To: Larry Lester, SCR

From: Linda Hanefeld
Dodgeville
608-935-1948

Re: Groundwater Use Restriction
GIS Registry Data

Site Name/Address:

FOUR LAKES AVIATION #3

MADISON

BRRTS #:
03-13-002077

Date of Closure Decision:

8/17/99

Packet Contains:
1. Closure Letter Cover + Fax
2. All property deeds with 140 ES exceedances
3. GPS data for each affected property
4. General location map
5. Detailed location map, showing all parcels affected by 140 ES exceedances, property boundaries, buildings, etc.
6. Latest map showing gw flow direction, MW, potable wells. *[optional: Isoconcentration maps of compounds =/>ES]*
7. Latest map showing extent or outline of contamination plume and gw flow direction
8. Latest table of analytical results
9. Metes/bounds legal description (certified survey)
10. Tax parcel number
11. Geologic cross section

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

August 17, 1999

File Ref: Dane County
03-13-002077

Mr. Sid Julson
6923 Donnybill Road
DeForest, WI 53532

Subject: Final Site Closure - Four Lakes Aviation Fuel Farm 3

Dear Mr. Julson:

The Department has received the completed groundwater use restriction and monitoring well abandonment forms. With this information the Department considers this site closed and no further action is required.

Sincerely,

Michael Schmoller
Hydrogeologist
608-275-3303

c

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

March 17, 1999

File Ref: Dane County
03-13-002770

Dane County Regional Airport
Mr. Michael Kirchner
4000 International Lane
Madison, WI 53704

Subject: Site Closure - Four Lakes Aviation Fuel Farm 3 - Madison

Dear Mr. Kirchner:

On March 5, 1999 the above mentioned site was reviewed by the South Central Region Closure Committee. The committee reviews environmental remediation cases for compliance with state laws, standards, and guidelines to maintain consistency in the closeout of cases.

Based on the correspondence and data provided, it appears that your site has been remediated to Department standards. No further investigation or remediation is required at this time.
Before final closure is granted all groundwater wells and soil borings remaining on site must be properly abandoned. Also, a groundwater use restriction must be filed for this site. A copy of the restriction is included. This restriction must be filed with proof of filing sent to the Department.

Please be aware that this letter does not absolve the current or any future owner of this property from future responsibility regarding this site or impacts that may be discovered and/or traced back to past or future activities at this site. If in the future the Department receives information which shows that additional work is necessary, the Department has the authority to require further action.

The Department appreciates your efforts to restore the environment at this site. If you have questions regarding this letter, please contact me at the number shown below.

Sincerely,

Michael Schmoller
Hydrogeologist
608-275-3303

3318 A

Document Number | GROUNDWATER USE RESTRICTION

DANE COUNTY
REGISTER OF DEEDS

3139913

07-30-1999 2:25 PM

Trans. Fee

Rec. Fee 6.00
Pages 3

In Re: Dane County Regional Airport, Tax Parcel 0810-204-0099-1

Recording Area 000597

Name and Return Address

Charles J. Peterson
Dane County Regional Airport
4000 International Lane
Madison, WI 53704-3120

Parcel ID Number
60-0810-204-0099-1

Declaration of Restrictions

STATE OF WISCONSIN)
) ss
COUNTY OF DANE)

WHEREAS, Dane County Regional Airport is the owner of the above-described property, more particularly described on Exhibit "A", attached hereto and incorporated herein by this reference ("Property").

WHEREAS, one or more volatile organic chemical discharges have occurred at this property. Organic chemical contaminated groundwater above NR 140 Wisconsin Administrative Code enforcement standards for benzene exists on this property.

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

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809 is restricted by ch. NR 811 and ch. NR 812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

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

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor, to

3/6

determine what specific prohibitions or requirements are applicable prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by, the Wisconsin Department of Natural Resources, its successors and assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

000598

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restrictions set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit can be recorded to give notice that this groundwater use restriction is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 7th day of JUNE, 1999.

By signing this document, _____, acknowledges that he/she is duly authorized to sign this document on behalf of the Dane County Regional Airport.

Dane County Executive:

Signature: Kathleen M. Falk
Printed Name: Kathleen M. Falk

Subscribed and sworn to before me this 7th day of June, 1999
Notary Public, State of Wisconsin
My commission expires 3/24/02

Dane County Clerk:

Signature: Joseph T. Parisi
Printed Name: Joseph T. Parisi

Subscribed and sworn to before me this 8th day of June, 1999.
Notary Public, State of WI
My commission 7-23-2000

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

GEOGRAPHIC PARAMETER ENTRY - (NQLG)

