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MPCA, HAZARDOUS
WASTE DIVISION

UST EXCAVATION REPORT

WOLVERTON FARMERS ELEVATOR

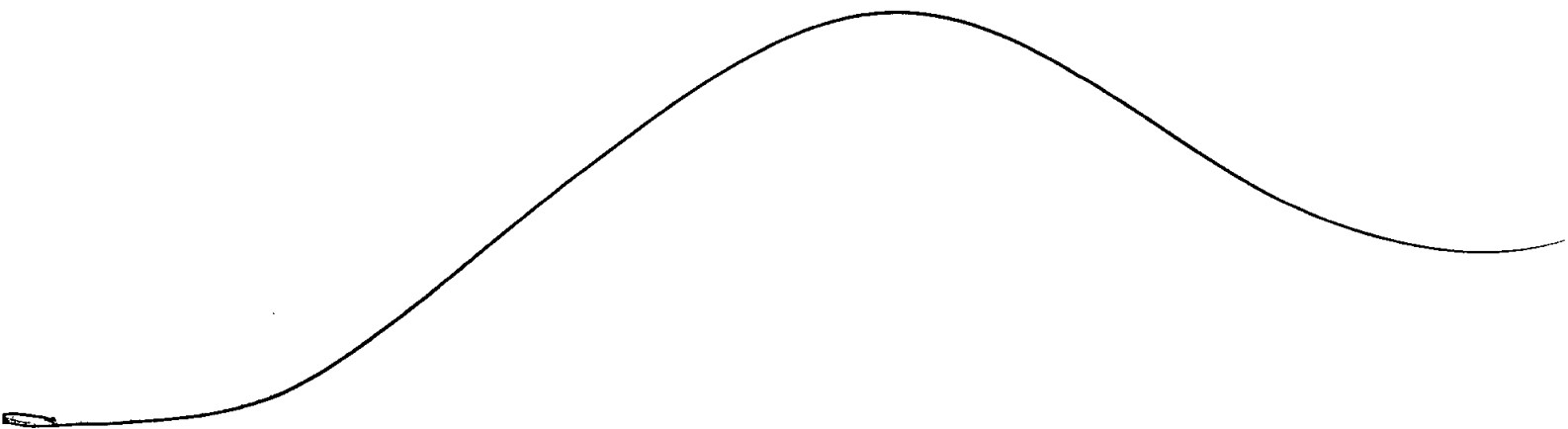
MPCA # LEAK00003517

WOLVERTON, MINNESOTA

PREPARED FOR:

Wolverton Farmers Elevator
Highway 75 P.O Box 69
Wolverton, MN

January 21, 1991



Box 2706
1301 40th Street NW
Fargo, North Dakota 58108
701/277-1612

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: Wolverton Farmers Elevator

Street: Hwy. 75 P.O Box 69
City, Zip: Wolverton 56594
County: Wilken

MPCA Site ID#: LEAK0000 3517

B: Tank Owner/Operator:

Wolverton Farmers Elevator
Mailing Address: P.O Box 69

Street/Box:

City, Zip: Wolverton 56594
Telephone: 218-995-2565

C. Excavating Contractor:

O'Day Equipment, Inc.
Contact: Jim Martin
Telephone: 701-282-9260
Tank Contractor Certification
Number: 0023

D: Consultant:

Great Plains Environmental
Contact: Terry Kraft
Street/Box: 1301 40th St. NW
City, Zip: Fargo, ND 58102
Telephone: 701-277-1612

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

None

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: 11-12-90

B. Dates site work performed:

Work Performed	Date
<u>UST removal and contaminated soil excavation</u>	<u>11-12-90</u>
<u>PID Field Screening</u>	<u>11-12-90</u>
<u>BTEX-TPH lab samples collected</u>	<u>11-12-90</u>
<u>New UST's installed</u>	<u>11-12 and 11-13, 90</u>

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III. RELEASE INFORMATION

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

Tank 1: Capacity 560 gallon Type Steel Age unknown

Condition: Good to fair condition, small amount of pitting on lower 1/2 of UST, no visible holes or signs of release.

Product history:

Unleaded gasoline

Approximate quantity of petroleum released, if known:

No release associated with this UST.

Cause of release:

Tank 2: Capacity 560 gallon Type Steel Age unknown

Condition: Bad shape, large amount of surface pitting, one (1) hole approximately 1/4" diameter located on bottom, west end.

Product history:

Diesel Fuel and Gasoline.

Approximate quantity of petroleum released, if known:

Unknown

Cause of release: Overfilling and 1/4" hole in UST.

Tank 3: Capacity _____ Type _____ Age _____

Condition: _____

Product history:

Approximate quantity of petroleum released, if known:

Cause of release:

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B. Provide the following information for all existing tanks.

Tank No.	Capacity	Contents	Type	Age
<u>001</u>	<u>1000 gallons</u>	<u>Unleaded Gas</u>	<u>Double wall</u>	<u>11/13/90</u>
<u>002</u>	<u>1000 gallons</u>	<u>Regular Gas</u>	<u>Double wall</u>	<u>11/13/90</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

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

No release was associated with the lines or dispensers (pumps).

The system used steel product pipe with no cathodic protection and suction pumps to deliver the petroleum product.

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

The UST's did not have overfill and spill protection installed.

Visible staining was observed around the fill pipe of the UST that contained diesel fuel.

IV. EXCAVATION

A. Dimensions of excavation: 16' x 10' x 10' Depth

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

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

D. Quantity of contaminated soil removed (cubic yards): 84

E. Was ground water encountered or was there evidence of a seasonally high ground water table? At what depth?

No ground water was encountered during tank removal.

