.015	Q 0.038	0.1 d	NA	NA
Benzo(ghi)perylene	ug/L	None	None	< 0.021	Q 0.033	0.09 d	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	< 0.009	Q 0.019	0.05 d	NA	NA
Chrysene	ug/L	0.02	0.2	< 0.016	Q 0.035	0.091 d	NA	NA
Dibenzo(a,h,)anthracene	ug/L	None	None	Q 0.023	0.071	0.11 d	NA	NA
Fluoranthene	ug/L	80	400	< 0.015	0.084	0.24 d	NA	NA
Fluorene	ug/L	80	400	< 0.058	< 0.058	< 0.077 d	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	< 0.025	Q 0.075	0.21 d	NA	NA
1-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.36	< 0.48 d	NA	NA
2-Methylnaphthalene	ug/L	None	None	< 0.36	< 0.36	< 0.48 d	NA	NA
Naphthalene	ug/L	8	40	< 0.42	< 0.42	< 0.56 d	NA	NA
Phenanthrene	ug/L	None	None	< 0.046	< 0.046	Q 0.093 d	NA	NA
Pyrene	ug/L	50	250	< 0.017	0.061	0.17 d	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
 NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

PVOCs = Petroleum volatile organic compounds

PAHs = Polycyclic aromatic hydrocarbons

d = Duplicate sample

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930	= Exceeds ES
6.9	= Exceeds PAL

TABLE 18
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GROUND WATER QUALITY DATA
 Piezometer PZ-4

		NR 140 PAL	NR 140 ES	Date: 4/13/98	11/3/98	4/13/99	10/14/99
PVOCs							
	Units						
Benzene	ug/L	0.5	5	0.26	< 0.26	< 0.26	< 1
E Benzene	ug/L	140	700	0.24	< 0.24	< 0.24	< 1
Toluene	ug/L	68.6	343	0.21	< 0.21	< 0.21	< 1
Xylene (total)	ug/L	124	620	0.37	< 0.37	< 0.37	< 1
MTBE	ug/L	12	60	0.22	< 0.22	< 0.22	< 1
TMB	ug/L	96	480	0.54	< 0.54	< 0.54	< 1
Naphthalene	ug/L	8	40	0.89	< 0.89	< 0.89	< 1
PAHs							
Acenaphthene	ug/L	None	None	0.47	< 0.47	NA	NA
Acenaphthylene	ug/L	None	None	0.41	< 0.41	NA	NA
Anthracene	ug/L	600	3,000	0.021	< 0.021	NA	NA
Benzo(a)anthracene	ug/L	None	None	0.019	< 0.014	NA	NA
Benzo(a)pyrene	ug/L	0.02	0.2	Q 0.020	Q 0.026	NA	NA
Benzo(b)fluoranthene	ug/L	None	None	Q 0.018	Q 0.029	NA	NA
Benzo(ghi)perylene	ug/L	None	None	0.021	Q 0.026	NA	NA
Benzo(k)fluoranthene	ug/L	None	None	Q 0.0093	Q 0.016	NA	NA
Chrysene	ug/L	0.02	0.2	Q 0.017	Q 0.027	NA	NA
Dibenzo(a,h,)Anthracene	ug/L	None	None	0.020	Q 0.032	NA	NA
Fluoranthene	ug/L	80	400	Q 0.038	0.064	NA	NA
Fluorene	ug/L	80	400	0.058	< 0.058	NA	NA
Indeno(1,2,3-cd)Pyrene	ug/L	None	None	Q 0.045	Q 0.061	NA	NA
1-Methylnaphthalene	ug/L	None	None	0.36	< 0.36	NA	NA
2-Methylnaphthalene	ug/L	None	None	0.36	< 0.36	NA	NA
Naphthalene	ug/L	8	40	0.42	< 0.42	NA	NA
Phenanthrene	ug/L	None	None	0.046	< 0.046	NA	NA
Pyrene	ug/L	50	250	Q 0.026	Q 0.049	NA	NA

NR 140 ES = Wis. Adm. Code Ch. NR 140 Enforcement Standard
 NR 140 PAL = Wis. Adm. Code Ch. NR 140 Preventive Action Limit