Parcel: 0810-204-0099-1 Date: 02/02/99 Time: 11:33:26

OR Address: 3500 Corben Ct MCD Code: MAD-C

OR Owner Name: DANE COUNTY REGIONAL AIRPORT

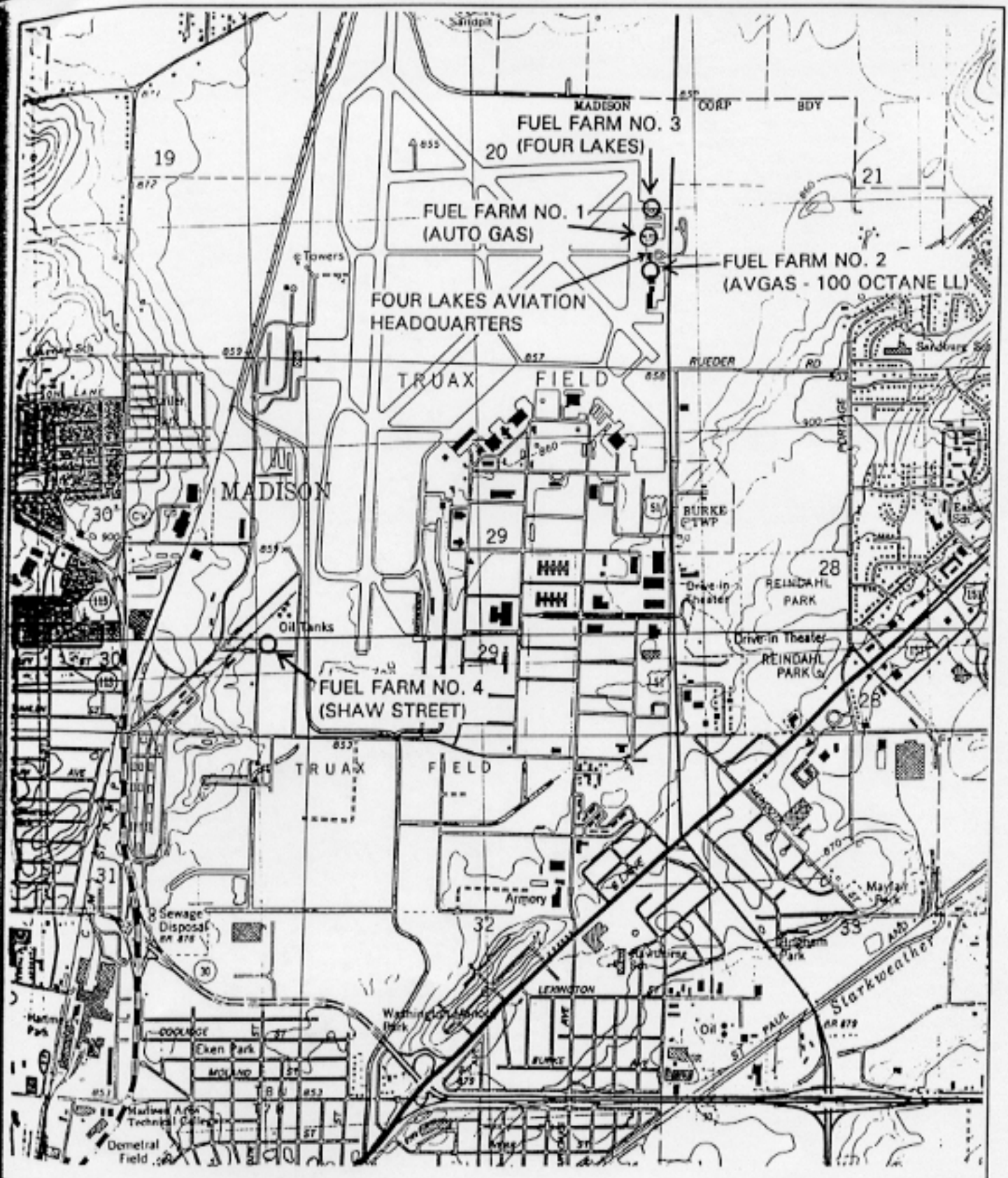
Browsing file in PARCEL order

000599

LEGAL DESCRIPTIONS QUERY (NQLG)

Lot #: 0 Block #: 0 Class: RES Use: VACANT LAND Area: 601

01 SEC 20, T8N R10E, SE 1/4



Base map taken from USGS 7.5 minute topographic quadrangle, De Forest, Wisconsin (1983) and Madison East, Wisconsin (1983)

