



## Minnesota Pollution Control Agency

Preliminary Assessment  
Executive Summary  
Soo Line Disposal Site

### Situation

The Soo Line Disposal Site (Site) in Minneapolis, Minnesota represents approximately three acres of the Soo Line Shoreham Car Shop facility. This Site was used as an on-site solid waste disposal area. Aerial photographs confirm that landfilling of the low laying area continued regularly from 1940 to 1969. The Soo Line Shoreham facility is involved with locomotive heavy repair and freight car repair. These repairs include changing oil, painting and degreasing processes. Based on similar railroad facilities throughout the state, it is presumed that waste streams of chlorinated solvents, non chlorinated solvents, journal oils and diesel fuels have been generated throughout the facilities history.

This Site was brought to the Minnesota Pollution Control Agency's (MPCA) staff attention via the "hotline complaint" system. Numerous complaints were filed with the MPCA in the early 1970's alleging hazardous substances were being landfilled at the Site. Responding to correspondence initiated by the MPCA, Soo Line indicated that 21 yards<sup>3</sup> of paper, rags, sand, dirt, wood and oil filters were disposed of at the Site daily. Soo Line denied however that any hazardous substances were disposed of on Site.

The St. Anthony municipal well system is located within three (3) miles of this Site. Regional ground water flow is westward toward the Mississippi River. Minnesota Geologic Survey well logs indicate varying subsurface geologic conditions in which differential localized flow is probable. Minnesota Health Department Lab analysis indicates contamination of trichloroethylene and 1,2, dichloroethylene in one of the St. Anthony wells.

### Inspection Priority

The MPCA staff have conducted a Preliminary Assessment for the Soo Line Disposal Site. Based on the potential for ground water contamination and the existence of a contaminated municipal well within a two (2) mile radius of the Site, the MPCA staff believes this Site should receive a medium inspection priority.

Phone: \_\_\_\_\_

520 Lafayette Road, St. Paul, Minnesota 55155  
Regional Offices • Duluth/Brainerd/Detroit Lakes/Marshall/Rochester  
Equal Opportunity Employer



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT**

**I. IDENTIFICATION**

01 STATE: MND 02 SITE NUMBER: 782074585

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site) Soo Line Disposal Site		02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER 2800 Central Ave N.E			
03 CITY Minneapolis	04 STATE MN	05 ZIP CODE 55440	06 COUNTY Hennepin	07 COUNTY CODE 053	08 CONG DIST 05
09 COORDINATES LATITUDE 45 01' 25"		LONGITUDE 93 15' 00"			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
S.W. corner of Central Ave and St. Anthony Blvd. in Columbia Heights  
Just south of Columbia Heights Municipal Golf Course

**III. RESPONSIBLE PARTIES**

01 OWNER (If known) Soo Line Railroad		02 STREET (Business, making residential) 2800 Central Ave.			
03 CITY minneapolis	04 STATE MN	05 ZIP CODE 55440	06 TELEPHONE NUMBER (612) 782-4535		
07 OPERATOR (If known and different from owner) MR. R. Robertson General Manager Locomotive Shop		08 STREET (Business, making residential) 2800 Central Ave N.E			
09 CITY Minneapolis	10 STATE MN	11 ZIP CODE 55440	12 TELEPHONE NUMBER (612) 782-4535		

13 TYPE OF OWNERSHIP (Check one):  
 A. PRIVATE     B. FEDERAL: \_\_\_\_\_ (Agency name)     C. STATE     D. COUNTY     E. MUNICIPAL  
 F. OTHER: \_\_\_\_\_ (Specify)     G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply):  
 A. RCRA 3001 DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     C. NONE

**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 ON SITE INSPECTION  
 YES DATE 02 27 86 MONTH DAY YEAR (RCRA)  
 NO  
 BY (Check all that apply):  
 A. EPA     B. EPA CONTRACTOR     C. STATE     D. OTHER CONTRACTOR  
 E. LOCAL HEALTH OFFICIAL     F. OTHER: \_\_\_\_\_ (Specify)  
 CONTRACTOR NAME(S): \_\_\_\_\_

