DAHL & ASSOCIATES, INC.
Environmental Consultants, Contractors & Engineers

4390 McMenemy Road
Saint Paul, MN 55127
(612) 490-2905 * FAX (612) 490-2909

February 20, 1990

Mr. Dave Scheer
Minnesota Pollution Control Agency
Tanks and Spills Section
Hazardous Waste Division
520 Lafayette Road
St. Paul, Minnesota 55155

RE: Former Conoco Station, West St. Paul

Dear Mr. Scheer:

The purpose of this correspondence is to update you on the preliminary results of the remedial investigation being conducted at the above-referenced petroleum hydrocarbon release site. A full RI report will be issued after the extent of groundwater and soil contamination have been more fully defined.

To date, a total of five soil test borings and three monitoring wells have been completed at the site. The location of each well and boring is indicated on the attached site plan map. Boring drill logs and well as-built sheets are attached. On-site property clearances to conduct these borings was received from Mr. Robert Mikulak of Rapid Oil Change. Mr. Mikulak requested that no asphalt surfaces be disturbed at the site, which influenced the placement of soil test borings and wells.
Each boring encountered similar soil types. Fill material predominated the upper seven to ten feet of subsurface material, after which a red-brown fine to medium poorly graded sand with a trace of silt was encountered. This sand unit continued to the end of each boring (usually 20 to 22 feet). The uppermost unconfined aquifer was encountered in each boring, at a depth of approximately 16 feet. Though its saturated thickness is unknown, it does extend to at least 23 feet (the depth of our deepest boring).

Water table elevation data for the site is summarized in Table 1 below. The first round of data was collected on October 10, 1989, 13 days after the well installations. At that time, the wells were developed, stabilized, and sampled. No free product was detected, and the data indicated the water table sloping to

the northeast, toward the Mississippi River, at a gradient of approximately 1.6 X 10^{-2}. A water table contour map constructed from this data is attached.

Water table elevation data was again collected at the site on December 15, 1989. At that time, approximately 0.81 feet of free gasoline was detected in MW-3. The MPCA (yourself) was notified of the presence of this free product when it was identified as gasoline on December 20, 1989. A bailing schedule was set up to remove free product from the well on a regular basis, and to monitor product recharge. Product has been bailed from the well on 12/19/89, 1/8/90, and 2/5/90. The total product volume bailed has been approximately one half gallon.

TABLE 1

WELL:	MW-1	MW-2	MW-3
ELEVATION:	100.47	100.77	101.05
10/23/89			
Depth to Water	17.99	19.23	20.77
Depth to Product	-	-	-
Product Thickness	0	0	0
Water Table Elev.	82.48	81.54	80.28
12/15/89			
Depth to Water	18.89	20.14	22.35
Depth to Product	-	-	21.54
Product Thickness	0	0	0.81
Water Table Elev.	81.58	80.63	79.25*
01/08/90			
Depth to Water	19.15	20.40	22.47
Depth to Product	-	-	22.07
Product Thickness	0	0	0.40
Water Table Elev.	81.32	80.37	78.85*

TABLE 1 (continued)

02/05/90			
Depth to Water	19.61	20.93	22.91
Depth to Product	-	-	22.53
Product Thickness	0	0	0.38
Water Table Elev.	80.86	79.84	78.40*

* = adjusted to represent static water level in the absence of product.

A petroleum hydrocarbon vapor survey, including monitoring of sanitary and storm sewer access points was conducted on January 8, 1990. The survey utilized an HNU photoionization detector (PID), calibrated to a benzene standard using isobutylene. No petroleum hydrocarbon vapors were detected.

Soil samples collected from each soil boring were screened for petroleum hydrocarbon content with a PID. The results are indicated on the attached boring logs. Selected soil samples were submitted for laboratory analysis. The results are included in Table 2.

TABLE 2
Soil Sample Laboratory Analysis Summary
(All values in mg/Kg or parts per million)

Test Boring & Sampled interval(ft.)	Benzene	Toluene	Xylenes	E.Benzene	THC
TB-1 (13-15)	5.000	17.000	38.000	7.400	400.000
TB-2 (15-17)	ND	ND	ND	ND	0.006
TB-3 (15-17)	ND	ND	ND	ND	ND
TB-4 (15-17)	ND	ND	ND	ND	ND
TB-5 (15-17)	ND	ND	ND	ND	ND

TABLE 2 (continued)

MW-1 (13-15)	ND	ND	ND	ND	ND
MW-2 (15-17)	8.700	28.000	140.000	23.000	1100.000
MW-3 (15-17)	3.200	29.000	82.000	19.000	740.000

Table 3 contains the results of water samples collected on October 23, 1989 from the three monitoring wells on site.

TABLE 3
Monitoring Well Water Sample Laboratory Analysis Summary
(All values in ug/Kg or parts per billion)

Monitoring Well	Benzene	Toluene	Xylenes	MTBE	THC
MW-1	ND	ND	ND	ND	ND
MW-2	7400	8600	7800	2000	52000
MW-3	6000	5400	7400	330	43000

Additional test borings and two down-gradient monitoring wells are scheduled for this site, as soon as off-site property clearances can be obtained. The plume of gasoline contaminated soils has not been defined to the east, north, or west. Test borings in both Butler Avenue and South Robert Street are planned.

Please contact us if you have any questions or comments regarding the information contained herein.

Sincerely yours,

Daniel W. Wiberg
Project Manager

dww

attachments

cc Mr. Paul Taylor, Conoco Inc

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. TB-1

PROJECT Conoco South Robert

DEPTH (ft)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Brown fine silty sand with trace fine to medium gravel. Slightly moist.		FILL		
	1	SS	Red-brown fine to medium sand fill with trace fine gravel. Moist Slightly organic.			6 8 8 12	0
5	2	SS	Dark brown fine to medium sand fill with trace fine gravel. Moist			16 10 11 20	3
	3	SS	Same Soil; trace silt.			3 6 9 12	10
10	4	SS	Red-brown fine to medium sand with trace silt and fine gravel. Moist Poorly graded.		SP	15 14 13 11	200+
	5	SS	Same Soil; very moist at 15'. Strong gas presence.			9 7 8 8	200+
15	6	SS	Same Soil; very moist to wet.			6 7 7 8	2
	7	SS	Red-brown fine to medium sand. Trace silt and fine gravel. Wet.			7 9 9 10	0
20	8	SS				4 6 9 9	0
			EOB 22'				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DAHL & ASSOCIATES, INC.

DATE 10-9-89

TIME STARTED 9:15

TIME COMPLETED 10:30

DRILL / CASING B47 4¼ HSA

Environmental Operations,

WATER LEVEL:

- WHILE DRILLING 15'
- AFTER BORING

CAVE-IN DEPTH

Saint Paul, Minnesota

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. TB-2

PROJECT Conoco South Robert

DEPTH (ft)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Red-brown fine to medium sand fill. Slightly organic, little fine gravel. Moist		Fill		
	1	SS	Same Soil with trace silt and some fine to medium gravel.			10 10 13 9	1
5	2	SS				8 12 17 16	2
	3	SS	Red-brown fine to medium sand. Trace silt and fine gravel. Moist. Poorly graded.		SP	8 17 15 20	3
10	4	SS				20 22 18 16	1
	5	SS	Same Soil; very moist to wet at 15'.			5 7 13 15	3
15	6	SS	Dark brown fine to medium sand. Black soil discoloration at 16-16.5'. Trace fine gravel. Wet. Poorly graded.			7 8 8 9	40
20	7	SS	Red-brown fine to medium sand with little silt and trace fine gravel. Wet. Poorly graded.		SP/SM	4 4 3 4	0
			EOB 20'				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DATE 10-9-89

TIME STARTED 10:45

TIME COMPLETED 12:00

DRILL / CASING B47 4¼ HSA

WATER LEVEL:

- WHILE DRILLING 15'
- AFTER BORING
- CAVE-IN DEPTH

DAHL & ASSOCIATES, INC. Environmental Operations, Saint Paul, Minnesota

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. TB-3

PROJECT Conoco South Robert

DEPTH (ft)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Red-brown fine to medium sand fill with trace silt and little fine to medium gravel. Moist		FILL		
	1	SS				10 13 13 18	1
5	2	SS				10 10 9 7	0
	3	SS	Same Soil; poorly graded.		SP	5 9 9 11	2
10	4	SS				19 16 15 17	1
	5	SS	Brown fine to medium sand with trace silt and fine gravel. Moist to very moist. Poorly graded.			13 12 12 9	20
15	6	SS	Same Soil; wet at 16.5'			10 10 9 7	25
	7	SS	Red-brown silty fine sand with trace fine gravel, (highly weathered). Wet.		SM	3 3 4 6	2
20			EOB 20'				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DAHL & ASSOCIATES, INC.

