Minnesota Pollution Control Agency
520 Lafayette Road, Saint Paul, Minnesota 55155-3898
Telephone (612) 296-6300

Celebrate MINNESOTA 1990

December 21, 1990

Mr. Randy Grupe
Independent School District #456
Post Office Box 268
Welcome, Minnesota 56181

Dear Mr. Grupe:

RE: Petroleum Tank Release Site Closure
Site: Sherburn Elementary School, West Fifth Steet, Sherburn
Site ID#: LEAK00002626

The Minnesota Pollution Control Agency (MPCA) staff has determined that the cleanup performed in response to the petroleum tank release at the site referenced above has adequately addressed the petroleum contamination, and therefore the file regarding this release will be closed.

On June 5, 1990, a petroleum tank release was reported to the MPCA. Since then you have taken the following corrective actions in response to the release:

- One (1) 10,000 gallon fuel oil underground storage tank was removed.
- Approximately 100 cubic yards of petroleum contaminated soil was excavated to a depth of approximately 10 feet below grade. Soil removal ceased when petroleum vapor readings, utilizing the jar headspace technique, diminished to below the MPCA action level. Laboratory analyses of soil samples from the base of the excavation beneath the former tank were below method detection limits for total hydrocarbons as fuel oil, benzene, ethylbenzene, toluene, and xylene.
- The petroleum contaminated soil was land applied with MPCA approval at the southwest 1/4 of the southwest 1/4 of Section 6, Township 102N, Range 32W, Manyaska Township, Martin County, Minnesota. Follow-up analyses of soil samples from the landfarm site indicate adequate treatment has occurred.

Based on the currently available information, we believe these actions have adequately addressed the petroleum tank release. Therefore, MPCA staff does not intend to require any more investigation or cleanup work in response to this release. However, the MPCA reserves the right to reopen this file and require additional work if in the future more work is determined to be necessary, and this letter does not release any party from liability for this contamination.

Because you performed the requested work, the state may reimburse you for a major portion of your costs. The Petroleum Tank Release Cleanup Act establishes a fund which in certain circumstances provides partial reimbursement for petroleum tank release cleanup costs. This fund is administered by the Petroleum Tank Release Compensation Board (Petro Board). More specific eligibility rules are available from the Petro Board (612/297-4017).

Thank you for your cooperation with the MPCA in responding to this petroleum tank release to protect the public health and the environment of the state of Minnesota. If you have any questions regarding this correspondence, please call me at 612/643-3429.

Sincerely,

Donald K. Milless

Donald K. Milless
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division

DKM:np
cc: Bert Schwager, Fire Chief, Sherburn
Harold Leverson, City Clerk, Sherburn
Steve Bloom, Martin County Solid Waste Officer, Fairmont
Jerry Erickson, Institute for Environmental Assessment, Mankato

INSTITUTE
for ENVIRONMENTAL
ASSESSMENT

December 12, 1990

Don Milless, MPCA
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division
520 Lafayette Road
St. Paul, MN 55155

Dear Don,

Enclosed are lab sample results for the Sherburn Elementary UST land spread site and other associated documentation.

The samples came back as clean, so I would assume this would complete the activities at this site? Would you please call me if more information is required.

With your approval and all of the other requirements fulfilled, the district is looking forward to replenishing their capital fund with the petro fund reimbursement money.

Sincerely,

Jerald Erickson
Project Manager
Mankato Regional Office

JE:mb/mw2

Enclosure

cc: Randy Grupe

Mankato Office
610 N. Riverfront Drive, Mankato, MN 56001 (507) 345-8818 1(800) 872-1260 FAX (507) 345-5301 A Minnesota Corporation

SOIL MONITORING RESULTS FOR LAND-APPLIED PETROLEUM CONTAMINATED SOIL

Minnesota Pollution Control Agency
Tanks and Spills Section
December 12, 1990

This form should be used for reporting the results of followup soil sampling where petroleum contaminated soil has been land-applied. Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on soil sampling.

A. Tank Owner/Operator:
Sherburn ISD #456

Petroleum Release Site:
Sherburn Elementary School

MPCA Site ID#: **2626**

B. Address or legal description of land application site:
SW 1/4 of **SW** 1/4 of Section **6**, Township **102N**, Range **32W**

C. Consultant (or other) preparing this form:
Jerald Erickson **Phone: 507-345-8818**

D. Dates that tillage was done (since land application or the most recent monitoring report):
July 1990, September 1990, October 1990

E. Soil sampling date: **November 29, 1990**

F. List the soil sample analytical results from the land application site. For petroleum products other than gasoline and fuel oil, refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites" for analyses to report and attach a separate results table. Use parts per million (ppm) units.

Sample Number	Total Hydrocarbons as Gas or Fuel Oil ppm	Sample Number	Total Hydrocarbons as Gas or Fuel Oil ppm
4076/0401/1	**BDL**		
4076/0401/2	**BDL**		

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

Mail to:

Minnesota Pollution Control Agency
Attention: Don Milless
Hazardous Waste Division
Tanks and Spills Division
520 Lafayette Road
St. Paul, Minnesota 55155

MVTL LABORATORIES, Inc.
P.O BOX 249
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Report To: Institute for Environmental Assessment
610 No. Riverfront
Mankato, MN 56001
Attn: Jerry Erickson

Date: December 10, 1990
Work Order: 21-0002
Date Received: 12-03-90

RE: Martin Co. West
Shoreline & Cemetery Ust. Land/Soil Samples.

Date Analyzed = 12/05/90

ANALYZED FOR BENZENE, ETHYL BENZENE, TOLUENE, XYLENE & TOTAL HYDROCARBONS:

Sample I.D.	Lab #	Ethyl Benzene /ppb	Benzene /ppb	Toluene /ppb	Xylene /ppb	* Total Hydrocarbons /ppm As Fuel Oil
4076/ ~~4237~~/0401/1 (Soil)	0003	< 15.0	< 20.0	< 20.0	< 15.0	BDL
4076/ ~~4237~~/0401/2 (Soil)	0004	< 15.0	< 20.0	< 20.0	< 15.0	BDL
Trip Blank (Water)	0005	< 1.5	< 2.0	< 2.0	< 1.5	BDL

BDL = Below Detection Limits.

* SOIL - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 2.0 ppm
As Fuel Oil/Diesel - 5.0 ppm

* WATER - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 0.5 ppm
As Fuel Oil/Diesel - 1.0 ppm

Report approved by Wade Pullman,
Chemist
By and for Minnesota Valley Testing labs., Inc.
/SH

21-0002
+ 0003-005

LABORATORY REQUEST AND CHAIN OF CUSTODY FORM

INSTITUTE for ENVIRONMENTAL ASSESSMENT
641 East Main Street
Anoka, Minnesota 55303
(612) 427-7870 • 1-800-233-9513

Please complete all appropriate unshaded items on this form

PAGE____OF____

SAMPLING DATE 1-29-90 PROJECT # 4076/0401 CLIENT NAME Martin Co West. Shubuna ISD

BUILDING NAME Sherburne Elem UST

PROJECT Soil Sample - Contaminated Land Application

SAMPLE CONTACT INFORMATION

NAME	Jerry Erickson IEA-KATO
COMPANY (District)	
ADDRESS	
CITY, STATE, ZIP	
PHONE # ( )	
DATE PACKAGE SHIPPED:	/ /
CARRIER	
PACKAGE SHIPPED FROM	

FOR IEA LABORATORY USE ONLY

ANALYSIS	#	UNIT PRICE	TOTAL

DATE OF PACKAGE DELIVERY:	/ /
CONDITION OF PACKAGE ON RECEIPT	
CONDITION OF CUSTODY SEAL	
NUMBER OF SAMPLES RECEIVED	
SIGNATURE OF CHAIN OF CUSTODY RECIPIENT	Shelly Heim

Priority for TEM sample results: ☐ <12 hrs. ☐ 12-24 hrs. ☐ 24-72 hrs. ☐ >3 days

For all other samples verbal results needed by: date _____ time _____

EVENT #	SAMPLE #	VOLUME (Liters)	LOCATION/ COMMENTS	EVENT #	SAMPLE #	VOLUME (Liters)	LOCATION/ COMMENTS
	4076/0401/1	Soil	East Landspread site North of Martin Co West High school				
	2	Soil	West Landspread site				

DATE OF ANALYSIS _____

Minnesota Pollution Control Agency
520 Lafayette Road, Saint Paul, Minnesota 55155
Telephone (612) 296-6300

Celebrate MINNESOTA 1990

August 27, 1990

Mr. Randy Grupe
Independent School District #456
Post Office Box 268
Welcome, Minnesota 56181

Dear Mr. Grupe:

RE: Approval of Land Application of Petroleum Contaminated Soil
Site: Sherburn Elementary School, West Fifth Street, Sherburn
Site ID#: LEAK00002626

The request submitted by your consultant dated August 7, 1990, to land apply approximately 100 cubic yards of petroleum contaminated soil is hereby approved by staff of the Minnesota Pollution Control Agency (MPCA). This approval is based upon the MPCA staff's understanding that the appropriate county and local officials have been notified and/or have given approval for the land application of this soil and is subject to the following additional conditions:

1. Stockpiled soils shall be protected from infiltration and run-off prior to land application.
2. Soil shall be applied to land located in the Southwest one quarter of the Southwest one quarter of Section 6 of Township 102N, Range 32W, Manyaska Township, Martin County, Minnesota.
3. Soils shall be spread to a thickness of no more than four inches and incorporated into the top six inches of native soil per MPCA document "Land Application of Petroleum Contaminated Soil: Single Application Sites" (April 25, 1990). Soils shall be disked once per month during the growing season.
4. The land-applied soil shall be sampled and reports shall be submitted in accordance with part III.C of the MPCA land application document until analyses are 10 parts per million total petroleum hydrocarbons or lower. The MPCA form entitled "Soil Monitoring Results for Land-Applied Petroleum Contaminated Soil" should be used for reporting monitoring results.

