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MPCA, HAZARDOUS
WASTE DIVISION

COPY

December 13, 1993

American Federal Savings Bank
124 DeMers Avenue
East Grand Forks, MN 56721-0638

Attention: Mr. David Fisher

Subject: Addendum to Results of Remedial Investigation
1819 Central Avenue NW
East Grand Forks, MN 56721
#5300 03-78
Leak # 5934

Dear Mr. Fisher:

Enclosed is a copy of our addendum to the Remedial Investigation/Corrective Action Design (RI/CAD) report associated with the above referenced site dated November 29, 1993.

Please find enclosed in Table 1 the soil sample screening data recorded at the time the soil borings were drilled. Also, please find attached the soil boring logs for the six soil borings.

Review of this additional information does not change our opinion concerning our proposal to monitor the site for one year. Although the MPCA action level for gasoline concentrations in soils is exceeded in SB-2 and SB-6, excavation of the soil does not appear to be an option for the following three reasons:

- 1) contaminated soil under the building would not be excavable;
- 2) upwards of 2,500 cubic yards of soil would potentially need to be removed from the site; and,
- 3) the possibility of off-site contamination affecting MW-2 still exists.

We are forwarding two copies of the addendum to our report to you and retaining one copy for submission to the MPCA. After you have reviewed the addendum to our report, please sign and date the attached "Approval for Release" form. For your convenience, two copies of the form have been included. Return

the one stamped "Copy" in the envelope provided and retain the other for your records. Upon receipt of the "Approval for Release" form in our office, we will send a copy of the addendum to the MPCA. We will not submit copies of the addendum without your written permission.

If you have any questions regarding the information in this addendum, or if we can be of additional service, please contact us at (701) 235-4256.

TWIN CITY TESTING CORPORATION



Steven D. Jorgensen
Project Manager
Environmental Scientist



 **Terry Johnson**
Environmental Project Manager

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WASTE DIVISION

**TABLE 1
SOIL SAMPLE SCREENING RESULTS
LEISURELAND RV
EAST GRAND FORKS, MN**

Sample Depth Interval	0-1½	2-4	4½-6½	7-9	9½-11½	12-14	14½-16½	19½-21½	24½-26½
SB-1	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-2	1	1	112	220	200	5	1	ND	ND
SB-3	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-4	4	TR	ND	ND	ND	ND	ND	ND	ND
SB-5	1.5	1	TR	ND	ND	ND	ND	ND	ND
SB-6	16	2	ND	300	290	60	8	ND	ND

All values reported as parts per million (PPM)
ND = Not Detected

LOG OF TEST BORING


 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-1

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>98.4</u>	GEOLOGIC ORIGIN	N OF CR	WL	SAMPLE		TESTS		ORGANIC VAPOR		
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)	
1.0	FILL, sand mixed with gravel, medium grained, brown, moist (SP)	Fill			1	FA			ND		
	FILL, mixture of organic lean clay w/a little gravel, black					2	SB			ND	
3.5	LEAN CLAY, brown (CL)	Fine Alluvium									
5.0	LEAN CLAY, brown mottled, laminations of silt (CL)					3	SB			ND	
7.0	FAT CLAY, brown mottled, laminations of silt (CH)	lacustrine									
						4	SB			ND	
						5	SB			ND	
						6	SB			ND	
15.5	FAT CLAY, gray, laminations of silt (CH)			▼							
					7	SB			ND		
					8	SB			ND		
					9	SB			ND		
26.5	End of Boring										

* = None measurable
ND = Non detect

WATER LEVEL MEASUREMENTS

 START 1-13-93 COMPLETE 1-13-93

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD
1-13-93	2:20	26.5'	None	24.5'		*	3 1/4" HSA 0-24 1/2'
1-14-93	11:30	26.5'	None	23.5'		15.5'	

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LOG OF TEST BORING

 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-2

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>97.5</u>	GEOLOGIC ORIGIN	N or CR	WL	SAMPLE		TESTS		ORGANIC VAPOR	
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)
0.3	FILL, sand with gravel, medium grained, brown (SP)	Fill			1	FA			1.0	
2.0	FILL, organic lean clay mixed with gravel, black LEAN CLAY, brown (CL)		Fine Alluvium			2	SB			1.0
4.0	LEAN CLAY, brown mottled, laminations of silt (CL)				3	SB			112.0	
7.0	FAT CLAY, brown mottled, laminations of silt (CH)	Lacustrine				4	SB			220.0
					5	SB			200.0	
					6	SB			5.0	
					7	SB			1.0	
					8	SB			ND	
16.0	FAT CLAY, gray, laminations of silt (CH)				9	SB			ND	
26.5	End of Boring ND = Non detect									

WATER LEVEL MEASUREMENTS

 START 1-13-93 COMPLETE 1-13-93

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD
1-13-93	3:30	26.5'	24.5'	23.5'		23.4'	3 1/4" HSA 0-24 1/2'
1-14-93	11:20	26.5'	24.5'	17.5'		12.3'	