SCALE: 1:24 000

QUADRANGLE LOCATION

N

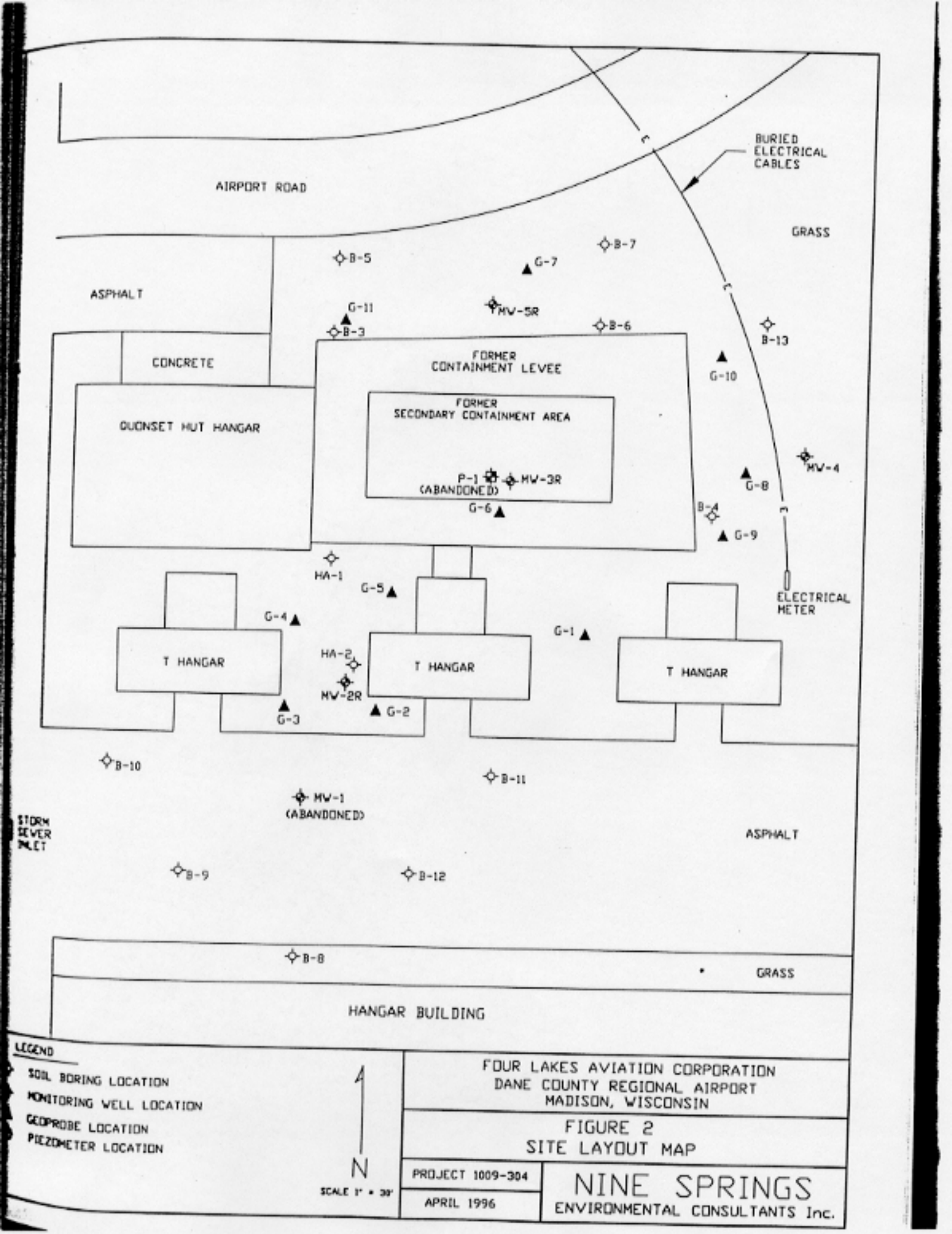
FOUR LAKES AVIATION
DANE COUNTY AIRPORT
MADISON, WISCONSIN

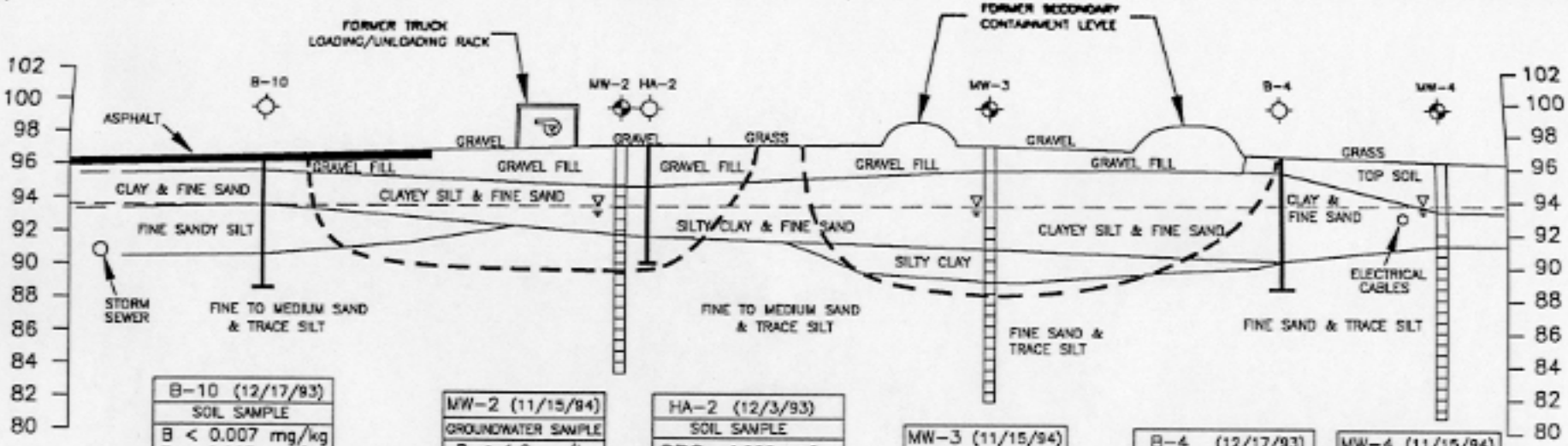
FIGURE 1
SITE LOCATION MAP

PROJECT 1009

NOVEMBER 1993

NINE SPRINGS
ENVIRONMENTAL CONSULTANTS, Inc.


AIRPORT ROAD
BURIED ELECTRICAL CABLES
GRASS
ASPHALT
CONCRETE
QUONSET HUT HANGAR
FORMER CONTAINMENT LEVEE
FORMER SECONDARY CONTAINMENT AREA
T HANGAR
T HANGAR
T HANGAR
HANGAR BUILDING
ELECTRICAL METER
STORM SEWER INLET
B-3
B-4
B-5
B-6
B-7
B-8
B-9
B-10
B-11
B-12
B-13
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
HA-1
HA-2
MW-1 (ABANDONED)
MW-2R
MW-3R
MW-4
MW-5R
P-1 (ABANDONED)
LEGEND
SOIL BORING LOCATION
MONITORING WELL LOCATION
GEOPROBE LOCATION
PIEZOMETER LOCATION
N
SCALE 1" = 30'
FOUR LAKES AVIATION CORPORATION
DANE COUNTY REGIONAL AIRPORT
MADISON, WISCONSIN
FIGURE 2
SITE LAYOUT MAP
PROJECT 1009-304
APRIL 1996
NINE SPRINGS
ENVIRONMENTAL CONSULTANTS Inc.



B-10 (12/17/93)
SOIL SAMPLE
B < 0.007 mg/kg
T < 0.007 mg/kg
E < 0.007 mg/kg
X < 0.007 mg/kg
N < 0.005 mg/kg

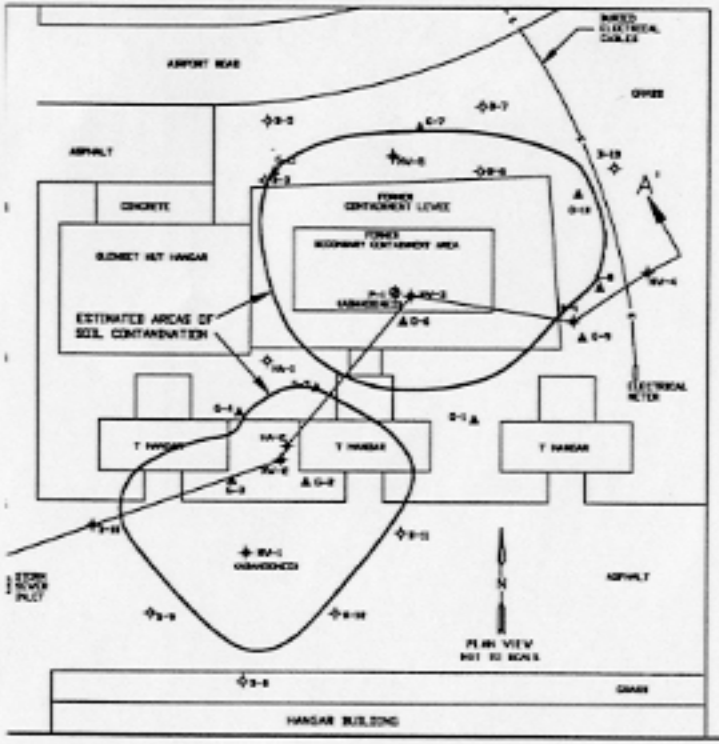
MW-2 (11/15/94)
GROUNDWATER SAMPLE
B < 1.0 µg/l
T = 1.0 µg/l
E = 2.3 µg/l
X = 3.8 µg/l
N = 19 µg/l

HA-2 (12/3/93)
SOIL SAMPLE
DRO = 4,000 mg/kg
B < 0.063 mg/kg
T = 0.11 mg/kg
E = 3.2 mg/kg
X = 1.23 mg/kg

MW-3 (11/15/94)
GROUNDWATER SAMPLE
B = 12 µg/l
T < 1.0 µg/l
E = 65 µg/l
X = 145.2 µg/l
N = 71 µg/l

B-4 (12/17/93)
SOIL SAMPLE
B < 0.007 mg/kg
T < 0.007 mg/kg
E < 0.007 mg/kg
X < 0.007 mg/kg
N < 0.005 mg/kg