DATE 10-9-89

TIME STARTED 12:30

TIME COMPLETED 1:30

DRILL / CASING B47 4¼ HSA

Environmental Operations,

WATER LEVEL:

- WHILE DRILLING 16½'
- AFTER BORING

CAVE-IN DEPTH

Saint Paul, Minnesota

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. TB-1

PROJECT Conoco South Robert

DEPTH (ft.)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Red-brown fine to medium sand with little fine to medium gravel. Moist		FILL		
	1	SS	Red-brown fine sand fill withtrace silt and fine gravel, Moist.			10 10 7 12	0
5	2	SS				16 15 18 20	0
	3	SS	Red-brown fine to medium sand with trace silt and fine to medium gravel.		SP	7 12 11 16	0
10	4	SS	Moist. Poorly graded.			17 17 13 15	0
	5	SS	Brown fine to medium sand with trace silt and fine to medium gravel. Moist			7 12 7 8	8
15	6	SS	to very moist. Poorly graded. Wet at 16'.			15 12 15 15	5
	7	SS	Same Soil; wet. Small sand seams (medium)			3 2 4 9	5
20			EOB 20'				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DAHL & ASSOCIATES, INC.

Environmental Operations,

DATE 10-9-89

TIME STARTED 1:30

TIME COMPLETED 2:30

DRILL / CASING B47 4¼ HSA

WATER LEVEL:

- WHILE DRILLING 16'
- AFTER BORING
- CAVE-IN DEPTH

Saint Paul, Minnesota

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. TB-5

PROJECT Conoco South Robert

DEPTH (ft.)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Grass				
			Brown fine sand fill.		FILL		
	1	SS	Red-brown fine to medium sand fill with trace silt and fine gravel. Moist.			8 10 11 13	0
5	2	SS	Brown fine to medium sand fill. Moist. Trace fine gravel.			13 14 14 12	0
	3	SS	Brown fine to medium sand with trace silt and fine gravel. Moist. Poorly graded.		SP	7 8 10 9	0
10	4	SS				16 8 18 16	0
	5	SS				8 10 13 11	0
15	6	SS	Brown fine to medium silty sand. Wet at 16'. Trace fine gravel.		SP/SM	11 12 11 12	0
	7	SS	Red-brown fine to medium silty sand with little fine gravel. Wet.			3 4 4 7	0
20			EOB 20'				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DAHL & ASSOCIATES, INC.

DATE 10-9-89

TIME STARTED 2:30

TIME COMPLETED 3:30

DRILL / CASING B47 4¼ HSA

Environmental Operations,

WATER LEVEL:

- WHILE DRILLING 16'
- AFTER BORING

CAVE-IN DEPTH

Saint Paul, Minnesota

Reference Information:

Dahl Well Number MW-1

Unique Well Number 508905

Date Installed 10/10/89

Driller / Co. PLM/Dahl & Assoc.

Rig B-47

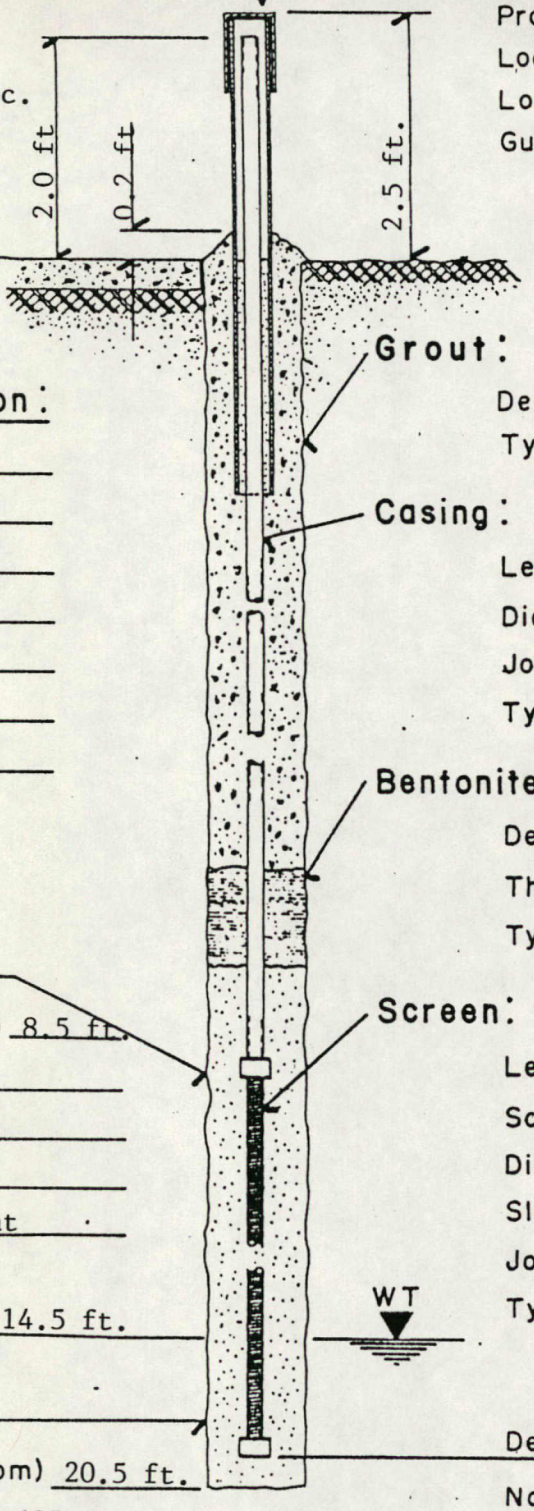
Method H.S.A.

Ground Surface Elev.

Water Levels

Summary of Construction:

Joint at top of Screen



Above Grade Completion:

Collar and Surface Seal:

Type. Cement

Protective Case. 4 in. Dia Steel

Locking Cover. Stl. Slip

Lock Number. 2121

Guard Post: (Not Shown)

Type 4" Dia x 8 ft stl

Quanity 3

Grout:

Depth (Grade to Top) 0

Type. Neat Cement

Casing:

Length 12.5 ft.

Diameter 2 inches

Joints. NPT

Type. Sch. 40 Galv. Stl.

Bentonite Seal:

Depth (Grade to Top) 6.5 ft.

Thickness 2.0 ft.

Type. Quick Gel

Well Pack:

Depth (Grade to Top) 8.5 ft.

Thickness 12.0 ft.

Above Screen 2.0 ft.

Below Screen None

Type #30 Red Flint

Screen:

Length 10.0 ft.

Screen Interval 10.5 to 20.5 ft.

Diameter 2 inches

Slot Size #10 (0.010 inches)

Joints NPT

Type Contin. Wire Wrap SS

(Western)

Water Table:

Depth From Grade 14.5 ft.
(While Drilling)

Boring:

Depth (Grade to Bottom) 20.5 ft.

Diameter of Hole 8.625 in.

Depth (Grade to Bottom) 20.5 Ft.

Note:
Overall Length of
Screen and Casing 22.5 Ft.

DAHL & ASSOCIATES, INC.

Environmental Operations
2303 Wycliff Street
St. Paul, Mn. 55114
Tel. 612 - 644 - 0013

TITLE:

Monitoring Well

AS BUILT

DATE 10/27/89 BY:

JOB No. MN601 Dwg. No.

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. MW-1

PROJECT Conoco South Robert

DEPTH (ft.)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Red-brown fine sand fill with trace fine gravel. Moist.		FILL		
	1	SS	Brown fine to medium sand fill with trace silt and fine gravel. Moist.			9 10 10 8	0
5	2	SS				21 29 26 31	1
	3	SS	Brown fine to medium sand with trace fine gravel. Poorly graded. Moist		SP	8 13 14 12	0
10	4	SS	Same Soil; with trace silt		SP/SW	20 28 18 16	0
	5	SS	Brown fine to medium silty sand with trace fine gravel. Wet at 14.5'		SM	5 7 8 10	0
15	6	SS				8 10 12 10	0
	7	SS	Same Soil; wet.			4 6 7 9	1
20			EOB 20.5'. Completed as well.				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DATE 10-10-89

TIME STARTED 8:30

TIME COMPLETED 11:00

DRILL / CASING B47 4¼ HSA

WATER LEVEL:

- WHILE DRILLING 14.5'
- AFTER BORING

CAVE-IN DEPTH

DAHL & ASSOCIATES, INC. Environmental Operations, Saint Paul, Minnesota

WATER WELL RECORD

Minnesota Statutes 156A.01-.08

MINNESOTA UNIQUE WELL NO. for Water Sample 008905

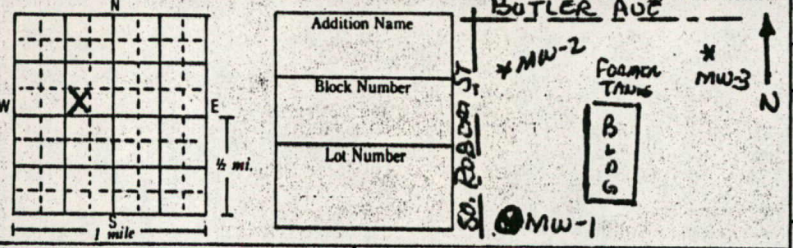
County Name: DAKOTA

Township Name	Township Number	Range Number	Section No.	Fraction
WEST ST. PAUL	28 N/S	22 E/W	17	SW¼ SE¼ NW¼

Numerical Street Address and City of Well Location or Distance from Road Intersection.

