TO: Eric Sandin, GEF II, Geo/8

Groundwater Use Registry Buckslip

Site Name Shell Lake Airport

Address 107 Oakland Ave.

Shell Lake WI

BRRTS # 03-66-000371

GPS Location: _____ latitude _____ longitude

Date of Closure Decision 06/06/00

Required

- [x] Closure Letter
- [ ] Deeds for all properties with ES exceedance in Groundwater (Recorded GWUR)
- [ ] GPS location (latitude and longitude)
- [x] Location map
- [x] Detailed Site Map
- [x] Groundwater Flow Direction Diagram including location of monitoring wells and all drinking water wells
- [x] Latest Groundwater Plume Map with Groundwater Flow Direction
- [x] Latest Table of Analytical Results for Groundwater

If Available, include the following:

- [x] Metes and Bounds Legal Description
- [x] Tax Parcel Number on Deed #65-28223813362 4-0010
- [x] Geologic cross sections showing soil and groundwater contaminant source extent and location, isoconcentrations for all groundwater contaminants that exceed NR 140 enforcement standards, water table and piezometric elevations, and the extent, location and elevation of geologic units, bedrock, and confining unites

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
William H. Smith, Regional Director

Northern Region Headquarters
107 Sutliff Ave.
Rhinelander, Wisconsin 54501-0818
Telephone 715-365-8900
FAX 715-365-8932
TDD 715-365-8957

June 6, 2000

Mr. Brad Peterson
City of Shell Lake
PO Box 520
Shell Lake, WI 54871

Subject: Shell Lake Airpot, 107 Oakland Ave, Shell Lake, WI BRRTS # 03-66-000371

Dear Mr. Peterson:

The above-referenced site has been reviewed for closure by the Northern Region Closure Committee. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On March 10, 1999, you were notified that the Closure Committee had granted conditional closure to this case.

On June 6, 2000, the Department received correspondence indicating that you have complied with the conditions of closure, specifically, recording a groundwater use restriction for the property. Based on the correspondence and the data provided, it appears that your site has been remediation to Department standards in accordance with 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.

However, please be aware that this case may be reopened pursuant to 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 your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 715-365-8990.

Sincerely,
NORTHERN REGION

Janet Kazda

Janet Kazda
Program Assistant

c: File

Troy Gawronski
Cedar Corp
604 Wilson Ave
Menomonie, WI 54751

Kathryn zumBrunnen
PO Box 96
Spooner, WI 54801

VOL 420 PAGE 340

RECEIVED OF RECORD
11:35 A.M.
MAY 23 2000

Sandra Johnson

WASHBURN CO. REGISTER OF DEEDS
Pd. $18.00 Ck #37214

Document Number
270885

GROUNDWATER USE RESTRICTION
DECLARATION OF RESTRICTIONS

See attached legal description
Exhibit "A", hereby made a part
of this restriction

By & Return to:
City of Shell Lake
PO Box 520
Shell Lake WI 54871

65-282238133624-0010
Tax parcel number

STATE OF WISCONSIN)
)SS
COUNTY OF WASHBURN)

WHEREAS, The City of Shell Lake, Wisconsin, is the owner of the real estate described in Exhibit "A" attached hereto.

WHEREAS, one or more petroleum discharges have occurred on or about May 15, 1991, at this property, namely! Benzene contaminated groundwater above ch. NR 140, Wis. Adm. Code enforcement standards existed on this property, at locations setforth in Exhibit "B" attached hereto and made a part of this restriction.

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 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, Wis. Adm. Code groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch.809, Wis. Adm. Code is restricted by chs. NR 811 and 812, Wis. Adm. Code. 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 in Exhibit A 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 and Groundwater, or its successor agency, to determine what specific prohibitions or requirements are applicable and to obtain Department approval, 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.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statues and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the real estate described in Exhibit "A" whether by descent, devise, purchase, or otherwise. This restriction benefits and is enforceable by, the Wisconsin Department of Natural Resources, its sucessors 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.

Any person who is or becomes owner of the property described in Exhibit "A", 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 23rd day of May, 2000.

By signing this document, the undersigned acknowledges that they are duly authorized to sign this document on behalf of the City of Shell Lake, Wisconsin.

Charles Lutz, Mayor

Bradley Pederson,
City Administrator

Subscribed and sworn to before me this 23rd day of May, 2000.

Barbara A. Shaw
Notary Public
State of Wisconsin
My commission expires:
September 22, 2002

BARBARA A. SHAW NOTARY PUBLIC STATE OF WISCONSIN

This document was drafted by the Wisconsin Department of Natural Resource and Attorney Kathryn zumBrunnen.

Exhibit "A"

All that part of Government Lot (3), Section (36), Township (38) North, Range (13) West, Washburn County, Wisconsin, described as follows:

Starting at the south west corner of said Government Lot (3); thence East along the east-west ¼ line of Section (36), 1720 feet, more or less, to the west line of block (7), First Addition, Burgs Park Plat; thence North (34) degrees (20) minutes West (115.00) feet to an iron stake, the south east corner of lot (31), block (8); thence West parallel with the east-west ¼ line of section (36) 868.00 feet to an iron stake; thence North (45) degrees West (1090.00) feet to intersect the west line of Government Lot (3); thence South along the west line of said lot (3) to the place of beginning. Including in the above description lots (155),(156)and part of lots (157) and (158), Block (28), First Addition of Burgs Park Plat, of record in the Register of Deeds Office, Washburn County.

All of the unplatted part of Government Lot (4) and (5) of Section (36),Township (38) North, Range (13) West,Washburn County Wisconsin and including all that part of Burgs Park Plat, The First Addition, as set forth herein; All of Block (8); all of Block (11) except part of lots (59) and (60); all of Block (12); all of Block (13); all of Block (14); Lot X of Block (15); all of Blocks (16), (17),(18),(19),(20),(21),(22),(23),(24),(25),(26),(27); Lots (154) of Block (28). Excluding from the above description a parcel of land described as follows: Starting at the south west corner of Block (7); thence South (86) degrees (15) minutes West (205.00) feet; thence North (34) degrees (20) minutes West (132.00); thence North (86) degrees (15) minutes East (205.00) feet to the west line of Block (7); thence South (34) degrees (20) minutes along the west line of Block (7) (132.00) feet to the place of beginning, being a part of Government Lot (4).

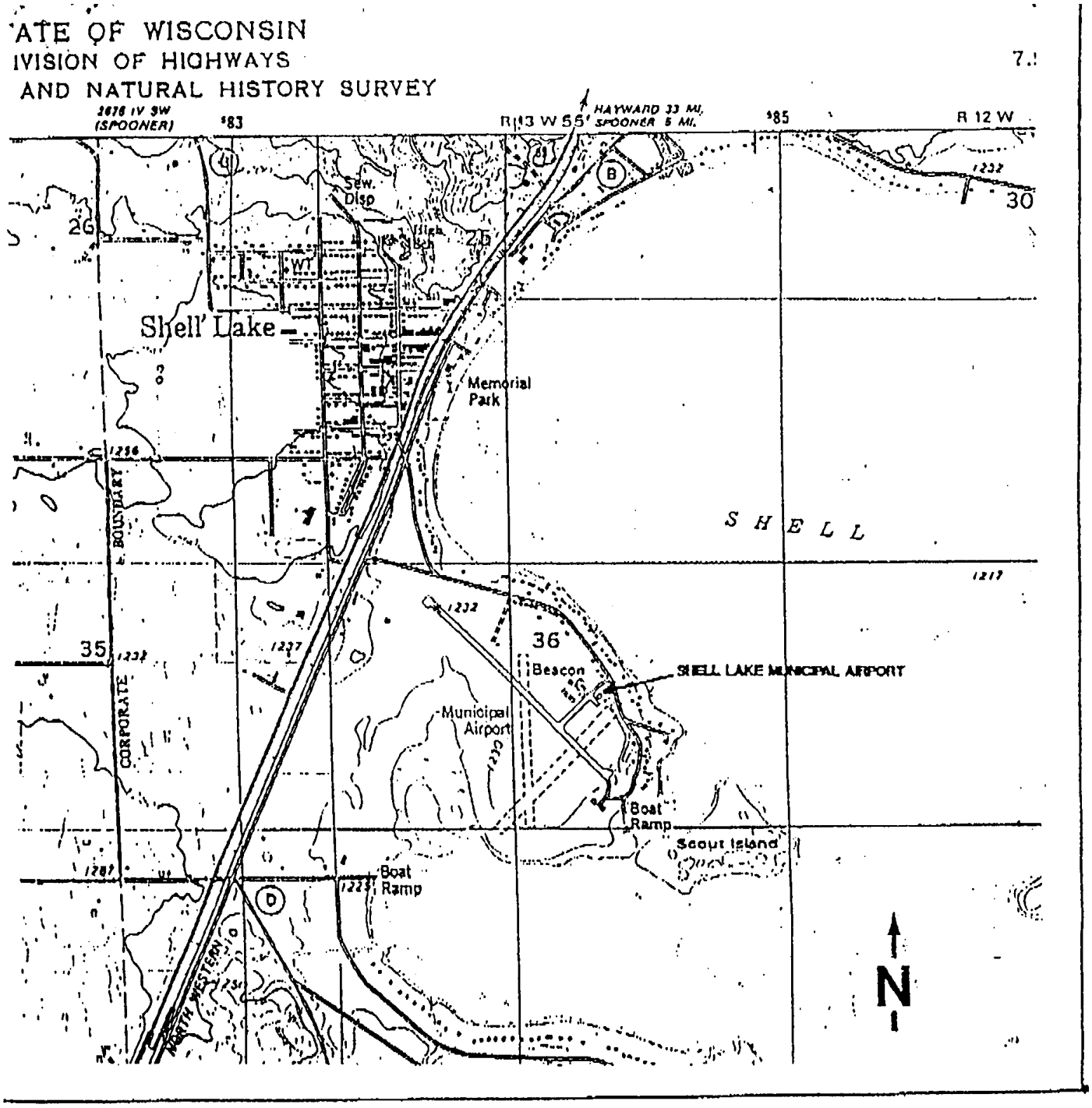


FIGURE 1. SITE LOCATION MAP

architects · engineers · land surveyors · planners
cedar corporation
a professional service company