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.

No soil borings were conducted.

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- 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 ground water was encountered during tank removal or soil excavation. There was no free petroleum product observed in the tank basin.

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

No bedrock was encountered.

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

A sanitary sewer pipe located 3 feet south of the UST was discovered during UST removal. The sewer pipe was tested with a Neotronics Exotox Model 40 explosion monitor for LEL, which was below 5%. No impacts to the sewer were identified.

V. SAMPLING

- A. Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil:

The MPCA Jar Headspace Procedures were used during field screening (Appendix A) An H-NU HW-101 photoionization detector, equipped with a 10.2 eV lamp was used to screen soils during tank removal and excavation.

- 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
SS1A(2')	Sand-Gravel	11	SS4A(4')	Sand	45
SS1B(5')	Clay Silty	9	SS4B(9')	Clay Lean	28
SS1C(10')	Clay Lean (stiff)	6	SS5A(10')	Clay (stiff)	8
SS2A(7')	Sand	380	SS6A(10')	Clay (stiff)	5
SS2B(10')	Clay (stiff)	7	SS7A(4')	Clay Silty	7
SS3A(3')	Clay Silty	10	SS7B(8')	Clay Lean	4
SS3B(7')	Clay Lean	8	SS8A(2')	Sand-Gravel	9
SS3C(11')	Clay (stiff)	12	SS8B(10')	Clay (stiff)	3

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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.

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

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

V. SAMPLING

A. Briefly describe the field methods (including use of a photoionization detector) used to distinguish contaminated from uncontaminated soil:

- CONTINUED -

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
SS9A(3')	Clay Silty	230			
SS9B(6')	Clay Lean	140			
SS9C(9')	Clay (stiff)	28			
SS9D(10')	Clay (stiff)	7			
SS10A(3')	Sand	400			
SS10B(7')	Sand-Gravel	360			
SS11A(4')	Sand	20			
SS11B(8')	Clay Lean	14			

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

Soil samples were collected for BTEX-TPH lab analysis, the procedures for sampling volatile organics was supplied by Minnesota Valley Testing Laboratory, Inc. (see Appendix B). The soil samples were collected in clean vials provided by MVTL, two vials per sample. The vials were labeled, dated and identified according to site location. A chain of custody and site plot plan were developed for the project. The soil samples were shipped in a cooler (on ice), along with the chain of custody, to MVTL, New Ulm, MN.

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(10')	BDL	20	15	20	15		
SS#2(8')	BDL	20	15	20	15		
SS#3(6')	12.2-Gas 27.3-FO	1380	395	30	257		
SS#4(7')	BDL	20	15	20	15		
SS#5(7')	BDL	20	15	20	15		

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

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

- CONTINUED -

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-	Ethyl- benzene -ppm-	Toluene -ppm-	Xylene -ppm-	MTBE ppm	Lead ppm
SS#6	2320-Gas 6410-FO	10000	7500	16800	72700		
SS#7(9')	BDL	20	15	20	15		

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:
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 - 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

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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".

Two 560 gallon UST's were removed and replaced with double wall UST's and new fiber-glass product pipe. The existing UST's were located in two separate tank basins, tank basin #1 was clean, tank basin #2 was contaminated from diesel fuel and gasoline.

Tank basin #2 was remediated through total excavation. The tank basin was excavated to MPCA action levels of 10 ppm or less. PID field screening was conducted during contaminated soil excavation and soil lab samples were obtained during and after the excavation was complete. No ground water was encountered in the tank basin during excavation. The sanitary sewer located south of the UST was not impacted from the UST release. Approximately 84 cubic yards of contaminated soil was excavated and stockpiled on plastic and covered. The contaminated soil was stockpiled on Wolverton Farmers Elevator property. The soil will be land applied in the spring of 1991, in accordance with MPCA procedures.

GPE recommends no further site investigation is necessary at this site. This recommendation is based on PID field screening, BTEX-TPH lab results, no ground water encountered in tank basin and field observation.

Note: Lab results from SS3(6') indicate a small amount of contamination is under the building. The low levels for TPH-Gas and TPH-FO would not be cost effective to remediate the existing soil contamination under the building.

VIII. CONSULTANT (OR OTHER) PREPARING THIS REPORT

Company Name: Great Plains Environmental
Street/Box: 1301 40th St. NW
City, Zip: Fargo, ND 58102
Telephone: 701-277-1612
Contact: Terry Knaft

Signature: Terry Knaft

Date: 1-21-91

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.



Notification for Underground Storage Tanks

Minnesota Pollution Control Agency
Hazardous Waste Division Tanks and Spills Section
520 Lafayette Road North St. Paul, MN 55155

for office use:

ID#

LK#

PQ-00410-03 (8/90)

A. Name of Tank Site

WOLVERTON FARMERS ELEVATOR

Tank Site Address

HWY 175, P.O. BOX 69

City

WOLVERTON

Zip Code

56594

Phone

(218) 995-2565

County

WILKIN

Fire Marshal Permit #

90612

B. Name of Owner

WOLVERTON FARMERS ELEVATOR

Mailing Address

BOX 69

City

WOLVERTON

State

MN

Zip Code

56594

Phone

(218) 995-2565

Questions?

Call

(612) 643-3413

or Toll-free

1-800-652-9747

during normal

business hours

C. Tank number

Type or use ink and complete as best as possible. Please photocopy form if site has more than 3 tanks.