02 SITE STATUS (Check one):  
 A. ACTIVE     B. INACTIVE     C. UNKNOWN  
 03 YEARS OF OPERATION: unc BEGINNING YEAR    active ENDING YEAR     UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
 Disclosed in Sept. 7, 1973 21 yards<sup>3</sup> paper, rags, sand, dirt, wood, oil filters.  
 Assumed: paint waste    degreasers    solvents  
                   oil slugs            LIME

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
 groundwater (Environmental / Population)

**V. PRIORITY ASSESSMENT**

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents):  
 A. HIGH (Inspection required promptly)     B. MEDIUM (Inspection required)     C. LOW (Inspect on time available basis)     D. NONE (No further action needed, complete current disposition form)

**VI. INFORMATION AVAILABLE FROM**

01 CONTACT DAVE Koubsky		02 OF (Agency/Organization) MPCA		03 TELEPHONE NUMBER (612) 296-7735	
04 PERSON RESPONSIBLE FOR ASSESSMENT SAME		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER ( )	08 DATE 06 13 88 MONTH DAY YEAR





**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION**

**I. IDENTIFICATION**

01 STATE: MND 02 SITE NUMBER: 982074585

**II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS**

**01 PHYSICAL STATES** (Check all that apply)

- A SOLID  
 B POWDER, FINES  
 C SLUDGE  
 D OTHER \_\_\_\_\_ (Specify)
- E SLURRY  
 F LIQUID  
 G GAS

**02 WASTE QUANTITY AT SITE**  
(Measures of waste quantities must be independent)

TONS \_\_\_\_\_  
 CUBIC YARDS UNK  
 NO OF DRUMS \_\_\_\_\_

**03 WASTE CHARACTERISTICS** (Check all that apply)

- A TOXIC  
 B CORROSIVE  
 C RADIOACTIVE  
 D PERSISTENT
- E SOLUBLE  
 F INFECTIOUS  
 G FLAMMABLE  
 H IGNITABLE
- I HIGHLY VOLATILE  
 J EXPLOSIVE  
 K REACTIVE  
 L INCOMPATIBLE  
 M NOT APPLICABLE

**III. WASTE TYPE**

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
<u>OLW</u>	OILY WASTE	<u>unk</u>		<u>oil filters</u>
SOL	SOLVENTS	<u>unk</u>		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	<u>unk</u>		
IOC	INORGANIC CHEMICALS	<u>unk</u>		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	<u>unk</u>		

**IV. HAZARDOUS SUBSTANCES** (See Appendix for most frequently cited CAS Numbers) (Compounds from analysis)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	<u>No Sampling Data</u>	<u>* Below is a</u>	<u>list of waste recorded from 2-86</u>	<u>inspection</u>	<u>*</u>
<u>OLW</u>	<u>Crankcase Oil</u>	<u>110,000 gal/yr</u>			
<u>BAS</u>	<u>Alkaline Cleaners</u>	<u>150 gal/yr</u>			
<u>SOL</u>	<u>Stoddard Solvent</u>	<u>1925 gal/yr</u>			
	<u>Industrial names</u>				
	<u>E+H Karbite</u>	<u>500 gal/yr</u>			
	<u>Sprex AC</u>	<u>31,200 gal/yr</u>			
	<u>Oakite 100</u>	<u>21,000 gal/yr</u>			
	<u>Freemont 38</u>	<u>4080 gal/yr</u>			
	<u>Oakite 32</u>	<u>1884 gal/yr</u>			
	<u>6 Diesel Fuel tanks cap.</u>	<u>425,000 gal</u>			
	<u>Lead</u>		<u>Analysis of Gear Case Sludge</u>	<u>194</u>	<u>PPM</u>
	<u>Lead</u>		<u>Analysis of Truck Wash Sludge</u>	<u>477</u>	<u>PPM</u>
	<u>Chromium</u>		<u>"</u>	<u>104</u>	<u>PPM</u>