We believe these actions will provide adequate treatment of petroleum contaminated soils. The MPCA reserves the right to require additional work if this is determined to be necessary to protect public health and the environment. This letter does not release any party from liability for this contamination.

Please contact me at 612/643-3429, if you have any further questions.

Sincerely,

Donald K. Milless

Donald K. Milless
Pollution Control Specialist
Tanks and Spills Section
Hazardous Waste Division
DKM:jr
cc: Steve Bloom, Martin County Zoning Officer, Fairmont
The Honorable Wayne Weber, Mayor of Sherburn
Jerry Erickson, IEA, Mankato

EXCAVATION REPORT FOR PETROLEUM RELEASE SITES

Minnesota Pollution Control Agency
Tanks and Spills Section
April 25, 1990

The information below should be completed and submitted to the Minnesota Pollution Control Agency (MPCA) Tanks and Spills Section to document excavation of petroleum contaminated soil. Excavations must be done in accordance with the MPCA document "Excavation of Petroleum Contaminated Soil". Preliminary site investigation reports (if conducted) should be included with this report.

Additional pages may be attached. Please type or print clearly.

I. BACKGROUND

A. Site: Sherburn Elementary School

Street: East Fifth Street
City, Zip: Sherburn, MN 56171
County: Martin

MPCA Site ID#: LEAK0000 2626

B: Tank Owner/Operator: Sherburn ISD #456

Mailing Address:

Street/Box: Box 268
City, Zip: Welcome, MN 56181
Telephone: 507-728-8276

C. Excavating Contractor: Paape Dist. Co.

Contact: Robert Adams
Telephone: 507-345-4828
Tank Contractor Certification Number: 0595

D: Consultant:

Contact: Jerry Erickson
Street/Box: 610 N. Riverfront Dr.
City, Zip: Mankato, MN 56001
Telephone: 507-345-8818

E. Others on-site during site work (e.g., fire marshal, local officials, MPCA staff, etc.): Public Utilities - Sherburn
Interstate Power - Sherburn

Note: If person other than tank owner and/or operator is conducting the cleanup, provide name, address, and relationship to site on a separate attached sheet.

II. DATES

A. Date release reported to MPCA: June 5, 1990

B. Dates site work performed:

Work Performed	Date
Tank Removed - contaminated soil piled	June 20, 1990
New Tank Installed	July 13, 1990

III. RELEASE INFORMATION

A. Provide the following information for all tanks which have been removed.

Tank 1: Capacity 10,000 Type Steel Age 22 years

Condition: Corroded

Product history: Fuel oil #2

Approximate quantity of petroleum released, if known:

Cause of release: Holes in side of tank

Tank 2: Capacity _____ Type _____ Age _____

Condition: _____

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

Tank 3: Capacity _____ Type _____ Age _____

Condition: _____

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

B. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
None				

C. If the release was associated with the lines or dispensers, briefly describe the problem:

Not associated

D. If the release was a surface spill, briefly describe the problem:

Some contamination from spills during tanker unloading.

IV. EXCAVATION

A. Dimensions of excavation: 20 feet wide X 30 feet long X 10 feet deep

B. Original tank backfill material (sand, gravel, etc.): Clay & gravel

C. Native soil type (clay, sand, etc.): Clay

D. Quantity of contaminated soil removed (cubic yards): 100 yds

E. Was ground water encountered or was there evidence of a seasonally high ground water table? At what depth?
NO

F. If a soil boring was necessary (as indicated in part VI of "Excavation of Petroleum Contaminated Soil" for sand and silty sand native soils) describe the soil analytical and soil vapor headspace results. Attach the boring logs and laboratory results to this report.

G. If ground water was encountered or if a soil boring was conducted, was there evidence of ground water contamination? Specify, e.g., free product (specify thickness), product sheen, ground water in contact with petroleum contaminated soil, water analytical results, etc.

NO

H. Was bedrock encountered in the excavation? At what depth?

NO

I. Were there other unique conditions associated with this site? If so, explain.

There was NOT much sand or gravel in clay. Spill contained around tank.

V. SAMPLING

A. Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil:
OVA meter used to separate soil. Discolored soil was removed first, then OVA was used to determine if soil on sides and bottom was contaminated.

B. List soil vapor headspace analysis results. Indicate sampling locations using sample codes (with sampling depths in parentheses), e.g. SV-1 (2'), SV-2 (10'), etc. Samples that were taken at different depths at the same location should be labeled SV-1A (2'), SV-1B (4'), SV-1C (6'), etc. These should correspond with the codes on the site map in part VI.

Sample Code	Soil Type	Reading, ppm	Sample Code	Soil Type	Reading, ppm
SV1A-4	Clay	10	SV4A-14	Clay	0.9
SV2A-4	Clay	15	SV2C-14	Clay	0.5
SV3A-8	Clay	200	SV6-8	Clay	0.7
SV2B-8	Clay	250	Sv 7-8	Clay	0
Sv 5-10	Clay	400	SV 8-8	Clay	0
SV1B -10	Clay	300	SV 9-8	Clay	0
SV3B-13	Clay	0.7			
SV1C-13	Clay	0.5			

C. Briefly describe the soil sampling and handling procedures used:

Soil was packed into lab bottles and kept cool until delivery to lab. MPCA and lab protocols were followed.

D. List the appropriate soil sample analytical results below (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table. Code the samples (with sampling depths in parentheses) SS-1 (8'), SS-2 (4'), etc. These should correspond with the codes on the site map in part VI.

Sample Code	THC as gas or FO ppm	Benzene ppm ppb	Ethyl-benzene ppm ppb	Toluene ppm ppb	Xylene ppm ppb	MTBE ppm	Lead ppm
SS-1 (12')	BDL	< 20.0	< 15.0	< 20.0	<15.0		
SS-2 (12')	BDL	< 20.0	<15.0	< 20.0	< 15.0		

NOTE: ATTACH COPIES OF LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS.

VI. FIGURES

Attach the following figures to this report:

1. Site location map
2. Site map(s) drawn to scale illustrating the following:
   a. location (or former location) of all present and former tanks, lines, and dispensers
   b. location of other structures (buildings, canopies, etc.)
   c. adjacent city, township, or county roadways
   d. final extent of excavation
   e. location of soil vapor analyses (e.g. SV-1), soil samples (e.g. SS-1), and soil borings (e.g. SB-1). Also, attach all boring logs.
   f. north arrow and map legend

VII. SUMMARY

Briefly summarize evidence indicating whether or not additional investigation is necessary at the site, as discussed in part VI of the MPCA document "Excavation of Petroleum Contaminated Soil".

Samples of the soil beneath the tank were analyzed and found to be below detectable limits, OVA reading of soil taken from side walls showed readings of < 1 ppm. Ground water was not contacted during the excavation and there were no signs of previous ground water contact. Based on the sample results and site observations, it is our opinoin that no significant ground water contamination has occurred, and there is minimal potential risk of further contamination. Therefore, it is our opinion that no further soil removal or remediation is necessary.