1. Assign a 3 digit number to each tank (eg. 001, 002...)

001 002

2. Installation date:

7 7

mo/da/yr mo/da/yr mo/da/yr

3. Is tank currently used?

yes no yes no yes no

2. Type of Tank:

STIP3

Fiberglass

Composite

Asphalt coated steel

Painted steel

Bare steel

Concrete

Other (specify in Box K)

	1	2	3
STIP3	☐	☐	☐
Fiberglass	☐	☐	☐
Composite	☐	☐	☐
Asphalt coated steel	☐	☐	☐
Painted steel	☐	☐	☐
Bare steel	☒	☒	☐
Concrete	☐	☐	☐
Other (specify in Box K)	☐	☐	☐

D. Tank Action

1. Please check applicable box(es).

	1	2	3
Initial notification	☐	☐	☐
Add new tank(s) to site	☐	☐	☐
Change in tank owner	☐	☐	☐
Change tank contents	☐	☐	☐
Repair tank	☐	☐	☐
(please explain in Box K)			
Remove tank	☒	☒	☐
Close tank in place	☐	☐	☐
Temporary closure	☐	☐	☐

(product in tank,
in # of gallons):

2. Please write date of above action:

3. Capacity: (# of gal)

560 560

4. Substance Currently or Last Stored:

Regular gasoline

Unleaded gasoline

Diesel

Used (waste) oil

Fuel (heating) oil

Kerosene

Hazardous substance

(specify chemical and tank # in Box K, on back)

Other (specify in Box K)

	1	2	3
Regular gasoline	☐	☐	☐
Unleaded gasoline	☒	☐	☐
Diesel	☐	☒	☐
Used (waste) oil	☐	☐	☐
Fuel (heating) oil	☐	☐	☐
Kerosene	☐	☐	☐
Hazardous substance	☐	☐	☐
Other (specify in Box K)	☐	☐	☐

5. Corrosion Protection:

Anodes

Impressed current

Internal

Not needed

(If certified by corrosion expert, write name and
PE or certification # in Box K)

	1	2	3
Anodes	☐	☐	☐
Impressed current	☐	☐	☐
Internal	☐	☐	☐
Not needed	☐	☐	☐

E. Tank Information

Please check applicable boxes.

1. Type of Pump:

Submersible

Suction

Other (specify in Box K)

	1	2	3
Submersible	☐	☐	☐
Suction	☒	☒	☐
Other (specify in Box K)	☐	☐	☐

turn page over!

6. Secondary Containment:
- | | 1 | 2 | 3 |
|------------------|-------------------------------------|-------------------------------------|--------------------------|
| Double wall tank | ☐ | ☐ | ☐ |
| Vault | ☐ | ☐ | ☐ |
| Liner | ☐ | ☐ | ☐ |
| Not Applicable | ☒ | ☒ | ☐ |

7. Does tank have spill containment?
- | | 1 | 2 | 3 |
|-----|-------------------------------------|-------------------------------------|--------------------------|
| yes | ☒ | ☒ | ☐ |
| no | ☐ | ☐ | ☐ |

8. Does tank have overfill prevention?
- | | 1 | 2 | 3 |
|-----|-------------------------------------|-------------------------------------|--------------------------|
| yes | ☒ | ☒ | ☐ |
| no | ☐ | ☐ | ☐ |

F. Piping:

1. Construction Material:

- | | 1 | 2 | 3 |
|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Galvanized steel | ☐ | ☐ | ☐ |
| Wrapped steel | ☐ | ☐ | ☐ |
| Black iron | ☒ | ☒ | ☐ |
| Fiberglass | ☐ | ☐ | ☐ |
| Double walled | ☐ | ☐ | ☐ |
| Copper | ☐ | ☐ | ☐ |
| Other (specify in Box K) | ☐ | ☐ | ☐ |

2. Corrosion Protection:

- | | 1 | 2 | 3 |
|-----------------------------|--------------------------|--------------------------|--------------------------|
| Anodes | ☐ | ☐ | ☐ |
| Impressed current | ☐ | ☐ | ☐ |
| Wrapped | ☐ | ☐ | ☐ |
| Not needed (ie. fiberglass) | ☐ | ☐ | ☐ |

(if certified by corrosion protection expert, write name and PE or certification # in Box K)

G. Financial Responsibility

(Applies to petroleum marketers with 1-12 tanks after Oct. 26, 1991, those with 13-99 tanks at more than one facility after April 26, 1991, and other tank owners as specified in 40 CFR, part 280.)

Type: _____
 Insurer: _____
 Policy #: _____ Expiration date: ____/____/____

H. Release Detection

To be completed for tanks (except heating oil) installed after Dec. 22, 1988 and older tanks if subject to 40 CFR, part 280, subp. D. Choose all that apply.

1. Tanks:
- | | 1 | 2 | 3 |
|------------------------------------|--------------------------|--------------------------|--------------------------|
| Inventory control (daily sticking) | ☐ | ☐ | ☐ |
| Tank tightness test | ☐ | ☐ | ☐ |
| Manual tank gauging | ☐ | ☐ | ☐ |
| Automatic tank gauging | ☐ | ☐ | ☐ |
| Soil vapor monitoring | ☐ | ☐ | ☐ |
| Groundwater monitoring | ☐ | ☐ | ☐ |
| Other (Specify in Box K) | ☐ | ☐ | ☐ |

2. Date of last tank tightness test (if applicable):

--	--	--	--

I. Owner's Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge, and that all work was performed as per the manufacturers' instructions, industry standards, and applicable state and federal regulations. For installations performed after July 9, 1990, I certify that the installer was in compliance with the certification requirements of Minn. Rules, chap. 7105.