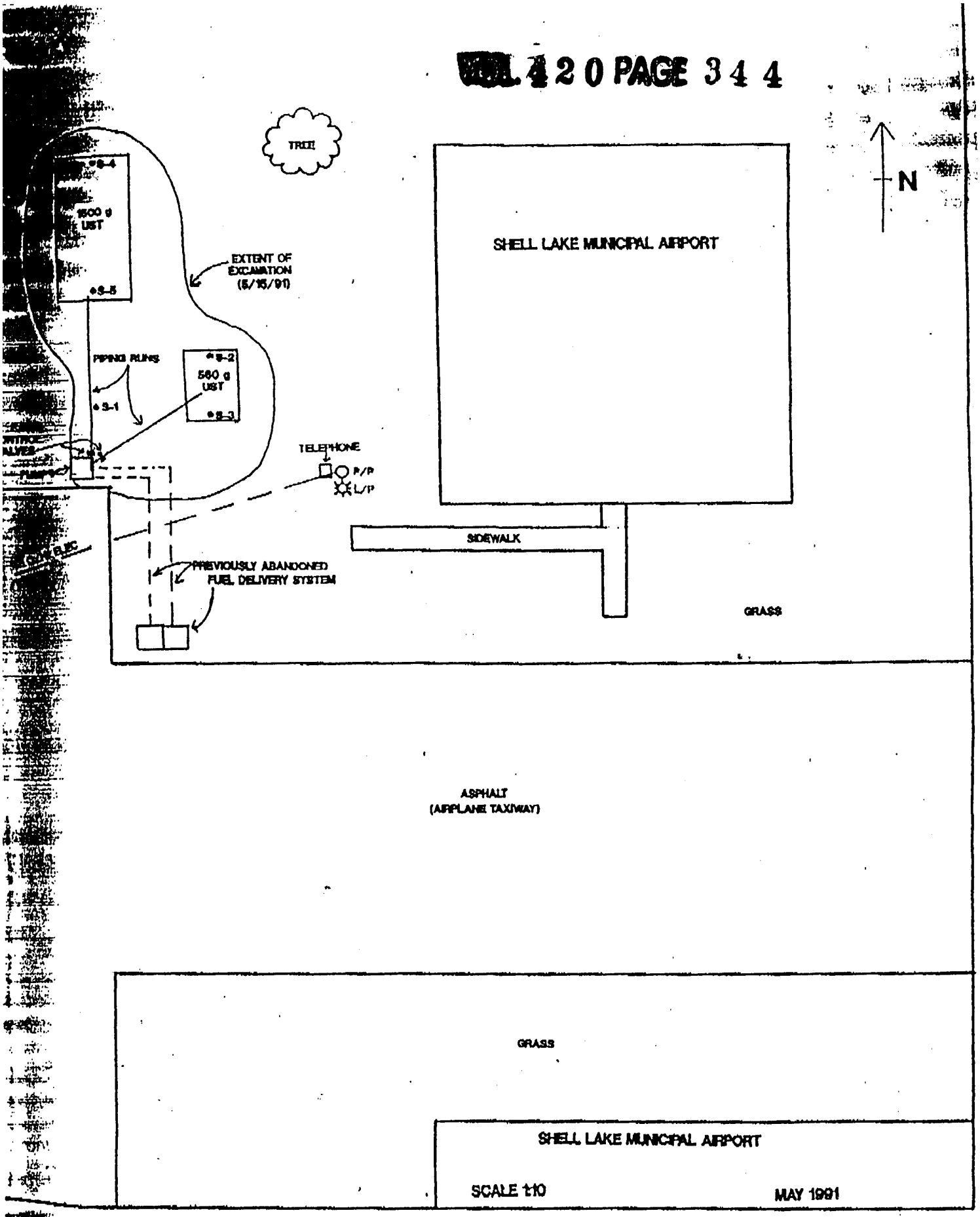
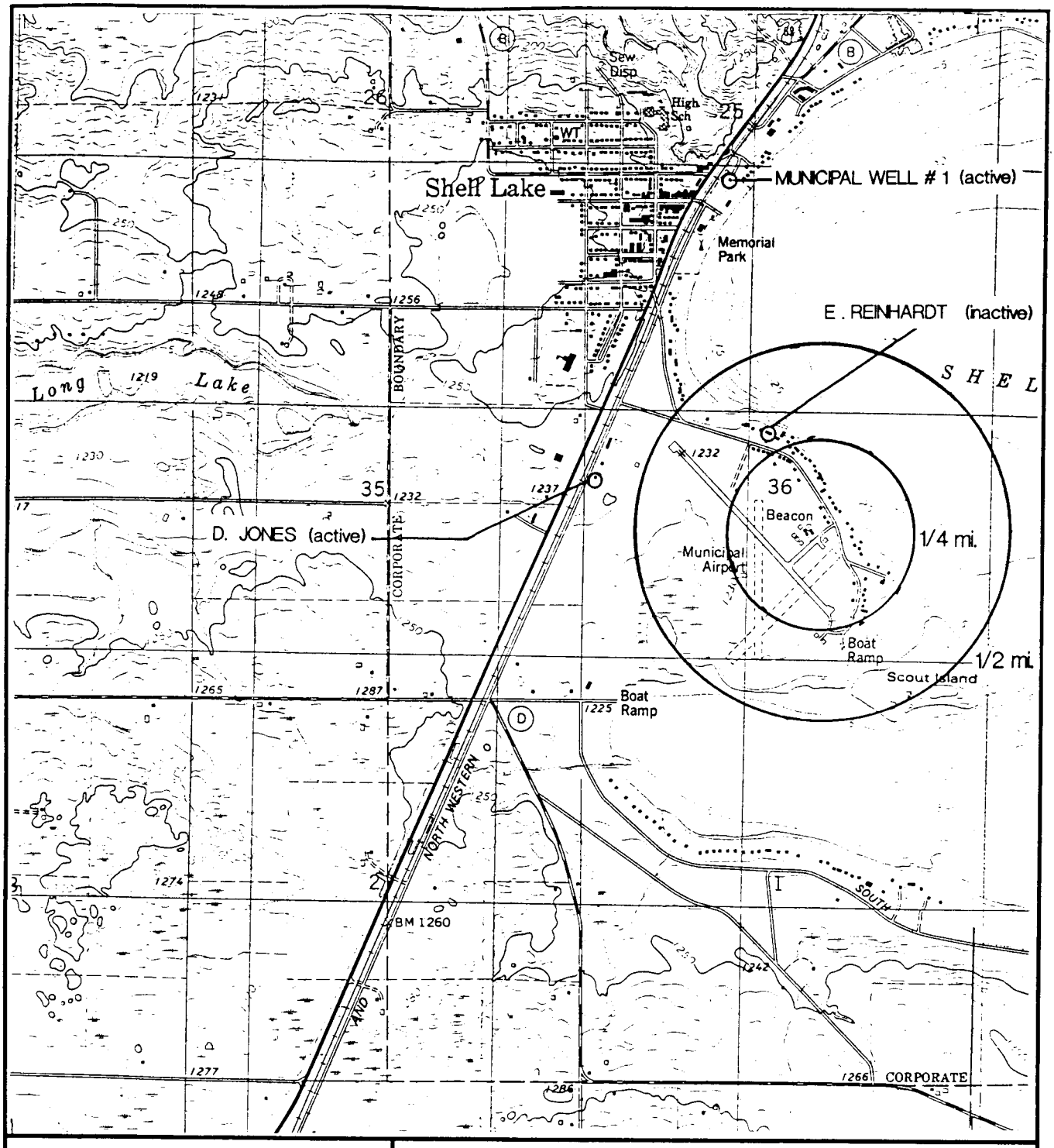