**V. FEEDSTOCKS** (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

**VI. SOURCES OF INFORMATION** (Cite specific references, e.g., state files, sample analysis reports)

open Dump Inventory Files : MPCA Solid waste Files  
RCRA Files : MPCA Hazardous waste Files



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**

**PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS**

**I. IDENTIFICATION**

01 STATE: MND 02 SITE NUMBER: 982074585

**II. HAZARDOUS CONDITIONS AND INCIDENTS**

01  **A. GROUNDWATER CONTAMINATION** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: 7,981 04 NARRATIVE DESCRIPTION:  
 St. Anthony has 3 municipal wells that draw water from the Jordan S.S. One of the wells has detectable quantities of TCE contamination, underlying strata in the vicinity of the site is hydraulically connected with the Jordan S.S. It's possible that this site is contributing to the well contamination.

01  **B. SURFACE WATER CONTAMINATION** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: UNK 04 NARRATIVE DESCRIPTION:  
 The Mississippi River is located ~6000 feet west of the site. A mpls. drinking water intake is located approximately one mile upstream. Limited recreation use takes place along this area of the river.

01  **C. CONTAMINATION OF AIR** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION:  
 UNKNOWN

01  **D. FIRE/EXPLOSIVE CONDITIONS** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION:  
 No. MPCA RCRA Inspection 2-27-88 indicated no explosive condition or incompatible waste were observed.

01  **E. DIRECT CONTACT** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION:  
 UNKNOWN

01  **F. CONTAMINATION OF SOIL** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 AREA POTENTIALLY AFFECTED: 3 04 NARRATIVE DESCRIPTION:  
 (Acres)  
 Aerial photos indicate dumping activity between 1940 and 1969. Hot line complaints allege illegal dumping occurred frequently.

01  **G. DRINKING WATER CONTAMINATION** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: 7,981 04 NARRATIVE DESCRIPTION:  
 The potential exist that unauthorized dumping may be contributing to municipal well water contamination in st. Anthony

01  **H. WORKER EXPOSURE/INJURY** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION:  
 UNKNOWN

01  **I. POPULATION EXPOSURE/INJURY** 02  OBSERVED (DATE \_\_\_\_\_)  POTENTIAL  ALLEGED  
 03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION:  
 UNKNOWN





**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
MND	982074585

**II. HAZARDOUS CONDITIONS AND INCIDENTS** (Continued)

01  J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

None observed

01  K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

None observed

01  L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

UNKNOWN

01  M. UNSTABLE CONTAINMENT OF WASTES  
(Spills, runoff/standing liquids/leaking drums)  
03 POPULATION POTENTIALLY AFFECTED \_\_\_\_\_

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

04 NARRATIVE DESCRIPTION

None observed

01  N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

UNKNOWN

01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE 3-21-88)     POTENTIAL     ALLEGED

metro waste commission sampled sewage effluent leaving the site.  
Laboratory analysis indicated 1000 ppm 1,1,1 trichloroethane

01  P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE \_\_\_\_\_)     POTENTIAL     ALLEGED

Numerous hot line complaints alleged illegal dumping took place at the site. Aerial photographs confirm land filling of a marsh area between 1940 and at least 1969. Company officials deny any illegal dumping occurred on site.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

This Preliminary Assessment addresses a small area of the shoreham yards car shop property that was allegedly used as a dumping area for the sootline operation. It does not address any portion or operation of the remaining property.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 10,000

**IV. COMMENTS**

waste type generation on page 2 is based on inspection data obtained from a RCRA site inspection 2-27-86. The inspection also (RCRA, mwcc) indicated an inadequate waste collection system. This resulted in TCE and oil sludge release to the sewer system.

**V. SOURCES OF INFORMATION** (Cite specific references, e.g. state files, sample analysis reports)

MPCA files - Open dump Inventory, Hazardous waste enforcement  
Minnesota Geologic Survey well logs - Aerial photographs,  
Minnesota Health Department water supply data and VOA study  
USGS Quad maps

REGION V FIT - PA DOCUMENTATION PACKAGE

SITE NAME Soo Line Disposal Site AKA(S) Shoreham Shops

ADDRESS 2800 Central Ave N.E.

