L1350450001/Montgomery
Hedlund Manufacturing
ILD 984775452

High - GGW
9/20/90

5E0301 - A0101

State Lead

6186

CERCLA

Preliminary Assessment Report

964703

Illinois Environmental Protection Agency
P.O. Box 19276,
Springfield, IL 62794-9276

RECEIVED
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Pre-Remedial Unit

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Executive Summary

The Hedlund manufacturing complex was initially discovered by the Illinois Environmental Protection Agency as a result of a well head survey to determine possible sources of tetrachloroethylene (PCE) and trichloroethylene (TCE) contamination in several of Nokomis's public water supply wells. As a result of this investigation, the state of Illinois requested CERCLA site discovery. The U.S. EPA officially placed the facility on CERCLIS on August 4,1989.

The now abandon manufacturing complex can be found near the end of West Front Street in Nokomis, Illinois. There are Nokomis residents on the northeast, southwest, and northwest sides of the complex while the southeast is bordered by the Conrail railroad tracks. The site is located in the northeast quarter of Section 22, Township 10 North, Range 2 West, Montgomery County, Illinois.

Hedlund Manufacturing produced water skis, snow skis, toboggans and sleds. The company started operations approximately 1949 and continued the manufacture of sporting goods until 1971 when a labor dispute resulted in the closure of the Nokomis facility. From Nokomis, the company moved its operations to another facility located in the Northeastern portion of the United States.

The site is currently owned by Mr. Wesly Johnson of Nokomis who purchased the property from Mr. Willard G. Fuller in March of 1989. Mr. Johnson is presently attempting to sell the property.

The 40,000 square foot facility is currently used for the storage of old cars, boats, and various other items.

During a January 24, 1989 IEPA inspection, 19 drums were found at the site, of which, 17 were located outside the buildings and 2 inside. The drums were at various stages of deterioration. Invoices found inside the office building at the site were for the shipment of painting varnishes, lacquers, hardeners and OKA glues. IEPA personnel were also interested in what appears to be an underground storage tank (UST) in the complex.

IEPA personnel met with site owner Willard Fuller on January 27, 1989, to discuss his knowledge of past facility operations. At that time the site owner brought with him, former employee, Mr. Lee Carny. Mr. Carny stated that to his knowledge, no UST's were utilized at the facility and that all the product used at the facility was shipped in drums. During this interview other information on manufacturing procedures, and waste disposal practices was not obtained.

Teklab, Inc. of Collinsville, Illinois sampled the drums on

April 12, 1989, to determine if the wastes were hazardous by characteristic. The 17 drums found outside contained solidified shellac while the other two drums contained glue type material. The hazardous waste drums were subsequently disposed of by Clayton Chemical Co. of Sauget, Illinois. Samples were also taken inside two small paint booths at the site. The sample composite showed E P Toxicity for lead at 5.5 mg/l (ppm) and a total concentration of 12,400 mg/kg (ppm).

The shallow, subsurface deposits in the area, are described in 3 boring logs taken by IEPA personnel for the Nokomis Public Well #6 Screening Site Inspection (SSI), ILD 981956477. The borings were logged approximately 2400 feet southwest of Hedlund Manufacturing and show clayey till to about 5 feet followed by sandy clay till to around 15 feet with sand/sand and gravel to about 35 feet. The logs are more detailed and are included in the Supporting Documentation section.

The description of the nearby (50 feet from the site) Nokomis public well #8 is sand and gravel overlain and underlain by low permeability till, drilled in 1977 to 40 feet. Well #8, sampled in September of 1987, was found to contain 20 ug/l (ppb) PCE and has since been abandon due to a collapsed screen. The nearest well in use is Nokomis public well #10 located 720 feet northeast of the site. Nokomis public well #4 is 2200 feet southwest and public well #6 (also contaminated with PCE and TCE) is 2500 feet southwest of the site. Wells #4 #6 and #10 have geologic profiles identical to well #8 and are 40, 41 and 49 feet deep respectively. The city of Nokomis furnishes water to 3062 people from a total of 5 active wells.

Groundwater levels were obtained on 2 separate occasions from the 3 monitor wells installed during the Nokomis Public Well #6 SSI. The levels indicate a south-southwestward groundwater movement in that general area.

A ditch on the southwest side of the site (northeast side of N. Walnut Street) drains surface water to an intermittent tributary of the East Fork Shoal Creek. The drainage ditch flows approximately 1000 feet northwest and turns southwest for another 1000 feet before entering the intermittent stream. The East Fork flows south-southwest and is used for recreational purposes.

The groundwater flow information could implicate Hedlund Manufacturing as a possible source of PCE and TCE contamination if these chemical were ever spilled or disposed of at the site. A phone call to former Hedlund Manufacturing employee Alvin Westphall on May 7, 1990 confirmed the use of paint thinners and varnish thinners which may have contained PCE and/or TCE solvents.

A high priority for a SSI is recommended, with emphasis on obtaining reliable site history/manufacturing procedures and soil sampling at sufficient depth to determine if these volatile solvents are coming from the Hedlund Manufacturing complex.

Hedlund Manufacturing

SITE LOCATION

SDMS US EPA Region V

Imagery Insert Form

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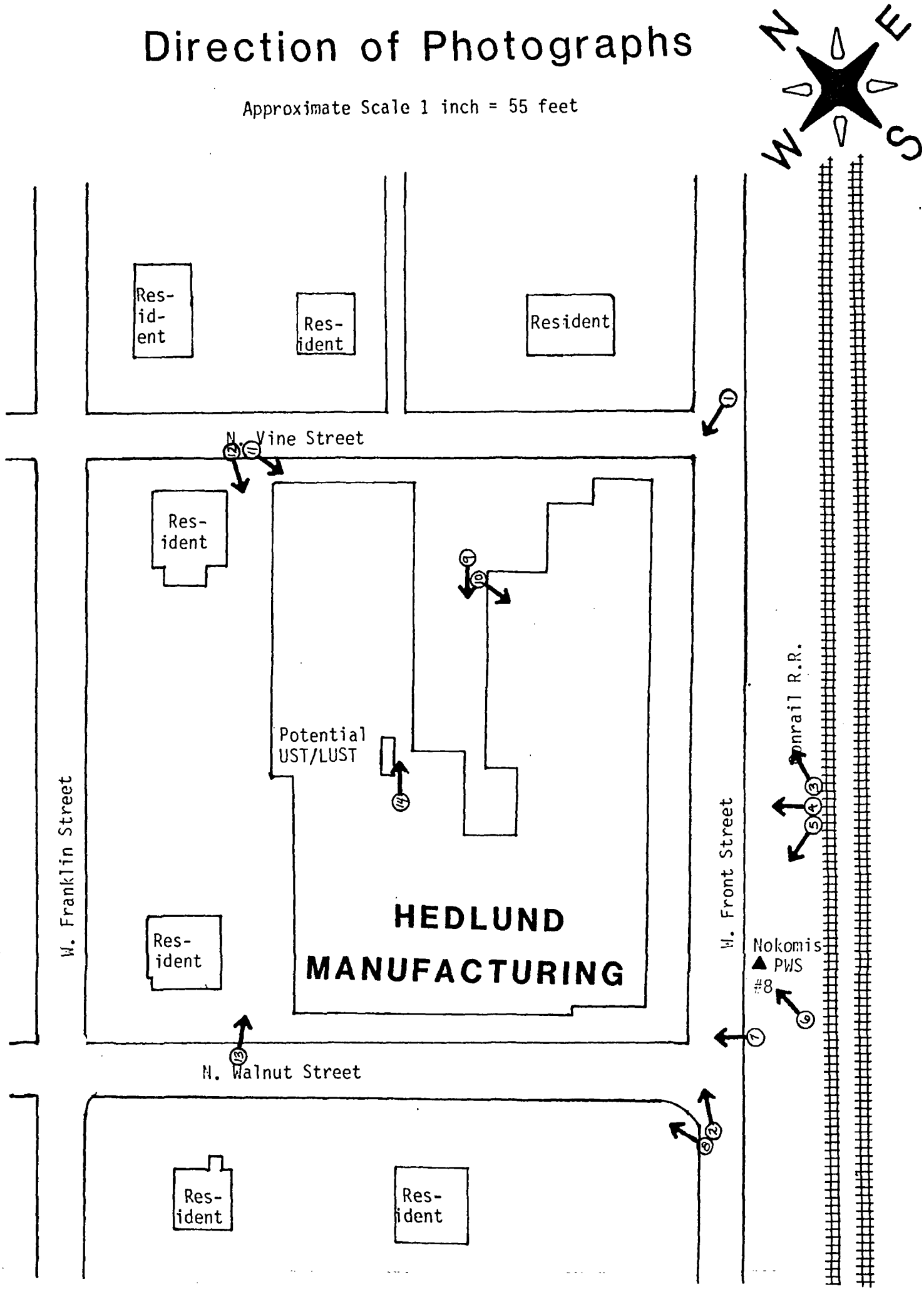
4-MILE RADIUS MAP