1126 SOUTH ROBERT ST. WEST ST. PAUL, MN

Show exact location of well in section grid with "X." Sketch map of well location.



2. PROPERTY OWNER'S NAME

VALVOLINE/INSTANT OIL CHANGE

Mailing Address if different than property address indicated above.

P.O. BOX 1400
LEXINGTON, KY 40512

3. FORMATION LOG

	COLOR	HARDNESS OF FORMATION	FROM	TO
[FILL] FINE TO FINE-MED SAND (FILL)	RED-BROWN		0	7.5
[SP] FINE-MED SAND.	BROWN		7.5	11
[SW] FINE-MED SAND.	BROWN		11	12.5
[SM] FINE-MED SILTY SAND	BROWN		12.5	20.5
EOB 20.5 ft				

Use a second sheet, if needed

4. WELL DEPTH (completed) 20.5 ft. — **Date of Completion** 10-10-89

5. DRILLING METHOD

☐ Cable Tool ☐ Reverse ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Air ☐ Bored ☐ _____
☐ Rotary ☐ Jetted ☒ Power Auger

6. DRILLING FLUID NOT USED

7. USE

☐ Domestic ☒ Monitoring ☐ Heat Pump
☐ Irrigation ☐ Public ☐ Industry
☐ Test Well ☐ Municipal ☐ Commercial
☐ Air Conditioning ☐ _____

8. CASING

☐ Black ☒ Threaded — HEIGHT: Above/Below Surface 2 ft. — HOLE DIAM.
☒ Galv. ☐ Welded — Drive Shoe? Yes ___ No X
☐ Plastic ☐

2 in. to 10.5 ft.	Weight 3.68 lbs./ft.	8 5/8 in. to 20.5 ft.
___ in. to ___ ft.	Weight ___ lbs./ft.	___ in. to ___ ft.
___ in. to ___ ft.	Weight ___ lbs./ft.	___ in. to ___ ft.

9. SCREEN — Or open hole from ___ ft. to ___ ft.

Make WESTERN
Type CONT. WIRE WRAP SS. Diam. 2 INCHES
Slot/Gauze #10 (0.010 INCHES) Length ___
Set between 10.5 ft. and 20.5 ft. FITTINGS: THREADED

10. STATIC WATER LEVEL 14.5 ft. ☐ below ☐ above land surface — WHILE DRILLING — Date Measured 10-10-89

11. PUMPING LEVEL (below land surface)

___ ft. after N/A hrs. pumping ___ g.p.m.
___ ft. after ___ hrs. pumping ___ g.p.m.

12. HEAD WELL COMPLETION

☐ Pitless adapter manufacturer ___ Model ___
☐ Basement offset ☒ At least 12" above ground
☐ Plastic casing protection ___

13. WELL GROUTED? ☒ Yes ☐ No

	#1	#2	
	☒ Neat Cement	☒ Bentonite	☐ ___
Grout material	#1	from GRADE to 6.5 ft.	cu. yds. ___
	#2	6.5 8.5	___

14. NEAREST SOURCES OF POSSIBLE CONTAMINATION

100 feet NE direction FORMER TANK BASIN type

Well disinfected upon completion? ☐ Yes ☒ No

15. PUMP

Date installed ___ ☒ Not installed
Manufacturer's name ___
Model number ___ HP ___ Volts ___
Length of drop pipe ___ ft. Capacity ___ g.p.m.
Material of drop pipe ___
Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating
☐ Jet ☐ Centrifugal ☐ ___

16. ABANDONED WELLS

Unused well on property? ☐ Yes ☒ No
Sealed ☐ Permanent ☐ Temporary ☐ Not sealed

17. REMARKS, ELEVATION, SOURCE OF DATA, etc. MW-1

DAHL & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS
WELL OWNER: CONOCO INC.
ATTN: MR. PAUL TAYLOR
P.O. BOX 4784
HOUSTON, TX 77210-4784
MN-601

IMPORTANT:
FILE WITH DEED — WELL OWNER COPY

008905

18. WATER WELL CONTRACTOR CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

DAHL & ASSOCIATES, INC. (Licensee Business Name) 0095 (License No.)
Address 4320 McMENEMY RD. ST. PAUL. MN.
Signed ___ P.E. (Authorized Representative) Date 10-27-89
DAHL & ASSOCIATES, INC. (Name of Driller) Date 10-10-89

HE-01205-03(Rev. 9/88) 5/74 30M 7/76 30M 7/78 30M

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. MW-2

PROJECT Conoco South Robert

DEPTH (ft.)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Light brown fine sand fill		FILL		
	1	SS	Brown fine to medium sand with trace silt and fine gravel. Moist.			9 9 12 8	1
5	2	SS				10 12 15 15	0
	3	SS	Brown fine to medium sand with trace silt and fine gravel. Poorly graded. Moist.		SP	8 10 12 11	2
10	4	SS	Same Soil; moist to very moist. Strong gas oder,			10 11 10 10	200+
	5a	SS				8 12 16 15	200+
	5b	SS	White sandstone. Partially weathered. Moist. Poorly cemented. Strong gas oder				200+
15	6	SS	Brown fine to medium silty sand with trace fine to medium gravel. Wet at 15' Strong gas oder.			3 7 9 6	
	7	SS	Same Soil; wet.			3 3 3 6	130
20			EOB 21' Completed as well.				

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DAHL & ASSOCIATES, INC.

DATE 10-10-89

TIME STARTED 11:00

TIME COMPLETED 1:00

DRILL / CASING B47 4¼ HSA

Environmental Operations,

WATER LEVEL:

- WHILE DRILLING 15'
- AFTER BORING

CAVE-IN DEPTH

Saint Paul, Minnesota

Reference Information:

Dahl Well Number MW-2

Unique Well Number 508906

Date Installed 10/10/89

Driller / Co. PLM/Dahl & Assoc. Inc.

Rig B-47

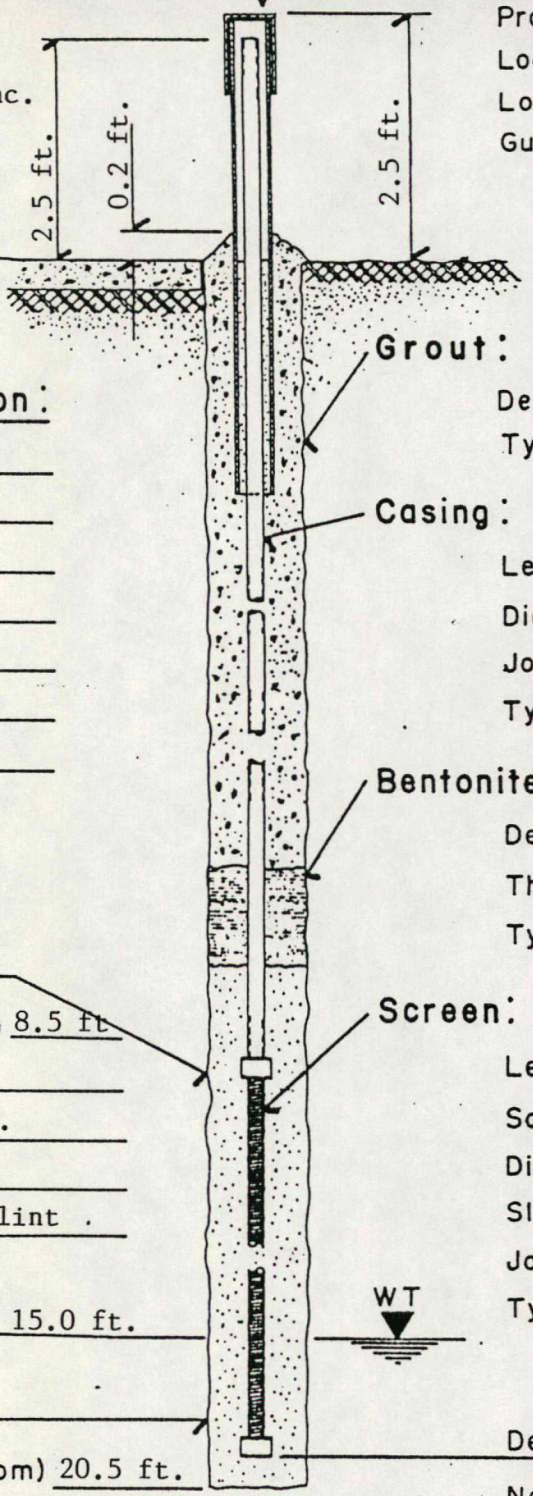
Method H.S.A.