CITY Minneapolis STATE Minnesota ZIP 55410 COUNTY Hennepin

USEPA IDENTIFICATION NUMBER MND006962641 - Haz waste File ID # MND980798319 - Soolines  
MND982074585 - CERCLIS ID # Files ID #.

DOES THE FACILITY HAVE A RCRA PERMIT YES NT NO  UNKNOWN

IF THE FACILITY HAS A RCRA PERMIT, DOES IT COVER ALL EXISTING AND FORMER WASTE STORAGE, TRANSPORT, AND/OR DISPOSAL ACTIVITIES AT THE FACILITY YES  NO  UNKNOWN   
 IF NO, DESCRIBE WHAT AREAS ARE NOT COVERED \_\_\_\_\_

POTENTIAL SOURCES OF INFORMATION

	USED	NOT USEFUL	NOT AVAILABLE
1) STATE HAZARDOUS/SOLID WASTE FILES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) STATE WATER FILES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) STATE AIR FILES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) STATE DEPARTMENT OF HEALTH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) STATE GEOLOGICAL SURVEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) STATE DEPARTMENT OF NATURAL RESOURCES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) STATE FIRE MARSHALL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8) COUNTY DEPARTMENT OF HEALTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) COUNTY ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) COUNTY CLERK/RECORDER OF DEEDS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) CITY DEPARTMENT OF HEALTH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12) CITY ENGINEER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) CITY FIRE DEPARTMENT/FIRE MARSHALL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14) CITY WATER/SEWER DEPARTMENT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15) U.S. SOIL CONSERVATION SERVICE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) OTHERS			
<u>Open Dump Inventory Files</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Aerial photographs</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Hot Line Complaints</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Metro Waste Commission</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MPCA PREPARER David Koubsky

DATE 6-8-88



III. WASTE TYPE				SOURCES		
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SILU	SILURIC					
OLW	OILY WASTE					
SOL	SOLVENTS					
PSD	PLASTIC OILS					
OCC	OTHER ORGANIC CHEMICALS					
IOC	INORGANIC CHEMICALS					
ACD	ACIDS					
RIAS	RESIDUES					
MFS	HEAVY METALS					
IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently used CAS Numbers)						
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION	SOURCES
			SEE PA			
V. FEEDSTOCKS (See Appendix for CAS Numbers)						
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	SOURCES
FDS			FDS			
FDS			FDS			
FDS			FDS			
FDS			FDS			

WASTE CALCULATION PAGE



A) GROUNDWATER CONTAMINATION

A.1 MONITORING WELLS YES \_\_\_\_\_ NO X UNKNOWN \_\_\_\_\_ NUMBER OF WELLS \_\_\_\_\_

A.2 MONITORING WELLS CONTAMINATED YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN X

A.3 PRIVATE, PUBLIC, AND/OR COMMERCIAL WELLS CONTAMINATED YES X NO \_\_\_\_\_

A.4 TYPE(S) OF CONTAMINATION Trichloroethylene and 1,1-dichloroethylene have been detected in one of four municipal wells serving St. Anthony.

A.5 BACKGROUND WELL AVAILABLE YES X NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_ (uncontaminated Municipal wells)

A.6 IF NO RECORDED CONTAMINATION, IS THERE A POTENTIAL YES \_\_\_\_\_ NO \_\_\_\_\_ WHY? \_\_\_\_\_

A.7 GROUNDWATER USED FOR DRINKING WATER YES X NO \_\_\_\_\_

A.8 DISTANCE TO NEAREST WELL 9,000 FEET

A.9 ESTIMATE OF THE POPULATION ON GROUNDWATER IN A THREE MILE RADIUS OF THE SITE  
11,981 Population St Anthony 7981 - 2000 from Fridley - 2000 from New Brighton