FIGURE 2. UNDERGROUND STORAGE TANK LOCATION



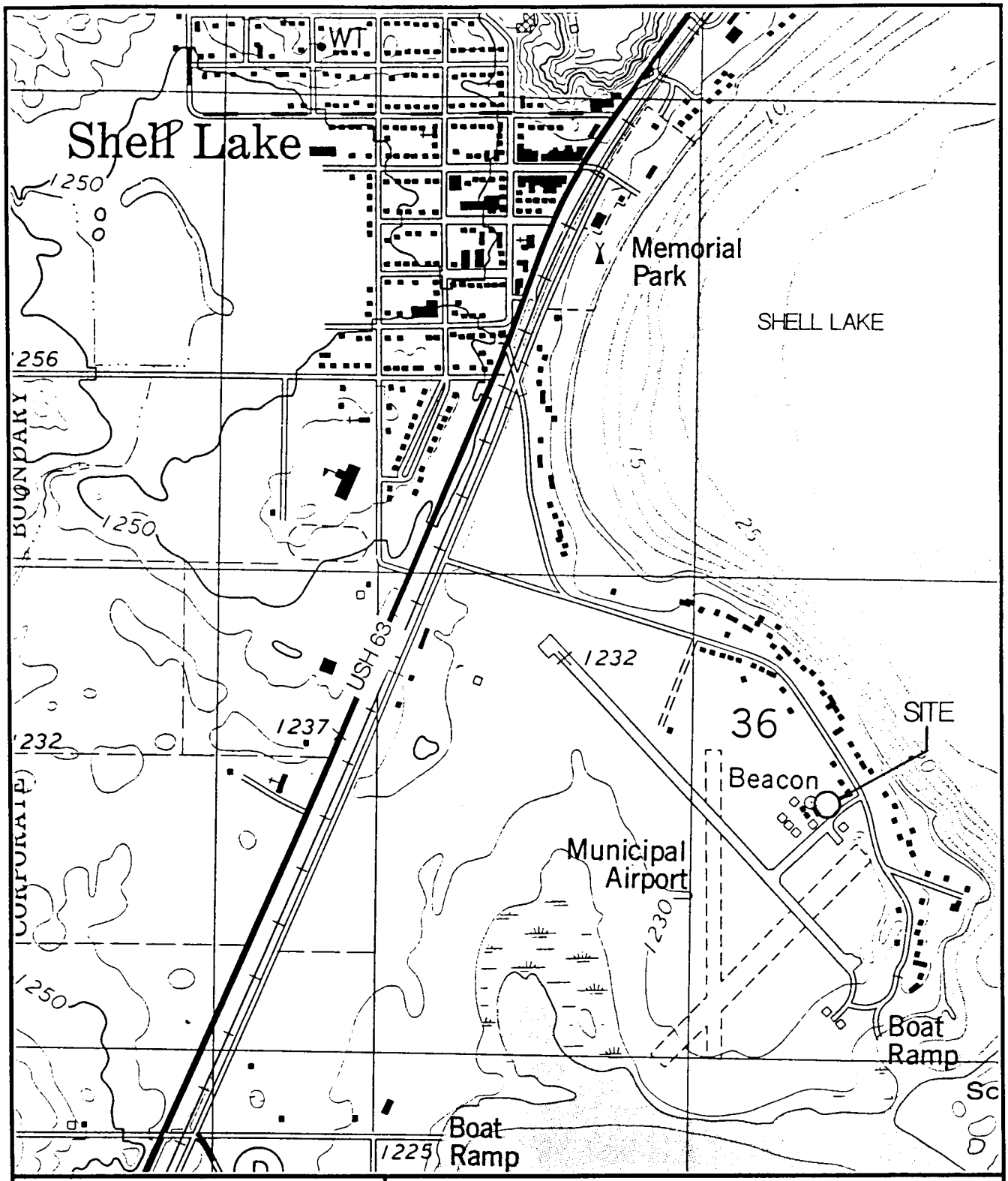
LEGEND
Topography
Contour Interval = 20 ft
Private well reports from WGNHS records
USGS Quadrangle
7.5 Minute Series

architects - engineers - environmental specialists

cedar corporation

land surveyors - planners - landscape architects

DRAWN BY KKM	**WELL LOCATION MAP**	CHECKED BY KKM
DATE 06/28/96		JOB NO. 1460-004-60
REVISED BY	**SHELL LAKE MUNICIPAL AIRPORT**	FIGURE
SCALE 1 : 24,000	**BURG PARK ROAD SHELL LAKE, WI**	FIG. 6



LEGEND

Topography C.I. = 10 Ft.

Shell Lake Quadrangle
Wisconsin - Washburn Co.

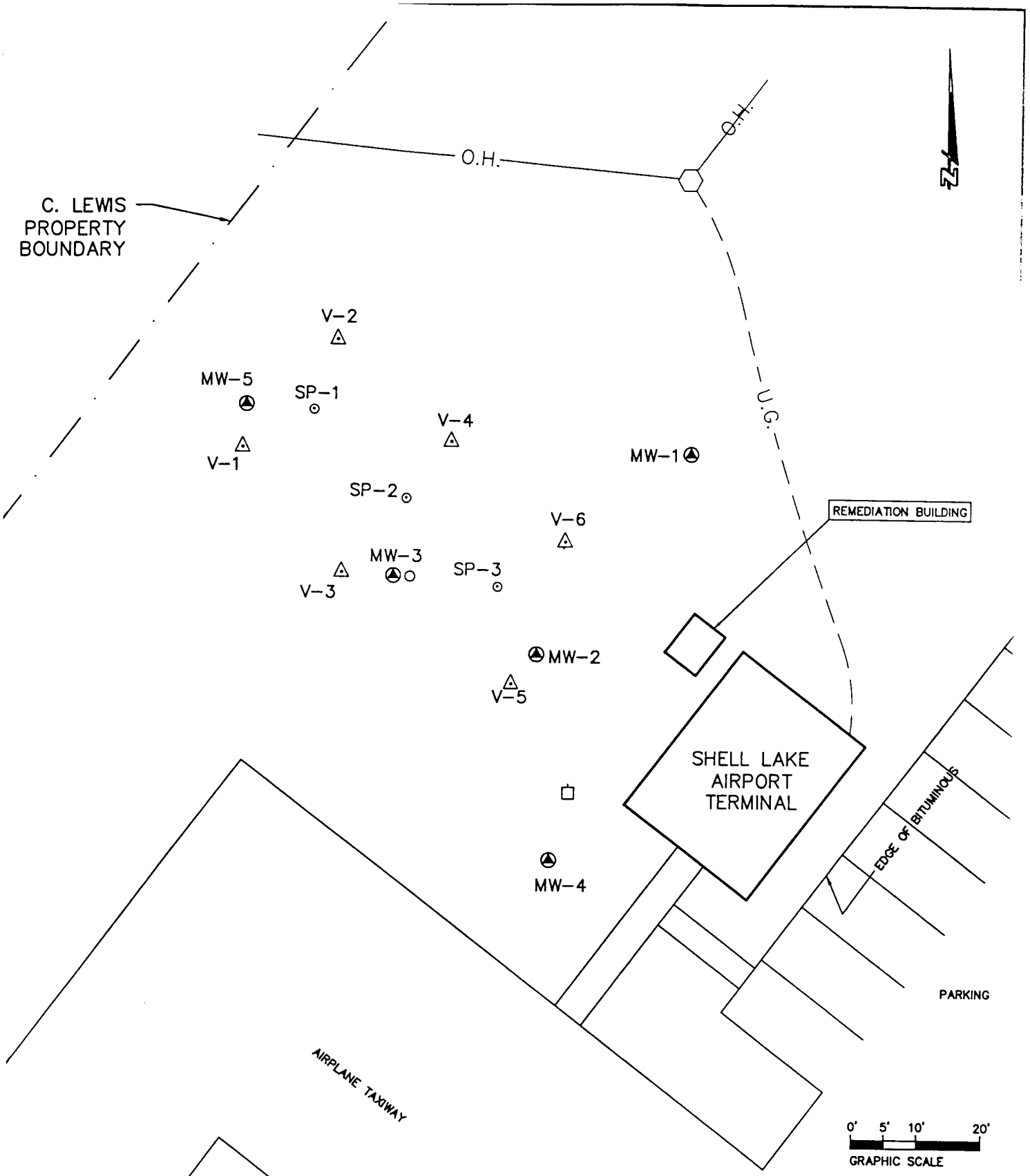
7.5 Minute Series; 1982

architects - engineers - environmental specialists

cedar corporation

land surveyors - planners - landscape architects

DRAWN BY: USGS	CITY OF SHELL LAKE MUNICIPAL AIRPORT SHELL LAKE, WI	CHECKED BY: CEL
DATE: FEB., 1996		JOB NO.: 1337-041-64
REVISED BY: CEL		FIGURE:
SCALE: 1 : 120	SITE LOCATION	1