Curt Bjertness

mqr

Print name of owner or authorized representative and title

Curt Bjertness

11-13-90

Signature of owner/authorized representative
(Unsigned forms will be returned)

Date

J. Tank Contractor's Signature

I certify under penalty of law that all work was performed as specified by the manufacturers' instructions, and according to industry standards, applicable state and federal regulations and is complete to the best of my knowledge. I certify that I am in compliance with Minn. Rules, chap. 7105, if work was completed after July 9, 1990.

O'DAY EQUIPMENT, INC

0023

Name of tank contractor company

MPCA Contractor #

TERRY KRAFT

00254

Print supervisor name

MPCA Supervisor #

Terry Kraft

1-13-90

Supervisor signature

Date

Contractor Address: 1301 40th ST. NW
 City: FARGO State: ND Zip: 58102

Please write tank number(s) that work was performed on:

--	--	--

K. Comments (attach additional sheets if necessary)

TANK Removal of two (2) 560 gallon UST's.

3. Piping:

- | | 1 | 2 | 3 |
|---|--------------------------|--------------------------|--------------------------|
| Automatic line leak detector and annual line tightness test | ☐ | ☐ | ☐ |
| Vapor monitoring | ☐ | ☐ | ☐ |
| Groundwater monitoring | ☐ | ☐ | ☐ |
| Interstitial monitoring | ☐ | ☐ | ☐ |
| Other (Specify in Box K) | ☐ | ☐ | ☐ |
| Line tightness test every three years (for suction piping only) | ☐ | ☐ | ☐ |
| Not needed (for suction piping only) | ☐ | ☐ | ☐ |

4. Date of last line tightness test (if applicable):

--	--	--	--



Notification for Underground Storage Tanks

Minnesota Pollution Control Agency
Hazardous Waste Division Tanks and Spills Section
520 Lafayette Road North St. Paul, MN 55155

for office use:

ID#

LK#

PQ-00410-03 (8/90)

A. Name of Tank Site

WOLVERTON FARMERS ELEVATOR

Tank Site Address

HWY 75 PO BOX 69

City

WOLVERTON MN

Zip Code

56594

Phone

(218) 995-2565

County

WILKIN

Fire Marshal Permit #

90612

B. Name of Owner

WOLVERTON FARMERS ELEVATOR

Mailing Address

BOX 69

City

WOLVERTON MN

State

Zip Code

56594

Phone

(218) 995-2565

Questions?

Call

(612) 643-3413

or Toll-free

1-800-652-9747

during normal

business hours

C. Tank number

Type or use ink and complete as best as possible. Please photocopy form if site has more than 3 tanks.

1. Assign a 3 digit number to each tank (eg. 001, 002...)

001 002

2. Installation date:

11-13-90 11-13-90

mo/dayr

mo/dayr

mo/dayr

3. Is tank currently used?

☒

☐

yes no

☒

☐

yes no

☐

☐

yes no

D. Tank Action

1. Please check applicable box(es).

	1	2	3
Initial notification	☒	☒	☐
Add new tank(s) to site	☐	☐	☐
Change in tank owner	☐	☐	☐
Change tank contents	☐	☐	☐
Repair tank	☐	☐	☐
(please explain in Box K)			
Remove tank	☐	☐	☐
Close tank in place	☐	☐	☐
Temporary closure	☐	☐	☐
(product in tank, in # of gallons):			

2. Please write date of above action:

E. Tank Information

Please check applicable boxes.

1. Type of Pump:

Submersible ☐

Suction ☒

Other (specify in Box K) ☐

2. Type of Tank:

	1	2	3
STIP3	☐	☐	☐
Fiberglass	☐	☐	☐
Composite	☐	☐	☐
Asphalt coated steel	☐	☐	☐
Painted steel	☐	☐	☐
Bare steel	☐	☐	☐
Concrete	☐	☐	☐
Other (specify in Box K)	☒	☒	☐

3. Capacity: (# of gal)

1000 1000

4. Substance Currently or Last Stored:

	1	2	3
Regular gasoline	☐	☒	☐
Unleaded gasoline	☒	☐	☐
Diesel	☐	☐	☐
Used (waste) oil	☐	☐	☐
Fuel (heating) oil	☐	☐	☐
Kerosene	☐	☐	☐
Hazardous substance	☐	☐	☐
(specify chemical and tank # in Box K, on back)			
Other (specify in Box K)	☐	☐	☐

5. Corrosion Protection:

	1	2	3
Anodes	☐	☐	☐
Impressed current	☐	☐	☐
Internal	☐	☐	☐
Not needed	☒	☒	☐

(if certified by corrosion expert, write name and PE or certification # in Box K)

turn page over!

6. Secondary Containment:

	1	2	3
Double wall tank	☒	☒	☐
Vault	☐	☐	☐
Liner	☐	☐	☐
Not Applicable	☐	☐	☐

7. Does tank have spill containment?

	1	2	3
☒ yes	☐ no	☒ yes	☐ no

8. Does tank have overfill prevention?

	1	2	3
☒ yes	☐ no	☒ yes	☐ no

F. Piping:

1. Construction Material:

	1	2	3
Galvanized steel	☐	☐	☐
Wrapped steel	☐	☐	☐
Black iron	☐	☐	☐
Fiberglass	☒	☒	☐
Double walled	☐	☐	☐
Copper	☐	☐	☐
Other (specify in Box K)	☐	☐	☐

2. Corrosion Protection:

	1	2	3
Anodes	☐	☐	☐
Impressed current	☐	☐	☐
Wrapped	☐	☐	☐
Not needed (ie. fiberglass)	☒	☒	☐

(if certified by corrosion protection expert, write name and PE or certification # in Box K)

G. Financial Responsibility

(Applies to petroleum

marketers with 1-12 tanks after Oct. 26, 1991, those with 13-99 tanks at more than one facility after April 26, 1991, and other tank owners as specified in 40 CFR, part 280.)