A.10 TYPES OF AQUIFERS

TYPE	THICKNESS	DEPTH	AQUIFER OF CONCERN	CONTAMINATED
Interbedded glacial sand and clay	180	180'	No. However 3 water sand units are present	UNK
Prairie Du Chien	170	300	shakopee	
Jordan SS	unk	350+	yes.	yes

A.11 DOES SITE GEOLOGY PREVENT THE MIGRATION OF CONTAMINANTS TO UNDERLYING AQUIFERS YES \_\_\_\_\_ NO ✓ UNKNOWN \_\_\_\_\_ IF YES, WHY The local clay lenses are not continuous through out the area. Hydrologic studies conducted for FMC indicate there is a hydrologic connection between the glacial drift and the OPDC/CJDN

A.12 DOES THE CONTAINMENT PROCEDURES UTILIZED AT THE FACILITY PREVENT THE MIGRATION OF CONTAMINANTS TO UNDERLYING AQUIFERS YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_ IF YES, WHY \_\_\_\_\_

SOURCES: 1A, 1B, 2, 3, 4, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

B) SURFACE WATER CONTAMINATION

B.1 TYPE OF NEARBY SURFACE WATER(S):  
 CREEK \_\_\_\_\_, STREAM \_\_\_\_\_, AND/OR RIVER X (CONTINUOUSLY FLOWING)  
 POND \_\_\_\_\_, LAKE \_\_\_\_\_, AND/OR SWAMP/MARSH \_\_\_\_\_

B.2 DISTANCE TO THE NEAREST SURFACE WATER 6000 FEET

B.3 DOES SURFACE TOPOGRAPHY PREVENT THE MIGRATION OF CONTAMINANTS TO THE SURFACE WATER(S) YES \_\_\_\_\_ NO X. IF YES, WHY \_\_\_\_\_

B.4 USAGE OF SURFACE WATER  
 DRINKING WATER YES X NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_  
 IRRIGATION YES \_\_\_\_\_ NO \_\_\_\_\_ UNKNOWN X  
 RECREATION YES X NO \_\_\_\_\_ UNKNOWN \_\_\_\_\_

B) SURFACE WATER CONTAMINATION (CONTINUED)

- B.5 SURFACE WATER CONTAMINATED YES  NO  UNKNOWN
- B.6 TYPE(S) OF CONTAMINATION AND DATE Analysis of intake waters at the mpls pumping station up stream from 500 line indicate trace levels of trichloroethene. Since 500 line is down gradient from the pumping station
- B.7 IF NO RECORDED CONTAMINATION, IS THERE A POTENTIAL YES  NO  WHY? B.6 continued: it is not suspected of being responsible for the TCE detected there.
- B.8 DISTANCE TO NEAREST DRINKING WATER INTAKE WITHIN THREE MILES: 1 3/4 MILE(S) (upstream)
- B.9 ESTIMATE OF POPULATION USING SURFACE WATER 500,000, INTAKES WITHIN THREE MILES OF THE SITE.
- B.10 IS THERE A WILDLIFE PRESERVE (5 ACRE MINIMUM) WHICH COULD BE CONTAMINATED YES  NO
- B.11 ARE THERE FEDERALLY ENDANGERED SPECIES PRESENT YES  NO  UNKNOWN

SOURCES: 1A, 1b, 1, 3, 9, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

C) CONTAMINATION OF AIR

- C.1 CITIZEN COMPLAINTS YES  NO  DATE(S) \_\_\_\_\_ NATURE OF COMPLAINT \_\_\_\_\_
- C.2 AIR PROBLEMS AS CONFIRMED BY LOCAL, STATE, AND/OR FEDERAL INVESTIGATORS YES  NO  DATE(S) \_\_\_\_\_ DESCRIPTION OF EVENT AND METHODOLOGY USED \_\_\_\_\_
- C.3 IF NO CONFIRMED RELEASES, IS THERE A POTENTIAL YES  NO  IF YES, WHY \_\_\_\_\_
- C.4 ESTIMATE OF POPULATION WITHIN A FOUR MILE RADIUS \_\_\_\_\_