LEGEND

- SPARGE POINT
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- POWER POLE
- TEMPERATURE PROBE

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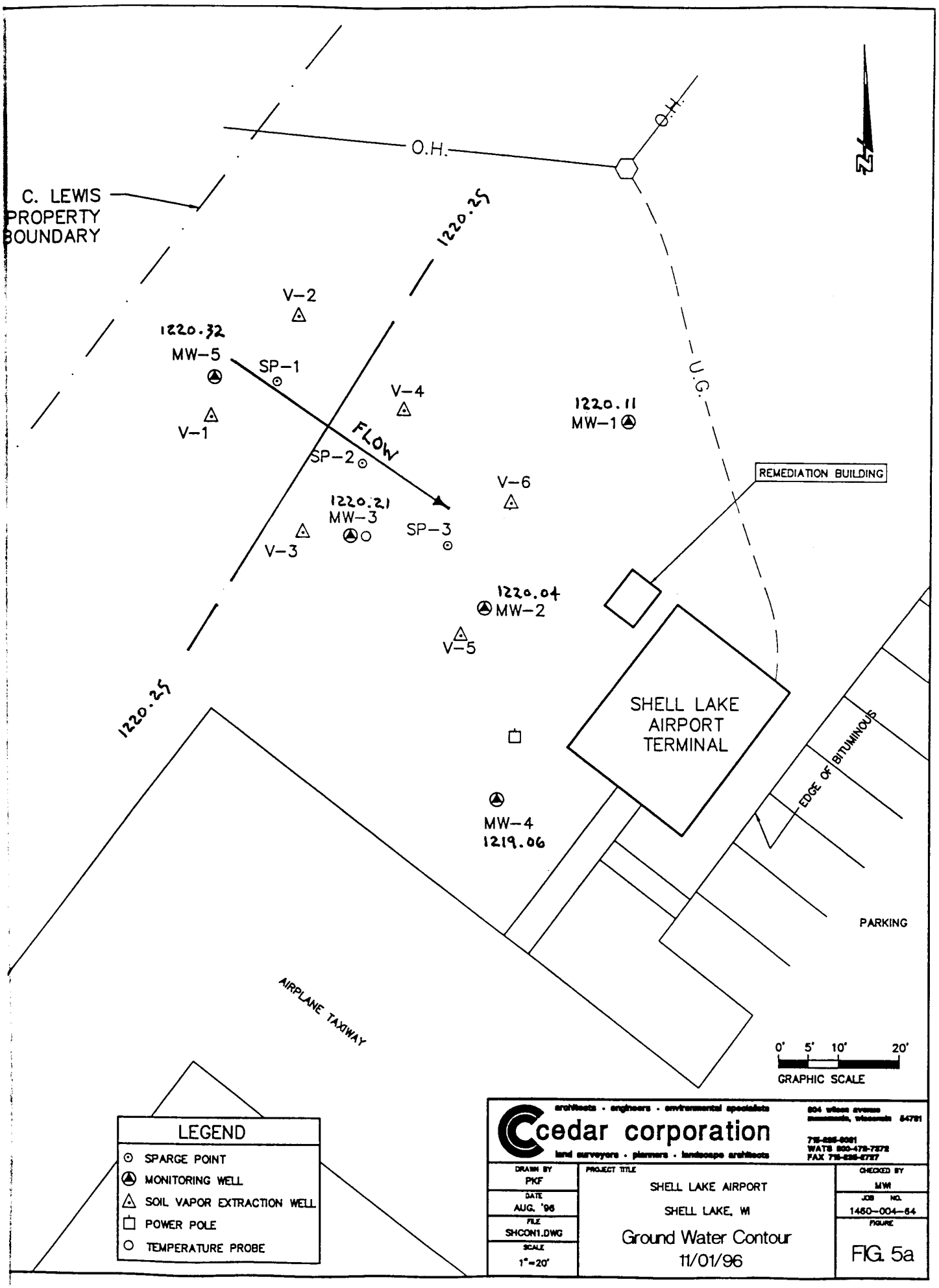
menomonie, wisconsin 54751
715-235-9081
WATS 800-478-7872
FAX 715-235-8767

DRAWN BY: PKF	PROJECT TITLE: SHELL LAKE AIRPORT SHELL LAKE, WI SITE FEATURES	CHECKED BY: MWI
DATE: AUG. '96		JOB NO.: 1460-004-64
FILE: SHCON1.DWG		FIGURE: 1
SCALE: 1"=20'		



O.H.
O.H.
C. LEWIS PROPERTY BOUNDARY
1220.25
V-2
1220.32
MW-5
SP-1
V-4
V-1
FLOW
SP-2
1220.11
MW-1
U.G.
REMEDIATION BUILDING
V-6
1220.21
MW-3
SP-3
V-3
1220.04
MW-2
V-5
1220.25
SHELL LAKE AIRPORT TERMINAL
EDGE OF BITUMINOUS
MW-4
1219.06
PARKING
AIRPLANE TAXIWAY
0' 5' 10' 20'
GRAPHIC SCALE
LEGEND
SPARGE POINT
MONITORING WELL
SOIL VAPOR EXTRACTION WELL
POWER POLE
TEMPERATURE PROBE
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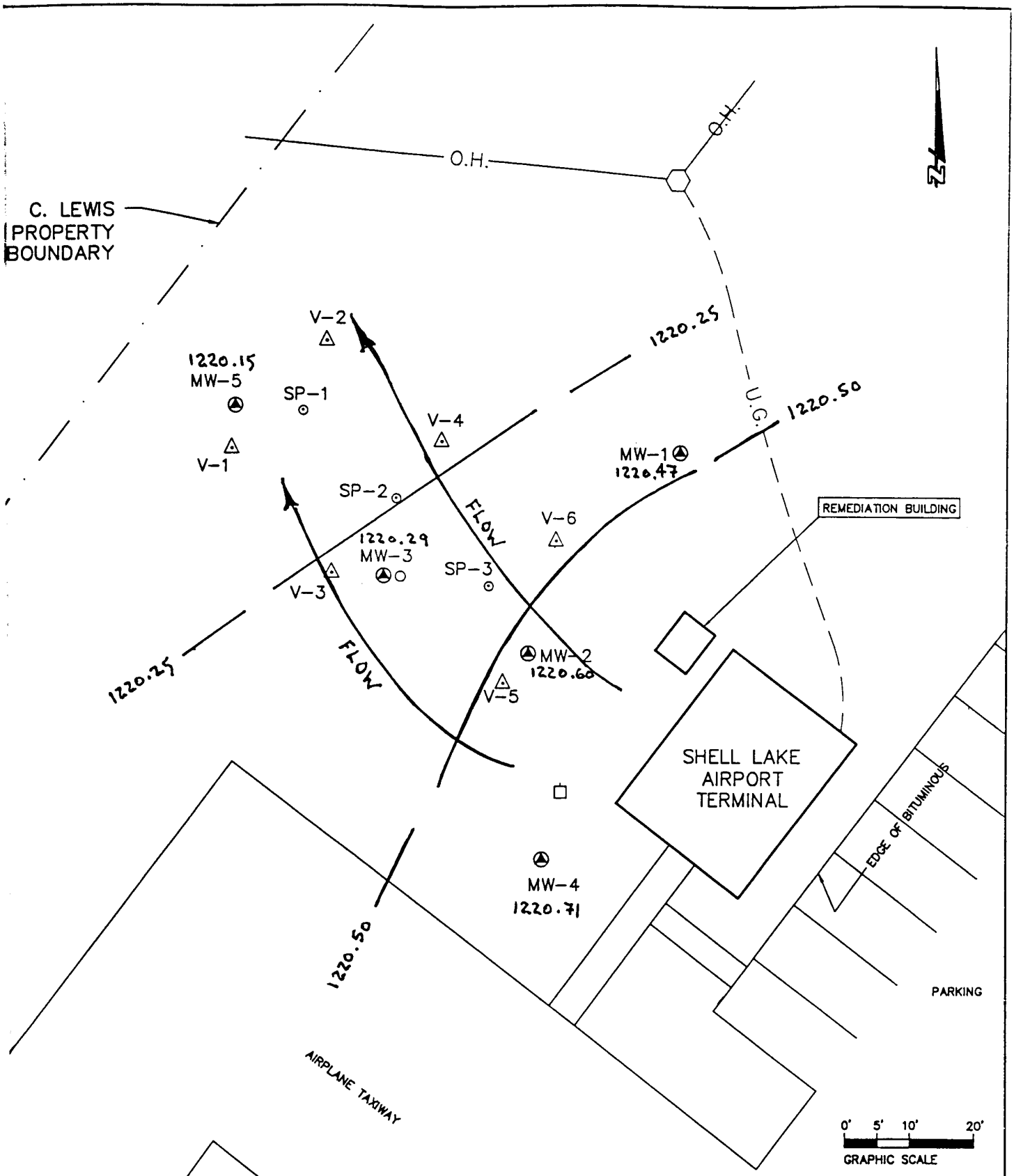
DRAWN BY PKF
DATE AUG. '96
FILE SHCON1.DWG
SCALE 1"=20'
PROJECT TITLE
SHELL LAKE AIRPORT
SHELL LAKE, WI
Ground Water Contour
11/01/96
CHECKED BY MWI
JOB NO. 1460-004-64
FIGURE
FIG. 5a