☐ **Other:**

Direction of Photographs

Approximate Scale 1 inch = 55 feet



L135045 0001

EPA

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

I. IDENTIFICATION
01 STATE: ILD | 02 SITE NUMBER: 984775452

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site): Hedlund Manufacturing

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: Vine and Front Streets

03 CITY: Nokomis

04 STATE: IL | 05 ZIP CODE: 62075 | 06 COUNTY: Montgomery | 07 COUNTY CODE: 135 | 08 CONG DIST: 20

09 COORDINATES LATITUDE: 39 17 56.0 | LONGITUDE: 089 17 25.0

Nokomis Quadrangle N3915-W8915/7.5 189D

10 DIRECTIONS TO SITE (Starting from nearest public road): see map

III. RESPONSIBLE PARTIES

01 OWNER (If known): Wesly Johnson

02 STREET (Business, mailing, residential): NON-RESPONSIVE [redacted]

03 CITY: Nokomis

07 OPERATOR (If known and different from owner):

09 CITY: | 10 STATE: | 11 ZIP CODE: | 12 TELEPHONE NUMBER: ( )

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 1 27 89 (MONTH DAY YEAR)
☐ NO
1 27 89

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
1949 (BEGINNING YEAR) | 1971 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Lead, cyanide, solvents

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
groundwater (population, environment)

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	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
		( )

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Timothy J. Murphy	IEPA	DLPC/RPMS	(217) 785-5737	4 10 90 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	984775452

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS
CUBIC YARDS
NO OF DRUMS 19

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			
OLW	OILY WASTE			
SOL	SOLVENTS	UNKNOWN		
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS	UNKNOWN		
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN		

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	lead	NA	in paint booths	12,400	mg/kg
IOC	cyanide	NA	in drums outside	9	mg/kg
SOL	phenol	108952	in paint booths	227	mg/kg
IOC	sulfide (reactive)	NA	in drums inside bldg.	29	mg/kg

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)

IEPA DLPC file L1350450001 Hedlund Mfg.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	984775452

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ■ OBSERVED (DATE 9-30-87) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3062 — 04 NARRATIVE DESCRIPTION 2-4-86

Nokomis PWS #8 had shown 20 ug/l (ppb) PCE prior to screen collapse and abandonment. PWS #6 also has contamination. PWS #8 is just across the street from Hedlund mfg. PWS #6 is ≈2500' SW of the site

Ref #1

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE:) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE:) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

Of 19 waste drums on site (Now properly disposed of), 3 had flashpoints below 140°F
Drum #5-132°F, Drum #6-75°F Drum #8-69°F

Ref #2

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3000 — 04 NARRATIVE DESCRIPTION

lead in paint booths could be picked up by kids in the area who may go through the buildings

Site Reconn

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE 4-12-90) — POTENTIAL — ALLEGED
03 AREA POTENTIALLY AFFECTED: <1 (Acres) — 04 NARRATIVE DESCRIPTION

paint booths have lead contaminated residue. UST/LUST may be present on site

Ref #2

01 ■ G. DRINKING WATER CONTAMINATION — 02 ■ OBSERVED (DATE 9-30-87) — POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED 3062 — 04 NARRATIVE DESCRIPTION 2-4-86

See A. above

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE) — POTENTIAL — ALLEGED
03 WORKERS POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE:) — ■ POTENTIAL — ALLEGED
03 POPULATION POTENTIALLY AFFECTED: — 04 NARRATIVE DESCRIPTION

See G. above

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
ILD	984775452

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)
None documented or observed

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ M. UNSTABLE CONTAINMENT OF WASTES (Spills runoff standing liquids leaking drums) — 02 ■ OBSERVED (DATE: 1-24-89) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 3000 — 04 NARRATIVE DESCRIPTION
19 waste drums were in various stages of deterioration on site
Ref # 2

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None documented or observed

01 ■ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
No record of waste disposal practices were kept

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 3062

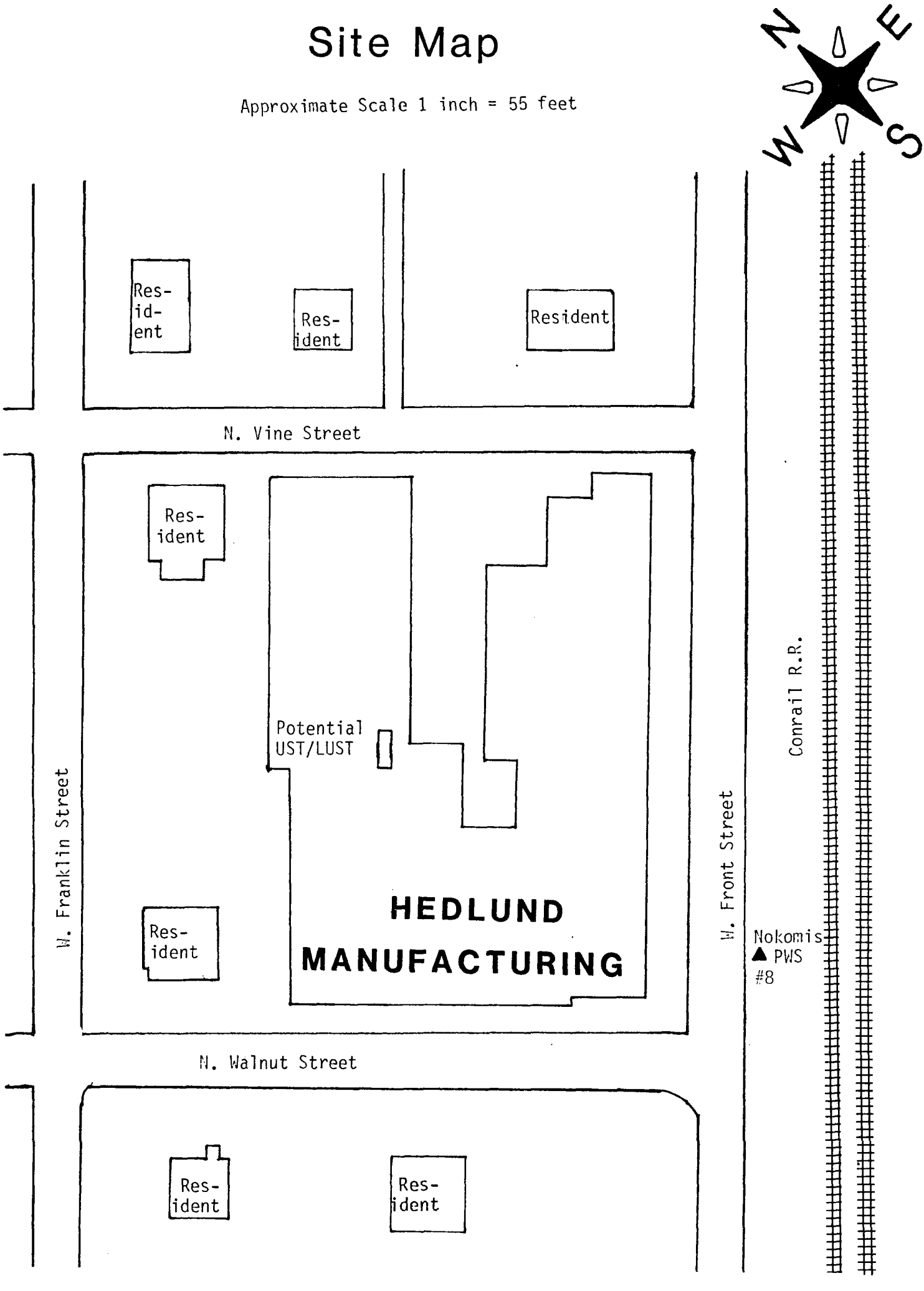
IV. COMMENTS

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

Illinois EPA DLPC file # L1350450001 Hedlund Mfg.
Illinois EPA DPWS file # 1350450 Nokomis Well Site Survey Report
Site Reconnaissance 4-11-90