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LOG OF TEST BORING


 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-3

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>98.0</u>	GEOLOGIC ORIGIN	N or CR	WL	SAMPLE		TESTS		ORGANIC VAPOR		
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)	
1.0	FILL, mixture of sand gravel and lean clay, brown	Fill			1	FA				ND	
	FILL, mixture of lean clay with a little gravel, brown and black					2	SB				ND
3.5	LEAN CLAY, brown (CL)	Fine Alluvium									
5.0	LEAN CLAY, brown mottled, laminations of silt (CL)					3	SB				ND
7.0	FAT CLAY, brown mottled, laminations of silt (CH)	Lacustrine									
						4	SB				ND
						5	SB				ND
						6	SB				ND
						7	SB				ND
16.0	FAT CLAY, gray, laminations of silt (CH)										
						8	SB				ND
					9	SB				ND	
26.5	End of Boring										

* = None measurable
ND = Non detect

WATER LEVEL MEASUREMENTS

 START 1-13-93 COMPLETE 1-13-93

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD
1-13-93	4:32	26.5'	None	24.5'		*	3 1/4" HSA 0-24 1/2'
1-14-93	11:35	26.5'	None	22.5'		15.8'	

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LOG OF TEST BORING

 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-4

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL ↓ SURFACE ELEVATION <u>98.9</u>	GEOLOGIC ORIGIN	N OF CR	WL	SAMPLE		TESTS		ORGANIC VAPOR		
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)	
1.5	FILL, lean clay mixed with sand and gravel, brown	Fill			1	FA			4.0		
4.5	FILL, organic lean clay mixed with lean clay, brown and black					2	SB			TR	
6.0	LEAN CLAY, brown (CL)	Fine Alluvium			3	SB			ND		
8.0	LEAN CLAY, brown, laminations of silt (CL)					4	SB			ND	
17.0	FAT CLAY, brown mottled, laminations of silt (CH)	Lacustrine			5	SB			ND		
						6	SB			ND	
						7	SB			ND	
						8	SB			ND	
26.5	FAT CLAY, gray, laminations of silt (CH)				9	SB			ND		
End of Boring											
TR = Trace											
ND = Non detect											

WATER LEVEL MEASUREMENTS

 START 1-14-93 COMPLETE 1-14-93

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD
1-14-93	12:42	26.5'	None	24.5'		24.3'	3 1/4" HSA 0-24 1/2'
							CREW CHIEF
							ZAK

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LOG OF TEST BORING


 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-5

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>97.7</u>	GEOLOGIC ORIGIN	N OF CR	WL	SAMPLE		TESTS		ORGANIC VAPOR	
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)
0.5	FILL , sand mixed with gravel, brown (SP)	Fill			1	FA			1.0	
	FILL , a mixture of organic lean clay and lean clay, brown and black					2	SB			1.0
					3	SB			TR	
6.0	LEAN CLAY , brown, laminations of silt (CL)	Fine Alluvium			4	SB			ND	
8.0	FAT CLAY , brown mottled, laminations of silt (CH)	Lacustrine			5	SB			ND	
					6	SB			ND	
					7	SB			ND	
					8	SB			ND	
					9	SB			ND	
17.0	FAT CLAY , gray, laminations of silt (CH)									
26.5	End of Boring									

* = None measurable
 TR = Trace
 ND = Non detect

WATER LEVEL MEASUREMENTS							START	COMPLETE
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	<u>1-14-93</u>	<u>1-14-93</u>
1-14-93	1:50	26.5'	None	24.5'		*		a 1:45
							CREW CHIEF	ZAK

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LOG OF TEST BORING


 JOB NO. 5400 93-48

 VERTICAL SCALE 1" = 4'

 BORING NO. SB-6

 PROJECT American Federal, East Grand Forks, MN

DEPTH IN FEET	DESCRIPTION OF MATERIAL SURFACE ELEVATION <u>98.5</u>	GEOLOGIC ORIGIN	N OF CR	WL	SAMPLE		TESTS		ORGANIC VAPOR	
					NO.	TYPE	W	D	hNu (ppm)	bkgd (ppm)
3.0	FILL, organic and lean clay mixed, brown and black	Fill			1	FA			16.0	
			2	SB			2.0			
6.0	LEAN CLAY, brown (CL)	Fine Alluvium			3	SB			ND	
			4	SB			300.0			
8.0	LEAN CLAY, brown mottled, laminations of silt (CL)	Lacustrine			5	SB			290.0	
			6	SB			60.0			
16.0	FAT CLAY, brown mottled, laminations of silt (CH)	Lacustrine			7	SB			8.0	
			8	SB			ND			
26.5	FAT CLAY, gray, laminations of silt (CH)	Lacustrine			9	SB			ND	
End of Boring										
* = None measurable ND = Non detect										

WATER LEVEL MEASUREMENTS							START	COMPLETE
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	BAILED DEPTHS	WATER LEVEL	METHOD	
1-14-93	2:47	26.5'	None	24.5'		*	3 1/4" HSA 0-24 1/2'	@ 2:45
							CREW CHIEF	ZAK

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