MW-4 (11/15/94)
GROUNDWATER SAMPLE
B < 1.0 µg/l
T < 1.0 µg/l
E < 1.0 µg/l
X < 2.0 µg/l
N = 1.4 µg/l



LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- ESTIMATED EXTENT OF SOIL CONTAMINATION
- DEPTH TO WATER

BOLD, ITALICS = RESULT EXCEEDS ES OR SOIL CLEANUP STANDARDS

BOLD = RESULT EXCEEDS PAL

HORIZONTAL SCALE 1" = 30'
VERTICAL SCALE 1" = 10'

NOTE:

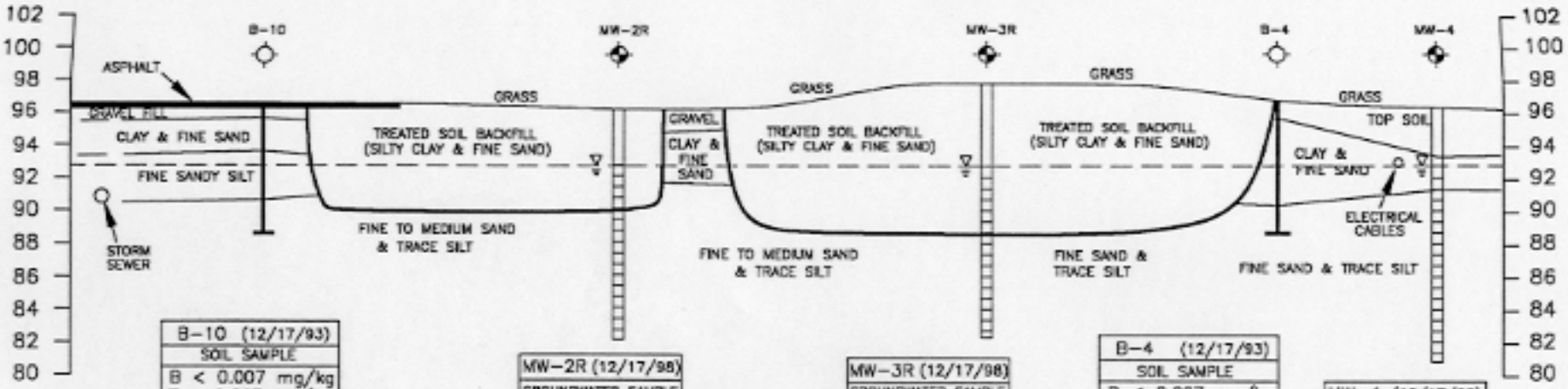
The depth to water elevation is shown as measured on November 15, 1994. The depth to water is accurate at monitoring well locations only.

FOUR LAKES AVIATION CORPORATION
FUEL FARM No. 3
DANE COUNTY REGIONAL AIRPORT
MADISON, WISCONSIN

CROSS SECTION 1
PRE-REMEDIATION GEOLOGIC CROSS SECTION (A-A')

PROJECT 1009-304
JANUARY 1999
DRAWN BY GEY
1:10, X=0, Y=0, W

NINE SPRINGS
ENVIRONMENTAL CONSULTANTS, Inc.
2817 FISH HATCHERY ROAD
MADISON, WISCONSIN 53713



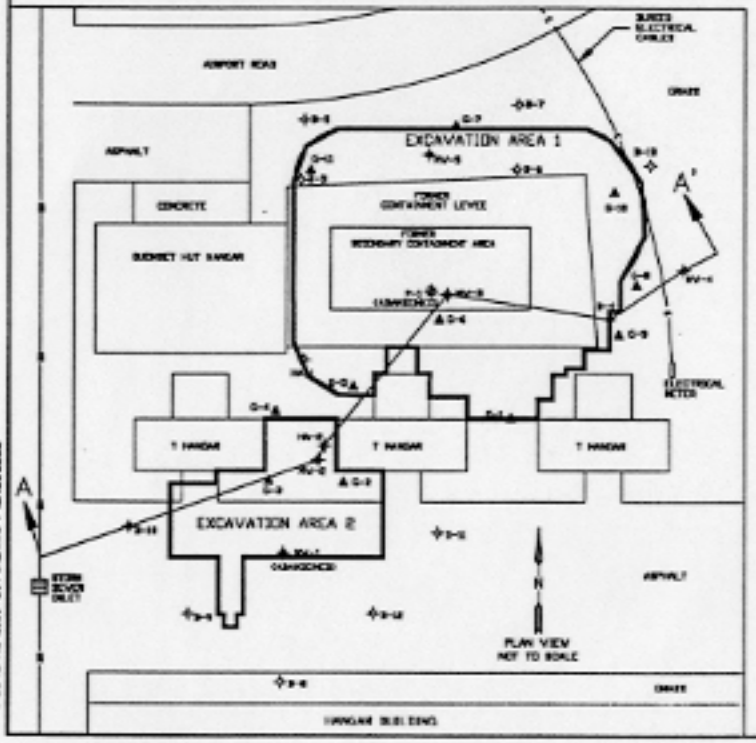
B-10 (12/17/93)
SOIL SAMPLE
B < 0.007 mg/kg
T < 0.007 mg/kg
E < 0.007 mg/kg
X < 0.007 mg/kg
N < 0.005 mg/kg

MW-2R (12/17/98)
GROUNDWATER SAMPLE
B < 0.20 µg/l
T < 2.0 µg/l
E = 0.5 µg/l
X <0.90 µg/l
N = NT

MW-3R (12/17/98)
GROUNDWATER SAMPLE
B = 11 µg/l
T = 0.3 µg/l
E = 32 µg/l
X = 28.3 µg/l
N = 20 µg/l

B-4 (12/17/93)
SOIL SAMPLE
B < 0.007 mg/kg
T < 0.007 mg/kg
E < 0.007 mg/kg
X < 0.007 mg/kg
N < 0.005 mg/kg

MW-4 (12/17/98)
GROUNDWATER SAMPLE
B < 0.20 µg/l
T < 0.20 µg/l
E < 0.30 µg/l
X < 0.90 µg/l
N = NT



LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- — ▽ — DEPTH TO WATER

BOLD, ITALICS = RESULT EXCEEDS ES

BOLD = RESULT EXCEEDS PAL

HORIZONTAL SCALE 1" = 30'
VERTICAL SCALE 1" = 10'

NOTES:

1) The depth to water elevation is shown as measured on December 17, 1998. The depth to water is accurate at monitoring well locations only.
2) Elevations are relative to an arbitrary site datum of 100.00 feet.