Site Map

Approximate Scale 1 inch = 55 feet



DATE: 4-11-90

TIME: 9:30AM

Photograph by:

Timothy J. Murphy

Location: N. Vine and W. Front Streets in Nokomis, Montgomery Co., IL 62075

Comments: Picture taken toward the west of Hedlund Manufacturing

1

DATE: 4-11-90

TIME: 9:30AM

Photograph by:

Timothy J. Murphy

Location: N. Walnut and W. Front Street, Nokomis

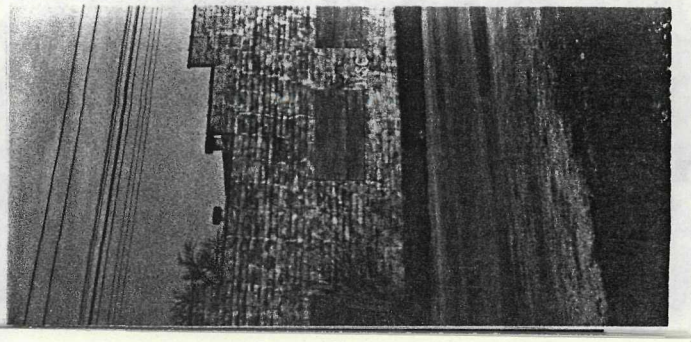
Comments: Picture taken toward the North-Norteast of Hedlund Manufacturing

2

DATE: 4-11-90

TIME: 9:35 AM

3



Photograph by:

Timothy J. Murphy

Location: W. Front Street
Nokomis, Montgomery Co.,
IL 62075

Comments: Picture taken toward
the North-Northeast toward
the east corner of the
building

the Nortwest of the building

DATE: 4-11-90

TIME: 9:35 AM

Photograph by:

Timothy J. Murphy

Location: W. Front Street
Nokomis, IL

Comments: Picture taken toward
the west-southwest of
the south corner of
the building, Note PWS
#8 on the left

5

IL 532-0603
L/NPC 24 (Rev. 7/86)

DATE: 4-11-90

TIME: 9:40 Am

Photograph by:

Timothy J. Murphy

Location: W. Front Street, Nokomis, Montgomery Co., IL 62075

Comments: Picture taken toward the North of PWS #8 w/ Hedlund Manufacturing in background

6

DATE: 4-11-90

TIME: 9:40 AM

Photograph by:

Timothy J. Murphy

Location: W. Front Street Nokomis, IL

Comments: Picture taken toward the Northwest of the southwest side of Hedlund Manufacturing, Note drainage ditch

7

DATE: 4-11-90

TIME: 9:40 AM

Photograph by:

Timothy J. Murphy

Location: N. Walnut and W. Front Street, Nokomis, Montgomery Co., IL 62075

Comments: Picture taken toward the north of the southwest side of Hedlund Manufacturing

8

DATE: 4-11-90

TIME: 9:50 AM

Photograph by:

Timothy J. Murphy

Location: Hedlund Mfg. Nokomis, IL

Comments: Picture taken toward the southwest in the center of the site

9

DATE: 4-11-90

TIME: 9:50 AM

Photograph by:

Timothy J. Murphy

Location: Hedlund Mfg.

Nokomis, Mongomery Co.,

IL 62075

Comments: Picture taken toward

the south inside a

building

10

DATE: 4-11-90

TIME: 9:55 AM

Photograph by:

Timothy J. Murphy

Location: N. Vine Street

Nokomis, IL

Comments: Picture taken toward

the south of the northeast

side of Hedlund Mfg.

11

DATE: 4-11-90

TIME: 9:55 AM

Photograph by:

Timothy J. Murphy

Location: N. Vine Street Nokomis, Montgomery Co., IL 62075

Comments: Picture taken toward the south-southwest of the back side (Northwest side) of Hedlund Mfg.

12

DATE: 4-11-90

TIME:

Photograph by:

Timothy J. Murphy

Location: N. Walnut Street Nokomis, IL

Comments: Picture taken toward the east-northeast of the back side (Northwest side) of Hedlund Mfg.

13

DATE: 4-11-90

TIME: 10:20 AM

Photograph by:

Timothy J. Murphy

Location: Hedlund Mfg.

Nokomis, Montgomery Co.,

IL 62075

Comments: Picture taken toward

the Northeast inside a

building of pipes leading

to possible UST/LUST

14

DATE:

TIME:

Photograph by:

Location:

Comments: Picture taken toward

SUPPORTING

DOCUMENTS

Supporting Documentation

Document	Reference Number
IEPA DPWS File 1350450 Nokomis Well Site Survey Report	#1
IEPA DLPC File 1350450001 Hedlund Manufacturing	#2
IEPA DLPC File 1350000000 Nokomis Public Well #6 SSI Groundwater Data	#3
Phone Conversation with Past Property Owner Willard Fuller on 4/10/90	#4
Phone Conversation with Past Hedlund Mfg. Employee Alvin Westphall on 5/7/90	#5

IEPA/PWS/89-088

REFERENCE NUMBER 1

GROUNDWATER QUALITY PROTECTION PROGRAM:

NOKOMIS
FACILITY NUMBER 1350450
WELL SITE SURVEY
REPORT

Prepared by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency

Springfield, Illinois

MARCH, 1989

REFERENCE NUMBER

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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The City of Nokomis obtains its water from five drift Wells, #4, #6, #7, #9 and #10, Well #8 is inactive due a collapsed well screen. The City is currently in the process of drilling new wells to supplement it's supply. Present water usage is approximately 175,000 gallons per day (gpd) to 1,200 services, including the Village of Coalton. Table I provides a description of each well as follows:

Table I

	Minimum Setback (ft.)	Maximum Setback (ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft.)	Treatment	Aquifer	Well Depth (ft.)	Well Logs Available
Well #1 (52105)			B				Sand & Gravel	40	
Well #2 (52106)			B				Same	40	
Well #3 (52107)			B				Same	40	
Well #4 (52108)	400	No	A	25 0.028		Aer. Filt. Sftng. Chl. Fl., CO_2	Same	40	
Well #5 (52109)			B				Same	37	
Well #6 (52110)	400	No	A	30 0.050		Same	Same	41	
Well #7 (52111)	400	No	A	35 0.050	16.6	Same	Same	39	
Well #8 (52112)	400	No	I	50 0.050	6.8	Same	Same	40	Yes
Well #9 (52113)	400	No	A	50 0.050	13.6	Same	Same	47	Yes
Well #10 (52114)	400	No	A	50 0.050	8.6	Same	Same	49	Yes

A - Active I - Inactive B - Abandoned

All the active wells utilize an unconsolidated sand and gravel aquifer. The surficial geologic susceptibility rating (permeability rating) is B2. The aquifer overlain by alternating layers of sand and gravel and low permeability glacial till. Permeability is the measure of a soil or sediments ability to transmit fluids. For a complete description and geologic profile see the Facility Wells Report (Appendix D). Normal groundwater flow direction is estimated to be from northeast to southwest. However, groundwater flow may be influenced by pumping wells.