Ground Surface Elev. _____

Water Levels _____

Summary of Construction:

Joint at top of screen.



Above Grade Completion:

Collar and Surface Seal:

Type. Cement

Protective Case. 4" Dia. Stl.

Locking Cover. Stl. Slip

Lock Number. 2121

Guard Post: (Not Shown)

Type 4" Dia x 8 ft stl

Quanity 3

Grout:

Depth (Grade to Top) 0 ft.

Type. Neat Cement

Casing:

Length 13.0 ft.

Diameter 2 inches

Joints. NPT

Type. Sch 40 Galv. Stl.

Bentonite Seal:

Depth (Grade to Top) 6.5 ft.

Thickness 2 ft.

Type. Quick Gel

Well Pack:

Depth (Grade to Top) 8.5 ft

Thickness 12.0 ft.

Above Screen 2.0 ft.

Below Screen None

Type #30 Red Flint

Water Table:

Depth From Grade 15.0 ft.
(While Drilling)

Screen:

Length 10.0 ft.

Screen Interval 10.5 to 20.5 ft.

Diameter 2 inches

Slot Size #10 (0.010 inches)

Joints NPT

Type Cont. Wire Wrap SS
(Western)

Boring:

Depth (Grade to Bottom) 20.5 ft.

Diameter of Hole 8.625 inches

Depth (Grade to Bottom) 20.5 ft.

Note:
Overall Length of
Screen and Casing 23 ft.

DAHL & ASSOCIATES, INC.

Environmental Operations
2303 Wycliff Street
St. Paul, Mn. 55114
Tel. 612 - 644 - 0013

TITLE:

Monitoring Well

AS BUILT

DATE 10/27/89 BY: _____

JOB No. MN601 Dwg. No.

WATER WELL RECORD

Minnesota Statutes 156A.01-.08

MINNESOTA UNIQUE WELL NO. for Water Sample: 508906

1. LOCATION OF WELL

County Name: DAKOTA

Township Name: WEST ST. PAUL | Township Number: 28 N S | Range Number: 17 E W | Section No.: 17 | Fraction: SW SE NW ¼

Numerical Street Address and City of Well Location or Distance from Road Intersection: 1126 So. ROBERT ST. WEST ST. PAUL MN.

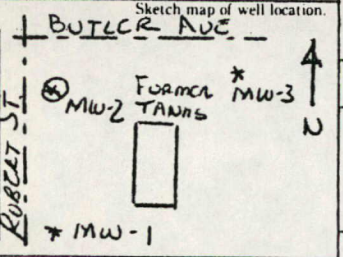
Show exact location of well in section grid with "X." (N, W, E, S, ½ mi., 1 mile)

Addition Name:

Block Number:

Lot Number:

Sketch map of well location.



2. PROPERTY OWNER'S NAME: VALVOLINE/INSTANT OIL CHANGE

Mailing Address if different than property address indicated above: P.O. BOX 1400, LEXINGTON, KY 40512

3. FORMATION LOG	COLOR	HARDNESS OF FORMATION	FROM	TO
[FILL] FINE SAND	LT. BROWN		0	3
[FILL] FINE-MED SAND	BROWN		3	7.5
[SP] MED-SAND	BROWN		7.5	14
[SP] ~~WEA~~ SANDSTONE PARTIALLY WEATHERED	WHITE		14	15
[SM] FINE-MED SILTY SAND.	BROWN		15	21
EOB 21 ft				

Use a second sheet, if needed

4. WELL DEPTH (completed): ~~25~~ 21 ft. | Date of Completion: 10-10-89

5. DRILLING METHOD: ☐ Cable Tool ☐ Reverse ☐ Driven ☐ Dug ☐ Hollow Rod ☐ Air ☐ Bored ☐ _____ ☐ Rotary ☐ Jetted ☒ Power Auger

6. DRILLING FLUID: NOT USED

7. USE: ☐ Domestic ☒ Monitoring ☐ Heat Pump ☐ Irrigation ☐ Public ☐ Industry ☐ Test Well ☐ Municipal ☐ Commercial ☐ Air Conditioning ☐ _____

8. CASING: ☐ Black ☒ Threaded ☒ Galv. ☐ Welded ☐ Plastic ☐ | HEIGHT: Above/Below Surface 2.5 ft. | Drive Shoe? Yes ___ No ☒

2 in. to 10.5 ft. | Weight 3.68 lbs./ft. | HOLE DIAM. 8 5/8 in. to 21.0 ft.

___ in. to ___ ft. | Weight ___ lbs./ft. | ___ in. to ___ ft.

___ in. to ___ ft. | Weight ___ lbs./ft. | ___ in. to ___ ft.

9. SCREEN: Make WESTERN | Or open hole from ___ ft. to ___ ft.

Type CONT. WIRE WRAP SS | Diam. 2 INCHES | Slot/Gauze #10 (0.010 INCHES) | Length 10. Ft | FITTINGS: THREADED

Set between 10.5 ft. and 20.5 ft.

10. STATIC WATER LEVEL: 15.0 ft. ☒ below ☐ above land surface | WHILE DRILLING | Date Measured 10-10-89

11. PUMPING LEVEL (below land surface)

___ ft. after N/A hrs. pumping ___ g.p.m.

___ ft. after ___ hrs. pumping ___ g.p.m.

12. HEAD WELL COMPLETION

☐ Pitless adapter manufacturer ___ Model ___

☐ Basement offset ☒ At least 12" above ground

☐ Plastic casing protection ___

13. WELL GROUTED? ☒ Yes ☐ No

#1 | #2

☒ Neat Cement ☒ Bentonite ☐ _____

Grout material #1 from GRADE to 6.5 ft. cu. yds. ___

#2 from 6.5 to 8.5 ___

14. NEAREST SOURCES OF POSSIBLE CONTAMINATION

50 feet E direction FORMER TANK BASIN type

Well disinfected upon completion? ☐ Yes ☒ No

15. PUMP

Date installed ___ ☒ Not installed

Manufacturer's name ___

Model number ___ HP ___ Volts ___

Length of drop pipe ___ ft. Capacity ___ g.p.m.

Material of drop pipe ___

Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating ☐ Jet ☐ Centrifugal ☐ _____

16. ABANDONED WELLS

Unused well on property? ☐ Yes ☒ No

Sealed ☐ Permanent ☐ Temporary ☐ Not sealed

17. REMARKS, ELEVATION, SOURCE OF DATA, etc. MW-2

DAHL & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

WELL OWNER: CONOCO INC.
ATTN: MR PAUL TAYLOR
P.O. BOX 4784
HOUSTON, TX 77210-4784

MN-601

18. WATER WELL CONTRACTOR CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

DAHL & ASSOCIATES, INC. (License Business Name) 0095 (License No.)

Address 4390 McMENEMY RD. ST PAUL, MN

Signed ___ P.E. (Authorized Representative) Date 10-27-89

DAHL & ASSOCIATES INC (Name of Driller) Date 10-10-89

MINN. DEPT. OF HEALTH COPY 008906

5/74 30M
7/76 30M

Reference Information:

Dahl Well Number MW-3

Unique Well Number 508907

Date Installed 10/10/89

Driller / Co. PLM/Dahl & Assoc.