LEGEND

- SPARGE POINT
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- POWER POLE
- TEMPERATURE PROBE

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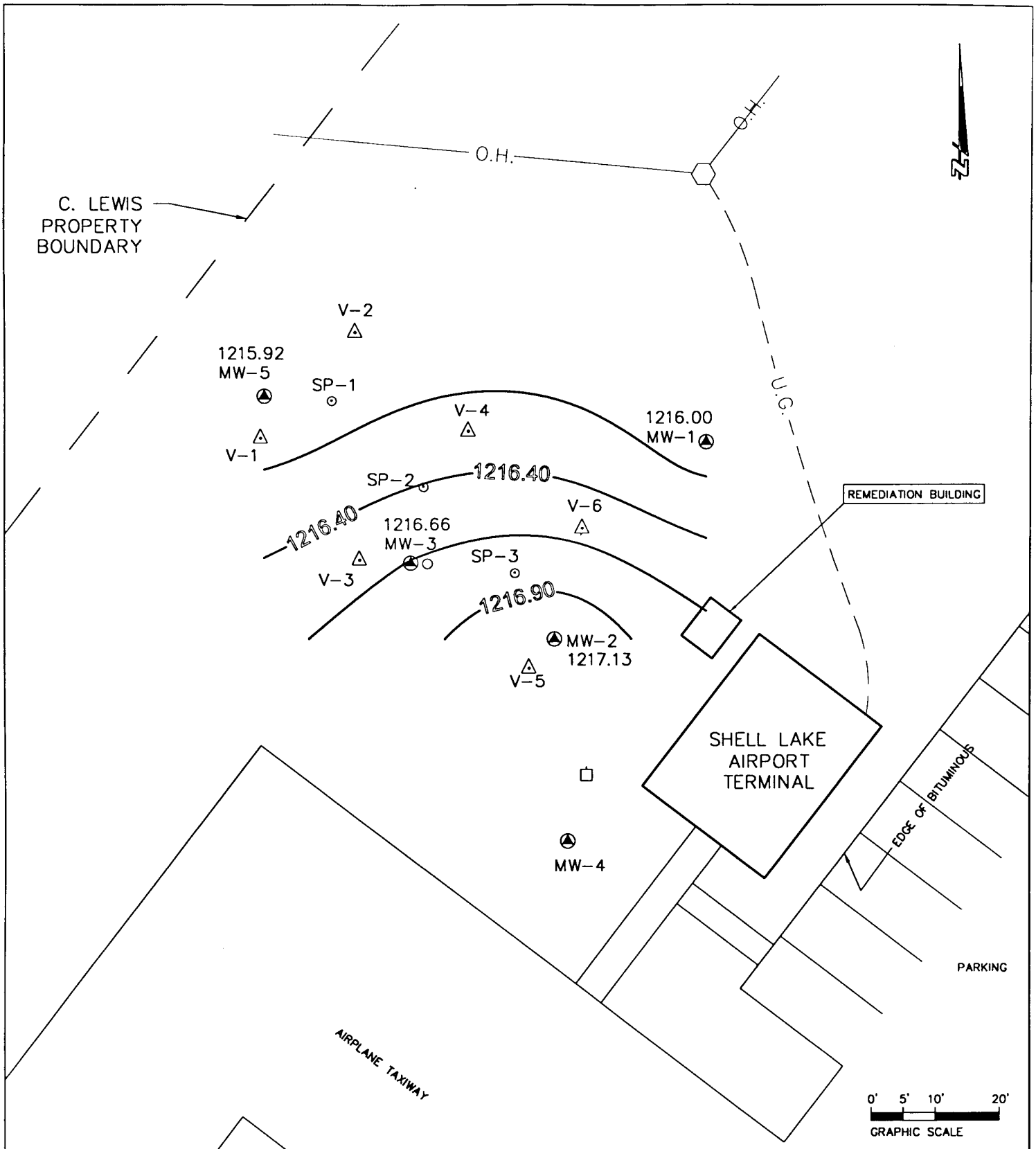
WATS 800-478-7372
FAX 715-235-6727

DRAWN BY: PKF	PROJECT TITLE: SHELL LAKE AIRPORT, SHELL LAKE, WI	CHECKED BY: MWI
DATE: AUG. '96		JOB NO.: 1450-004-64
FILE: SHCON1.DWG	Ground Water Contour 06/19/96	FIGURE: FIG. 5
SCALE: 1"=20'		



LEGEND

- SPARGE POINT
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- POWER POLE
- TEMPERATURE PROBE

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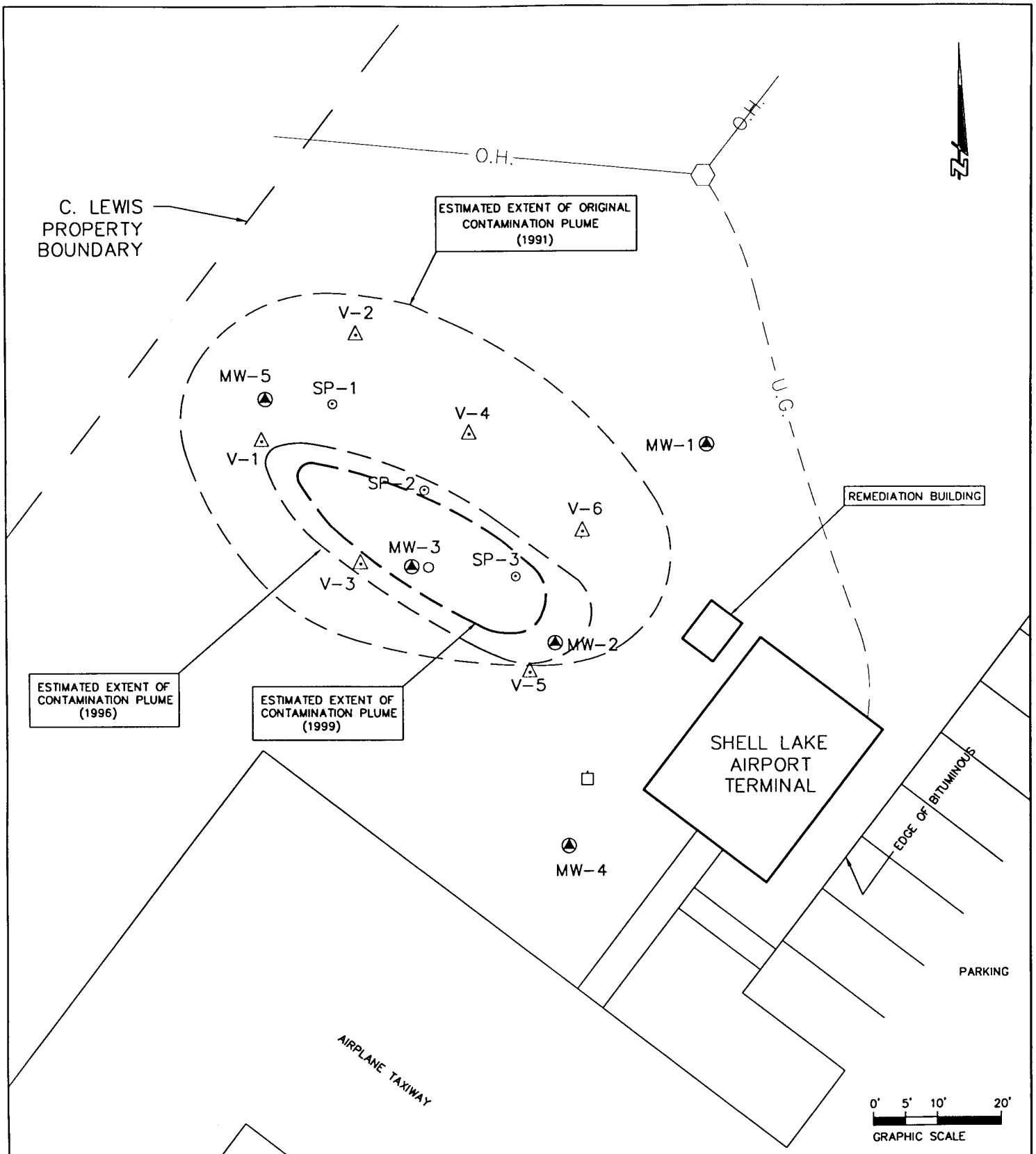
FAX 715-235-2727

DRAWN BY	PROJECT TITLE	CHECKED BY
PKF	SHELL LAKE AIRPORT	TAG
DATE: FEB. '99	SHELL LAKE, WI	JOB NO.: 1460-004-64
FILE: SH126.DWG	GROUND WATER FLOW MAP	FIGURE: 7A
SCALE: 1"=20'	1-26-99 GROUND WATER DATA	