SOURCES: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

D) FIRE/EXPLOSIVE CONDITIONS

- D.1 HAS A STATE AND/OR LOCAL FIRE MARSHAL CERTIFIED THAT THE SITE IS A FIRE HAZARD OR PRESENTS A EXPLOSION THREAT YES  NO  DATE \_\_\_\_\_ AGENCY \_\_\_\_\_ DESCRIPTION OF EVENT \_\_\_\_\_
- D.2 INCOMPATIBLE WASTES PRESENT YES  NO  UNKNOWN
- D.3 IGNITABLE WASTES PRESENT YES  NO  UNKNOWN
- D.4 IF NO CONFIRMED THREAT, IS THERE A POTENTIAL THREAT YES  NO  UNKNOWN  NATURE OF THE POTENTIAL THREAT \_\_\_\_\_
- D.5 DISTANCE TO NEAREST POPULATION \_\_\_\_\_ FEET
- D.6 ESTIMATE OF POPULATION WITHIN TWO MILES \_\_\_\_\_
- D.7 DISTANCE TO NEAREST BUILDING \_\_\_\_\_ FEET

SOURCES: 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_



E) DIRECT CONTACT

- E.1 IS SITE ACCESS RESTRICTED TO NON-FACILITY PERSONNEL YES  NO  UNKNOWN  IF YES, METHOD \_\_\_\_\_
- E.2 HAVE AND/OR CAN NON-FACILITY PERSONNEL COME EASILY INTO CONTACT WITH HAZARDOUS MATERIAL AT THE FACILITY YES  NO  IF YES, HOW unknown
- E.3 ARE WASTES PROPERLY CONTAINED AT THE FACILITY YES  NO  UNKNOWN
- E.4 ESTIMATE OF THE NUMBER OF INDIVIDUALS WITH ONE MILE OF THE FACILITY \_\_\_\_\_
- E.5 AS A RESULT OF RECREATIONAL ACTIVITIES, IS DIRECT CONTACT POSSIBLE YES  NO  UNKNOWN

SOURCES: 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

F) CONTAMINATION OF SOIL

- F.1 ANALYTICAL DATA YES  NO  IF YES, DATE AND TYPE OF CONTAMINATION \_\_\_\_\_
- F.2 PHOTOGRAPHIC EVIDENCE TO INDICATE CONTAMINATION YES  NO  IF YES, DATE AND DESCRIPTION \_\_\_\_\_
- F.3 IF NO TO F.1 AND F.2, IS THERE A POTENTIAL YES  NO  UNKNOWN   
IF YES, DESCRIBE Aerial photos indicate active dumping from 1940 to 1963. Potential contamination is based on numerous complaint calls received by Dick Kable (mid 70's) and the nature of operation of car shops in general.
- F.4 AREA AFFECTED OR POTENTIALLY AFFECTED 3 ACRE(S)

SOURCES: 1A, 1B, 5, 10, \_\_\_\_\_, \_\_\_\_\_

G) DRINKING WATER CONTAMINATION

SEE SECTIONS A AND B

- G.1 TOTAL POPULATION POTENTIALLY AFFECTED 7981 (NOT DOUBLE COUNTED)

SOURCES: SEE SECTIONS A AND B

H) WORKER EXPOSURE/INJURY

- H.1 DO SITE CONDITIONS THREATEN FACILITY WORKER AND/OR WORKERS AT ADJACENT FACILITIES YES  NO  UNKNOWN  IF YES, DESCRIBE \_\_\_\_\_
- H.2 HAS THERE BEEN DOCUMENTED PROBLEMS YES  NO  UNKNOWN  IF YES, DESCRIBE \_\_\_\_\_
- H.3 ESTIMATE OF WORKER POPULATION AFFECTED OR POTENTIALLY AFFECTED 20

SOURCES: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

I) POPULATION EXPOSURE/INJURY

I.1 DO SITE CONDITIONS THREATEN NEARBY POPULATION YES \_\_\_ NO \_\_\_ UNKNOWN   
IF YES, DESCRIBE (INCLUDE DATES OF EXPOSURE) \_\_\_\_\_