PVOCs = Petroleum volatile organic compounds

PAHs = Polycyclic aromatic hydrocarbons

d = Duplicate sample

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

MTBE = Methyl tert butyl ether

TMB = 1,3,5 and 1,2,4-trimethylbenzene

930 = Exceeds ES
6.9 = Exceeds PAL

TABLE 19

MITCHELL FIELD - 128th ANG BASE
SOIL ANALYTICAL DATA SUMMARY

Parameter:	GRO	DRO	Benzene	EBenzene	Toluene	Xylene	MTBE	1,3,5-TMB	1,2,4-TMB	Lead	TOC	
Unit:	mg/Kg	mg/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	mg/Kg	
Sample ID	Well/Boring ID											
MF-S-2-6	B-2	< 4.2	NA	Q 44	< 25	< 25	< 25	< 25	< 25	< 25	18	NA
MF-S-4-5	TW-4	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	13	NA
MF-S-6-10	B-6	< 3.5	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 12	NA
MF-S-7-5	B-7	< 3.8	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	17	NA
MF-S-9-4	B-9	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 10	NA
MF-S-10-3	TW-10	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	14	NA
MF-S-11-5	TW-11	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.3	NA
MF-S-12-5	B-12	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.9	NA
MF-S-13-6	B-13	47	NA	< 25	270	< 25	410	120	130	< 25	Q 9.4	NA
MF-S-14-6	B-14	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	14	NA
MF-S-15-5	B-15	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.4	NA
MF-S-16-4*	TW-16	750	350	980	7,500	< 250	19,000	1,300	7,500	21,700	Q 11	NA
MF-S-18-4	TW-18	< 3.2	< 4.6	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.5	NA
MF-S-19-4	TW-19	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	12	NA
MF-S-20-2	TW-20	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.5	NA
MF-S-21-5	TW-21	< 3.3	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 11	NA
MF-S-22-5	TW-22	< 3.3	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.7	NA
MF-S-22-7	TW-22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,600
MF-S-23-3	TW-23	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 12	NA
MF-S-24-5	TW-24	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.8	NA
MS-S-25-3	TW-25	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 10	NA
MF-S-26-5	B-26	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.6	NA
MF-S-27-4	B-28	< 3.3	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	17	NA
MF-S-29-4	B-29	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	14	NA
MF-S-30-4	B-30	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.2	NA
MF-S-31-4	B-31	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 11	NA
MF-S-32-4	TW-32	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.8	NA
MF-S-33-4	TW-33	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 12	NA
MF-S-34-5	TW-34	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.2	NA
MF-S-35-7	B-35	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.2	NA
MF-S-36-7	B-36	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	Q 10	NA

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

* Sample depth below ground water table

TABLE 19 (Cont.)

MITCHELL FIELD - 128th ANG BASE
SOIL ANALYTICAL DATA SUMMARY

Parameter:	GRO	DRO	Benzene	EBenzene	Toluene	Xylene	MTBE	1,3,5-TMB	1,2,4-TMB	Lead	TOC
Unit:	mg/Kg	mg/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	mg/Kg	mg/Kg
NR 720 RCL:	100	100	5.5	2,900	1,500	4,100	None	None	None	500	None
Sample ID	Well/Boring ID										
MF-S-37-6	B-37	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.9	NA
MF-S-38-6	B-38	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.5	NA
MF-S-39-6	B-39	< 11	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 14	NA
MF-S-40-6	B-40	< 12	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 15	NA
MF-S-41-8	B-41	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.3	NA
MF-S-42-6	TW-42	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.8	NA
MF-S-43-6	B-43	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.3	NA
MF-S-44-4	TW-44	< 2.9	< 4.0	< 25	< 25	< 25	< 25	< 25	< 25	Q 6.9	NA
MF-S-44-10	TW-44	NA	NA	NA	NA	NA	NA	NA	NA	5.4	1,100
MF-S-45-4	B-45	< 3.0	< 4.3	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.5	NA
MF-S-46-6	TW-46	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 7.0	NA
MF-S-47-7	B-47	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 6.3	NA
MF-S-48-5	TW-48	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 10.0	NA
MF-S-49-6	B-49	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 9.4	NA
MF-S-50-4	B-50	< 2.9	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 6.5	NA
MF-S-51-6	B-51	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 6.5	NA
MF-S-52-3	TW-52	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 4.6	NA
MF-S-53-6	TW-53	< 5.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.4	NA
MF-S-54-3	B-54	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.9	NA
MF-S-55-5	TW-55	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	Q 8.0	NA
MF-S-56-5	B-56	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	11	NA
MF-S-57-4	TW-57	5.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA
MF-S-58-5	TW-58	< 3.2	NA	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA
MF-S-59-4	TW-59	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA
MF-S-60-4	TW-60	< 3.1	NA	< 25	< 25	< 25	< 25	< 25	< 25	NA	NA
MF-S-61-5	TW-61	170	NA	810	2,900	290	8,320	140	2,800	7,700	NA
MF-S-62-5*	TW-62	< 3.0	NA	< 25	< 25	< 25	< 25	< 25	< 25	< 25	NA
MF-S-63-6/7	B-63	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,800