Rig B-47

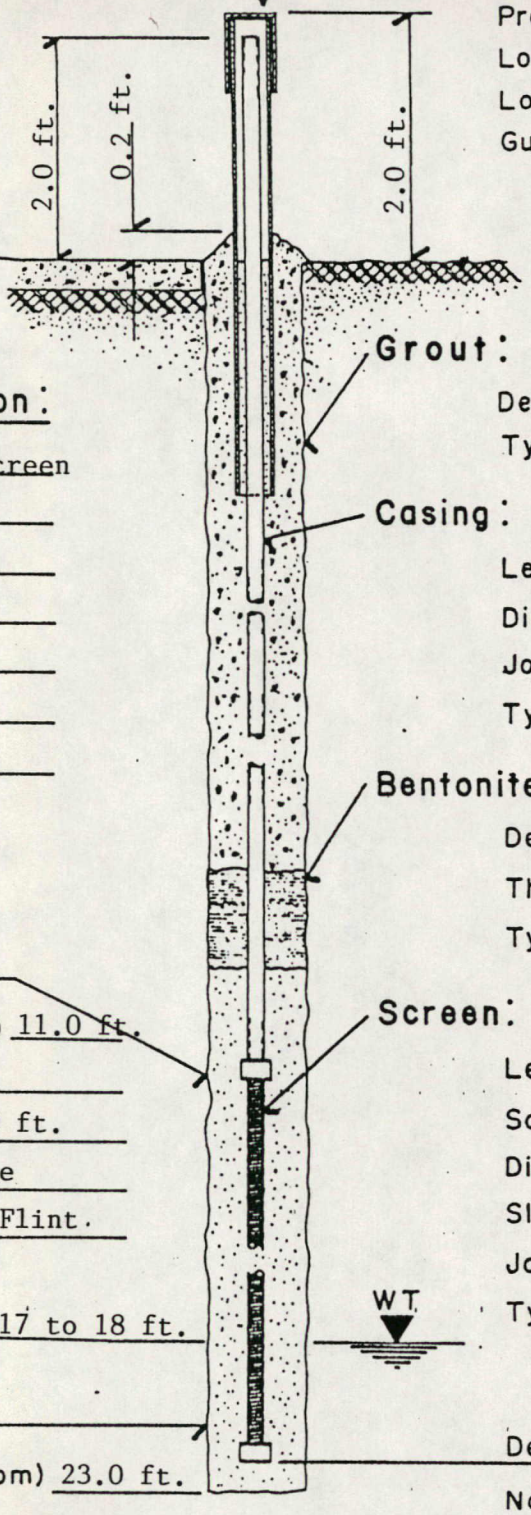
Method H.S.A.

Ground Surface Elev. _____

Water Levels _____

Summary of Construction:

Joint at Top of Screen



Above Grade Completion:

Collar and Surface Seal:

Type. Cement

Protective Case. 4" Dia Stl.

Locking Cover. Stl - Slip

Lock Number. 2121

Guard Post: (Not Shown)

Type 4" dia x 8 ft stl

Quanity 3

Grout:

Depth (Grade to Top) 0

Type. Neat Cement

Casing:

Length 15.0 ft

Diameter 2 inches

Joints. NPT

Type. Sch 40 Low Carbon Stl

Bentonite Seal:

Depth (Grade to Top) 9.0 ft.

Thickness 2.0 ft.

Type. Quick Gel

Well Pack:

Depth (Grade to Top) 11.0 ft.

Thickness 12.0 ft.

Above Screen 2.0 ft.

Below Screen None

Type #30 Red Flint.

Screen:

Length 10.0 ft.

Screen Interval 13.0 to 23.0 ft.

Diameter 2 inches

Slot Size #10 (0.010 inches)

Joints NPT

Type Cont. wire Wrap SS

(Western)

Water Table:

Depth From Grade 17 to 18 ft.
(While Drilling)

Boring:

Depth (Grade to Bottom) 23.0 ft.

Diameter of Hole 8.625 inches

Depth (Grade to Bottom) 23.0 ft.

Note:
Overall Length of
Screen and Casing 25.0 ft.

DAHL & ASSOCIATES, INC.

Environmental Operations
2303 Wycliff Street
St. Paul, Mn. 55114
Tel. 612 - 644 - 0013

TITLE:

Monitoring Well

AS BUILT

DATE 10/27/89 BY: JJ

JOB No. MN 601 Dwg. No.

SOIL BORING DRILL LOG

JOB No. MN 601 BORING No. MW-3

PROJECT. Conoco South Robert

DEPTH (ft.)	SAMPLE No.	SAMPLE TYPE	MATERIAL CLASSIFICATION (UNIFIED CLASSIFICATION SYSTEM)	WATER LEVEL	SOIL CLASS	PENETRATION BLOW COUNTS	HNU READING (ppm)
			Brown fine to medium sand fill with trace fine gravel Moist. Organic first 6".		FILL		
	1	SS				9 11 10 15	0
5							
	2	SS	Brown fine to medium sand fill with little fine to medium gravel. Slightly moist. Hard.			23 24 24 20	0
	3	SS	Dark brown fine to medium sand with little fine to medium gravel, some highly		SP/SW	12 15 15 18	0
10							
	4	SS	weathered. Moist.			24 24 20 15	0
	5	SS	Same Soil; rock at 14.5'. Very moist. Strong gas presence in capillary zone			10 10 6 52	200+
15							
	6	SS	(14-16')			28 11 11 12	
	7	SS	Dark brown fine to medium sand with little fine gravel and trace silt. Wet. Strong gas presence.			6 4 5 7	200+
20							
	8	SS	Red-brown fine to medium sand, trace silt and fine gravel Wet. Moderate gas presence		SP	14 10 9 7	120

DRILLER PM

GEOLOGIST CD

SURFACE ELEVATION

DATE 10-10-89

TIME STARTED 1:30

TIME COMPLETED 3:30

DRILL / CASING B47 4¼ HSA

WATER LEVEL:

- WHILE DRILLING 17'-18'
- AFTER BORING
- CAVE-IN DEPTH

DAHL & ASSOCIATES, INC. Environmental Operations, Saint Paul, Minnesota

EOB 23'

Completed as well.

WATER WELL RECORD

Minnesota Statutes 156A.01 .08

MINNESOTA UNIQUE WELL NO. for Water Sample: 508907

1. LOCATION OF WELL

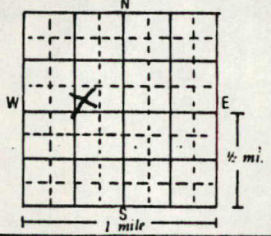
County Name: DAKOTA

Township Name	Township Number	Range Number	Section No.	Fraction
W. ST. PAUL.	28 N/S	22 E/W	17	SW ¼ SE ¼ NW ¼

Numerical Street Address and City of Well Location or Distance from Road Intersection.

1126 So. ROBERT ST. WEST ST. PAUL MN.

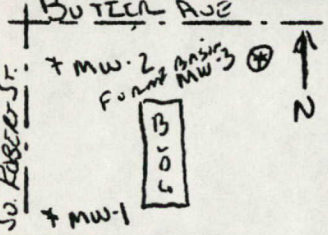
Show exact location of well in section grid with "X." Sketch map of well location.



Addition Name

Block Number

Lot Number



2. PROPERTY OWNER'S NAME

VALVOLINE/INSTANT OIL CHANGE

Mailing Address if different than property address indicated above.

P.O. BOX 1400

LEXINGTON, KY 40512

3. FORMATION LOG	COLOR	HARDNESS OF FORMATION	FROM	TO
[FILL] FINE-MED SAND	BROWN		0	5
[FILL] FINE-MED SAND	BROWN	HARD	5	7.5
[SP/SW] FINE-MED. SAND.	DK BROWN		7.5	17.5
FINE-MED SAND	DK BROWN		17.5	20
[SP] ~~RED~~ FINE-MED SAND	RED BROWN		20	23
EOB 23.0 ft.				

Use a second sheet, if needed

4. WELL DEPTH (completed) 23.0 ft. | Date of Completion:

5. DRILLING METHOD

☐ Cable Tool ☐ Reverse ☐ Driven ☐ Dug
☐ Hollow Rod ☐ Air ☐ Bored ☐ _____
☐ Rotary ☐ Jetted ☒ Power Auger

6. DRILLING FLUID NOT USED

7. USE

☐ Domestic ☒ Monitoring ☐ Heat Pump
☐ Irrigation ☐ Public ☐ Industry
☐ Test Well ☐ Municipal ☐ Commercial
☐ Air Conditioning ☐ _____

8. CASING

☒ Black ☒ Threaded
☐ Galv. ☐ Welded
☐ Plastic ☐

HEIGHT: Above/Below Surface 2.0 ft.
Drive Shoe? Yes ___ No X

2 in. to 13.0 ft. Weight 3.68 lbs./ft.
___ in. to ___ ft. Weight ___ lbs./ft.
___ in. to ___ ft. Weight ___ lbs./ft.

HOLE DIAM.
5 in. 23.0 ft.
___ in. to ___ ft.
___ in. to ___ ft.

9. SCREEN

Make WESTERN
Type CONT. WIRE WRAP SS Diam. 2 INCHES
Slot/Gauze #10 (0.010 IN) Length 10.0 ft
Set between 13.0 ft. and 23.0 ft.
FITTINGS: THREADED

Or open hole from ___ ft. to ___ ft.