GROUNDWATER SAMPLING/MONITORING HISTORY

Nokomis Wells #4, #6 and #10 were sampled as part of a Statewide Groundwater Monitoring Program on February 4, 1986. Well #7 was sampled on September 9, 1986 and Wells #8 and #9 on September 30, 1987. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA). In addition, Wells #10 and #7 were sampled for synthetic organic pesticides (SOC).

Inorganic analyses performed indicate that parameters are consistent with other sand and gravel aquifers in Illinois. SOC analyses did not detect any pesticides/herbicides. No VOC/VOA's were detected in Wells #4, #7, #9 or #10. However, initial results from Wells #6 and #8 indicated low levels of tetrachloroethylene (PCE). Well #8 was unable to be resampled as it's screen collapsed and the pump was pulled. Subsequent quarterly sampling of Well #6 has confirmed the presence of PCE and trichloroethylene (TCE) in flucuating but persistent amounts (Table II summarizes results for Well #6). The United States Environmental Protection Agency (USEPA) has set a Maximum Contaminant Level (MCL) for TCE at 5 parts per billion (ppb). Currently there is no standard for PCE, however, an MCL of 5 ppb has been proposed by the USEPA. For more information on PCE and TCE see Appendix F, complete monitoring results can be found in Appendix E.

Table II

Date Sampled	TCE (ppb)	PCE(ppb)
02-04-86	ND	1.9
08-25-87	6.0	7.0
11-09-87	12.0	16.0
01-09-88	14.0	21.0
04-18-88	ND	7.0
08-16-88	5.0	7.0
11-08-88	ND	4.0

ND - Not Detected

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory that relate information about potential contamination sources, routes and possible problem sites to public water supply well(s). The location of the potential sources, routes, possible problem sites, minimum setback zone and 1,000 ft. foot survey area are all displayed on the aerial photographic map (Appendix B, C).

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). The Agency 5-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings

The Nokomis well site field survey was conducted on April 4, 1988 by Wade Boring from the Agency's Springfield Regional office. Wade interviewed Frank Martin, the former Water Plant Operator. The following describes the results and findings for the Nokomis water supply wells:

Nokomis Well #4 (IEPA #52108)

The survey area is mostly rural. The area is a mixture of row crops and open space with some commercial establishments. There are two potential primary sources and four possible problem sites located within 1,000 feet of Well #4.

The potential primary sources are the lime sludge lagoons, map code 5 photo B, located 200 ft. S; and the lime sludge pile, map code 7 photo B, located 400 ft S. The possible problem sites are Tri-R Disposal, map code 1 photo B, located 1,050 ft. E; a salvage yard, map code 6 photo B, located 500 ft. SE; Kaiser Ag-Chem, Inc., map code 8 photo B, located 800 ft. SW; and J&E Farm Center, map code 9 photo B, located 900 ft. SW.

Nokomis Well #6 (IEPA #52110)

The survey area is mostly rural. The area is a mixture of row crops and open space with some commercial establishments. There are two potential primary sources, one potential secondary source and two possible problem sites within 1,000 feet of Well #6. The potential primary sources are the lime sludge lagoons, map code 5 photo B, located 250 ft. NE; and the lime sludge pile, map code 7 photo B, located 200 ft. SE. The potential secondary source is Kaiser Ag-Chem, Inc., map code 8 photo B, located 290 ft. SW. The possible problems sites are a salvage yard, map code 6 photo B, located 340 ft. E; and J&E Farm Center, map code 9 photo B, located 440 ft. SW.

Nokomis Well #7 (IEPA #52111)

The survey area is mostly rural. The area is a mixture of row crops and open space with some commercial establishments. There is one potential primary source, one potential secondary source and five possible problem sites within 1,000 feet of Well #7. The potential primary source is the lime sludge pile, map code 7 photo B, located 270 ft. NE. The potential secondary source is J&E Farm Center, map code 9 photo B, located 240 ft. NW. The possible problem site are the lime sludge lagoons, map code 5 photo B, located 730 ft. NE; a salvage yard, map code 6 photo B, located 640 ft. NE; Kaiser Ag-Chem, Inc., map code 8 photo B, located 450 ft. NW; an above ground fuel tank, map code 11 photo B, located 990 ft. SE; and Hoffman Machine and Welding service, map code 12 photo B, located 700 ft. SW.

Nokomis Well #8 (IEPA #52112)

The survey area is mostly rural. The area is a mixture of commercial and residential. There is one known cleanup site and 10 possible problem sites within 1,000 feet of Well #8. The known cleanup site is an abandoned water ski factory, map code 18 photo C, located 50 ft. N. 19 drums in varying states of decay were removed from this site. The possible problem sites are Lipes Tire Service, map code 12 photo C, located 870 ft. NE; Compton's Garage, map code 13 photo c, located 1,000 ft. NE; an abandoned gas station, map code 14 photo C, located 680 ft. N; Farmer's Oil Co., map code 16 photo c, located 690 ft. NE; Easterday Cleaners, map code 19 photo C, located 150 ft. E; a building with a gas pump, map code 20 photo C, lcoated 250 ft. S; Phillips 66, map code 21 photo C, located 480 ft. SW; Nokomis Autobody, map code 22 photo C, located 520 ft. SW; and Ronk Electrical Industries, map code 23 photo C, located 670 ft. SW.

Nokomis Well #9 (IEPA #52113)

The survey area is mostly rural. The area is a mixture of commercial and residential. There are ten possible problem sites within 1,000 feet of Well #9. They are Montgomery Service Co., map code 2 photo C, located 1,000 ft. NE; an abandoned gas station, map code 3 photo C, located 950 ft. NE; Farmers Oil Co., map code 4 photo C, located 810 ft. NE; Nokomis Canterbury, map code 5 photo C, located 770 ft. NE; Nokomis Canterbury, map code 5 photo C, located 770 ft. NE; Nokomis Equity Elevator Co., map code 6 photo C, located 400 ft. NE; Putnam-Wright Ford, map code 7 photo C, located 250 ft. S; Kerr-McGee, map code 10 photo c, located 530 ft. SW; Quality Cleaners, map code 11 photo C, located 560 ft. S; Lipes Tire Service, map code 12 photo C, located 940 ft. SW; and Compton's Garage, map code 13 photo C, located 1,000 ft. S.

Nokomis Well #10 (IEPA #52114)

The survey area is mostly rural. The area is a mixture of commercial and residential. There is one known cleanup site and nine possible problem sites within 1,000 ft. of Well #10. The known cleanup site is an abandoned water ski factory, map code 18 photo C, located 720 ft. SW. 19 drums in varying states of decay were removed from this site. The possible problem sites are Putnam-Wright Ford, map code 7 photo C, located 600 ft. NE; Kerr McGee, map code 10 photo C, located 600 ft. N; Quality Cleaners, map code 11 photo C, located 210 ft. NE; Lipes Tire service, map code 12 photo C, located 190 ft. SE; Compton's Garage, map code 13 photo C, located 370 ft. SE; an abandoned gas station, map code 14 photo C, located 350 ft. S; Farmer's Oil Co., map code 16 photo C, located 400 ft. SW; and Easterday Cleaners, map code 19 photo C, located 900 ft. SW.

SUMMARY

The well site survey and monitoring conducted indicate that there are numerous possible problem sites/potential sources that could pose a hazard to groundwater utilized by the Nokomis public water supply wells:

- Two Ag-Chem facilities with above ground storage of fertilizers and pesticides; J&E Farm Center and Kaiser Ag-Chem, Inc.

- Three bulk fuel storage areas with above ground tanks; Piasa Motor Fuels, Montgomery Service and Farmer's Oil Co.

- Three small quantity hazardous waste generators; Ronk Electrical Industries, Nokomis Autobody and Quality Cleaners.

- Two abandoned gas stations with possible below ground fuel tanks still in place.

- One known cleanup site from which 19 drums were removed and which may have below ground tanks still in place.

- Six establishments with below ground fuel tanks; Kerr McGee, Nokomis Canterbury, Compton's Garage, Phillip's 66, Farmer's Oil Co., and Nokomis Equity Elevator Co.