LEGEND

- SPARGE POINT
- MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- POWER POLE
- TEMPERATURE PROBE

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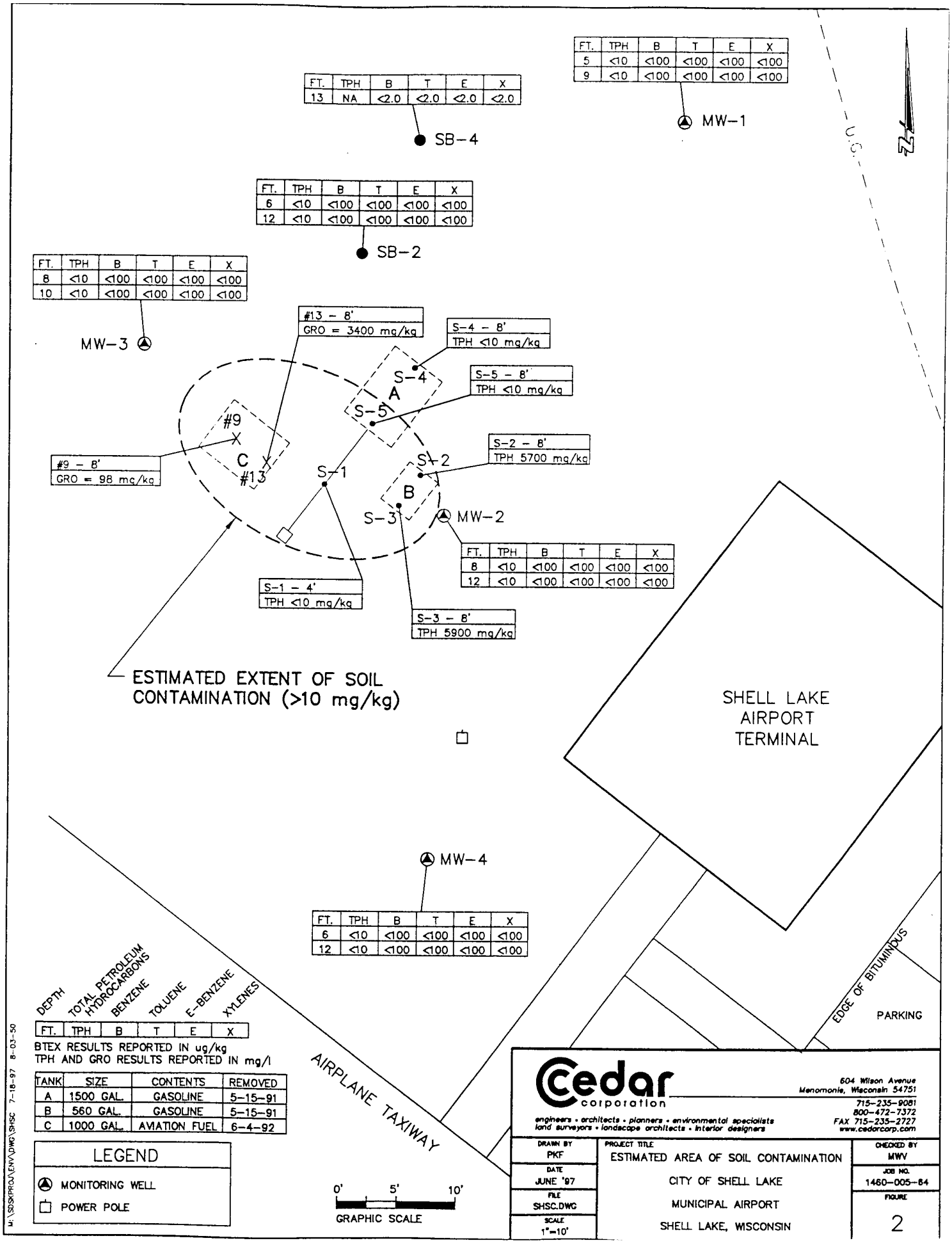
FAX 715-235-2727

DRAWN BY	PROJECT TITLE	CHECKED BY
PKF	SHELL LAKE AIRPORT SHELL LAKE, WI ESTIMATED AREA OF CONTAMINATION	MWI
DATE: MAR. '99		JOB NO.: 1460-004-64
FILE: SHCONB.DWG		FIGURE: 6
SCALE: 1"=20'		



FT.	TPH	B	T	E	X
5	<10	<100	<100	<100	<100
9	<10	<100	<100	<100	<100

FT.	TPH	B	T	E	X
13	NA	<2.0	<2.0	<2.0	<2.0

FT.	TPH	B	T	E	X
6	<10	<100	<100	<100	<100
12	<10	<100	<100	<100	<100

FT.	TPH	B	T	E	X
8	<10	<100	<100	<100	<100
10	<10	<100	<100	<100	<100

FT.	TPH	B	T	E	X
8	<10	<100	<100	<100	<100
12	<10	<100	<100	<100	<100

FT.	TPH	B	T	E	X
6	<10	<100	<100	<100	<100
12	<10	<100	<100	<100	<100

DEPTH | TOTAL PETROLEUM HYDROCARBONS | BENZENE | TOLUENE | E-BENZENE | XYLENES

FT.	TPH	B	T	E	X

BTEX RESULTS REPORTED IN ug/kg
TPH AND GRO RESULTS REPORTED IN mg/l

TANK	SIZE	CONTENTS	REMOVED
A	1500 GAL.	GASOLINE	5-15-91
B	560 GAL.	GASOLINE	5-15-91
C	1000 GAL.	AVIATION FUEL	6-4-92

LEGEND

MONITORING WELL

POWER POLE

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Menomonie, Wisconsin 54751
715-235-9081
800-472-7372
FAX 715-235-2727
www.cedarcorp.com

DRAWN BY	PROJECT TITLE	CHECKED BY
PKF	ESTIMATED AREA OF SOIL CONTAMINATION	MWV
DATE: JUNE '97	CITY OF SHELL LAKE	JOB NO.: 1460-005-84
FILE: SHSC.DWG	MUNICIPAL AIRPORT	FIGURE: 2
SCALE: 1"=10'	SHELL LAKE, WISCONSIN	

M:\SDSKPROJ\ENV\DWG\SHSC 7-18-97 8-03-50

Table 5

GRO AND PVOC GROUND WATER ANALYSIS RESULTS
CITY OF SHELL LAKE
SHELL LAKE MUNICIPAL AIRPORT

Monitoring Well	Date Sampled	Lab ID	GRO ug/L	Benzene ug/L PAL=0.5 ES=5	Ethylbenzene ug/L PAL=140 ES=700	MTBE ug/L PAL=12 ES=60	Toluene ug/L PAL=68.6 ES=343	1,2,4-TMB ug/L PAL=96* ES=480*	1,3,5-TMB ug/L PAL=96* ES=480*	Xylenes ug/L PAL=124 ES=620
1	7/11/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	9/23/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	11/15/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	3/20/92			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	6/12/92			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	9/9/92	109541		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	12/18/92	113332		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	3/29/93	116967		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	7/1/93	121893		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	9/22/93	125702		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	3/3/94	133381		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	6/22/94	138645		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	8/29/94	142171		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	12/9/94	147233	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	3/30/95	10 0082805	<50	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
1	7/24/95	10 0220159		<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
1	11/14/95	10 0346241		<1.0	<1.0	<4.0	4	2	<1.0	8.4
1	1/23/96	166910		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	4/11/96	171239		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	6/19/96	175437		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	7/18/96	177327		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	11/1/96	183573		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	4/9/97	993	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1	7/8/98	306089	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
1	10/14/98	321313	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
1	1/26/99	335436	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
2	7/11/91			230	100	<1.0	1100	120	38	170
2	9/23/91			1100	710	<20	1000	63	63	540
2	11/15/91			220	1900	<20	2300	310	300	1700
2	3/20/92			37	27	<5.0	280	45	58	250
2	6/12/92			15	<1.0	<1.0	7.8	1.5	<1.0	4.4
2	9/9/92	109542		73	14	<2.5	38	110	66	170
2	12/18/92	113333		430	73	<10	460	140	<10	500
2	3/29/93	116968		350	510	<100	7300	1000	<100	5200
2	7/1/93	121892		16	7	<1.0	16	19	6.9	63
2	9/22/93	125701		10	5.3	<1.0	20	21	7.5	57
2	3/3/94	133382		75	380	<1.0	2800	500	240	2800

Table 5 Cont.

Monitoring Well	Date Sampled	Lab ID	GRO ug/L	Benzene ug/L PAL=0.5 ES=5	Ethylbenzene ug/L PAL=140 ES=700	MTBE ug/L PAL=12 ES=60	Toluene ug/L PAL=68.6 ES=343	1,2,4-TMB ug/L PAL=96* ES=480*	1,3,5-TMB ug/L PAL=96* ES=480*	Xylenes ug/L PAL=124 ES=620
2	6/22/94	138646		6.8	82	<5.0	470	104	45	760
2	8/29/94	142173		<1.0	14	1.2	37	40	9.7	130
2	12/9/94	147234	770	<1.0	26	<1.0	59	30	7	140
2	3/30/95	10 0082813	5000	8.5	220	<20	660	350	110	2000
2	7/24/95	10 0220167		78	12	<4.0	310	11	3.6	86
2	11/14/95	10 0346268		1.1	96	<4.0	94	160	35	830
2	1/23/96	166911		<1.0	92	3.7	59	140	42	680
2	4/11/96	171240		<125	470	<125	220	650	210	3100
2	6/19/96	175438		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2	7/18/96	177328		<1.0	2.0	<1.0	1.2	1.9	<1.0	11
2	11/1/96	183574		<5.0	56	<5.0	12	76	57	430
2	4/9/97	994	112	<0.5	5.20	<1.0	<1.0	13.1	3.42	49.9
2	7/8/98	306090	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	0.35
2	10/14/98	321314	<50	<0.13	<0.22	<0.16	<0.20	0.52	<0.29	<0.23
2	1/26/99	335437	730	<0.13	7.2	<2.3	0.25	26	3.9	3.5
3	7/11/91			580	270	<1.0	2800	120	220	350
3	9/23/91			2800	410	<250	11000	400	<250	2500
3	11/15/91			4300	600	<500	22000	<500	<500	4400
3	3/20/92			3000	240	<200	13000	220	<200	1500
3	6/12/92			4800	680	<80	5000	690	<80	4600
3	9/9/92	109544		4400	640	<500	23000	620	<500	4700
3	12/18/92	113334		3000	520	<100	20000	630	<100	3400
3	3/29/93	116969		2600	330	<130	12000	280	<130	250
3	7/1/93	121891		2200	620	<200	11000	650	<200	4200
3	9/22/93	125700		4600	640	<250	23000	490	<250	4200
3	3/3/94	133383		290	39	<5.0	260	52	23	370
3	6/22/94	138647		5300	1000	<500	28000	580	<500	5100
3	8/29/94	142174		3200	4600	<100	16000	270	110	3200
3	12/9/94	147135	5600	260	150	<5.0	630	130	33	1000
3	3/30/95	10 0082821	18000	1800	380	<80	7300	670	240	3100
3	7/24/95	10 0220175		<1.0	58	<4.0	100	95	25	480
3	11/14/95	10 0346276		2000	530	<80	10000	410	140	3400
3	1/23/96	166912		550	120	<50	3200	110	<50	950
3	4/11/96	171241		1200	300	<25	7300	300	99	2300
3	6/19/96	175439		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
3	7/18/96	177329		<1.0	3.2	<1.0	<1.0	21	4.8	40
3	11/1/96	183575		2,500	810	<250	20,000	630	<250	6,000
3	4/9/97	995	1460	24.0	47.5	<1.0	116	105	38.0	441
3	7/8/98	306091	1100	78	20	<0.20	570	15	3.8	190
3	10/14/98	321315	20000	890	610	<16	10000	580	160	4400
3	1/26/99	335438	270	30	0.55	<0.16	32	0.57	<0.29	7.0
4	7/11/91			8.7	<1.0	<1.0	<1.0	4.2	<1.0	3.3

Table 5 Cont.