10. STATIC WATER LEVEL 17.5 ft. ☒ below ☐ above land surface. WHILE DRILLING. Date Measured 10-10-89

11. PUMPING LEVEL (below land surface)

___ ft. after ___ hrs. pumping ___ g.p.m.
___ ft. after N/A hrs. pumping ___ g.p.m.

12. HEAD WELL COMPLETION

☐ Pitless adapter manufacturer ___ Model ___
☐ Basement offset ☒ At least 12" above ground
☐ Plastic casing protection

13. WELL GROUTED? ☒ Yes ☐ No

#1	#2	☐
☒ Neat Cement	☒ Bentonite	
Grout material #1	from GRADE to 9.0	ft. cu. yds.
#2	9.0 11.0	

14. NEAREST SOURCES OF POSSIBLE CONTAMINATION

40 feet SW direction FORMER TANK BASIN type

Well disinfected upon completion? ☐ Yes ☒ No

15. PUMP

Date installed ___ ☒ Not installed
Manufacturer's name ___
Model number ___ HP ___ Volts ___
Length of drop pipe ___ ft. Capacity ___ g.p.m.
Material of drop pipe ___
Type: ☐ Submersible ☐ L.S. Turbine ☐ Reciprocating
☐ Jet ☐ Centrifugal ☐ ___

16. ABANDONED WELLS

Unused well on property? ☐ Yes ☒ No
Sealed ☐ Permanent ☐ Temporary ☐ Not sealed

17. REMARKS, ELEVATION, SOURCE OF DATA, etc. MW-3

DAHL & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS
WELL OWNER: CONOCO, INC.
ATTN: MR PAUL TAYLOR
P.O. BOX 4784
HOUSTON, TX 77210-4784

MN-601

18. WATER WELL CONTRACTOR CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

DAHL & ASSOCIATES, INC. (Licensee Business Name) 0095 (License No.)
Address 4390 McMENEMY RD. ST. PAUL MN.
Signed ___ P.E. (Authorized Representative) Date 10-27-89
DAHL & ASSOCIATES, INC (Name of Driller) Date 10-10-89

MINN. DEPT. OF HEALTH COPY 008907

5/74 30M
7/76 30M

CHAPTER 115C

PETROLEUM TANK RELEASE CLEANUP ACT

115C.01 CITATION.

Sections 115C.01 to 115C.10 may be cited as the "petroleum tank release cleanup act."

History: *1987 c 389 s 1*

115C.02 DEFINITIONS.

Subdivision 1. **Applicability.** The definitions in this section apply to sections 115C.02 to 115C.10.

Subd. 2. **Agency.** "Agency" means the pollution control agency.

Subd. 3. **Board.** "Board" means the petroleum tank release compensation board.

Subd. 4. **Corrective action.** "Corrective action" means an action taken to minimize, eliminate, or clean up a release to protect the public health and welfare or the environment.

Subd. 5. **Commissioner.** "Commissioner" means the commissioner of the pollution control agency.

Subd. 6. **Fund.** "Fund" means the petroleum tank release cleanup fund.

Subd. 7. **Operator.** "Operator" means a person in control of, or having responsibility for, the daily operation of a tank.

Subd. 8. **Owner.** "Owner" means a person who holds title to, controls, or possesses an interest in a tank. "Owner" does not include a person who holds an interest in a tank solely for financial security, unless through foreclosure or other related actions the holder of a security interest has taken possession of the tank.

Subd. 9. **Person.** "Person" means an individual, partnership, association, public or private corporation, or other legal entity, including the United States government, an interstate commission or other body, the state, or any agency, board, bureau, office, department, or political subdivision of the state.

Subd. 10. **Petroleum.** "Petroleum" means:

(1) gasoline and fuel oil as defined in section 296.01, subdivisions 3 and 4;

(2) crude oil or a fraction of crude oil that is liquid at a temperature of 60 degrees Fahrenheit and pressure of 14.7 pounds per square inch absolute; or

(3) constituents of gasoline and fuel oil under clause (1) and crude oil under clause (2).

Subd. 11. **Political subdivision.** "Political subdivision" means a county, a town, or a statutory or home rule charter city.

Subd. 12. **Release.** "Release" means a spilling, leaking, emitting, discharging, escaping, leaching, or disposing of petroleum from a tank into the environment whether occurring before or after June 4, 1987, but does not include discharges or designed venting allowed under agency rules.

Subd. 13. **Responsible person.** "Responsible person" means a person who is responsible for a release under section 115C.021.

Subd. 14. **Tank.** "Tank" means any one or a combination of containers, vessels,

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and enclosures, including structures and appurtenances connected to them, that is, or has been, used to contain or dispense petroleum.

"Tank" does not include:

(1) a mobile storage tank used to transport petroleum from one location to another; or

(2) pipeline facilities, including gathering lines, regulated under the Natural Gas Pipeline Safety Act of 1968, United States Code, title 49, chapter 24, or the Hazardous Liquid Pipeline Safety Act of 1979, United States Code, title 49, chapter 29.

History: *1987 c 186 s 15; 1987 c 389 s 2; 1988 c 686 art 1 s 57*

115C.021 RESPONSIBLE PERSON.

Subdivision 1. **General rule.** Except as provided in subdivision 2, a person is responsible for a release from a tank if the person is an owner or operator of the tank at any time during or after the release.

Subd. 2. **Exception of certain tank owners.** An owner of a tank is not responsible for a release from the tank if the owner can establish that:

(1) the tank was in place but the owner did not know or have reason to know of its existence at the time the owner first acquired right, title, or interest in the tank; and

(2) the owner did not by failure to report under section 115.061 or other action significantly contribute to the release after the owner knew or reasonably should have known of the existence of the tank.

History: *1988 c 686 art 1 s 58*

115C.03 RESPONSE TO RELEASES.

Subdivision 1. **Corrective action orders.** If there is a release, the commissioner may order a responsible person to take reasonable and necessary corrective actions. The commissioner shall notify the owner of real property where corrective action is ordered to be taken that responsible persons have been ordered to take corrective action and that the owner's cooperation will be required for responsible persons to take that action. When the commissioner has ordered a responsible person to take a corrective action, a political subdivision may not request or order the person to take an action that conflicts with the action ordered by the commissioner.

Subd. 2. **Agency and compelled performance corrective actions.** The agency may take corrective action or request the attorney general to bring an action to compel performance of a corrective action if:

(1) a responsible person cannot be identified;

(2) an identified responsible person cannot or will not comply with the order issued under subdivision 1; or

(3) an administrative or judicial proceeding on an order issued under subdivision 1 is pending.

Subd. 3. **Emergency corrective action.** To assure an adequate response to a release, the commissioner may take corrective action without following the procedures of subdivision 1 if the commissioner determines that the release constitutes a clear and immediate danger requiring immediate action to prevent, minimize, or mitigate damage to the public health and welfare or the environment. Before taking an action under this subdivision, the commissioner shall make all reasonable efforts, taking into consideration the urgency of the situation, to order a responsible person to take a corrective action and notify the owner of real property where the corrective action is to be taken.

Subd. 4. **Release is a public nuisance.** A release is a public nuisance and may be enjoined in an action, in the name of the state, brought by the attorney general.

Subd. 5. **Investigations.** If the commissioner has reason to believe that a release has occurred, the commissioner may undertake reasonable investigations necessary to identify the existence, source, nature, and extent of a release, the responsible persons, and the extent of danger to the public health and welfare or the environment.

Subd. 6. **Duty to provide information.** A person who the commissioner has reason to believe is a responsible person, or the owner of real property where corrective action is ordered to be taken, or who might otherwise have information concerning a release, shall, when requested by the commissioner or any member, employee, or agent of the agency who is authorized by the commissioner, furnish to the commissioner any information that person may have or may reasonably obtain that is relevant to the release.

Subd. 7. **Access to information and property.** The commissioner or any member, employee, or agent of the agency authorized by the commissioner, may, upon presentation of official agency credentials, take any of the following actions:

(1) examine and copy books, papers, records, memoranda, or data of a person who has a duty to provide information to the commissioner under subdivision 6; and

(2) enter upon public or private property for the purpose of taking action authorized by this section, including obtaining information from a person who has a duty to provide the information under subdivision 6, conducting surveys and investigations, and taking corrective action.

Subd. 8. **Classification of data.** Except as otherwise provided in this subdivision, data obtained from a person under subdivision 6 or 7 is public data as defined in section 13.02. Upon certification by the subject of the data that the data relates to sales figures, processes or methods of production unique to that person, or information that would tend to adversely affect the competitive position of that person, the commissioner shall classify the data as private or nonpublic data as defined in section 13.02. Data classified as private or nonpublic under this subdivision may be disclosed when relevant in a proceeding under sections 115C.03 to 115C.10.

History: *1987 c 186 s 15; 1987 c 389 s 3*

115C.04 LIABILITY FOR RESPONSE COSTS.