VIII. CONSULTANT (OR OTHER) PREPARING THIS REPORT

Company Name: Institute for Environmental Assessment
Street/Box: 610 North Riverfront Drive
City, Zip: Mankato, Minnesota 56001
Telephone: 507-345-8818
Contact: Jerry Erickson

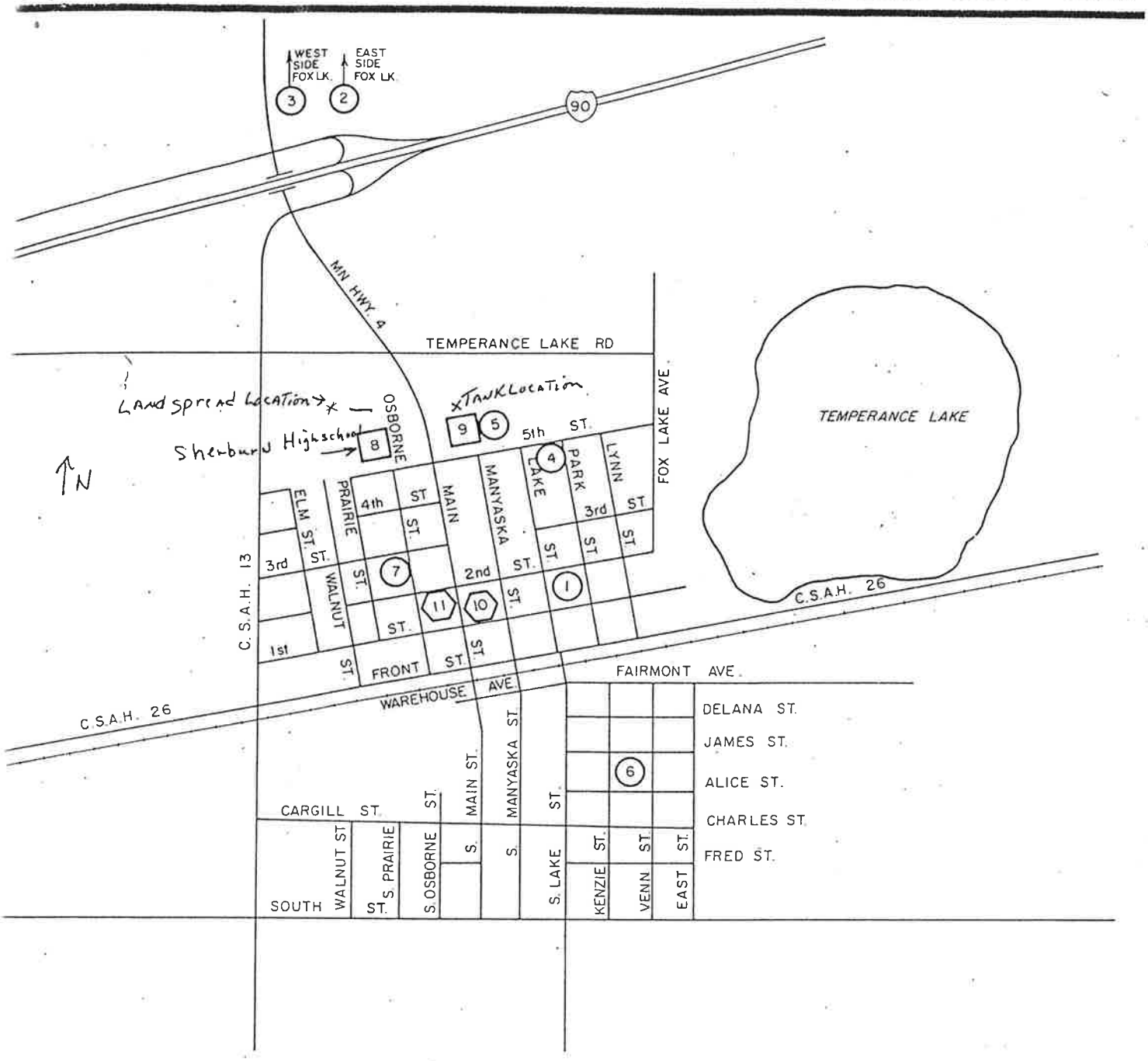
Signature: Jerry Erickson Date: 8-6-90

If additional investigation is not required at the site, please mail this form and all necessary attachments to:

Minnesota Pollution Control Agency
Attention: (Project Manager)
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155

If additional investigation is required at the site, this form should be included as a section in the Remedial Investigation/Corrective Action Design report. Excavation reports which indicate that a remedial investigation (RI) is necessary will not be reviewed by MPCA staff until the RI has been completed.

SHERBURN CITY MAP



RKS & RECREATIONAL

- PARK — BARBEQUE GRILLS, PICNIC AREA, PLAYGROUND, RESTROOMS
- ETT PARK — FISHING, PICNIC AREA, RESTROOMS
- AKE GOLF COURSE — GOLF, PARKING, RESTROOMS
- ILL PARK — BALL DIAMONDS
- E SCHOOL ATHLETIC FACILITIES — BALL DIAMONDS, BASKETBALL, FOOTBALL FIELD, PARKING LOT, RESTROOMS, SWIMMING
- H PARK — BALL DIAMONDS, PICNIC AREA, PLAYGROUND, RESTROOMS
- S COURTS — TENNIS