FOUR LAKES AVIATION CORPORATION
FUEL FARM No. 3
DANE COUNTY REGIONAL AIRPORT
MADISON, WISCONSIN

CROSS SECTION 2
POST-REMEDIATION GEOLOGIC CROSS SECTION (A-A')

PROJECT 1009-304
JANUARY 1999
DRAWN BY GEY
1:10, X=0, Y=0, W

NINE SPRINGS
ENVIRONMENTAL CONSULTANTS, Inc.
2817 FISH HATCHERY ROAD
MADISON, WISCONSIN 53713

SUMMARY OF LONG TERM MONITORING
GROUNDWATER ANALYTICAL RESULTS
Four Lakes Aviation Fuel Farm No. 3
Dane County Regional Airport, Madison, Wisconsin

Analyte	FF3(MW2R)														ES	PAL
	6/14/95	9/18/95*	3/21/96	6/4/96	9/10/96	12/13/96	3/19/97	6/10/97	9/24/97	12/9/97	3/12/98	6/24/98	9/23/98	12/17/98		
DRO (µg/l)	6,100	9,000	2,600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
PVOC (µg/l)																
Benzene	**6.0**	**8.1**	<0.6	1.1	2.8	0.8	1.2	3.1	2.6	0.43	1.5	3.4	2.8	<0.20	5	0.5
Ethylbenzene	37	35	9.1	5.5	6.6	7.8	3.8	4.7	3.3	3.9	0.4 [3]	2.6	1.5	0.50	700	140
Methyl-tert-Butyl Ether	1.3	1.4	<1.0	<1.0	<1.0	<1.0	<0.20	0.48	0.4	<0.20	0.8	<0.20	<0.20	<0.20	60	12
Toluene	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	2.3	<0.36	<0.36	<0.36	<0.20	0.80	<0.20	<0.20	343	68.6
1,2,4-Trimethylbenzene	21	11	68	25	9.5	12	11	4.2	3	3.1	0.9 [3]	3.4	1.70	<0.30	480 [4]	96 [4]
1,3,5-Trimethylbenzene	18	5	29	11.0	4.2	8.5	4.9	4.3	3.4	1.9	<0.30	1.4	0.8	<0.30		
Xylenes, m + p	9.0	3.1	16	4.0	2.1	2.1	3.8	<0.94	<0.94	<0.94	<0.60	1.6 [3]	<0.60	<0.60	620 [1]	124 [1]
Xylenes, o	<1.0	<1.0	3.4	1.1	<1.1	<1.0	1.1	<0.21	<0.21	<0.21	<0.30	<0.3	<0.30	<0.30		
PAH (µg/l)																
Acenaphthene	<0.5	<1.0	<1.5	<1.5	<0.5	<0.5	<0.50	<0.51	<0.51	NT	NT	NT	NT	NT		
Acenaphthylene	<1.0	<2.0	<3.0	<3.0	<1.0	<1.0	<0.50	<0.46	<0.46	NT	NT	NT	NT	NT		
Anthracene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.020	<0.019	<0.019	NT	NT	NT	NT	NT	3000	600
Benzo (a) anthracene	<0.03	<0.50	<0.08	<0.03	<0.03	<0.03	<0.010	<0.011	<0.011	NT	NT	NT	NT	NT		
Benzo (a) pyrene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.010	<0.011	<0.011	NT	NT	NT	NT	NT	0.2	0.02
Benzo (b) fluoranthene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.010	<0.010	<0.010	NT	NT	NT	NT	NT	0.2	0.02
Benzo (ghi) perylene	<0.03	<0.60	<0.09	<0.03	<0.03	<0.03	<0.010	<0.011	<0.011	NT	NT	NT	NT	NT		
Benzo (k) fluoranthene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.010	<0.008	<0.008	NT	NT	NT	NT	NT		
Chrysene	<0.03	<0.50	<0.08	<0.03	<0.03	<0.03	<0.010	<0.013	<0.013	NT	NT	NT	NT	NT	0.2	0.02
Dibenzo (a,h) anthracene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.010	<0.012	<0.012	NT	NT	NT	NT	NT		
Fluoranthene	<0.02	<0.40	<0.06	0.06	0.04	0.02	0.01	0.011	0.02	NT	NT	NT	NT	NT	400	80
Fluorene	<0.10	0.29	0.35	0.30	0.33	0.26	0.10	0.14	0.27	NT	NT	NT	NT	NT	400	80
Indeno (1,2,3-cd) pyrene	<0.02	<0.40	<0.06	<0.02	<0.02	<0.02	<0.010	<0.012	<0.012	NT	NT	NT	NT	NT		
1-Methylnaphthalene	<0.5	2.2	7.6	11.0	7.8	8.5	3.9	3.7	4.2	NT	NT	NT	NT	NT		
2-Methylnaphthalene	<0.5	<1.0	<1.5	11.0	4.1	4.0	2.5	0.7	1.5	NT	NT	NT	NT	NT		
Naphthalene	<0.5	2.3	<1.5	12.0	6.8	6.6	3.3	1.5	1.2	NT	NT	NT	NT	NT	40	8
Phenanthrene	<0.03	<2.00	<2.00	0.30	0.23	0.17	0.08	<0.05	0.18	NT	NT	NT	NT	NT		
Pyrene	<0.10	<2.00	<0.30	<0.10	<0.10	<0.10	0.01	0.014	0.0	NT	NT	NT	NT	NT	250	50

Notes:

[1] ES and PAL are for total xylenes.

[2] Compounds were present in the extraction blank.

[3] Estimated value, concentration was less than LOQ.

[4] ES and PAL are for 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene combined.

- Shaded values are above ES.
- Bold values are above PAL.
- ES = NR 140 Enforcement Standard.
- PAL = NR 140 Preventive Action Limit.
- NT = Not Tested.

* Sampling events after 9/18/95 occurred as part of or subsequent to the remedial action.