NA = Not analyzed

Q = Result between level of detection and level of quantification

< = Less than level of detection

* Sample depth below ground water table

TABLE 20
MITCHELL FIELD - 128th ANG BASE
SUMMARY OF GEOCHEMICAL EVIDENCE FOR NATURAL ATTENUATION

SE CORNER				Upgradient			Plume Interior			Downgradient		
		Date	Location		Date	Location		Date	Location			
BTEX (ug/L)	<1	Apr-98	MW-1	1,446	Apr-98	MW-2	<1	Apr-98	MW-3			
	<1	Nov-98	MW-1	285	Nov-98	MW-2	<1	Nov-98	MW-3			
	<1	Apr-99	MW-1	428	Apr-99	MW-2	<1	Apr-99	MW-3			
	<1	Oct-99	MW-1	359	Oct-99	MW-2	<1	Oct-99	MW-3			
Fe(II) (mg/L)	<0.5	Apr-98	MW-1	0.5	Apr-98	MW-2	1.5	Apr-98	MW-3			
	0.5	Nov-98	MW-1	2.5	Nov-98	MW-2	1.0	Nov-98	MW-3			
	1.2	Apr-99	MW-1	3.0	Apr-99	MW-2	1.5	Apr-99	MW-3			
	1.2	Oct-99	MW-1	5.2	Oct-99	MW-2	4.8	Oct-99	MW-3			
Sulfate (mg/L)	220	Oct-97	TW-2	9	Oct-97	TW-1	NA	Oct-97	NA			
	218	Oct-99	MW-1	<2	Oct-99	MW-2	495	Oct-99	MW-3			
ORP (mV)	186	Apr-98	MW-1	178	Apr-98	MW-2	195	Apr-98	MW-3			
	301	Nov-98	MW-1	232	Nov-98	MW-2	313	Nov-98	MW-3			
	231	Apr-99	MW-1	126	Apr-99	MW-2	271	Apr-99	MW-3			
	523	Oct-99	MW-1	398	Oct-99	MW-2	449	Oct-99	MW-3			
SW CORNER				Upgradient			Plume Interior			Downgradient		
		Date	Location		Date	Location		Date	Location			
BTEX (ug/L)	<1	Apr-98	MW-5	427	Apr-98	MW-9	<1	Apr-98	MW-10			
	<1	Nov-98	MW-5	2,910	Nov-98	MW-9	<1	Nov-98	MW-10			
	<1	Apr-99	MW-5	779	Apr-99	MW-9	<1	Apr-99	MW-10			
	<1	Oct-99	MW-5	1,490	Oct-99	MW-9	<1	Oct-99	MW-10			
Fe(II) (mg/L)	<0.5	Apr-98	MW-5	<0.5	Apr-98	MW-9	<0.5	Apr-98	MW-10			
	<0.5	Nov-98	MW-5	0.5	Nov-98	MW-9	<0.5	Nov-98	MW-10			
	0.5	Apr-99	MW-5	0.7	Apr-99	MW-9	<0.5	Apr-99	MW-10			
	<0.5	Oct-99	MW-5	0.8	Oct-99	MW-9	0.2	Oct-99	MW-10			
Sulfate (mg/L)	180	Oct-97	TW-62	47	Oct-97	TW-62	220	Oct-97	TW-62			
	379	Oct-99	MW-5	77	Oct-99	MW-5	101	Oct-99	MW-5			
ORP (mV)	258	Apr-98	MW-5	163	Apr-98	MW-9	177	Apr-98	MW-10			
	343	Nov-98	MW-5	282	Nov-98	MW-9	328	Nov-98	MW-10			
	235	Apr-99	MW-5	162	Apr-99	MW-9	279	Apr-99	MW-10			
	439	Oct-99	MW-5	454	Oct-99	MW-9	483	Oct-99	MW-10			

BTEX = Total benzene, toluene, ethyl benzene and xylene
 Fe(II) = Ferrous iron
 ORP = Oxidation-reduction potential (redox)
 NA = No data available

ug/L = micrograms per liter
 mg/L = milligrams per liter
 mV = millivolts