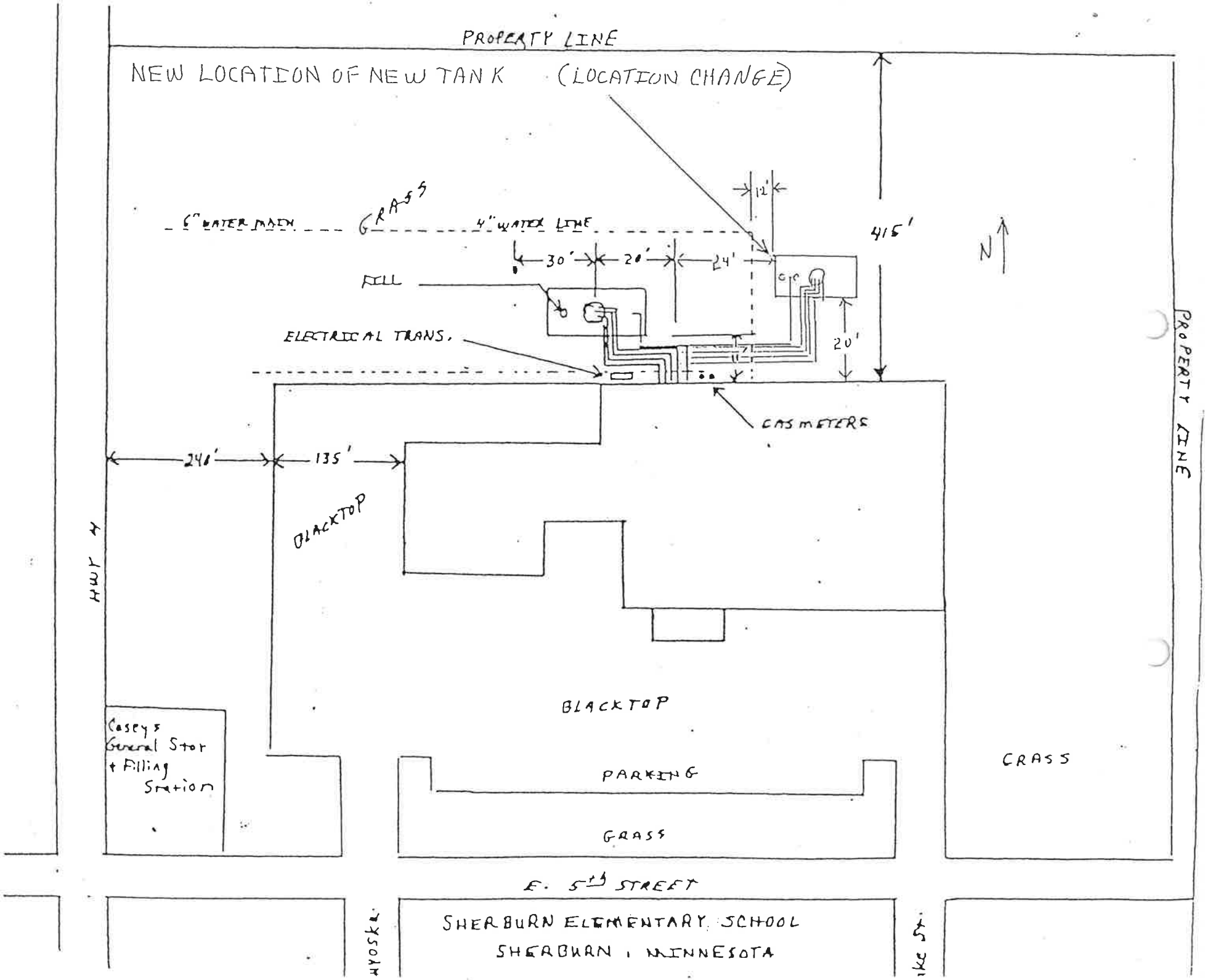
OOLS

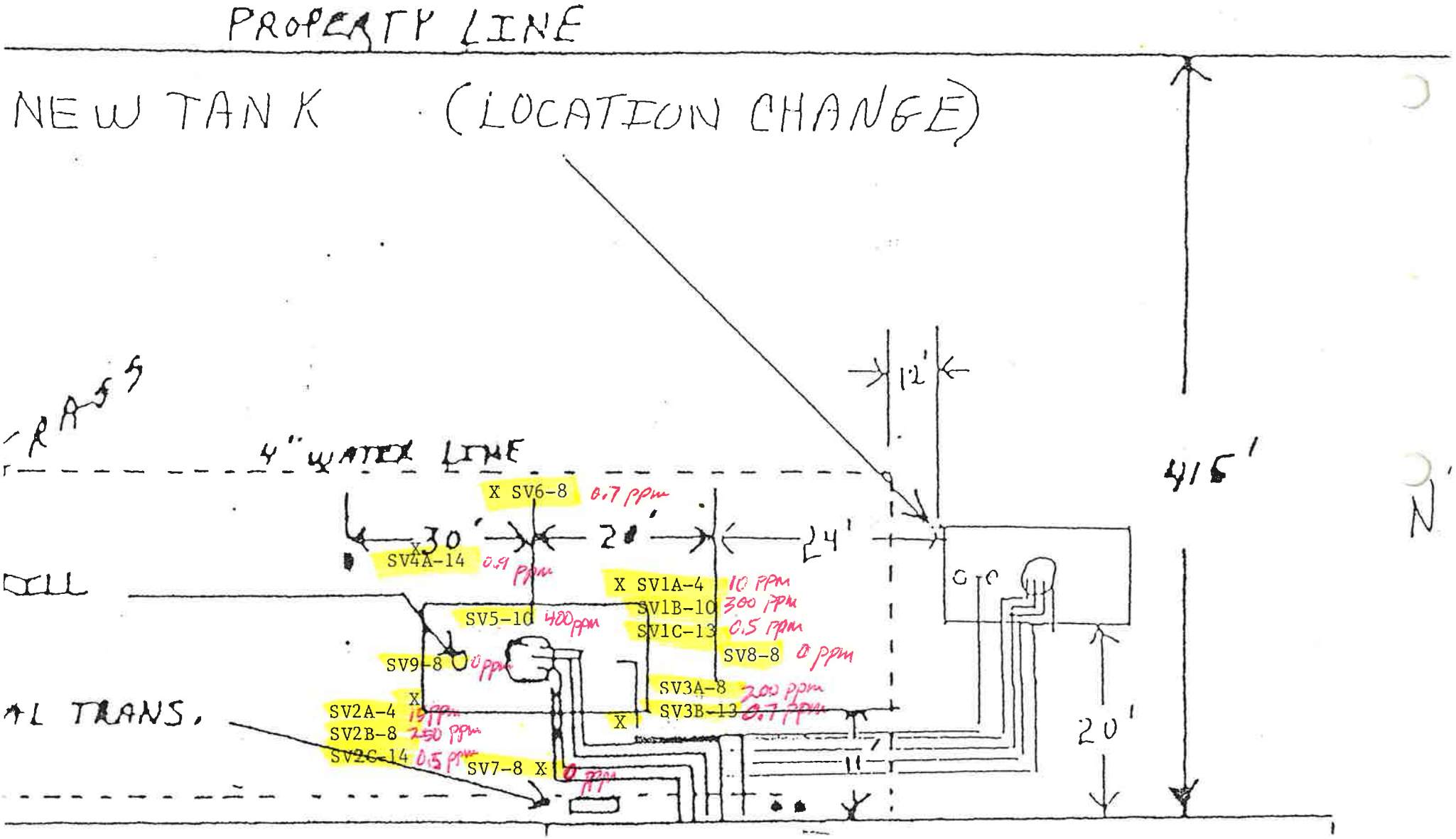
- UNITY EDUCATION — 16 W. 5th ST.
- SCHOOL — 500 E. 5th ST.
- CHOOL DIST. 456 AGRI. DEPT. — 16 W. 5th ST.
- BURN JR/SR HIGH SCHOOL — 16 W. 5th ST.

C **EMERGENCY — DIAL 911**

- BURN CITY HALL — 21 E. 1st ST.
- BURN FIRE DEPARTMENT — 19 E. 1st ST.
- OST OFFICE — 127 N. MAIN

MN


PROPERTY LINE
NEW LOCATION OF NEW TANK (LOCATION CHANGE)
6" WATER MAIN
GRASS
4" WATER LINE
12'
416'
30'
20'
24'
FILL
ELECTRICAL TRANS.
20'
GAS METERS
N
PROPERTY LINE
240'
135'
BLACKTOP
HWY 4
BLACKTOP
Casey's General Store + Filling Station
PARKING
GRASS
GRASS
E. 5TH STREET
SHERBURN ELEMENTARY SCHOOL
SHERBURN, MINNESOTA


PROPERTY LINE
NEW TANK (LOCATION CHANGE)
GRASS
4" WATER LINE
X SV6-8 0.7 ppm
30'
20'
24'
12'
41.6'
N
X SV4A-14 0.9 ppm
X SV1A-4 10 ppm
SV1B-10 300 ppm
SV1C-13 0.5 ppm
SV5-10 400 ppm
SV8-8 0 ppm
SV9-8 0 ppm
SV3A-8 200 ppm
SV3B-13 0.7 ppm
SV2A-4 19 ppm
SV2B-8 250 ppm
SV2C-14 0.5 ppm
SV7-8 X 0 ppm
20'

MVTL LABORATORIES, Inc.
P.O BOX 249
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

Report To: Institute for Environmental Assessment
610 North River Front Drive
Mankato, MN 56073
Attn: Jerry Erickson

Date: July 2, 1990
Work Order: 21-0978
Date Received: 6-21-90

Project: Sherburn Elem, UST

Date Analyzed = 6/29/90

ANALYZED FOR BENZENE, ETHYL BENZENE, TOLUENE, XYLENE & TOTAL HYDROCARBONS:

Sample I.D.	Lab #	Ethyl Benzene /ppb	Benzene /ppb	Toluene /ppb	Xylene /ppb	* Total Hydrocarbons /ppm
4076/0401/01 (Soil)	3014	< 15.0	< 20.0	< 20.0	< 15.0	BDL
4076/0401/02 (Soil)	3015	< 15.0	< 20.0	< 20.0	< 15.0	BDL
4076/0401/03 (Soil)	3016	< 15.0	< 20.0	66.0	70.0	11 As Fuel Oil
4076/0401/04 (Soil)	3017	< 15.0	< 20.0	< 20.0	< 15.0	BDL

BDL - Below Detection Level.

* SOIL - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 2.0 ppm
As Fuel Oil/Diesel - 5.0 ppm

* WATER - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 0.5 ppm
As Fuel Oil/Diesel - 1.0 ppm

Report approved by Wade Pullman,
Chemist
By and for Minnesota Valley Testing labs., Inc.
/SH

PROJECT NUMBER 4076 1401 NAME Sharburn UST TANK 10,000 gal Steel

DETECTOR TYPE OVA - FID TECH C. Lybert / J Erickson DATE 6-20-90

SAMPLE NUMBER	LOCATION	DEPTH	SAMPLE TYPE	SOIL TYPE	ORGANIC VAPORS (ppm)	COMMENTS
1.	Removed Top Soil pile	1-3'	Headspace Clay Dirt		3ppm	over fill?
V1A-4 2.	NE corner	4	Headspace VAPOR	clay	10 ppm	
V2A-4 3.	SW corner	4	"	"	15 ppm	
V2A-8 4.	~~SE~~ NE corner	8'	"	"	200 ppm	
V2B-8 5.	SW corner	8'	"	"	250 ppm	
V5 6.	inlet Tank	10'	"	"	400 ppm	
V1B 10 7.	NE Corner	10'	"	"	800 ppm	
V3B-13 8.	SE corner	~~12~~ 13	"	"	0.7 ppm	
V1C 13 9.	NE Corner	13	"	"	0.2 ppm	
V4A 14 10	NW corner	14	"	"	.9 ppm	
V2C 14 11	SW corner	14	"	"	0.5.	
V6-8 12.	North Sidewall	8	"	"	0.7	
V7-8 13	East Side wall	8	"	"	0	
V8-8 14.	East Side wall	8	"	"	0	
V9-8 15.	West Side wall	8	"	"	0	

GENERAL COMMENTS We were able to dig out clean hole Bottom readings 0.7 and Negative ppm. MPCA allowed to partial fill hole with clean Excavation Soil. = OVA Separated.

APPLICATION TO LAND APPLY PETROLEUM CONTAMINATED SOIL

Don Milless

Minnesota Pollution Control Agency
Tanks and Spills Section
April 25, 1990

Refer to the Minnesota Pollution Control Agency (MPCA) document "Land Application of Petroleum Contaminated Soil: Single Application Sites" for specific information on acceptable soil and site criteria.

I. BACKGROUND INFORMATION

A. Tank owner/operator mailing address: contaminated

Contact: Supt. Randy Grupe
Company name: Sherburn ISD #456
Street/Box: Box 268
City, Zip: Welcome, MN 56181
Telephone: 507-728-8276

B. Site from which soil originated:

Company name: Sherburn Elementary Sch
Street: Sherburn ISD #456
City, Zip: East Fifth Street
County: Sherburn, MN 56171

C. Address or legal descripton of land spreading site:

Contact: Supt. Randy Grupe
Street: Sherburn High School
City, Zip: 16 West Fifth Street
Telephone: Sherburn, MN 56171
507-764-4671
SW 1/4 of SW 1/4 of Section 6,
Township 102N, Range 32W Township Name Manyaska

D. Consultant (or other) preparing this form:

Contact: Jerry Erickson
Company name: IEA
Street/Box: 610 N. Riverfront Dr.
City, Zip: Mankato, MN 56001
Telephone: 507-345-8818

E. MPCA Site ID#: LEAK0000 2626
F. Volume of soil to be land applied (cubic yards): 100 cu. yds.
G. Projected date of application of soil: July 11, 1990
H. Have there been past waste disposal activities at the proposed site?
No X Yes ___ , please explain.