SUMMARY OF LONG TERM MONITORING
GROUNDWATER ANALYTICAL RESULTS
Four Lakes Aviation Fuel Farm No. 3
Dane County Regional Airport, Madison, Wisconsin

Analyte	FF3(MW3R)															
	6/14/95	9/18/95 *	3/21/96	6/4/96	9/10/96	12/13/96	3/19/97	6/10/97	9/24/97	12/9/97	3/12/98	6/24/98	9/23/98	12/17/98	ES	PAL
DRO (µg/l)	8,900	13,000	3,800	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
PVOC (µg/l)																
Benzene	**59**	**91**	**33**	**26**	**45**	**35**	**13**	**13**	**10**	**16**	**5.2**	**8.4**	**14**	**11**	5	0.5
Ethylbenzene	120	**150**	130	**150**	**260**	**190**	110	110	48	100	25	48	64	32	700	140
Methyl-tert-Butyl Ether	3.1	5.6	2.3	<2.5	6.0	2.8	3.5	3.4	1.1	3.8	<0.20	<0.40	<2.0	0.20	60	12
Toluene	<1.0	<1.0	<2.0	<2.5	<2.5	<2.5	2.8	<0.36	<0.36	0.51	0.7	<0.40	<2.0	0.30	343	68.6
1,2,4-Trimethylbenzene	**120**	**100**	**200**	**270**	**430**	**260**	**170**	**120**	19	**110**	33	54	68	41	480[4]	96[4]
1,3,5-Trimethylbenzene	56	17	57	67	**62**	5.5	17	22	2	18	7.1	11	16	7.0		
Xylenes, m + p	72	45	**200**	**250**	**310**	81	64	46	13	57	21	40	41	28	620[1]	124[1]
Xylenes, o	<1.0	2.0	5.0	3.4	<2.5	<2.5	1.4	0.75	<0.21	0.40	<0.50	1.6 [3]	<3.0	<0.30		
PAH (µg/l)																
Acenaphthene	<10	<10	<1.5	<5.0	<20	<2.5	0.5	<4.1	<1.0	NT	NT	NT	NT	NT		
Acenaphthylene	<20	<20	<3.0	<1.0	<40	<5.0	<0.50	<3.7	<0.92	NT	NT	NT	NT	NT		
Anthracene	<0.40	<0.40	<0.06	0.05	0.11	0.10	<0.020	<0.15	0.05	NT	NT	NT	NT	NT	3000	600
Benzo (a) anthracene	<0.50	<0.50	<0.08	0.05	0.04	<0.13	<0.010	<0.088	<0.022	NT	NT	NT	NT	NT		
Benzo (a) pyrene	<0.40	<0.40	<0.06	**0.06**	**0.04**	<0.10	<0.010	<0.088	<0.022	NT	NT	NT	NT	NT	0.2	0.02
Benzo (b) fluoranthene	<0.40	<0.40	<0.06	**0.05**	**0.03**	<0.10	<0.010	<0.08	<0.022	NT	NT	NT	NT	NT	0.2	0.02
Benzo (ghi) perylene	<0.60	<0.60	<0.09	0.05	0.05	<0.15	<0.010	<0.088	<0.022	NT	NT	NT	NT	NT		
Benzo (k) fluoranthene	<0.40	<0.40	<0.06	0.03	<0.02	<0.10	<0.010	<0.064	<0.016	NT	NT	NT	NT	NT		
Chrysene	<0.50	<0.50	<0.08	**0.11**	**0.07**	**0.19**	<0.010	<0.10	<0.026	NT	NT	NT	NT	NT	0.2	0.02
Dibenzo (a,h) anthracene	<0.40	<0.40	<0.06	<0.02	0.03	<0.10	<0.010	<0.096	<0.024	NT	NT	NT	NT	NT		
Fluoranthene	<0.40	<0.40	0.12	0.23	<0.80	0.38	0.05	0.120	0.12	NT	NT	NT	NT	NT	400	80
Fluorene	<2.00	<2	0.62	<1	<4	0.92	0.48	0.81	0.51	NT	NT	NT	NT	NT	400	80
Indeno (1,2,3-cd) pyrene	<0.40	<0.40	<0.06	0.05	0.04	<0.10	<0.010	<0.096	<0.024	NT	NT	NT	NT	NT		
1-Methylnaphthalene	22	27	20	38	64	40	29	33	7	NT	NT	NT	NT	NT		
2-Methylnaphthalene	24	12	2	32	43	18	6.8	11	1.9	NT	NT	NT	NT	NT		
Naphthalene	**53**	**44**	<1.5	**98**	**120**	**36**	**29**	**20**	**2**	**95**	**30**	**48**	**25**	**20**	40	8
Phenanthrene	<2.00	<2.00	<2.00	<1.00	<4.0	0.97	<0.30	0.69	0.48	NT	NT	NT	NT	NT		
Pyrene	<2.00	<2.00	<0.30	0.24	<4.0	<0.50	0.03	<0.08	0.10	NT	NT	NT	NT	NT	250	50

Notes:

[1] ES and PAL are for total xylenes.

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SUMMARY OF LONG TERM MONITORING
GROUNDWATER ANALYTICAL RESULTS
Four Lakes Aviation Fuel Farm No. 3
Dane County Regional Airport, Madison, Wisconsin