Subdivision 1. **Corrective action liability.** (a) A responsible person is liable for the cost of the corrective action taken by the agency under section 115C.03, subdivisions 2 and 3, including the cost of investigating the release and administrative and legal expenses, if:

(1) the responsible person has failed to take a corrective action ordered by the commissioner and the agency has taken the action;

(2) the agency has taken corrective action in an emergency under section 115C.03, subdivision 3; or

(3) the agency has taken corrective action because a responsible person could not be identified.

(b) A responsible person is liable for the reimbursement paid by the petroleum tank release compensation board under section 115C.09, subdivision 3a, to the extent the reimbursement is for corrective action that the responsible person could have been ordered to perform under section 115C.03, subdivision 1.

Subd. 2. **Avoidance of liability.** (a) A responsible person may not avoid the liability by means of a conveyance of any right, title, or interest in real property; or by any indemnification, hold harmless agreement, or similar agreement.

(b) This subdivision does not:

(1) prohibit a person who may be liable from entering an agreement by which the person is insured, held harmless, or indemnified for part or all of the liability;

(2) prohibit the enforcement of an insurance, hold harmless, or indemnification agreement; or

(3) bar a cause of action brought by a person who may be liable or by an insurer or guarantor, whether by right of subrogation or otherwise.

Subd. 3. **Agency cost recovery.** Reasonable and necessary expenses incurred by the agency in taking a corrective action, including costs of investigating a release, administrative and legal expenses, and reimbursement costs described in subdivision

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History: *1987*

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History: *1987*

115C.06 EFFEC

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History: *1987*

115C.07 PETRO

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History: *1987*

115C.08 PETRO

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1, paragraph (b), may be recovered in a civil action in district court brought by the attorney general against a responsible person. The agency's certification of expenses is prima facie evidence that the expenses are reasonable and necessary. Expenses that are recovered under this section must be deposited in the fund.

History: *1987 c 186 s 15; 1987 c 389 s 4; 1988 c 683 s 2,3*

115C.05 CIVIL PENALTY.

The agency may enforce section 115C.03 using the actions and remedies authorized under section 115.071, subdivision 3. The civil penalties recovered by the state must be credited to the fund.

History: *1987 c 389 s 5*

115C.06 EFFECT ON OTHER LAW.

Subdivision 1. **Actions under chapter 115B.** Sections 115C.03 to 115C.10 do not limit any actions initiated by the agency under chapter 115B.

Subd. 2. **Duty to notify and take action for release.** Sections 115C.03 to 115C.10 do not limit a person's duty to notify the agency and take action related to a release as provided in section 115.061.

History: *1987 c 389 s 6*

115C.07 PETROLEUM TANK RELEASE COMPENSATION BOARD.

Subdivision 1. **Establishment.** The petroleum tank release compensation board consists of the commissioner of the pollution control agency, the commissioner of commerce, two representatives from the petroleum industry, and one representative from the insurance industry. The governor shall appoint the members from the insurance and petroleum industry. The filling of positions reserved for industry representatives, vacancies, membership terms, payment of compensation and expenses, and removal of members are governed by section 15.0575. The governor shall designate the chair of the board.

Subd. 2. **Staff.** The commissioner of commerce shall provide staff to support the activities of the board.

Subd. 3. **Rules.** (a) The board shall adopt rules regarding its practices and procedures, the form and procedure for applications for compensation from the fund, procedures for investigation of claims and specifying the costs that are eligible for reimbursement from the fund.

(b) The board may adopt emergency rules under this subdivision for one year after June 4, 1987.

History: *1987 c 186 s 15; 1987 c 389 s 7*

115C.08 PETROLEUM TANK RELEASE CLEANUP FUND.

Subdivision 1. **Revenue sources.** Revenue from the following sources must be deposited in the state treasury and credited to a petroleum tank release cleanup fund:

(1) the proceeds of the fee imposed by subdivision 3;

(2) money recovered by the state under sections 115C.04, 115C.05, and 116.491, including administrative expenses, civil penalties, and money paid under an agreement, stipulation, or settlement;

(3) interest attributable to investment of money in the fund;

(4) money received by the board and agency in the form of gifts, grants other than federal grants, reimbursements, or appropriations from any source intended to be used for the purposes of the fund; and

(5) fees charged for the operation of the tank installer certification program established under section 116.491.

Subd. 2. **Imposition of fee.** The board shall notify the commissioner of revenue

if the unexpended balance of the fund falls below $1,000,000, and the commissioner of revenue shall impose the fee established in subdivision 3 on the use of a tank for a 30-day period, within 60 days of receiving notice from the board.

Subd. 3. **Petroleum tank release cleanup fee.** A petroleum tank release cleanup fee is imposed on the use of tanks that contain petroleum products subject to the inspection fee charged in section 296.13. The fee must be collected in the manner provided in sections 296.13 and 296.14. The fee must be imposed as required under subdivision 3, at a rate of $10 per 1,000 gallons of petroleum products as defined in section 296.01, subdivision 2, rounded to the nearest 1,000 gallons. A distributor who fails to pay the fee imposed under this section is subject to the penalties provided in section 296.15.

Subd. 4. **Expenditures.** Money in the fund may only be spent:

(1) to administer the petroleum tank release cleanup program established in sections 115C.03 to 115C.10;

(2) for agency administrative costs under sections 116.46 to 116.50, sections 115C.03 to 115C.06, and costs of corrective action taken by the agency under section 115C.03, including investigations;

(3) for costs of recovering expenses of corrective actions under section 115C.04; and

(4) for training, certification, and rulemaking under sections 116.46 to 116.50.

History: *1987 c 389 s 8*

115C.09 CORRECTIVE ACTION REIMBURSEMENT TO RESPONSIBLE AND OTHER PERSONS.

Subdivision 1. **Reimbursable corrective actions.** The board shall provide partial reimbursement for the cost of corrective action to eligible responsible persons for costs incurred after June 4, 1987.

Subd. 2. **Responsible person eligibility.** (a) A responsible person who has taken corrective action and incurred costs after June 4, 1987, in response to a release, may apply to the board for partial reimbursement under subdivision 3 and rules adopted by the board.

(b) A reimbursement may not be made unless the board determines that:

(1) the commissioner has determined that the corrective action has adequately addressed the release and that the release no longer poses a threat to public health and welfare or the environment;

(2) at the time of the release the tank was in compliance with state and federal rules and regulations applicable to the tank, including rules or regulations relating to financial responsibility;

(3) the agency was given notice of the release as required by section 115.061;

(4) the responsible person, to the extent possible, fully cooperated with the agency in responding to the release; and

(5) if the responsible person is an operator, the person exercised due care with regard to operation of the tank, including maintaining inventory control procedures.

Subd. 3. **Reimbursement.** (a) The board shall reimburse a responsible person who is eligible under subdivision 2 from the fund for 75 percent of the portion of the total corrective action costs greater than $10,000 and less than $100,000.

(b) A reimbursement may not be made from the fund under this subdivision until the board has determined that the costs for which reimbursement is requested were actually incurred and were reasonable.

(c) Money in the fund is appropriated to the board to make reimbursements under this section.

Subd. 3a. **Eligibility of other persons.** Notwithstanding the provisions of subdivi-

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sions 1 to 3, the board shall provide full reimbursement to a person who has taken corrective action if the board determines that:

(1) the person took the corrective action in response to a request or order of the commissioner made under this chapter;

(2) the commissioner has determined that the person was not a responsible person under section 115C.02; and

(3) the costs for which reimbursement is requested were actually incurred and were reasonable.

Subd. 4. **Reimbursement does not affect other liability.** The right to apply for reimbursement and the receipt of reimbursement does not limit the liability of a responsible person for damages or costs incurred by a person or the state as a result of a release.