II. SITE AND SOIL CHARACTERISTICS

A. Site slope (percent): 0
B. Distance to surface water (feet or miles): 3/4 mile
C. Distance to nearest building or residence (feet): 1000 ft. - High School
D. Depth to seasonal high water table (feet): 10 ft.
Depth to field tile lines (feet): NONE
If bedrock exists at 8 feet or less, indicate depth (feet): N/A
E. Area of land to be used (square feet or acres): 1/4 acre
F. Spreading thickness (inches): 3"

III. SOIL SAMPLING RESULTS

A. If soil nutrient tests were conducted, list the results below: NONE

Sample Number	Organic Matter, Percent	Extractable Phosphorus, ppm

If fertilizers will be applied, provide application rates:
_____ lbs. nitrogen/acre, _____ lbs. P205/acre, _____ lbs. sulfur/acre

B. Circle the type(s) of petroleum contamination: unleaded gas, regular gas, diesel fuel, No. 2 fuel oil, waste oil, other (please specify _____.

List the appropriate soil sample analytical results from the excavated contaminated soil (refer to the MPCA document "Soil and Ground Water Analysis at Petroleum Release Sites"). If the petroleum was not gasoline or fuel oil attach a separate table.

SEE ATTACHED LAB RESULTS

Sample Number	THC as gas or FO ppm	Benzene ppm	Ethyl-benzene ppm	Toluene ppm	Xylene ppm	MTBE ppm	Lead ppm
4076/0401 1	BDL						
2	BDL						
3	11 as fuel oil			66 ppb	70 ppb		
4	BDL						

NOTE: ATTACH COPIES OF LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS

IV. FIGURES

Include the following figures:

A. Copy of county soil survey map (if the county has been mapped) with copies of the interpretation tables or interpretation sheets.
B. Site location map with exact application location marked (scale should be approximately one inch = 50 feet)

****

Signature and Title of MPCA Staff Inspector (or other authorized inspector):

Diane Thorn PCS Date Inspected : 7-27-90

Signature and Title of County Official: See Attached Note : Phone Call from PamShack

Signature and Title of City/Township Official: Wayne L Weber - Mayor
See File memo-DRM dated 7/9/90
Sherburn City Mayor

****

Mail to:

Minnesota Pollution Control Agency
Attention: (Project Manager)
Hazardous Waste Division
Tanks and Spills Section
520 Lafayette Road
St. Paul, Minnesota 55155

MVTL LABORATORIES, Inc.
P.O BOX 249
NEW ULM, MN 56073-0249
PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

Report To: Institute for Environmental Assessment
610 North River Front Drive
Mankato, MN 56073
Attn: Jerry Erickson

Date: July 2, 1990
Work Order: 21-0978
Date Received: 6-21-90

Project: Sherburn Elem, UST

Date Analyzed = 6/29/90

ANALYZED FOR BENZENE, ETHYL BENZENE, TOLUENE, XYLENE & TOTAL HYDROCARBONS:

Sample I.D.	Lab #	Ethyl Benzene /ppb	Benzene /ppb	Toluene /ppb	Xylene /ppb	* Total Hydrocarbons /ppm
4076/0401/01 (Soil)	3014	< 15.0	< 20.0	< 20.0	< 15.0	BDL
4076/0401/02 (Soil)	3015	< 15.0	< 20.0	< 20.0	< 15.0	BDL
4076/0401/03 (Soil)	3016	< 15.0	< 20.0	66.0	70.0	11 As Fuel Oil
4076/0401/04 (Soil)	3017	< 15.0	< 20.0	< 20.0	< 15.0	BDL

BDL - Below Detection Level.

* SOIL - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 2.0 ppm
As Fuel Oil/Diesel - 5.0 ppm

* WATER - Total Hydrocarbons Minimum Detection Limits

As Gasoline - 0.5 ppm
As Fuel Oil/Diesel - 1.0 ppm

Report approved by Wade Pullman,
Chemist
By and for Minnesota Valley Testing labs., Inc.
/SH

21-0978

MVTL

MINNESOTA VALLEY TESTING LABORATORIES, Inc.

PHONE (507) 354-8517
MN WATS (800) 782-3557

CENTER & GERMAN STREETS, NEW ULM, MINNESOTA 56073

CHAIN OF CUSTODY RECORD

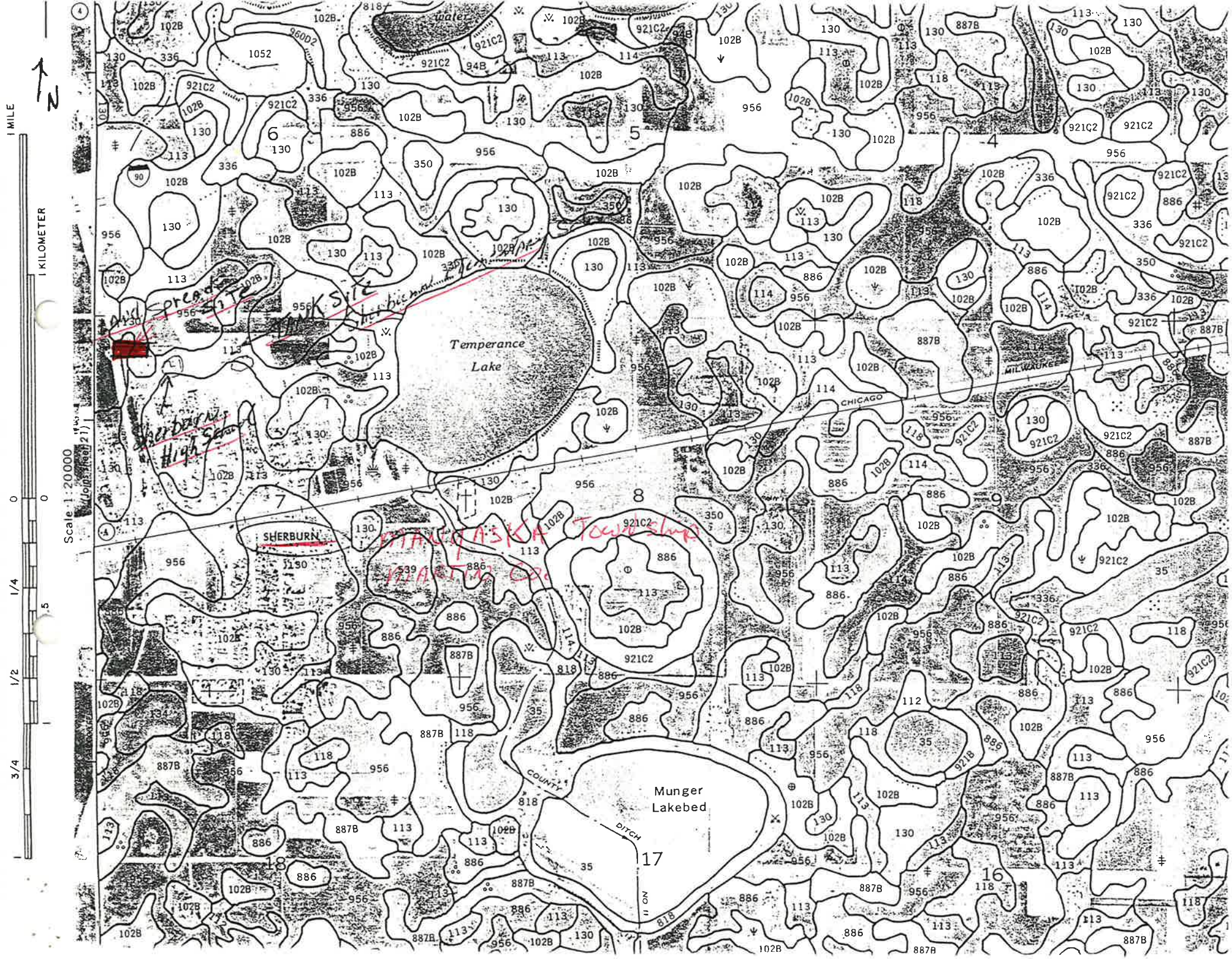
Project Name	Name of Sampler	Representing
Sherburn Elem. UST	Jerry Erickson	IEA

	Field Number	Date	Time	Sample Type(s): monitoring well	existing well	surface water	wastewater	waste	other	Sample Location	Analyses Requested	Comments on Samples
2314	4076/0401/01	6-20	3 pm						X		BETX	TANK BOTTOM #1 CALL
2315	4076/0401/02	6-20	3 pm						X		BETX	TANK BOTTOM #2 CALL
2316	4076/0401/03	6-20	4 pm						X	Hold until other Complete	BETX	CONTAMINATED PILE - SOUTH.
2317	4076/0401/04	6-20	4pm						X	Hold until other Complete	BETX	CONTAMINATED PILE NORTH