Analyte	FF3(MW4)															
	6/14/95	9/18/95 *	3/21/96	6/4/96	9/10/96	12/13/96	3/19/97	6/10/97	9/24/97	12/9/97	3/12/98	6/24/98	9/23/98	12/17/98	ES	PAL
DRO (µg/l)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
PVOC (µg/l)																
Benzene	NT	NT	NT	<0.6	<0.6	<0.6	<0.20	<0.16	<0.16	<0.16	<0.20	<0.20	<0.20	<0.20	5	0.5
Ethylbenzene	NT	NT	NT	<1.0	<1.0	<1.0	<0.30	<0.29	<0.29	<0.29	<0.30	<0.30	<0.30	<0.30	700	140
Methyl-tert-Butyl Ether	NT	NT	NT	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	60	12
Toluene	NT	NT	NT	<1.0	<1.0	<1.0	<0.40	<0.36	<0.36	<0.36	<0.20	<0.20	<0.20	<0.20	343	68.6
1,2,4-Trimethylbenzene	NT	NT	NT	<1.0	<1.0	<1.0	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	480[4]	96[4]
1,3,5-Trimethylbenzene	NT	NT	NT	<1.0	<1.0	<1.0	<0.30	<0.34	<0.34	<0.34	<0.30	<0.30	<0.30	<0.30		
Xylenes, m + p	NT	NT	NT	<1.0	<1.0	<1.0	<0.90	<0.94	<0.94	<0.94	<0.60	1.3 [3]	<0.60	<0.60	620[1]	124[1]
Xylenes, o	NT	NT	NT	<1.0	<1.0	<1.0	<0.20	<0.21	<0.21	<0.21	<0.30	<0.30	<0.30	<0.30		
PAH (µg/l)																
Acenaphthene	NT	NT	NT	<0.5	<0.5	<0.5	<0.50	<0.51	NT	NT	NT	NT	NT	NT		
Acenaphthylene	NT	NT	NT	<1.0	<1.0	<1.0	<0.50	<0.46	NT	NT	NT	NT	NT	NT		
Anthracene	NT	NT	NT	<0.02	<0.02	<0.02	<0.020	<0.019	NT	NT	NT	NT	NT	NT	3000	600
Benzo (a) anthracene	NT	NT	NT	<0.03	<0.03	<0.03	<0.010	<0.011	NT	NT	NT	NT	NT	NT		
Benzo (a) pyrene	NT	NT	NT	<0.02	<0.02	<0.02	<0.010	<0.011	NT	NT	NT	NT	NT	NT	0.2	0.02
Benzo (b) fluoranthene	NT	NT	NT	<0.02	<0.02	<0.02	<0.010	<0.010	NT	NT	NT	NT	NT	NT	0.2	0.02
Benzo (ghi) perylene	NT	NT	NT	<0.03	<0.03	<0.03	<0.010	<0.011	NT	NT	NT	NT	NT	NT		
Benzo (k) fluoranthene	NT	NT	NT	<0.02	<0.02	<0.02	<0.010	<0.008	NT	NT	NT	NT	NT	NT		
Chrysene	NT	NT	NT	<0.03	<0.03	<0.03	<0.010	<0.013	NT	NT	NT	NT	NT	NT	0.2	0.02
Dibenzo (a,h) anthracene	NT	NT	NT	<0.02	<0.02	<0.02	<0.010	<0.012	NT	NT	NT	NT	NT	NT		
Fluoranthene	NT	NT	NT	<0.02	<0.02	0.02	<0.010	<0.011	NT	NT	NT	NT	NT	NT	400	80
Fluorene	NT	NT	NT	<0.10	<0.10	<0.10	<0.060	<0.061	NT	NT	NT	NT	NT	NT	400	80
Indeno (1,2,3-cd) pyrene	NT	NT	NT	<0.02	<0.02	<0.02	<0.010	<0.012	NT	NT	NT	NT	NT	NT		
1-Methylnaphthalene	NT	NT	NT	<0.5	<0.5	<0.5	<0.4	<0.45	NT	NT	NT	NT	NT	NT		
2-Methylnaphthalene	NT	NT	NT	<0.5	<0.5	<0.5	<0.40	<0.42	NT	NT	NT	NT	NT	NT		
Naphthalene	NT	NT	NT	<0.5	<0.5	<0.5	<0.50	<0.48	NT	NT	NT	NT	NT	NT		
Phenanthrene	NT	NT	NT	<0.10	<0.10	<0.10	<0.050	<0.05	NT	NT	NT	NT	NT	NT	40	8
Pyrene	NT	NT	NT	<0.10	<0.10	<0.10	<0.010	<0.01	NT	NT	NT	NT	NT	NT	250	50

Notes:

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SUMMARY OF LONG TERM MONITORING
GROUNDWATER ANALYTICAL RESULTS
Four Lakes Aviation Fuel Farm No. 3
Dane County Regional Airport, Madison, Wisconsin

Analyte	FF3(MW5R)															
	6/14/95	9/18/95 *	3/21/96	6/4/96	9/10/96	12/13/96	3/19/97	6/10/97	9/24/97	12/9/97	3/12/98	6/24/98	9/23/98	12/17/98	ES	PAL
DRO (µg/l)	NT	NT	830	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT		
PVOC (µg/l)																
Benzene	NT	NT	<0.6	1.5	1.1	1.4	1.4	0.33	<0.16	0.41	1.1	1.3	<0.20	0.20	5	0.5
Ethylbenzene	NT	NT	2.0	1.5	1.0	1.2	1.2	0.45	<0.29	<0.29	<0.30	1.0	<0.30	<0.30	700	140
Methyl-tert-Butyl Ether	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	60	12
Toluene	NT	NT	1.3	1.5	<1.5	<1.0	<1.0	<0.36	<0.36	<0.36	<0.20	1.1	<0.20	<0.20	343	68.6
1,2,4-Trimethylbenzene	NT	NT	7.0	3.6	2.8	3.2	3.2	1.0	<0.30	0.35	0.4 [3]	1.2	<0.30	<0.30	480 [4]	96 [4]
1,3,5-Trimethylbenzene	NT	NT	7.1	3.5	<1.0	<1.0	<1.0	<0.34	<0.34	<0.34	<0.30	0.70 [3]	<0.30	<0.30		
Xylenes, m + p	NT	NT	7.1	4.4	2.4	1.6	1.6	<0.94	<0.94	<0.94	<0.60	1.8	<0.60	<0.60	620 [1]	124 [1]
Xylenes, o	NT	NT	3.2	1.1	<1.0	<1.0	<1.0	<0.21	<0.21	<0.21	<0.30	0.80 [3]	<0.30	<0.30		
PAH (µg/l)																
Acenaphthene	NT	NT	<1.5	0.9	<4.0	<1.5	<0.50	<0.51	<0.51	<0.51	<0.54	<0.54	<0.54	<0.54		
Acenaphthylene	NT	NT	<3.0	<1.0	<8.0	<3.0	<0.50	<0.46	<0.46	<0.46	<0.23	<0.23	<0.23	<0.23		
Anthracene	NT	NT	0.11	0.56	0.17	0.07	0.06	0.049	0.06	0.097	<0.037	<0.037	<0.037	<0.037	3,000	600
Benzo (a) anthracene	NT	NT	0.15	0.97	0.25	0.11	0.06	0.098	0.02	0.038	0.16	0.054	0.23	<0.0073		
Benzo (a) pyrene	NT	NT	0.19	**0.91**	**0.26**	**0.11**	**0.08**	**0.14**	<0.011	0.053	**0.62**	**0.093**	**0.54**	<0.018	0.2	0.02
Benzo (b) fluoranthene	NT	NT	0.19	**1.06**	**0.25**	**0.13**	0.09 [2]	**0.12**	<0.010	0.053	**0.39**	**0.089**	**0.47**	**0.038**	0.2	0.02
Benzo (ghi) perylene	NT	NT	0.2	<1.20	<0.24	0.15	0.07	0.17	<0.011	0.067	<0.035	<0.035	<0.035	<0.035		
Benzo (k) fluoranthene	NT	NT	0.09	0.49	<0.16	<0.06	0.05 [2]	0.056	0.01	0.030	0.33	0.036 [3]	0.33	<0.023		
Chrysene	NT	NT	**0.37**	**1.96**	**0.50**	**0.23**	**0.16**	**0.20**	**0.02**	**0.043**	<0.051	<0.051	<0.051	<0.051	0.2	0.02
Dibenzo (a,h) anthracene	NT	NT	0.07	0.89	<0.16	<0.06	0.03	0.051	<0.012	0.079	<0.21	<0.21	1.6	<0.21		
Fluoranthene	NT	NT	0.7	3.5	1.3	0.39	0.30	0.39	0.16	0.21	0.79	<0.018	1.0	0.49	400	80
Fluorene	NT	NT	<0.30	<1	<0.80	0.64	0.51	0.27	0.22	0.30	<0.16	<0.16	<0.16	<0.16	400	80
Indeno (1,2,3-cd) pyrene	NT	NT	0.21	1.01	0.28	0.17	0.10	0.18	<0.012	0.16	0.67	0.032 [3]	<0.016	<0.016		
1-Methylnaphthalene	NT	NT	<1.5	1.7	<4.0	<1.5	0.9	<0.45	<0.45	<0.45	<0.27	<0.27	<0.27	<0.27		
2-Methylnaphthalene	NT	NT	<1.5	2.1	<4.0	<1.5	0.5	<0.42	<0.42	<0.42	<0.29	<0.29	<0.29	<0.29		
Naphthalene	NT	NT	<1.5	0.9	<4.0	<1.5	<0.50	<0.48	<0.48	<0.48	<0.23	<0.23	<0.23	<0.23	40	8
Phenanthrene	NT	NT	<0.30	3.07	1.99	0.95	0.89	0.37	0.38	0.38	1.1	0.31 [3]	0.52	0.36		
Pyrene	NT	NT	0.58	2.64	0.96	0.35	0.22	0.35	0.12	0.17	0.80	0.87	1.0	0.24	250	50