Type: _____
 Insurer: _____
 Policy #: _____ Expiration date: ____/____/____

H. Release Detection

To be completed for tanks (except heating oil) installed after Dec. 22, 1988 and older tanks if subject to 40 CFR, part 280, subp. D. Choose all that apply.

1. Tanks:

	1	2	3
Inventory control (daily sticking)	☐	☐	☐
Tank tightness test	☐	☐	☐
Manual tank gauging	☐	☐	☐
Automatic tank gauging	☐	☐	☐
Soil vapor monitoring	☐	☐	☐
Groundwater monitoring	☐	☐	☐
Other (Specify in Box K)	☒	☒	☐

2. Date of last tank tightness test (if applicable):

I. Owner's Signature

I certify under penalty of law that the information submitted is accurate and complete to the best of my knowledge, and that all work was performed as per the manufacturers' instructions, industry standards, and applicable state and federal regulations. For installations performed after July 9, 1990, I certify that the installer was in compliance with the certification requirements of Minn. Rules, chap. 7105.

Curt Bjerthess MGR
 Print name of owner or authorized representative and title

Curt Bjerthess 1-8-91
 Signature of owner/authorized representative Date
 (Unsigned forms will be returned)

J. Tank Contractor's Signature

I certify under penalty of law that all work was performed as specified by the manufacturers' instructions, and according to industry standards, applicable state and federal regulations and is complete to the best of my knowledge. I certify that I am in compliance with Minn. Rules, chap. 7105, if work was completed after July 9, 1990.

O'DAY EQUIPMENT, INC. 0023
 Name of tank contractor company MPCA Contractor #

TERRY KRAFT 00254
 Print supervisor name MPCA Supervisor #

Terry Kraft 1-9-91
 Supervisor/signature Date

Contractor Address: 1301 40th ST. NW
 City: FARGO State: ND Zip: 58102

Please write tank number(s) that work was performed on:

--	--	--

K. Comments (attach additional sheets if necessary)

The tanks are steel tanks with a secondary jacket that provides corrosion protection. (TOTE containment tank).

H. INTERSTITIAL MONITORING ON UST'S

3. Piping:

	1	2	3
Automatic line leak detector and annual line tightness test	☐	☐	☐
Vapor monitoring	☐	☐	☐
Groundwater monitoring	☐	☐	☐
Interstitial monitoring	☐	☐	☐
Other (Specify in Box K)	☐	☐	☐
Line tightness test every three years (for suction piping only)	☐	☐	☐
Not needed (for suction piping only)	☒	☒	☐

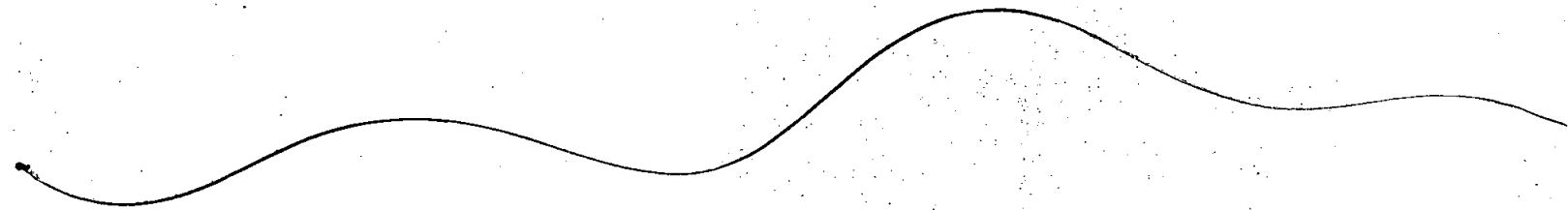
4. Date of last line tightness test (if applicable):

--	--	--

APPENDICES

Jar Headspace Screening Procedures -----	Appendix A
Sampling for Volatile Organics -----	Appendix B
Site Plot Plan - Old UST's -----	Appendix C
PID Soil Screening Plot Plan -----	Appendix D
BTEX-TPH Lab Analysis and Plot Plan -----	Appendix E
Site Plot Plan - New UST's -----	Appendix F

APPENDIX - A -



JAR HEADSPACE ANALYTICAL SCREENING PROCEDURE

Minnesota Pollution Control Agency
Tanks and Spills Section
May 31, 1990

The following are recommended procedures for conducting analytical screening of petroleum contaminated soil utilizing a portable Photoionization Detector (PID) or Flame Ionization Detector (FID):

1. Half-fill a clean glass jar with the sample to be analyzed. Quickly cover the open top with one or two sheets of clean aluminum foil and subsequently apply screw cap to tightly seal the jar. Sixteen ounce (oz.) (approximately 500 ml) soil or "mason" type jars are preferred; jars less than 8 oz. (approximately 250 ml) total capacity may not be used. If the sample is collected from a split spoon it should be transferred to the jar for headspace analysis immediately after opening the split-spoon. If the sample is collected from an excavation or soil pile, it should be collected from freshly exposed soil.
2. Allow headspace development for at least 10 minutes. Vigorously shake jars for 15 seconds both at the beginning and end of the headspace development period. Where ambient temperatures are below 32 degrees fahrenheit (0°C) headspace development should be within a heated vehicle or building. Ambient temperature during headspace analysis should be recorded and reported.
3. Headspace analysis should be completed the same working day as the sample is collected.
4. Subsequent to headspace development, remove screw lid/expose foil seal. Quickly puncture foil seal with instrument sampling probe, to a point about one-half of the headspace depth. Exercise care to avoid uptake of water droplets or soil particulates.