- Six additional sites in which the exact quantity and nature of any hazardous substances (eg solvants) is unknown; a salvage yard, Hoffman Machine and Welding Service, Easterday Cleaners, Spengel Lumber, Putnam-Wright Ford, and Lipes Tire Service.

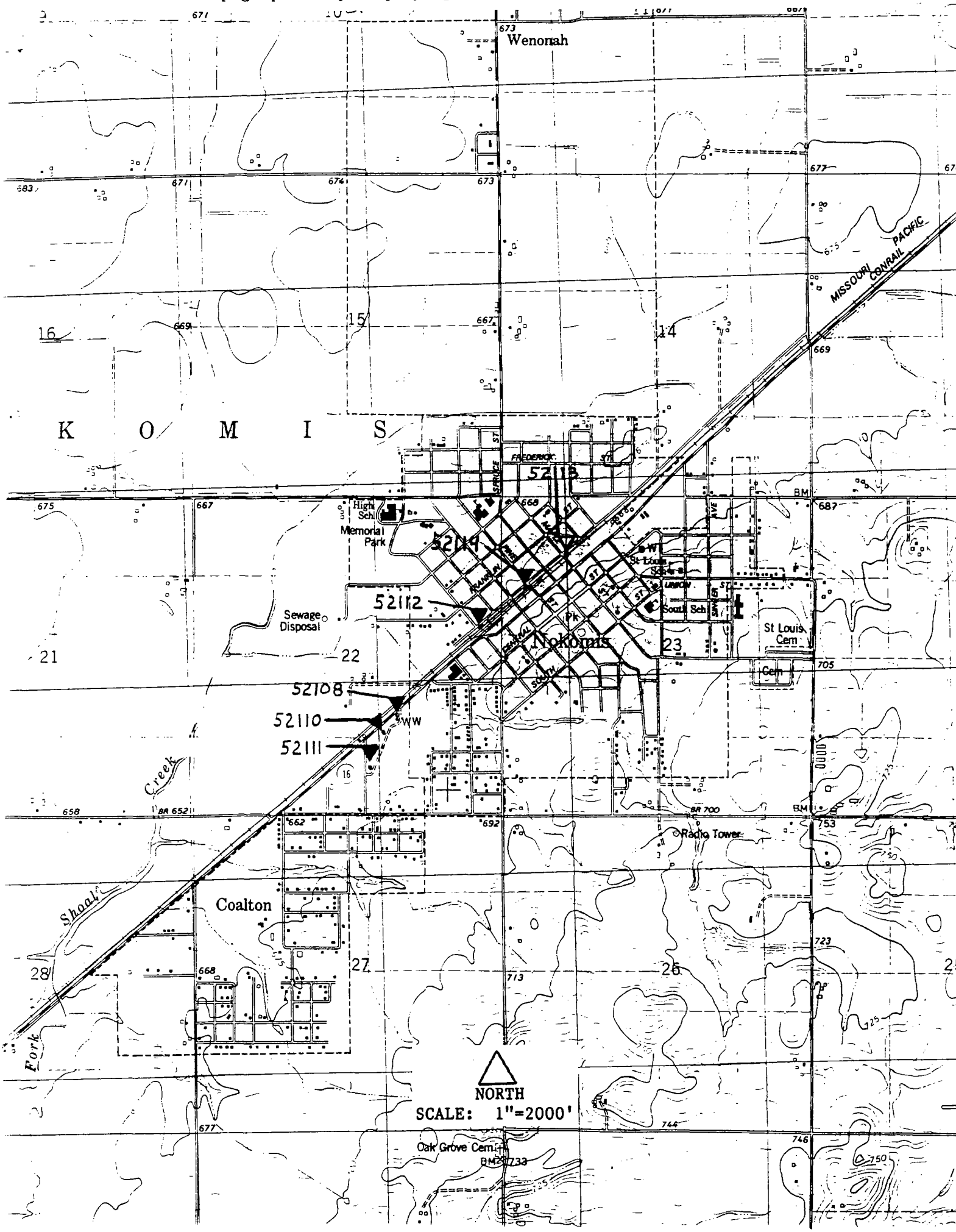
The contamination of Well #6 is currently under investigation by the Agency's Division of Land Pollution Control and the well remains on a quarterly sampling schedule.

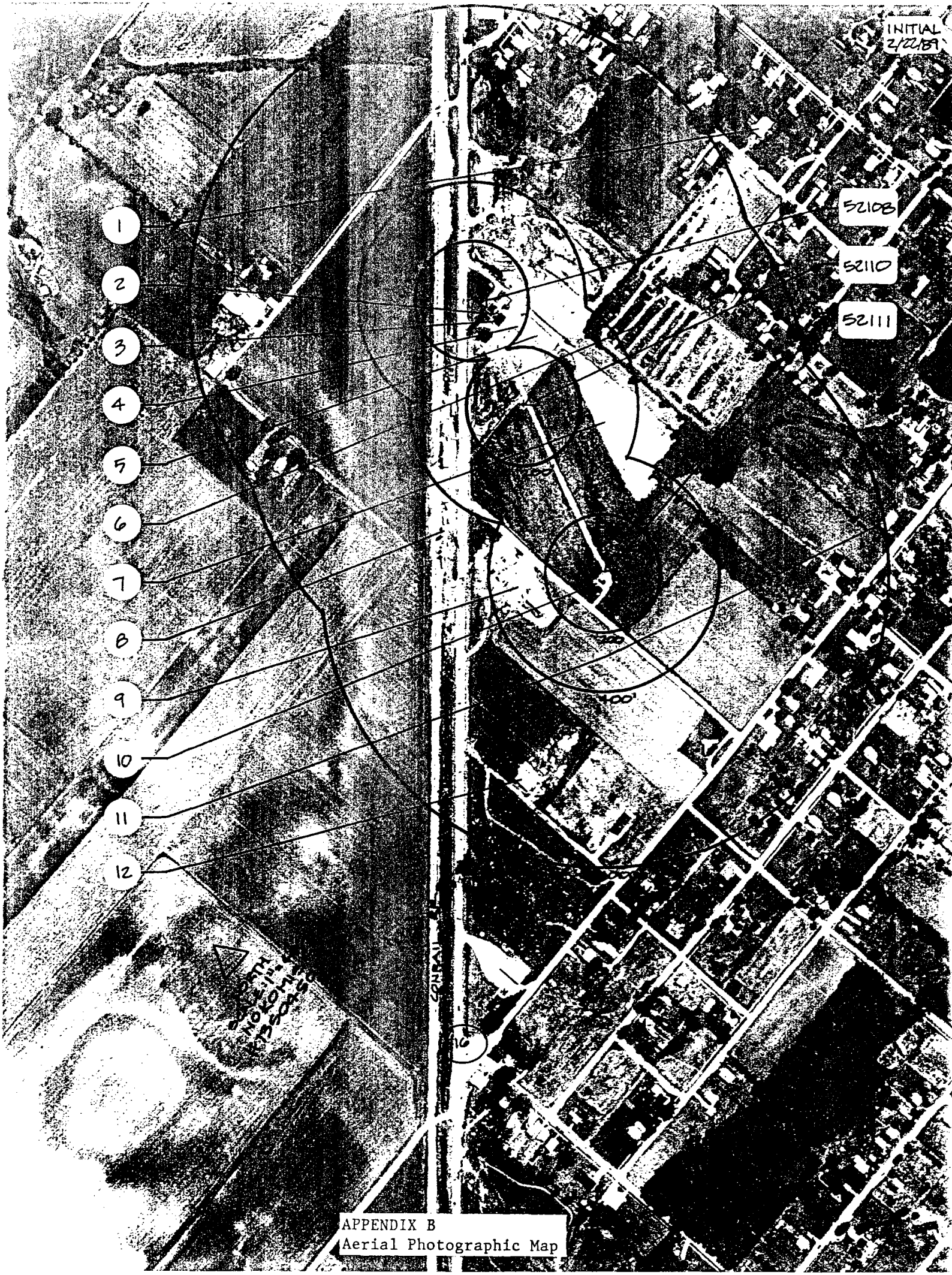
The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.