I.2 AS A RESULT OF RECREATIONAL ACTIVITIES, IS POPULATION EXPOSURE/INJURY POSSIBLE  
YES \_\_\_ NO  UNKNOWN \_\_\_ IF YES, DESCRIBE \_\_\_\_\_

*Although adjacent to a city park a fairly steep slope isolates the area. Nettles make up the vegetation surrounding the north side of the dump. This would isolate the area from hikers*

I.3 POPULATION AFFECTED OR POTENTIALLY AFFECTED - SAME AS TOTAL POPULATION EXPOSED

SOURCES: \_\_\_\_\_

*↳ site visit*

J) DAMAGE TO FLORA

J.1 OBSERVED OCCURRENCES OF DAMAGE YES \_\_\_ NO \_\_\_ UNKNOWN  IF YES, DATE  
AND EXTENT OF DAMAGE \_\_\_\_\_

J.2 IF NO OR UNKNOWN IN J.1, IS THERE A POTENTIAL FOR SUCH AN OCCURRENCE YES \_\_\_  
NO \_\_\_ UNKNOWN \_\_\_ IF YES, DESCRIBE POTENTIAL \_\_\_\_\_

SOURCES: \_\_\_\_\_

K) DAMAGE TO FAUNA

K.1 OBSERVED OCCURRENCES OF DAMAGE YES \_\_\_ NO \_\_\_ UNKNOWN  IF YES, DATE  
AND EXTENT OF DAMAGE \_\_\_\_\_

K.2 IF NO OR UNKNOWN TO K.1, IS THERE A POTENTIAL FOR SUCH AN OCCURRENCE YES \_\_\_  
NO \_\_\_ UNKNOWN \_\_\_ IF YES, DESCRIBE POTENTIAL \_\_\_\_\_

SOURCES: \_\_\_\_\_

L) CONTAMINATION OF FOOD CHAIN

L.1 HAVE GRAIN CROPS BEEN IMPACTED YES \_\_\_ NO \_\_\_ UNKNOWN

L.2 HAVE LIVESTOCK (CATTLE, CHICKENS, etc.) BEEN IMPACTED YES \_\_\_ NO   
UNKNOWN \_\_\_

L.3 IF YES TO L.1 AND/OR L.2, DESCRIBE IMPACT AND GIVE DATE \_\_\_\_\_

L.4 IF NO TO L.1 AND/OR L.2, IS THERE A POTENTIAL YES \_\_\_ NO  UNKNOWN \_\_\_  
IF YES, DESCRIBE *Urban area*

SOURCES: \_\_\_\_\_



M) UNSTABLE CONTAINMENT OF WASTES

M.1 ARE WASTE STORAGE AND/OR DISPOSAL PRACTICES AT THE FACILITY ADEQUATE YES  NO  UNKNOWN  IF NO, DESCRIBE NATURE OF THE PROBLEM(S) \_\_\_\_\_

M.2 IF YES OR UNKNOWN TO M.1, DESCRIBE ANY POTENTIAL PROBLEM(S) A RCRA inspection on 2-27-86 revealed inadequate manifest documentation 1976 correspondence addresses improper solid waste disposal

SEE ALL PREVIOUS SECTIONS, USE MAXIMUM POPULATION THAT IS NOT DOUBLE COUNTED

SOURCES: 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

N) DAMAGE TO OFFSITE PROPERTY

N.1 HAVE OFFSITE PROPERTIES BEEN DAMAGED BY SITE ACTIVITIES YES  NO  UNKNOWN  IF YES, GIVE DATE(S) AND DESCRIBE EVENT(S) \_\_\_\_\_

SEE ALL PREVIOUS SECTIONS

SOURCES: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

O) CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs

O.1 DOCUMENTED DAMAGE TO INFRASTRUCTURE YES  NO  UNKNOWN  IF YES, GIVE DATE(S) AND DESCRIBE EVENT(S) 3-7/3-19/3-21-88 Metro Waste Control monitored a sewer line leaving 500 line and detected up to 1,000 ppm III Trichloroethane. This was above permitted limits