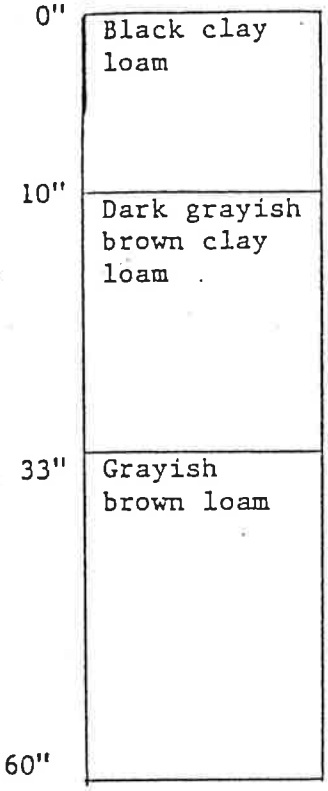
Remarks on Site

Samples Relinquished by	Samples Received by	Comments	Date/Time
Jerry Erickson	Shelby Heim 6/21/90		
Samples Relinquished by	Samples Received by	Comments	Date/Time
Samples Relinquished by	Samples Received by	Comments	Date/Time
Means of Delivery		Seals intact: ☐ YES ☐ NO ☐ N.A.	

25271


Temperance Lake
Munger Lakebed
SHERBURN
CHICAGO
MILWAUKEE
COUNTY
DITCH
Scale 1:20000
1 MILE
1 KILOMETER
N

Nicollet (130)



Nicollet is a somewhat poorly to moderately well drained, neutral soil formed in friable loamy glacial till. It occupies slight rises and nearly level areas on glacial moraines, It has 9 to 12 inches available water capacity, 4 to 10 percent organic matter, moderate permeability, and the runoff is slow to medium.

The problem associated with this soil is wetness in the lower lying areas.

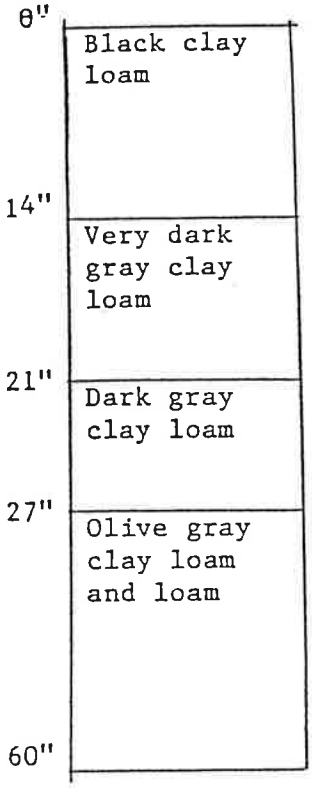
*Average Crop Yields - High Level Management

	Capability	Corn	Soybeans	Oats	Wheat	Legumes
Northern Range 130	1	130 bu/ac	42 bu/ac	90 bu/ac	45 bu/ac	5.0 ton/ac
Southern Range 130	1	160 bu/ac	45 bu/ac	95 bu/ac	-	5.4 ton/ac

*Yields Subject to Change

USDA-SCS-Area 6
1986

Webster (113)



Webster is poorly drained, neutral soil formed in friable loamy glacial till. It occupies broad flats and drainageways on glacial moraines. It has 10 to 12 inches available water capacity, 4 to 8 percent organic matter, moderate permeability, and the runoff is slow.

The major problem associated with this soil is wetness.

*Average Crop Yields - High Level Management

	Corn	Soybeans	Oats	Wheat	Legume
Northern Range	120 bu/ac	42 bu/ac	80 bu/ac	40 bu/ac	4.2 ton/ac
Southern Range	155 bu/ac	44 bu/ac	90 bu/ac	-	4.5 ton/ac

Capability Subclass 2W

*Yields Subject to Change

USDA-SCS-Area 6
1986

and the poorly drained Delft and Webster soils. The included soils are on the lower parts of the landscape. They make up about 35 percent of the map unit.

Permeability is moderate in the Clarion and Storden soils, and the available water capacity is high. Organic matter content is low in the Storden soil and moderate in the Clarion soil. Natural fertility is low in the Storden soil and high in the Clarion soil. Surface runoff is medium or rapid on both soils. The surface layer of the Clarion soil is medium acid to neutral. The Storden soil is mildly alkaline or moderately alkaline throughout.

Most areas are used as cropland. These soils are fairly well suited to the crops commonly grown in the county. If cultivated crops are grown, erosion is a hazard. It has reduced the productivity of the soils. Unless it is controlled, it can further reduce productivity. Measures that improve the fertility of the Storden soil are needed. Contour farming, a system of conservation tillage that leaves crop residue on the surface, and terraces slow runoff, increase the rate of water infiltration and the moisture supply, and help to control erosion. Returning crop residue to the soil and adding manure improve fertility.

These soils are well suited to pasture. A cover of pasture plants or hay is effective in controlling erosion. Restricted use during dry periods helps to keep the pasture in good condition.

These soils are fairly well suited to field and farmstead windbreaks. The trees and shrubs selected for planting should be those that are suited to dry sites and that can tolerate the high content of lime in the Storden soil. Seedlings survive and grow best if weeds are controlled by applications of herbicide or by cultivation.

The land capability classification is IIIe.

956—Canisteo-Glencoe clay loams. These nearly level soils are on slightly convex to concave lowlands on till plains and glacial moraines. The very poorly drained Glencoe soil is in depressions. It is frequently ponded for brief or long periods in spring and after heavy or prolonged rainfall. The poorly drained Canisteo soil is in the convex and nearly plane areas surrounding the depressions. Individual areas are irregular in shape and range from 20 to several hundred acres in size. They are about 60 percent Canisteo soil and 30 percent Glencoe soil. The two soils occur as areas so intricately mixed or so small that mapping them separately was not practical.

Typically, the Canisteo soil has a surface layer of black clay loam about 11 inches thick. The subsurface layer is very dark gray and dark grayish brown clay loam about 11 inches thick. The subsoil is olive gray, mottled clay loam about 6 inches thick. The underlying material to a depth of about 60 inches is mottled light olive gray and light gray loam. The soil is calcareous throughout. In some areas it has sandy or silty sediments. In a few places gypsum crystals are at or near the surface.

Typically, the Glencoe soil has a surface layer of black clay loam about 10 inches thick. The subsurface layer is black and very dark gray, mottled clay loam about 16 inches thick. The subsoil is dark gray and grayish brown, mottled clay loam about 12 inches thick. The underlying material to a depth of about 60 inches is grayish brown, mottled, calcareous loam. In some areas the surface soil and subsoil have more clay and less sand. In other areas sandy sediments are in the underlying material.

Included with these soils in mapping are small areas of the poorly drained Webster soils and the moderately well drained or somewhat poorly drained Nicollet and Crippin soils. The included soils are on slight rises or in drainageways. They make up about 10 percent of the map unit.

Permeability is moderate in the Canisteo soil and moderate or moderately slow in the Glencoe soil. The available water capacity is high in both soils. Natural fertility is medium in the Canisteo soil and high in the Glencoe soil. Organic matter content is high in both soils. Surface runoff is slow to ponded. A seasonal high water table is 1 to 3 feet below the surface of the Canisteo soil and 1 foot above to 3 feet below the surface of the Glencoe soil. The surface layer of the Glencoe soil is slightly acid to mildly alkaline. The Canisteo soil is mildly alkaline or moderately alkaline throughout.

Most areas are used as cropland. If drained, these soils are fairly well suited to the crops commonly grown in the county. Tile drains lower the water table in both soils and remove surface water from the Glencoe soil. Soybeans often exhibit iron chlorosis, or "yellowing," on the rims of the depressions. A good fertility program is needed because the high content of lime in the Canisteo soil restricts the uptake of phosphorus and iron. If it is worked when dry, this soil becomes powdery and thus more susceptible to soil blowing. Tilling during wet periods results in compaction and poor tilth. A system of conservation tillage that leaves crop residue on the surface reduces the hazard of soil blowing and helps to prevent compaction and deterioration of tilth.

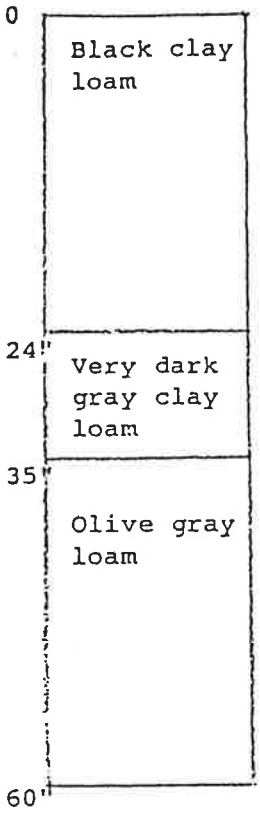
These soils are well suited to pasture. A cover of pasture plants or hay is effective in controlling soil blowing. Restricted use during wet periods helps to keep the pasture in good condition.