TECHNICAL APPENDICES

APPENDIX A

Topographic Map Displaying Nokomis Well Locations





APPENDIX B
Aerial Photographic Map

APPENDIX C
Aerial Photographic Map

APPENDIX: B-1 Nokomis Well #4 (IEPA #52108) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

ADDRESS:
Mayor and Council
111 South Pine
Nokomis, Illinois 62075

AGENCY WELL NO: 52108
WELL NAME & DESC.: Well 4
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis
FAC. PHONE NUMBER: 217/563-3013
LOCATION:
TWP, RNG, SECTION, 10 ACRE PLOT:
10 N, 2 W, 22, 3 C
DISTANCE FROM CORNER: 1650 N, 1800 W
QUAD SHEET CODE & NAME:
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2-sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1923
WELL DEPTH: 40 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture row crops and open ground with some commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, R. R. 1, Irving, Illinois 62051, Water Plant Operator
217/533-4479

APPENDIX: B1 - Nokomis Well #4 (IEPA #52108) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52108-01
NAME & ADDRESS OF UNIT OWNER: Tri-R Disposal Service, 217/563-2515
DESCRIPTION AND COMMENTS: Garbage collection service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,050 ft. E

NON-RESPONSIVE

WELL NO. - MAP CODE - CLASSF*: 52108-02
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52107)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 100 ft. S

WELL NO. - MAP CODE - CLASSF*: 52108-03
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52106)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 150 ft. S

WELL NO. - MAP CODE - CLASSF*: 52108-04
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52105)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 200 ft. S

WELL NO. - MAP CODE - CLASSF*: 52108-05-PP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge lagoons, NPDES permit to discharge to ditch
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 200 ft. S

WELL NO. - MAP CODE - CLASSF*: 52108-06
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: Salvage Yard
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 500 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52108-07-PP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge pile (special waste)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 400 ft. S

APPENDIX: B-1 Nokomis Well #4 (IEPA #52108) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52108-08-OS
NAME & ADDRESS OF UNIT OWNER: Kaiser Ag-Chem, Inc., [redacted]
217/563-8814
DESCRIPTION AND COMMENTS: Ag-Chem facility, above ground storage of liquid and dry fertilizers and pesticides
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 300 Ft. SW

WELL NO. - MAP CODE - CLASSF*: 52108-09-OS
NAME & ADDRESS OF UNIT OWNER: J&E Farm Center, [redacted]
DESCRIPTION AND COMMENTS: Ag-Chem facility, above ground storage of liquid fertilizers and pesticides
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 900 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52108-10
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52109)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,030 ft. SW

APPENDIX: B-2 - Nokomis Well #6 (IEPA #52110) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

NON-RESPONSIVE

AGENCY WELL NO: 52110
WELL NAME & DESC.: Well 6
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis

NON-RESPONSIVE

QUAD SHEET CODE & NAME: 189D Nokomis
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2 - sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1951
WELL DEPTH: 41 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture row crops and open ground with some commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, R. R. 1, Irving, Illinois 62051, Water Plant Operator, 217/533-4479

APPENDIX: 33 - Nokomis Well #6 (IEPA #52110) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52110-02
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: abandoned public water well (IEPA #52107)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 350 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52110-03
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52106)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 300 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52110-04
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: abandoned public water well (IEPA #52105)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 250 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52110-05-PP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge lagoons, NPDES permit to discharge to ditch
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 250 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52110-06
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: Salvage yard
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 340 ft. E

WELL NO. - MAP CODE - CLASSF*: 52110-07-PP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge pile (special waste)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 200 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52110-08-PS
NAME & ADDRESS OF UNIT OWNER: Kaiser Ag-Chem, Inc., NON-RESPONSIVE
217/563-8812
DESCRIPTION AND COMMENTS: Ag-Chem facility, above ground storage of liquid fertilizers and pesticides
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 440 SW

APPENDIX: B2 - Nokomis Well #6 (IEPA #52110) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52110-10
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52109)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 640 ft. SW

APPENDIX: B3 - Nokomis Well #7 (IEPA #52111) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

ADDRESS:
NON-RESPONSIVE

AGENCY WELL NO: 52111
WELL NAME & DESC.: Well 7
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis
FAC. PHONE NUMBER: 217/563-2013
LOCATION:
NON-RESPONSIVE

DISTANCE FROM CORNER: 666 N, 3255 W
QUAD SHEET CODE & NAME: 189 D - Nokomis
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2 - sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1970
WELL DEPTH: 39 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture row crops and open ground with some commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, R. R. 1, Irving, Illinois 62051, Water Plant Operator, 217/533-4479

APPENDIX: B3 - Nokomis Well #7 (IEPA #52111) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52111-02
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52107)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 960 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52111-03
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52106)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 920 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52111-04
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Abandoned public water well (IEPA #52105)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 890 ft.

WELL NO. - MAP CODE - CLASSF*: 52111-05-OP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge lagoons, NPDES permit to discharge to ditch
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 730 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52111-06
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: Salvage yard
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 640 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52111-07-PP
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: Lime sludge pile (special waste)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 270 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52111-08-OS
NAME & ADDRESS OF UNIT OWNER: Kaiser Ag-Chem, Inc. NON-RESPONSIVE
217/563-8814
DESCRIPTION AND COMMENTS: Ag-Chem facility, above ground storage of liquid and dry fertilizers and pesticides
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 450 ft. NW

APPENDIX: B3 - Nokomis Well #7 (IEPA #52111) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52111-09-PS
NAME & ADDRESS OF UNIT OWNER: J&E Farm Center, [redacted]
DESCRIPTION AND COMMENTS: Ag-Chem facility, above ground storage of liquid fertilizers and pesticides
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 240 ft. NW

WELL NO. - MAP CODE - CLASSF*: 52111-10
NAME & ADDRESS OF UNIT OWNER: City of Nokomis
DESCRIPTION AND COMMENTS: abandoned public water well (IEPA #52109)
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 15 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52111-11
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: Above ground fuel tank
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 990 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52111-12
NAME & ADDRESS OF UNIT OWNER: Hoffman Machine and Welding Service, [redacted]
62075, 217/563-7623
DESCRIPTION AND COMMENTS: Welding shop and salvage yard
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 700 ft

APPENDIX: C1 - Nokomis Well #8 (IEPA #5112) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

ADDRESS:
NON-RESPONSIVE

AGENCY WELL NO: 52112
WELL NAME & DESC.: Well 8
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis
FAC. PHONE NUMBER: 217/563-2013
LOCATION:
NON-RESPONSIVE
DISTANCE FROM CORNER: 2090S, 375 W
QUAD SHEET CODE & NAME: 189D-Nokomis
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2 - sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1977
WELL DEPTH: 40 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture of residential and light commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, R. R. 1, Irving, Illinois 62051, Water Plant Operator, 217/533-4479

APPENDIX: C1 - Nokomis Well #8 (IEPA #S2112) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: S2112-12
NAME & ADDRESS OF UNIT OWNER: Lipes Tire Service, NON-RESPONSIVE
217/563-2909
DESCRIPTION AND COMMENTS: Tire Sales and Service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 870 ft. NE

WELL NO. - MAP CODE - CLASSF*: S2112-13
NAME & ADDRESS OF UNIT OWNER: Compton's Garage, NON-RESPONSIVE
217/563-2534
DESCRIPTION AND COMMENTS: Auto repair, below ground fuel tank - quantity unknown
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,000 ft. NE

WELL NO. - MAP CODE - CLASSF*: S2112-14
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Abandoned gas station
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 680 ft. N

WELL NO. - MAP CODE - CLASSF*: S2112-15
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 680 ft. N

WELL NO. - MAP CODE - CLASSF*: S2112-16-OS
NAME & ADDRESS OF UNIT OWNER: Farmers Oil Co., NON-RESPONSIVE
217/563-2221
DESCRIPTION AND COMMENTS: Service station, below ground fuel storage assumed greater than 500 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 690 ft. NE