O.2 IF NO OR UNKNOWN TO O.1, DESCRIBE ANY POTENTIAL PROBLEMS \_\_\_\_\_

SOURCES: 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

P) ILLEGAL/UNAUTHORIZED DUMPING

P.1 HAVE THERE BEEN EPISODES OF ILLEGAL, UNAUTHORIZED, AND/OR MIDNIGHT DUMPING AT THE FACILITY YES  NO  UNKNOWN  IF YES, GIVE DATE(S) AND DESCRIBE EVENT(S) 6-18-73 Correspondence: unpermitted dumping: 8-30-73 Questional disposal of solvents paints and oils.

P.2 HAS THE FACILITY RECEIVED HAZARDOUS WASTES WITHOUT A PROPER LOCAL, STATE, AND/OR FEDERAL PERMITS WHEN SUCH PERMITS WOULD HAVE NORMALLY BEEN REQUIRED YES  NO  UNKNOWN  IF YES, GIVE DATE(S) AND DESCRIBE EVENT(S) \_\_\_\_\_

P.3 WOULD SITE SECURITY PROMOTE UNAUTHORIZED DUMPING YES  NO  UNKNOWN  IF POSSIBLE, DESCRIBE \_\_\_\_\_

SOURCES: 1, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**RECOMMENDED ACTIONS**

Based on investigations of other car shops of similar size and vintage, this dump area probably represents only one of several potential problem areas within the confines of the Shoreham shops property. This property will undoubtedly be investigated in detail at some later time.

I would recommend a P.A. be made of the remaining property. If further investigative work is required, then several soil borings in the vicinity of this dump area should be incorporated into the work plan.

**COMMENTS**

Conversations with Steve Lee and Dick Kable indicated that although there is no direct evidence that hazardous substances were dumped at the site, they both feel test borings and soil sampling are warranted. Dick received numerous complaints alleging dump of waste in the early to mid 70's. Steve initiated a site visit with Soo Line Reps. Steve stated he had reservations about company representatives insistence that no hazardous waste were disposed of at the disposal area.

\* This PA is addressing North eastern corner of the Sooline property only. The scope of this assessment does not address any other portion of the site or aspect of operation.



PA DOCUMENTATION SHEET		SITE <u>Soo Line Disposal Site</u> IDENTIFICATION NUMBER <u>MND006962641</u>	
SOURCE NUMBER	DESCRIPTION OF SOURCE		
1A, 1B, 1C, 1D	1A) QUAD NAME <u>New Brighton</u> SIZE: <u>7.5</u> or 15 YEAR <u>67</u>	1B) QUAD NAME <u>Mpls North</u> SIZE: <u>7.5</u> or 15 YEAR <u>67</u>	1C) QUAD NAME _____ SIZE: 7.5 or 15 YEAR _____
		1D) QUAD NAME _____ SIZE: 7.5 or 15 YEAR _____	
1	MPCA Hazardous waste Enforcement Files		
2	Minnesota Geologic survey & well logs. (Copies are in Dworsky Barrel PA File)		
3	MDH <sup>Environmental</sup> Public Division of Public Health Public water supply data 1987 pg 641 (mpls) Pg. 154 (Columbia Heights)		
4	MDH LCMR Report Volatile Organic Survey of community water supplies July 1985 Table 2 item 55		
5	<del>Aerial</del> Aerial photographs Wilson Library 1940 to 1969		
6	Hot Line Complaint Files		

PA DOCUMENTATION SHEET

SITE Soo Line

IDENTIFICATION NUMBER MND006962641

SOURCE NUMBER	DESCRIPTION OF SOURCE
7	Mike Plumm MWCC Metro Waste Commission
8	ODI Files
9	Interim report for remedial Investigation/Feasibility study at the Naval Industrial Reserve Ordnance Plant in Fridley MN (NIROP) May 1987 Volume I Contract # DAC415-86-C-0015
10	Interviews with Dick Cable - spills Steve Lee - Tanks
11	Site Reconnaissance 6-9-88