These soils are fairly well suited to field and farmstead windbreaks, which help to control soil blowing. The trees and shrubs selected for planting should be those that can withstand the wetness of both soils and the high content of lime in the Canisteo soil. Seedlings survive and grow best if weeds are controlled by applications of herbicide or by cultivation.

The land capability classification is IIIw.

960D2—Storden-Clarion loams, 12 to 18 percent slopes, eroded. These hilly, well drained soils are in convex areas on glacial moraines and till plains. The

Glencoe (114)



Glencoe is a very poorly drained, neutral soil formed in friable loamy glacial colluvium. It occupies depressions and low gradient drainageways on glacial moraines. It has 10 to 13 inches available water capacity, 8 to 20 percent organic matter, moderate permeability, and the runoff is slow to ponded.

The major problems associated with this soil are wetness, frost and ponding.

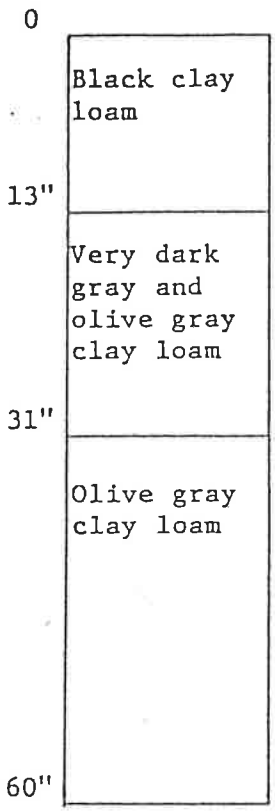
*Average Crop Yield - High Level Management

Northern Range	Capability	Corn	Soybeans	Oats	Wheat	Legumes
	3w	95 bu/ac	36 bu/ac	80 bu/ac	38 bu/ac	3.5 tons/ac
Southern Range						
	3w	135 bu/ac	37 bu/ac	80 bu/ac	--	3.5 tons/ac

*Yields subject to change

USDA-SCS-Area 6
November 1986

Canisteo (86)



Canisteo is a poorly drained, calcareous soil formed in friable loamy glacial till. It occupies calcareous flats or rims on glacial moraines. It has 9 to 11 inches available moisture, 4 to 8 percent organic matter, moderate permeability, and the runoff is slow.

The major problems associated with this soil are wetness and pH.

*Average Crop Yields - High Level Management

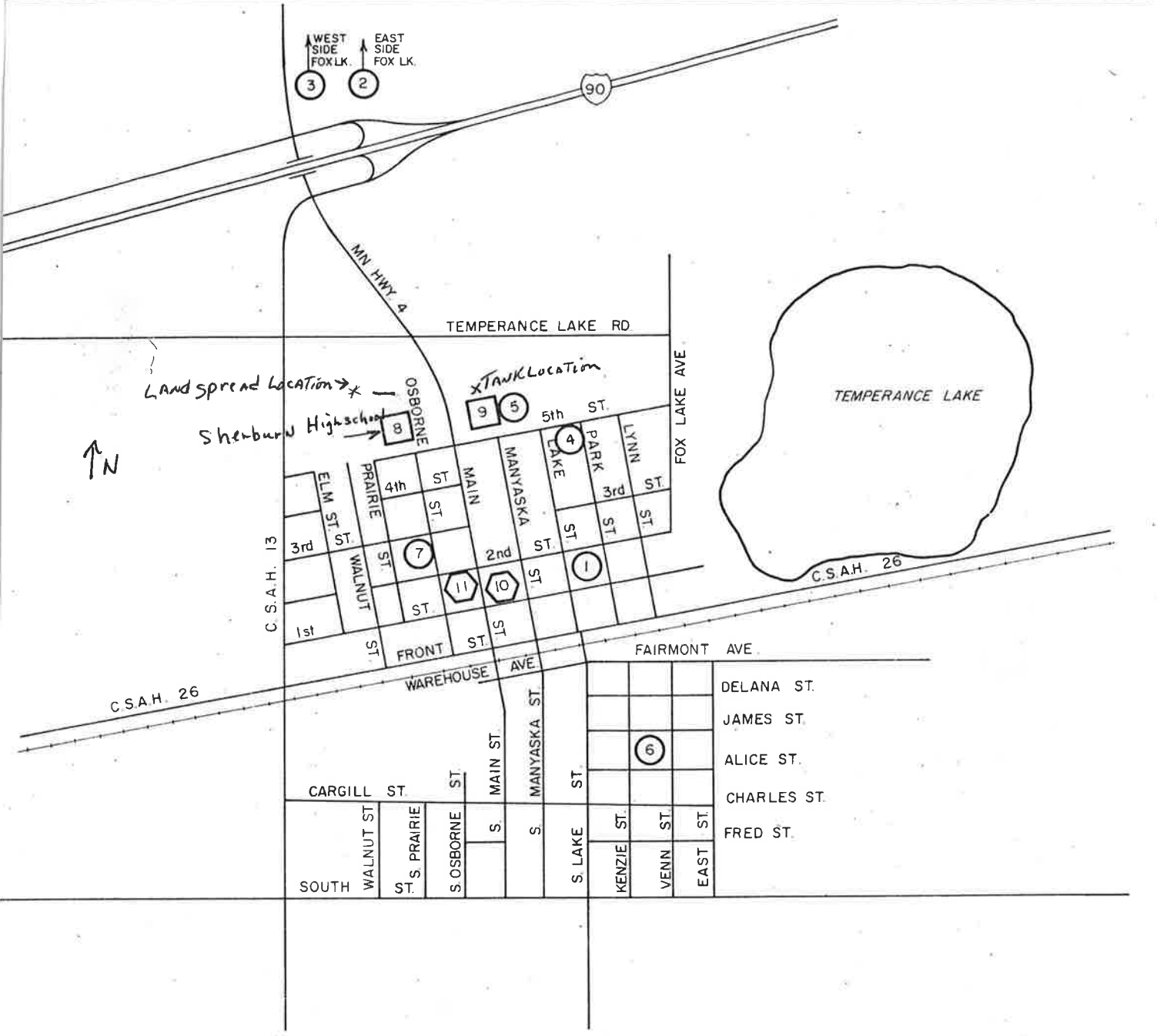
	Corn	Soybeans	Oats	Wheat	Legumes
Northern Range	115 bu./ac.	36 bu./ac.	80 bu./ac.	40 bu./ac.	4.5 ton/ac.
Southern Range	165 bu./ac.	42 bu./ac.	90 bu./ac.	--	4.5 ton/ac.