WELL NO. - MAP CODE - CLASSF*: S2112-17
NAME & ADDRESS OF UNIT OWNER: Spengel Lumber, NON-RESPONSIVE
DESCRIPTION AND COMMENTS: lumber yard
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 450 ft. NE

APPENDIX: C1 - Nokomis Well #8 (IEPA #52112) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52112-18-CU
NAME & ADDRESS OF UNIT OWNER: Nokomis Area Development Council
DESCRIPTION AND COMMENTS: abandoned water ski factory - 19 drums removed, possible below ground storage tank
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 50 ft. N

WELL NO. - MAP CODE - CLASSF*: 52112-19
NAME & ADDRESS OF UNIT OWNER: Easterday Cleaners, [redacted] NON-RESPONSIVE
217/563-7132
DESCRIPTION AND COMMENTS: Dry cleaners
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 150 ft. E

WELL NO. - MAP CODE - CLASSF*: 52112-20
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Building with gas pump outside
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 250 ft. S

WELL NO. - MAP CODE - CLASSF*: 52112-21-OS
NAME & ADDRESS OF UNIT OWNER: Phillips 66, [redacted] NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Service station, below ground fuel storage assumed greater than 500 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 480 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52112-22-OX
NAME & ADDRESS OF UNIT OWNER: Nokomis Autobody, [redacted] NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Autobody shop, small quantity haz-waste generator, LPC #1350455003
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 520 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52112-23-OX
NAME & ADDRESS OF UNIT OWNER: Ronk Electrical Industries, Inc., [redacted] NON-RESPONSIVE
Illinois 62075, 217/563-8333
DESCRIPTION AND COMMENTS: Small quantity haz-waste generator, LPC #1350455001
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 670 ft. SW

APPENDIX: C2-Nokomis Well #9 (IEPA #52113) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

ADDRESS:
Mayor and Council
NON-RESPONSIVE

AGENCY WELL NO: 52113
WELL NAME & DESC.: Well 9
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis
FAC. PHONE NUMBER: 217/563-2013
LOCATION:
NON-RESPONSIVE
DISTANCE FROM CORNER: 875 S, 1150 E
QUAD SHEET CODE & NAME: 189D - Nokomis
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2 - sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1979
WELL DEPTH: 47 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture of residential and light commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, Rural Route 1, Irving, Illinois 62051, Water Plant Operator, 217/533-4479

APPENDIX: C2-Nokomis Well #9 (IEPA #52113) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52113-01
NAME & ADDRESS OF UNIT OWNER: Piasa Motor Fuels, NON-RESPONSIVE
217/563-7112
DESCRIPTION AND COMMENTS: Bulk fuel Storage, assumed greater than 25,000 gallons above ground
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,200 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52113-02
NAME & ADDRESS OF UNIT OWNER: Montgomery Service Co. NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Bulk fuel storage, assumed greater than 25,000 gallons above ground
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,000 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52113-03
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Abandoned gas station
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 950 ft NE

WELL NO. - MAP CODE - CLASSF*: 52113-04-OS
NAME & ADDRESS OF UNIT OWNER: Farmers Oil Co., NON-RESPONSIVE
217/563-2221
DESCRIPTION AND COMMENTS: Bulk fuel storage, assumed greater than 25,000 gallons above ground
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 810 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52113-05-OS
NAME & ADDRESS OF UNIT OWNER: Nokomis Canterbury, NON-RESPONSIVE
217/563-2812
DESCRIPTION AND COMMENTS: convenience store w/gasoline sales, below ground storage assumed greater than 500 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 770 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52113-06
NAME & ADDRESS OF UNIT OWNER: Nokomis Equity Elevator Co., NON-RESPONSIVE
62075, 217/563-8812
DESCRIPTION AND COMMENTS: grain storage, below ground fuel storage
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 400 ft. NE

APPENDIX: C2-Nokomis Well #9 (IEPA #52113) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52113-07
NAME & ADDRESS OF UNIT OWNER: Putnam-Wright Ford, [redacted] NON-RESPONSIVE
217/563-2914
DESCRIPTION AND COMMENTS: Auto sales and service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 250 ft. S

WELL NO. - MAP CODE - CLASSF*: 52113-08
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 550 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52113-09
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 600 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52113-10-OS
NAME & ADDRESS OF UNIT OWNER: Kerr-McGee, [redacted] NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Service station, below ground fuel storage assumed greater than 500 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 530 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52113-11-OX
NAME & ADDRESS OF UNIT OWNER: Quality Cleaners, [redacted] NON-RESPONSIVE
217/563-8512
DESCRIPTION AND COMMENTS: Dry cleaners, small quantity haz-waste generator, LPC #1350455004
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 560 ft. S

WELL NO. - MAP CODE - CLASSF*: 52113-12
NAME & ADDRESS OF UNIT OWNER: Lipes Tire Service, [redacted] NON-RESPONSIVE
217/563-2909
DESCRIPTION AND COMMENTS: Tire sales and service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 940 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52113-13
NAME & ADDRESS OF UNIT OWNER: Compton's Garage, [redacted] NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Auto repair, below ground fuel storage
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 1,000 ft. S

APPENDIX: C3-Nokomis Well #10 (IEPA #52114) WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE

SURVEYOR: Wade Boring
SURVEY DATE: 04-04-88

ADDRESS:
Mayor and Council
NON-RESPONSIVE
AGENCY WELL NO: 52114
WELL NAME & DESC.: Well 10
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 1350450 - Nokomis
FAC. PHONE NUMBER: 217/563-2013
LOCATION:
NON-RESPONSIVE
DISTANCE FROM CORNER: 1,400 S, 350 E
QUAD SHEET CODE & NAME: 189D - Nokomis
MIN. SETBACK: 400 ft.
MAX. SETBACK:
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B2 - sand and gravel overlain and underlain by low permeability till
AGE OF WELL (DATE WELL CONSTRUCTION): 1980
WELL DEPTH: 49 ft.
AQUIFER CODE: 0101 - sand and gravel aquifer
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: Survey area is mostly rural. The area is a mixture of residential and light commercial.
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:
Frank Martin, Rural Route 1, Irving, Illinois 62051, Water Plant Operator, 217/533-4479

APPENDIX: C3-Nokomis Well #10 (IEPA #52114) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52114-07
NAME & ADDRESS OF UNIT OWNER: Putnam-Wright Ford, NON-RESPONSIVE
217/563-2914
DESCRIPTION AND COMMENTS: Auto sales and service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 600 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52114-08
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 620 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52114-09
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: Apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 700 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52114-10-OS
NAME & ADDRESS OF UNIT OWNER: Kerr-McGee, NON-RESPONSIVE
DESCRIPTION AND COMMENTS: Service station, below ground fuel storage assumed greater than 500 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 600 ft. N

WELL NO. - MAP CODE - CLASSF*: 52114-11-XI
NAME & ADDRESS OF UNIT OWNER: Quality Cleaners, NON-RESPONSIVE
217/563-2312
DESCRIPTION AND COMMENTS: Dry cleaners, small quantity haz-waste generator, LPC #1350455004
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 210 ft. NE

WELL NO. - MAP CODE - CLASSF*: 52114-12
NAME & ADDRESS OF UNIT OWNER: Lipes Tire Service, NON-RESPONSIVE
217/563-2902
DESCRIPTION AND COMMENTS: Tire sales and service
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 190 ft. SE

WELL NO. - MAP CODE - CLASSF*: 52114-13
NAME & ADDRESS OF UNIT OWNER: Compton's Garage, NON-RESPONSIVE
217/563-2534
DESCRIPTION AND COMMENTS: Auto repair, below ground fuel storage
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 370 ft. S