Monitoring Well	Date Sampled	Lab ID	GRO ug/L	Benzene ug/L PAL=0.5 ES=5	Ethylbenzene ug/L PAL=140 ES=700	MTBE ug/L PAL=12 ES=60	Toluene ug/L PAL=68.6 ES=343	1,2,4-TMB ug/L PAL=96* ES=480*	1,3,5-TMB ug/L PAL=96* ES=480*	Xylenes ug/L PAL=124 ES=620
4	9/23/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	11/15/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	3/20/92			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	6/12/92			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	9/9/92	109545		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	12/18/92	113335		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	8/29/94	142175		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	12/9/94	147137	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	3/30/95	10 0082830	<50	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
4	7/24/95	10 0220183		<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
4	11/14/95	10 0346284		<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
4	4/11/96	171242		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	6/19/96	175440		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	7/18/96	177330		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	11/1/96	183576		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	4/9/97	996	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4	7/8/98	306092	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
4	10/14/98	321316	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
5	11/15/91			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	3/20/92			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	6/12/92			3.2	<1.0	<1.0	1.8	2.6	<1.0	7
5	9/9/92	109546		220	<5.0	<5.0	<5.0	12	<5.0	7.8
5	12/18/92	113336		69	<1.0	<1.0	1.4	1.5	<1.0	<1.0
5	3/29/93	116970		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	7/1/93	121890		42	<1.0	<1.0	1.2	12	<1.0	28
5	9/22/93	125699		26	<1.0	<1.0	<1.0	<1.0	<1.0	5.8
5	3/3/94	133384		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	6/22/94	138649		1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	8/29/94	142176		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	12/9/94	147138		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	3/30/95	10 0082848	<50	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
5	7/24/95	10 0220191		<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
5	11/14/95	10 0346292		<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<2.0
5	1/23/96	166913		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	4/11/96	171244		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	6/19/96	175441		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	7/18/96	177331		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	11/1/96	183577		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	4/9/97	997	<50	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
5	7/8/98	306093	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
5	10/14/98	321317	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23
5	1/26/99	335439	<50	<0.13	<0.22	<0.16	<0.20	<0.22	<0.29	<0.23

GRO = Gasoline Range Organics ug/L = micrograms per liter = parts per billion

Table 5 Cont.

Monitoring Well	Date Sampled	Lab ID	GRO ug/L	Benzene ug/L PAL=0.5 ES=5	Ethylbenzene ug/L PAL=140 ES=700	MTBE ug/L PAL=12 ES=60	Toluene ug/L PAL=68.6 ES=343	1,2,4-TMB ug/L PAL=96* ES=480*	1,3,5-TMB ug/L PAL=96* ES=480*	Xylenes ug/L PAL=124 ES=620

MTBE = Methyl-Tert-Butyl Ether
TMB = Trimethylbenzene
PAL = Preventive Action Limit (NR 140)
ES = Enforcement Standard (NR 140)

mg/L = milligrams per liter = parts per million
NA = Not Analyzed
* = 1,2,4-TMB and 1,3,5-TMB combined

Tuesday, February 16, 1999
I://working/grpv

Table 6

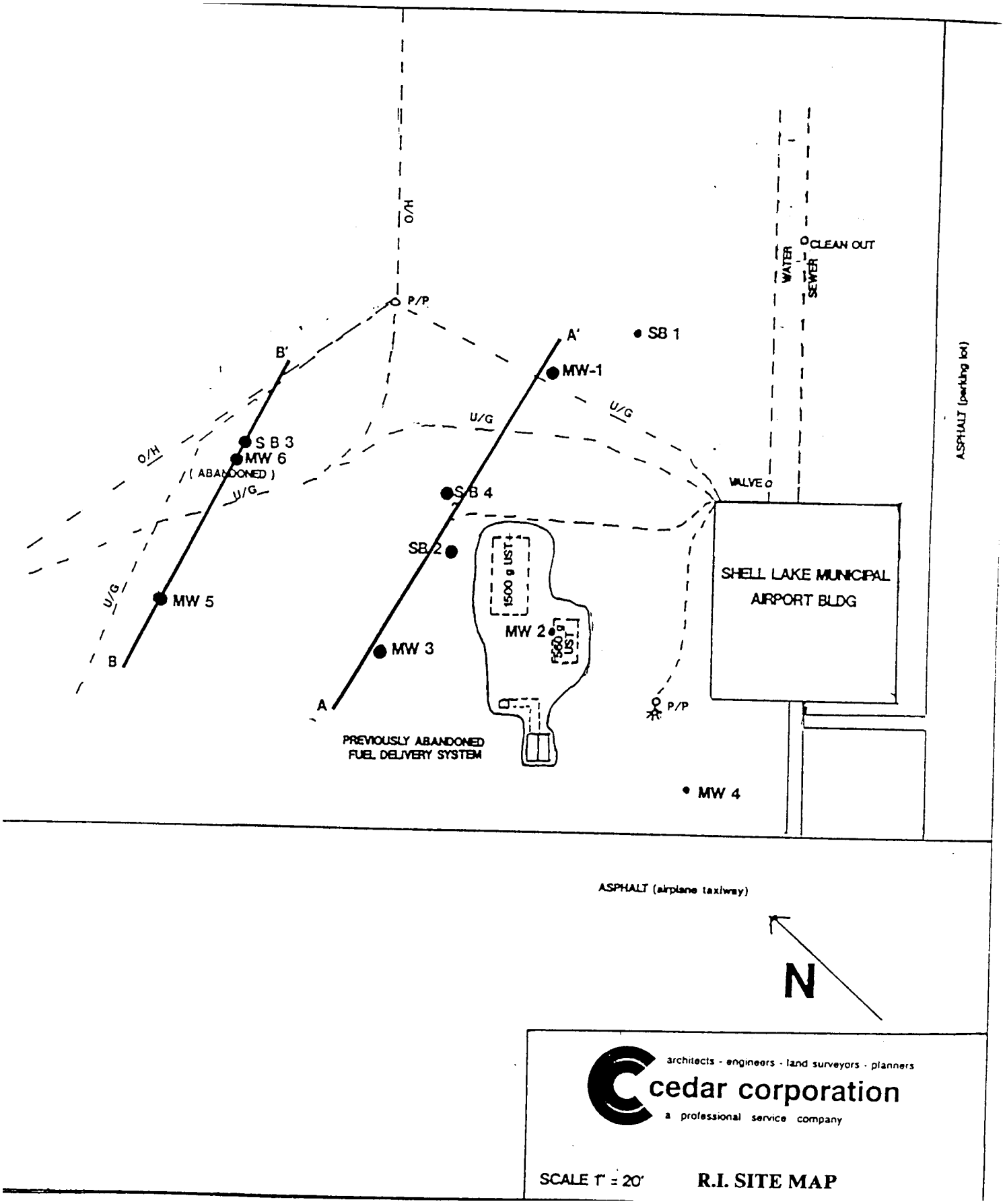
NATURAL ATTENUATION INDICATOR PARAMETERS
CITY OF SHELL LAKE
SHELL LAKE MUNICIPAL AIRPORT

Monitoring Well	Date Sampled	Dissolved Oxygen mg/L	Redox Pot. mv	Nitrate + Nitrite as Nitrogen mg/L	Iron dissolved mg/l	Sulfate dissolved mg/L
1	6/19/96	10.6		2.42	<0.10	
1	11/1/96	8.2	155	2.38	0.446	3.87
1	4/9/97	9.7	235	2.54	<0.01	2.95
1	7/8/98	9.3	205	4.0	<0.019	6.3
1	10/14/98	8.3	85	1.8	0.20	10
1	1/26/99	9.1	200	1.6	<0.019	8.1
2	6/19/96	5.6		3.04	<0.10	
2	11/1/96	9.3	115	0.96	0.160	3.38
2	4/9/97	8.8	275	2.37	<0.01	3.03
2	7/8/98	8.5	180	2.2	<0.019	7.9
2	10/14/98	5.3	110	1.7	<0.019	9.6
2	1/26/99	2.5	230	2.3	<0.019	7.3
3	6/19/96	9.6		3.07	<0.10	
3	11/1/96	3.9	135	<0.3	0.871	<1.5
3	4/9/97	9.8	175	10.5	0.210	14.0
3	7/8/98	6.2	230	3.0	0.38	12
3	10/14/98	1.2	50	0.31	4.6	16
3	1/26/99	1.7	110	0.36	1.0	10
4	6/19/96	11.7		1.63	<0.10	
4	11/1/96	8.7	105	1.73	0.013	3.01
4	4/9/97	11.4	270	1.88	<0.01	4.11
4	7/8/98	8.2	230	3.1	<0.019	6.3
4	10/14/98	5.8	125	1.5	<0.019	7.5
5	6/19/96	9.5		2.06	<0.10	
5	11/1/96	5.3	135	2.14	0.049	3.54
5	4/9/97	9.5	195	2.51	<0.01	10.1
5	7/8/98	5.3	225	2.8	<0.019	8.5
5	10/14/98	8.2	140	0.57	<0.019	8.6
5	1/26/99	5.5	205	0.78	<0.019	6.9