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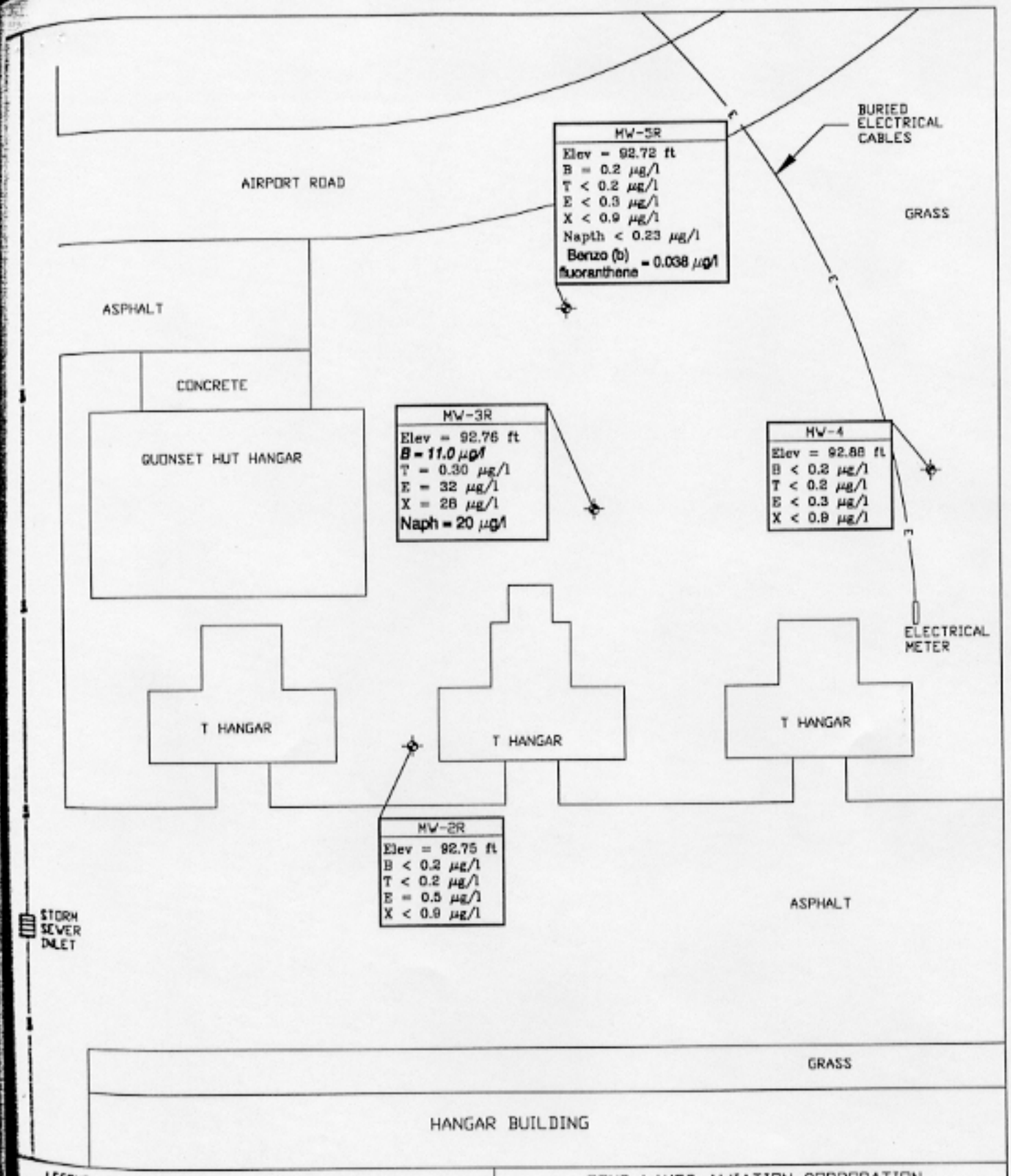

LEGEND

♦ MONITORING WELL LOCATION

NOTES:
Elevations are relative to an arbitrary site datum of 100.00 ft.
Elevations are exact at monitoring well locations only.
BOLD, ITALICS = Result exceeds ES.
BOLD = Result exceeds PAL.

N

SCALE 1" = 30'

FOUR LAKES AVIATION CORPORATION
DANE COUNTY REGIONAL AIRPORT
MADISON, WISCONSIN

FIGURE 3
GROUNDWATER SAMPLE LOCATION MAP
DECEMBER 17, 1998

PROJECT 1009-304

JANUARY 1999

NINE SPRINGS
ENVIRONMENTAL CONSULTANTS Inc.