History: *1987 c 186 s 15; 1987 c 389 s 9; 1988 c 683 s 4-6*

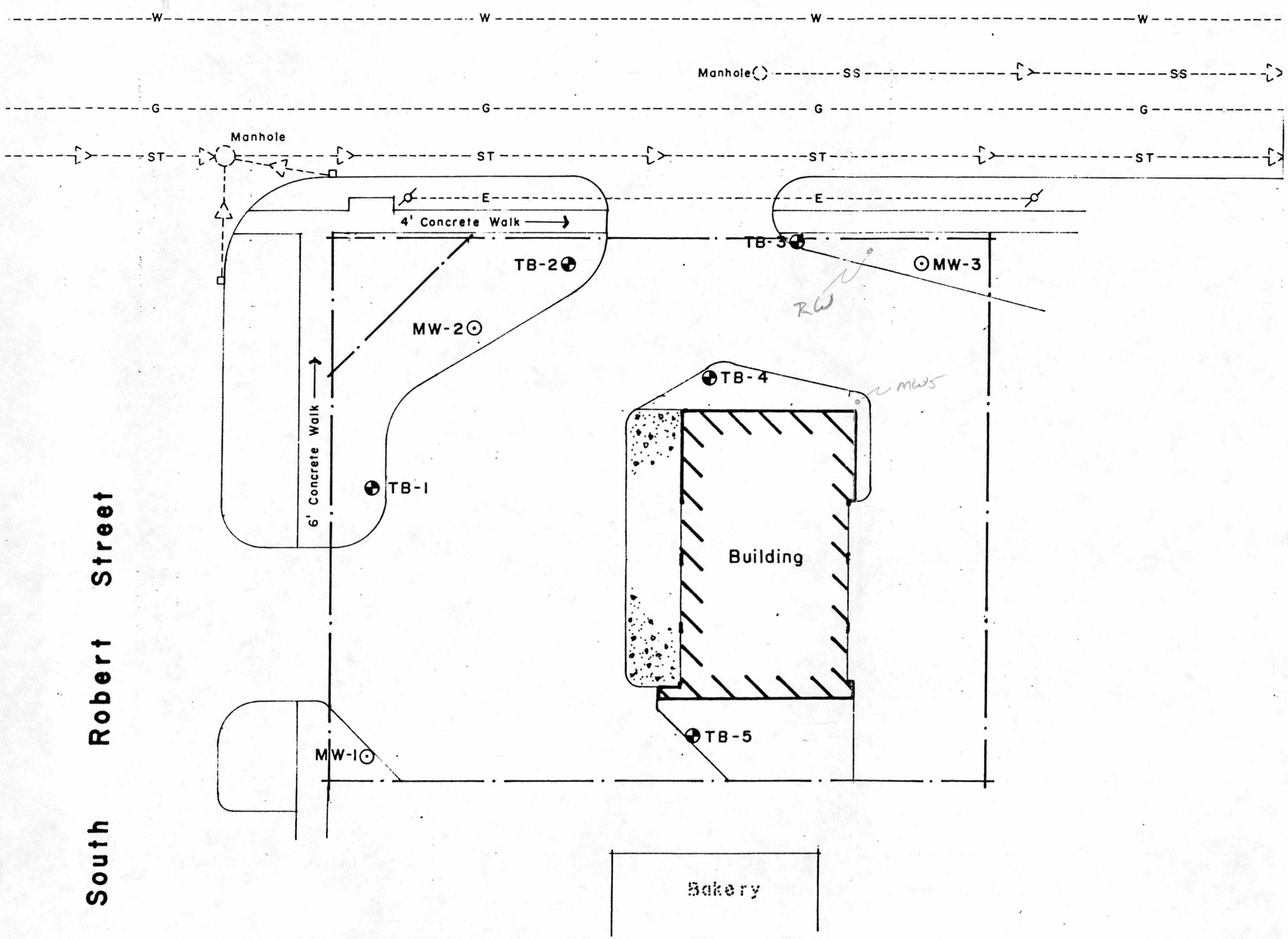
115C.10 FUNDING OF AGENCY ACTIONS.

Subdivision 1. **Payment from the fund.** (a) If the cost of authorized actions under section 115C.03 exceeds the amount appropriated to the agency for the actions and amounts awarded to the agency from the federal government, the agency may apply to the board for money to pay for the actions from the fund. The board shall pay the agency the cost of the proposed actions under section 115C.03 if the board finds that the conditions for the agency to be paid from the fund have been met, and that an adequate amount exists in the fund to pay for the corrective action.

(b) Money in the fund is appropriated to the board for the purpose of this subdivision.

Subd. 2. **Federal funds.** The commissioner shall take actions needed to obtain federal funding to carry out the provisions of the petroleum tank release cleanup act.

History: *1987 c 186 s 15; 1987 c 389 s 10*



NOTE:

This drawing (including property lines, structures, and locations of buried utilities) is not exact. For precise locations, consult a registered land surveyor and appropriate utility company.

NORTH	SCALE
	10' 0' 20' FEET

Explanation

⊙MW Monitoring Well

TB Test Boring

4390 McMenemy Road
Saint Paul, MN. 55127
Telephone (612) 490-2905

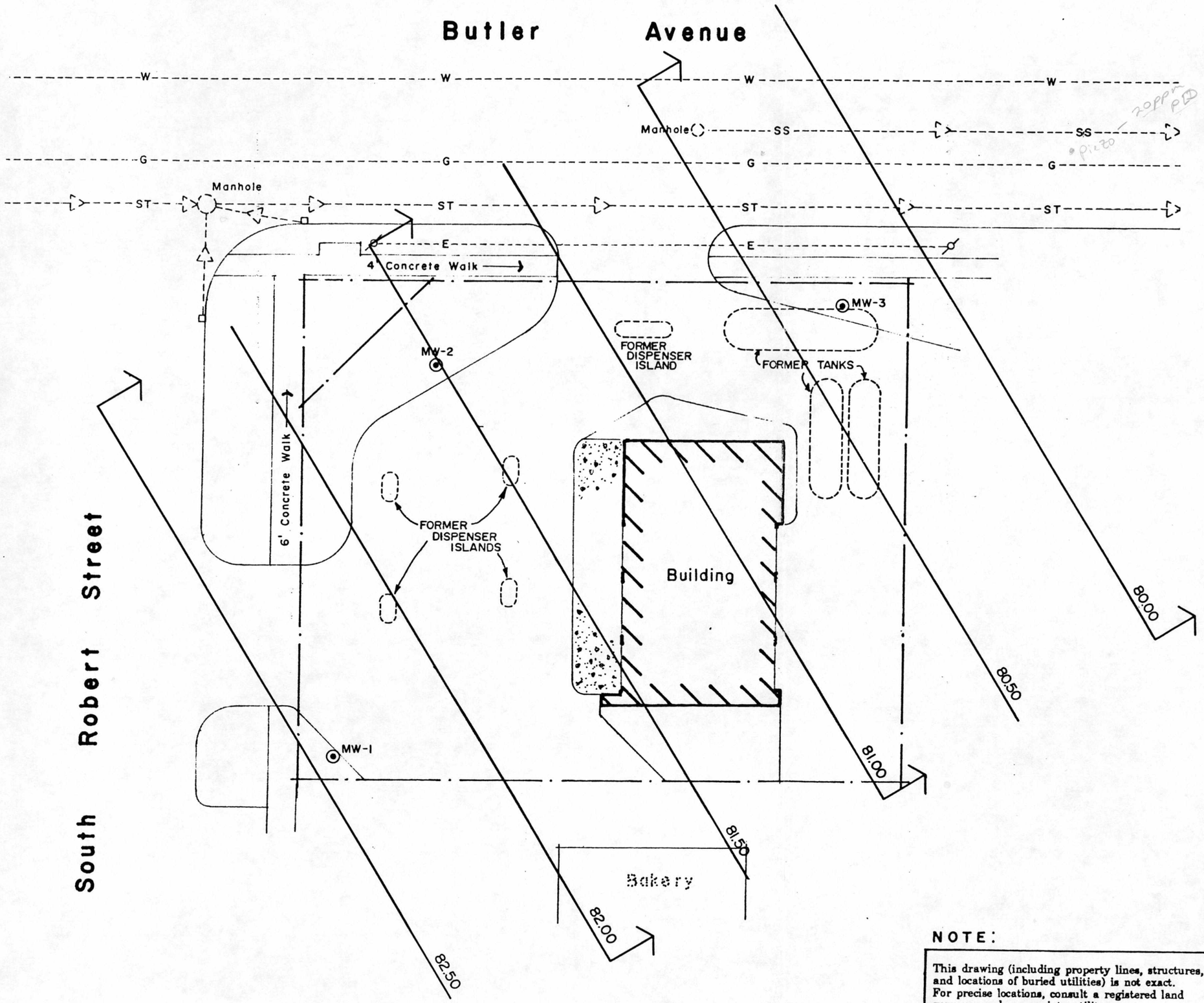
DAHL & ASSOCIATES, INC.
Environmental Operations
Consultants, Contractors & Engineers.

T.B. and M.W. Site Map

Conoco Inc.
West St. Paul, Minnesota

Dahl Standard Number:

Date Drawn	8-18-89	Drawn By	Jack A.	Approved By	D.W.
Project Number	MN-601	Drawing Number	B-03-A	Figure Number	



NORTH

SCALE

10'

0' 20'

FEET

Explanation

⊙MW MONITORING WELL

* ASSUMED DATUM

NOTE:

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GROUNDWATER GRADIENT MAP

Conoco Inc.
West St. Paul, Minnesota

Dahl Standard Number:					
Date Drawn	8-18-89	Dr[illegible]	RON D.	Approved By	
Project Number	MN-601	[illegible]ber	B-04-A	Figure Number	