As an alternative, syringe withdrawal of a headspace sample with subsequent injection to an instrument probe or septum-fitted inlet, is acceptable, contingent upon verification of methodology accuracy using a test gas standard.

5. Following probe insertion through foil seal and/or sample injection to probe, record highest meter response as the jar headspace concentration. Using foil seal/probe insertion method, maximum response should occur between two and five seconds. Erratic meter response may occur at high organic vapor concentrations or conditions of elevated headspace moisture, in which case headspace data should be discounted.
6. PID and FID field instruments shall be calibrated to yield "total organic vapors" in parts per million (v/v) to a benzene equivalent. PID instruments should be operated with a 10.2 eV (+/-) lamp source. Operation, maintenance, and calibration shall be performed in accordance with the manufacturer's specifications. For jar headspace analysis, instrument calibration shall be checked/adjusted no less than daily.
7. Instrumentation with digital (LED/LCD) displays may not be able to discern maximum headspace response unless equipped with a "maximum hold" feature or strip-chart recorder.

Deviations, departures and/or additions to the above procedures will be considered on a case-by-case basis by the Minnesota Pollution Control Agency Tanks and Spills Section staff. In such cases, compelling technical justification must be presented and documented.

APPENDIX - B -

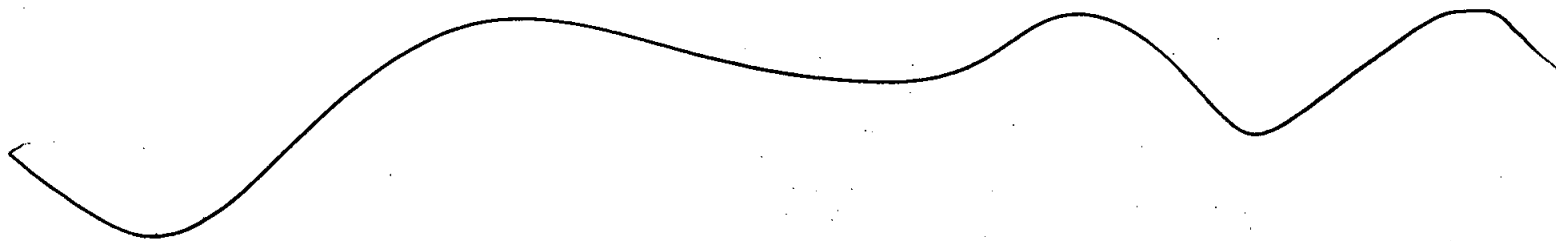




Sampling for Volatile Organics

- 1) The clear glass vials are provided with a teflon-lined septum and screw cap. Proper filling of the vial with good sealing will prevent loss of any volatile compounds present.
- 2) DO NOT open the vial until you are ready to actually take the sample. These containers have been specially cleaned and opening them may introduce contaminants.
- 3) Overfill the vial so that the sample buldges out of the containers.
- 4) Place the black screw cap on the vial and tighten to a snug fit. Do not over tighten as plastic ring may break. Make sure the teflon (white) side of the septum is facing toward your sample.
- 5) Turn the sample upside down and check for air bubbles in the container. If any air is trapped repeat steps 3 through 5.
- 6) FILL OUT THE INFORMATION SHEET COMPLETELY.
- 7) Make sure that you label the bottle properly with the sample ID and the date the sample was taken.
- 8) Samples are to be refrigerated. Do not freeze the samples.
- 9) If you have any questions, call us at our Minnesota number 507-354-8517 or our WATS number 800-782-3557.

APPENDIX - C -



Legend:

=====

Product Pipe

Water Line

Sanitary Sewer

Scale: 3/16" = 1'

=====

Tank Basin #1

#1

Island

Wolverton Farmers Elevator
(Office)

Concrete Slab

Highway 75

Tank Information:

=====

#1 - 560-gallon, steel UST, gasoline (UL)

#2 - 560-gallon, steel UST, diesel fuel

#2

Tank Basin #2

UST Final Excavation
(16'-W x 10'-L x 10'-Depth)