NA = Not Analyzed
ug/L = micrograms per liter = parts per billion
mg/L = milligrams per liter = parts per million

su = standard units
mv = millivolts
Redox Pot. = Reduction Oxidation Potential

Cedar Corporation, 2/16/99



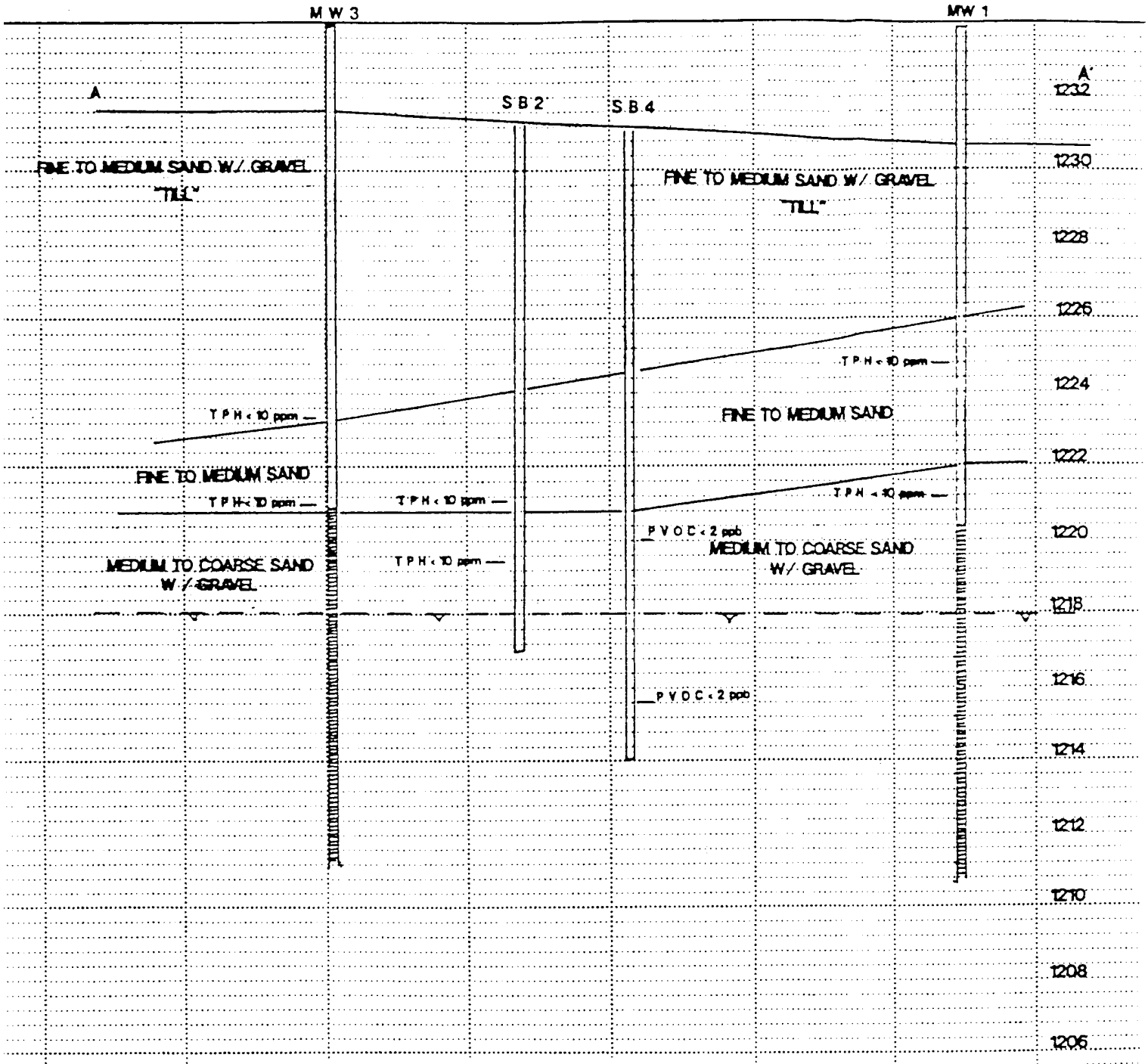
architects - engineers - land surveyors - planners

cedar corporation

a professional service company

SCALE 1" = 20'

R.I. SITE MAP

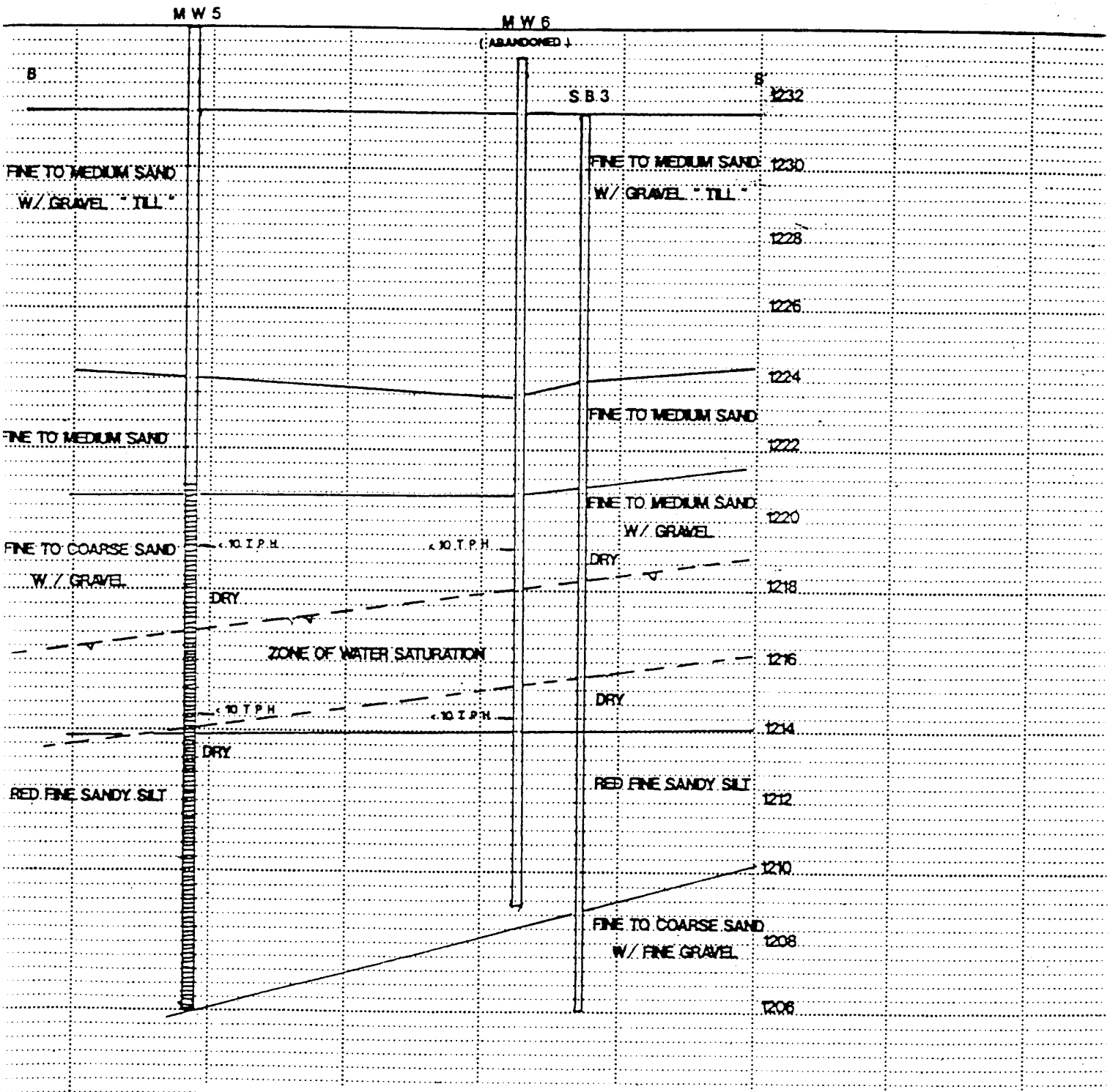


NOTE- ▼ WATER TABLE AVERAGED FROM 6/24/91 TO 11/15/91

SEE 10/91 REPORT AND 1/92 ADDENDUM FOR LAB ANALYTICAL RESULTS

DRAWN	KKM
REVISED	
DATE	3/4/92
SCALE HORZ	1" = 10
SCALE VERT	1" = 4

R.I. CROSS SECTION / A - A' **FIG. 5**



NOTE: ▽ WATER TABLE INFORMATION BASED ON DATA COLLECTED AT TIME OF DRILLING 10/31/91 AND 11/15/91.

R.I. CROSS SECTION / B - B'

FIG. 5A