Capability subclass 2w

*Yields subject to change

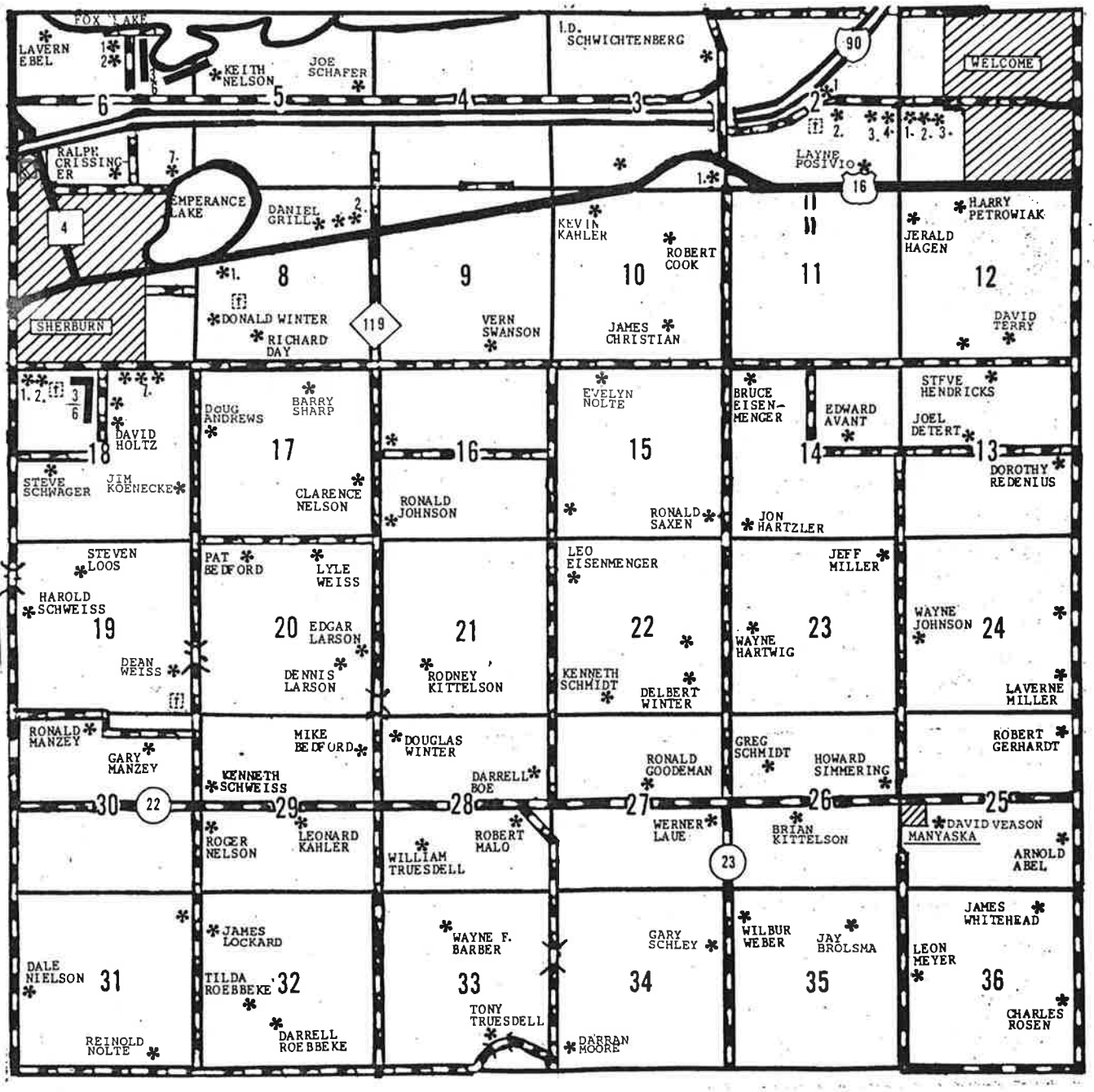
USDA-SCS-Area 6
1986

SHERBURN CITY MAP

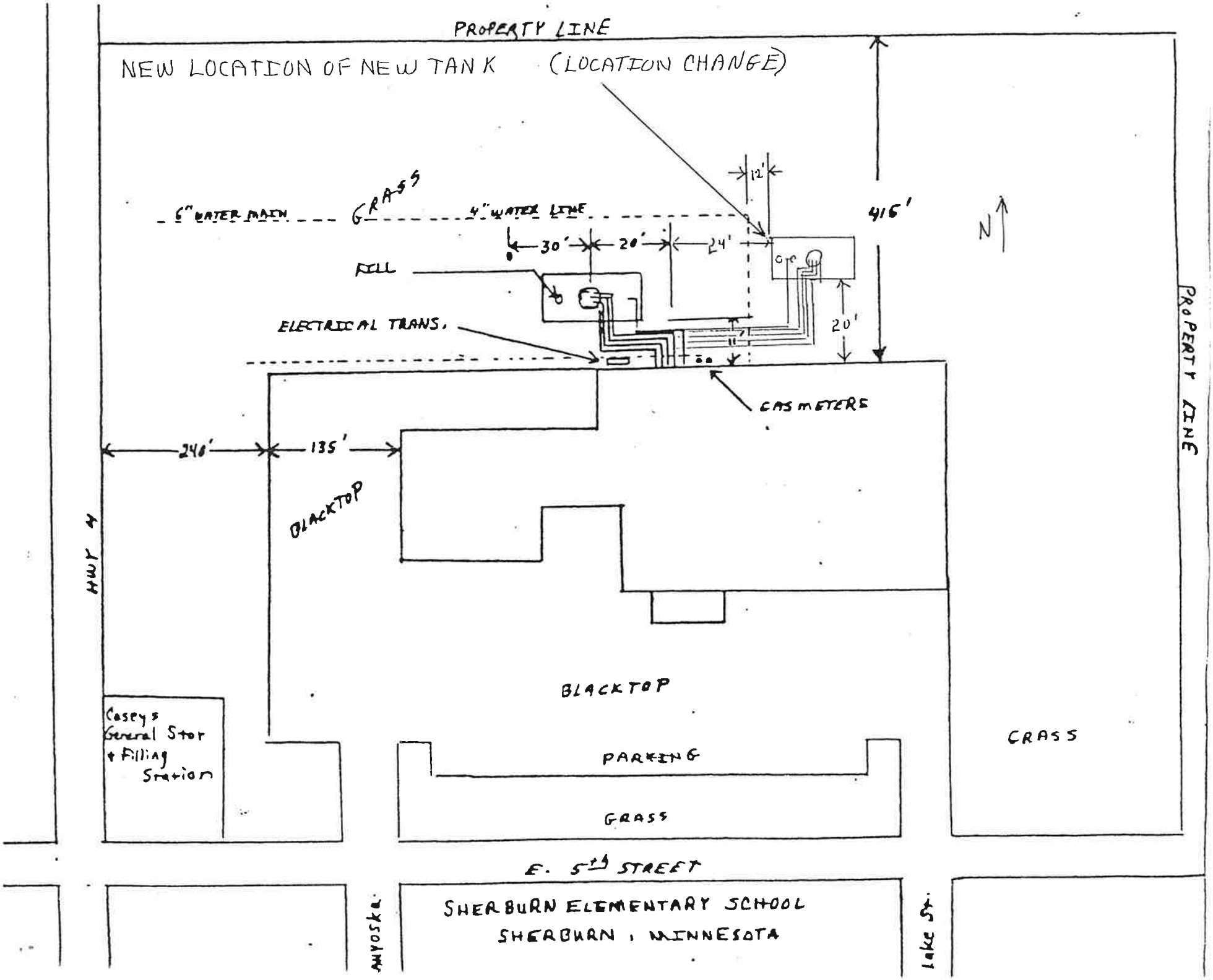


PARKS & RECREATIONAL
CITY PARK — BARBEQUE GRILLS, PICNIC AREA, PLAYGROUND, RESTROOMS
EVERETT PARK — FISHING, PICNIC AREA, RESTROOMS
FOX LAKE GOLF COURSE — GOLF, PARKING, RESTROOMS
GEMMILL PARK — BALL DIAMONDS
GRADE SCHOOL ATHLETIC FACILITIES — BALL DIAMONDS, BASKETBALL, FOOTBALL FIELD, PARKING LOT, RESTROOMS, SWIMMING
SOUTH PARK — BALL DIAMONDS, PICNIC AREA, PLAYGROUND, RESTROOMS
TENNIS COURTS — TENNIS
SCHOOLS
COMMUNITY EDUCATION — 16 W. 5th ST.
GRADE SCHOOL — 500 E. 5th ST.
IND. SCHOOL DIST. 456 AGRI. DEPT. — 16 W. 5th ST.
SHERBURN JR/SR HIGH SCHOOL — 16 W. 5th ST.
CIVIC **EMERGENCY — DIAL 911**
SHERBURN CITY HALL — 21 E. 1st ST.
SHERBURN FIRE DEPARTMENT — 19 E. 1st ST.
U.S. POST OFFICE — 127 N. MAIN

T-102-N MANYASKA DIRECTORY R-32-W



See Page 21 For Additional Names.


PROPERTY LINE
NEW LOCATION OF NEW TANK (LOCATION CHANGE)
12'
416'
N
6" WATER MAIN
GRASS
4" WATER LINE
30'
20'
24'
FILL
ELECTRICAL TRANS.
20'
GAS METERS
PROPERTY LINE
240'
135'
HWY 4
BLACKTOP
BLACKTOP
Casey's General Store & Filling Station
PARKING
GRASS
GRASS
E. 5th STREET
SHERBURN ELEMENTARY SCHOOL
SHERBURN, MINNESOTA
Winnebago
Lake St.

From: MNPCA::ROCHESTER 7-AUG-1990 14:03:02.94
To: MILLESS_D
CC:
Subj: Land Spreading

Don,

The proposed land spreading site at the Sherburn High School (leak # 2626) has been inspected by Diane Storm of the Roch. PCA staff. She visited the site on 7/29/90 and reported to me that the information on the application is correct and that all of the site characteristics meet those in our guideline packet which coincides with the "Application to Land Apply Petro Contaminated Soil". Please call if you've any questions concerning the inspection and approval of this site.

Julie Magers
8/7/90

M[illegible]ESOTA POLLUTION CONTROL AGENCY

Route to:

(1) File 2626
(2) _____
(3) _____
(4) _____

OFFICE MEMORANDUM

Location: Sherburn Elementary School (City, Village, Township, Section, Range, County, etc.) File: 2626 Martin County

Subject: Phone call from Pam Schock (Martin County)

By Whom: Donald Miller Date: 7/9/90

Office ___
Investigation ___ Conference Field ___ Hearing ___ Meeting ___ Phone X

Items to be Covered: (1) Those present and/or those interviewed
(2) Situation
(3) Further action, follow-up, recommendations

(1) Pam Schock, Martin Co. Zoning Administrator, 507/238-3242

(2) Pam received phone call from Jerry Erickson (IEA) 426-2467 regarding thin-spreading of petroleum contaminated soil from Sherburn Elementary.

(3) I explained the procedure for approval to thinspread site; and that County and local approval are needed.

Pam stated this phone conversation is the county's acknowledgement of their notification.