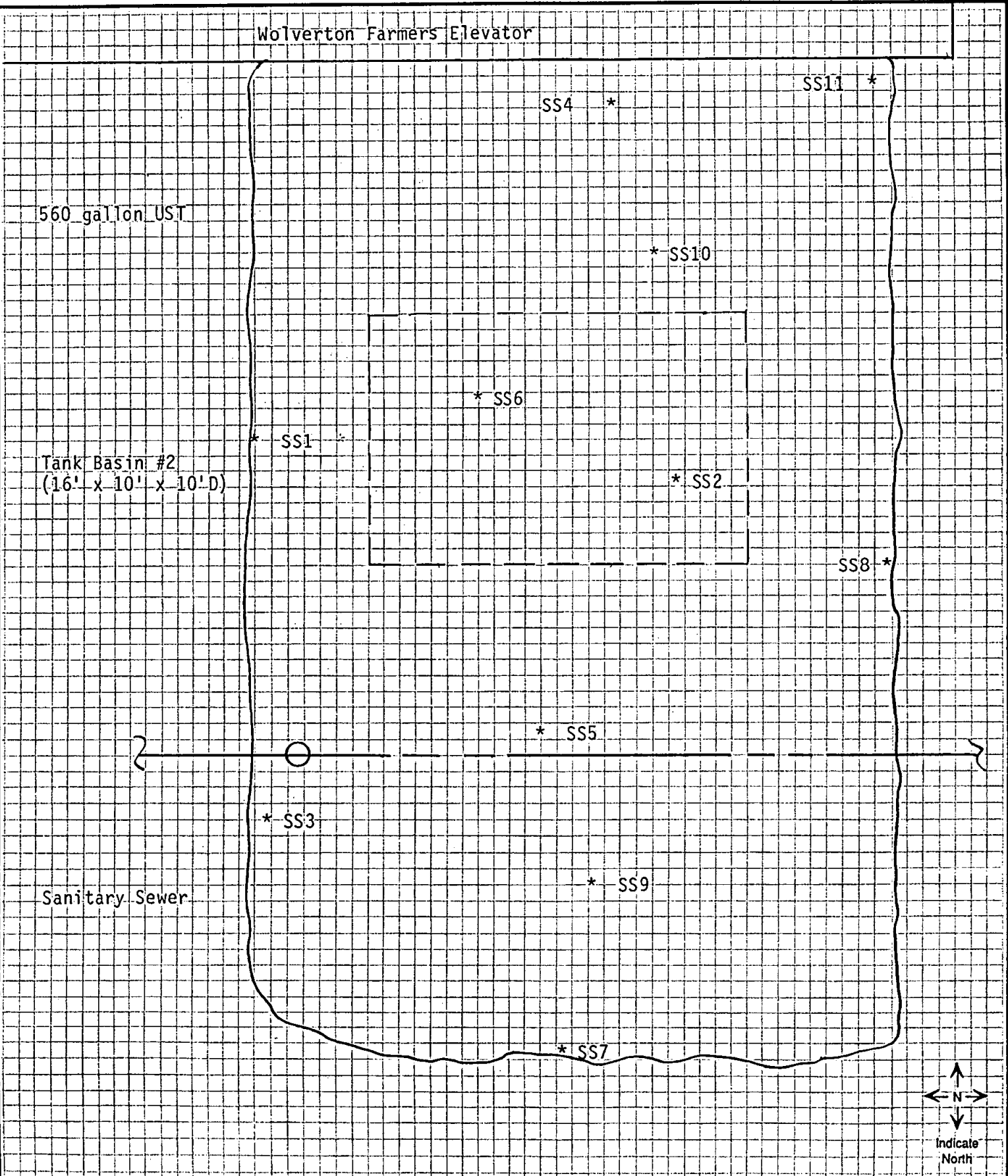
APPENDIX - D -





Customer: Wolverton Farmers Elevator
Hwy. 75 Wolverton, MN
PID Field Screening Plot Plan

Date: 11-13-90
Project #: _____



APPENDIX - E -





LABORATORIES, Inc.

P.O BOX 249
NEW ULM, MN 56073-0249

PHONE (507) 354-8517 WATS (800) 782-3557 FAX (507) 359-2890

RECEIVED

DEC 05 1990

O'Day Equipment, Inc.
FARGO, ND



WE ARE AN EQUAL OPPORTUNITY EMPLOYER

Report To: Great Plains Environmental
1301 40th Street NW
Fargo, ND 58102
Attn: Terry Kraft

Date: November 29, 1990
Work Order: 21-1897
Date Received: 11-19-90
PO# 100048

RE: Wolverton Farmers Elevator

Date Analyzed = 11/25/90

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

<u>Sample I.D.</u>	<u>Lab #</u>	<u>Ethyl Benzene /ppb</u>	<u>Benzene /ppb</u>	<u>Toluene /ppb</u>	<u>Xylene /ppb</u>	<u>* Total Hydrocarbons /ppm</u>
SS #1 (Soil)	7557	< 15.0	< 20.0	< 20.0	< 15.0	BDL
SS #2 (Soil)	7558	< 15.0	< 20.0	< 20.0	< 15.0	BDL
SS #3 (Soil)	7559	395	1380	30.0	257	12.2 As Gas or 27.3 As Fuel Oil
SS #4 (Soil)	7560	< 15.0	< 20.0	< 20.0	< 15.0	BDL
SS #5 (Soil)	7561	< 15.0	< 20.0	< 20.0	< 15.0	BDL
SS #6 (Soil)	7562	< 7500	<10000	16800	72700	2320 As Gas or 6410 As Fuel Oil
SS #7 (Soil)	7563	< 15.0	< 20.0	< 20.0	< 15.0	BDL
Trip Blank (Water)	7564	< 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

Test Method: SW846 - 8020/5030 Modified

Report approved by Wade Pullman,

Chemist *CP*

By and for Minnesota Valley Testing labs., Inc.

ASH

MVTL guarantees the accuracy of the analysis done on the sample submitted for testing. It is not possible for MVTL to guarantee that a test result obtained on a particular sample will be the same on any other sample unless all conditions affecting the sample are the same, including sampling by MVTL. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

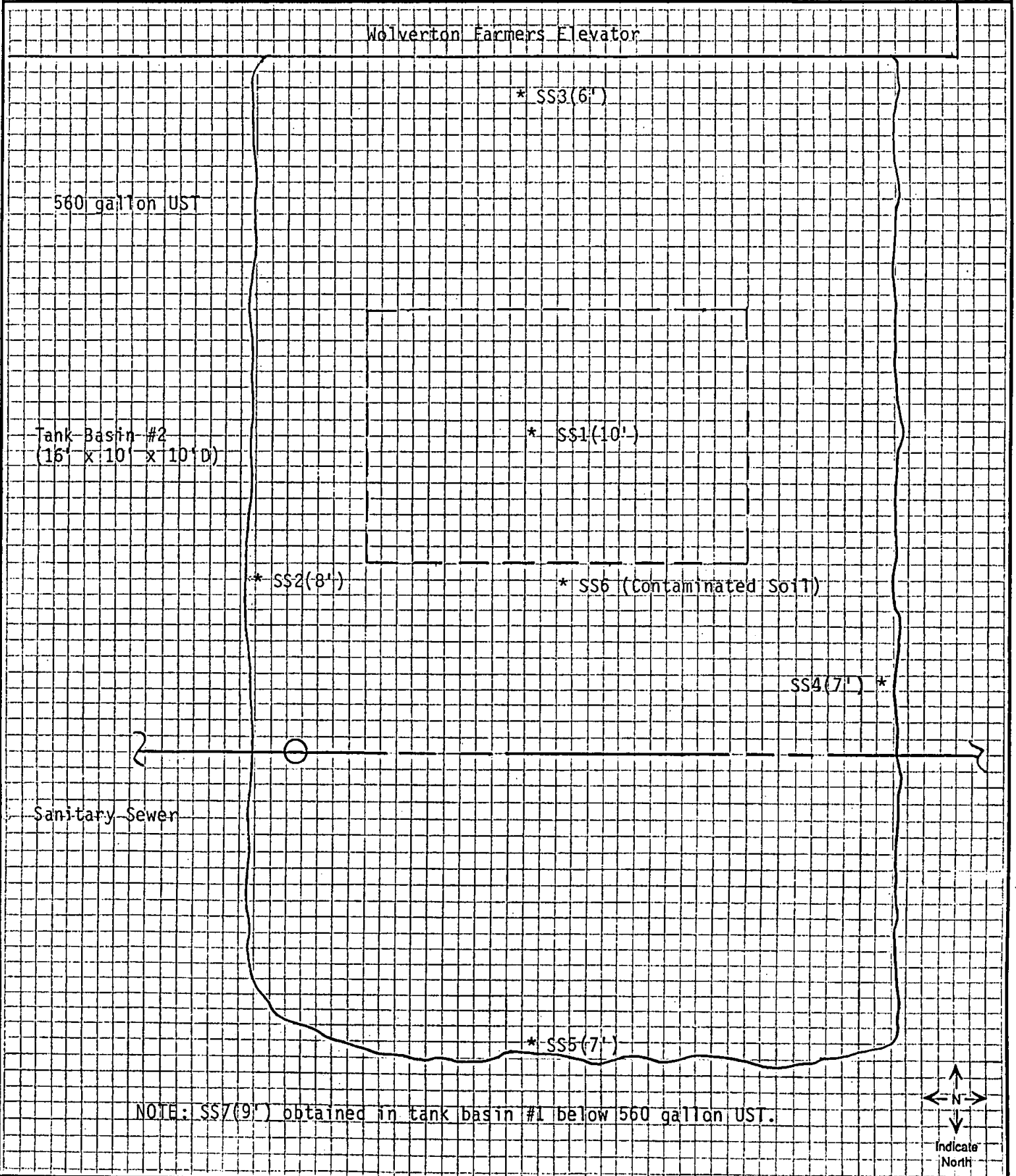
Customer: Wolverton Farmers Elevator

Date: 11-13-90

Hwy. 75 Wolverton, MN

BTEX-TPH Soil Sample Plot Plan

Project #: _____





Sample Identification / Field Chain of Custody Record

21-1897

Project: WOLVERTON FARMERS ELEVATOR, WOLVERTON, MN
Shipped by: GREAT PLAINS ENVIRONMENTAL, FARGO, ND
Shipped to: MVTL, NEW ULM, MN
Comments: GASOLINE CONTAMINATION

P.O. # 100048

Attention of: _____
Hazardous materials suspected? (yes/no) no

Sampling Point	Location	Field ID #	Date	Sample Type	No. of Containers	Analysis Required	Lab ID (optional)
10' ELEVATION (Floor)	BASIN#1 - BELOW SDO VST	SS#1 (10')	11/12/90	Soil	2	BTEX-TPH	
8' ELEVATION	BASIN#1 - WEST WALL	SS#2 (8')	11/12/90	Soil	2	BTEX-TPH	
6' ELEVATION	BASIN#1 - NORTH WALL	SS#3 (6')	11/12/90	Soil	2	BTEX-TPH	
7' ELEVATION	BASIN#1 - EAST WALL	SS#4 (7')	11/12/90	Soil	2	BTEX-TPH	
7' ELEVATION	BASIN#1 - SOUTH WALL	SS#5 (7')	11/12/90	Soil	2	BTEX-TPH	
CONTAMINATED STOCKPILE	BASIN#1 - C. Soil	SS#6	11/13/90	Soil	2	BTEX-TPH	
9' ELEVATION (Floor)	BASIN#2 - BELOW SDO	SS#7 (9')	11/12/90	Soil	2	BTEX-TPH	

Sampler(s) (signature) Perry Kraft

Field ID	Relinquished by: (signature)	Received by: (signature)	Date / Time	Comments

Sealed for shipment by: (signature) Perry KraftDate / Time 11/15/90Shipment method: UPSReceived for Lab by: (signature) Shelly HeimDate / Time 11/19/90Comments 3:30 P
11:15 AM

Receiving Laboratory: Please return original form after signing for receipt of samples.

GREAT PLAINS ENVIRONMENTAL
1301 40TH ST. NW
FARGO, ND 58102
(701) 277-1612

APPENDIX - F -