APPENDIX: C3-Nokomis Well #10 (IEPA #52114) INVENTORY AND SYNOPSIS OF UNITS

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDAY	OS = POTENTIAL SECONDARY
RI = POTENTIAL ROUTE	OR = POTENTIAL ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 52114-15
NAME & ADDRESS OF UNIT OWNER: Unknown
DESCRIPTION AND COMMENTS: apparently abandoned building
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 520 ft. W

WELL NO. - MAP CODE - CLASSF*: 52114-16-OS
NAME & ADDRESS OF UNIT OWNER: Farmer's Oil Co., NON-RESPONSIVE
217/563-2221
DESCRIPTION AND COMMENTS: Service station, below ground fuel storage assumed greater than 25,000 gallons
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 570 ft. S

WELL NO. - MAP CODE - CLASSF*: 52114-18-CU
NAME & ADDRESS OF UNIT OWNER: Nokomis Area Development Council
DESCRIPTION AND COMMENTS: Abandoned water ski factory, 19 drums removed, possible below ground storage tank
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 720 ft. SW

WELL NO. - MAP CODE - CLASSF*: 52114-19-OX
NAME & ADDRESS OF UNIT OWNER: Easterday Cleaners, NON-RESPONSIVE
217/532-7132
DESCRIPTION AND COMMENTS: Dry cleaners
PRE OR POST (Y,N): Y
DISTANCE AND DIRECTION: 900 ft. SW

WB:lab/sp/1148k, 1-25

APPENDIX D

FACILITY: 1350450 NOKOMIS

OWNER		OFFICIAL CUSTODIAN	
MAYOR & COUNCIL		MICHAEL FINN	
CITY HALL		RR #2	
171 N PEARL		BOX 68	
WAVERLY	IL 62692	FILLMORE	IL 62032

WELL: NON-RESPONSIVE NON-RESPONSIVE [redacted] DEPTH(FT): 40
RNG: SEC: PLOT:
MINIMUM SETBACK(FT): 400* ---

WELL: [redacted] DEPTH(FT): 40
RNG: SEC: PLOT:
MINIMUM SETBACK(FT): 400* ---

WELL: [redacted] DEPTH(FT): 40
RNG: SEC: PLOT:
MINIMUM SETBACK(FT): 400* ---

WELL: [redacted] DEPTH(FT): 40
RNG: SEC: PLOT:
MINIMUM SETBACK(FT): 0400 ---

WELL: [redacted] DEPTH(FT): 37
10N RNG: 02W SEC: 22 PLOT: 4A
MINIMUM SETBACK(FT): NONE ---

WELL: [redacted] DEPTH(FT): 41
10N RNG: 02W SEC: 22 PLOT: 4B
MINIMUM SETBACK(FT): 0400 ---

WELL: [redacted] DEPTH(FT): 39
10N RNG: 02W SEC: 22 PLOT: 4B
MINIMUM SETBACK(FT): 0400 ---

FACILITY: 1350450 NOKOMIS (CONTINUED)

WELL (CONTINUED)

NON-RESPONSIVE

WELL

DEPTH(FT): 40
TWP: 10N RNG: 02W SEC: 22 PLOT: 1E

C2 --- MINIMUM SETBACK(FT): 0400 ---

WELL

DEPTH(FT): 47
TWP: 10N RNG: 02W SEC: 23 PLOT: 7G

C2 --- MINIMUM SETBACK(FT): 0400 ---

WELL

DEPTH(FT): 49
TWP: 10N RNG: 02W SEC: 23 PLOT: 8F

C2 --- MINIMUM SETBACK(FT): 0400 ---

SUSCEPTIBILITY CODES

LAND BURIAL: B2 = SAND AND GRAVEL, WITHIN 20 FT OF SURFACE, OVERLAIN AND UNDERLAIN BY RELATIVELY IMPERMEABLE TILL, OTHER FINE-GRAINED MATERIAL, AND/OR BEDROCK.

LAND SPREADING: C2 = SAND AND GRAVEL WITHIN 20 FT OF SURFACE, OVERLAIN AND UNDERLAIN BY RELATIVELY IMPERMEABLE TILL, OTHER FINE-GRAINED MATERIAL, AND/OR BEDROCK.

*NOTE: INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED. INACTIVE WELLS WHICH ARE IMPROPERLY ABANDONED ARE CONSIDERED POTENTIAL ROUTES ACCORDING TO P.A. 85-0863.

APPENDIX E

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: STATUS:
RAW SRCE: STATUS:

SAMPLE NO: B553357 LOCATION: 218 FRONT COLL DATE: 11/18/85 DELIVERED BY:
SMPL TYPE: DIS COLLECTOR: A BRICKLER LAB RCVD: 01/21/86 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 11/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		850.000			
		00403	PH LABORATORY UNITS		9.900			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		80.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.810			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		12.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		7.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		6.300			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		163.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		11.400			
		00940	CHLORIDE,TOTAL MG/L AS CL		80.000			
		00945	SULFATE,TOTAL MG/L AS SO4		208.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.350	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		8.400			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		10.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		180.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000 <	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		10.000	1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000 <	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000 <			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		530.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000 <	5000.000		
		01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		5.000 <			
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		525.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		510.000			
		71900	MERCURY,TOTAL UG/L AS HG		0.010 <	2.000		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SRCE: 52108 WELL 4 50 FT N WTP STATUS: A

SAMPLE NO: Z000558 LOCATION: WELL COLL DATE: 02/04/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 02/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.590			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.080			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		132.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		39.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		36.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		4.500			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		50.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		161.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.230	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		17.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		152.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		262.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		3532.000	1000.000*		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		650.000	150.000*		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		223.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		6.000			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000 <			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		754.000			
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.010 <	2.000		
0000001	034	00010	WATER TEMPERATURE DEG C		14.000			
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		25.000			
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		95.000-			
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1010.000			
0000001	038	00400	PH PH UNITS		6.700			
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3		356.000			
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		50.000			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

0000001 041 90410 355.000

SAMPLE NO: B052255 LOCATION: WELL #4 COLL DATE: 04/27/81 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: ALVIN BRICKER LAB RCVD: 05/22/81 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 04/81 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1350.000			
		00403	PH LABORATORY UNITS		6.900			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		420.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.400			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		600.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		177.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		48.300			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		67.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		0.700			
		00940	CHLORIDE,TOTAL MG/L AS CL		77.000			
		00945	SULFATE,TOTAL MG/L AS SO4		239.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.240	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		20.000			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		259.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		290.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		5.000	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		10.000	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		5570.000	1000.000*		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		799.000	150.000*		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		8.000			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		275.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		3.000	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		944.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		810.000			
		71900	MERCURY,TOTAL UG/L AS HG		0.050 <	2.000		

SAMPLE NO: Z000557 LOCATION: WELL COLL DATE: 02/04/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 02/86 FUND CODE:

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

ANALYSIS ID	PSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	015	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		14.000			
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		25.000			
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		95.000-			
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1010.000			
0000001	021	00400	PH PH UNITS		6.700			
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		356.000			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		50.000			
0000001	024	90410			355.000			

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SPCE: 52110 WELL 6 270 FT SW WTP STATUS: A

SAMPLE NO: Z000556 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 02/04/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 02/86 FUND CODE:

ANALYSIS ID	PSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		3.300			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010 <			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		146.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		41.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		88.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		150.000			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		207.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		203.000			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

0000001	011	00951	FLUORIDE,TOTAL MG/L AS F	0.190	4.000
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2	11.000	
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	1.000 <	50.000
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	120.000	1000.000
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500 <	
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	140.000	
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000 <	10.000
0000001	018	01034	CHROMIUM,TOTAL RECOVERAPLE UG/L ASCR ANAL BY ICB	5.000 <	50.000
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000 <	
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000 <	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	4789.000	1000.000*
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	983.000	150.000*
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	16.000	
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000 <	50.000
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	249.000	
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000 <	
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000 <	5000.000
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000 <	
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000 <	
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	1060.000	
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.010 <	2.000
0000001	034	00010	WATER TEMPERATURE DEG C	9.000	
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	30.000	
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	82.000-	
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	1560.000	
0000001	038	00400	PH PH UNITS	6.700	
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	385.000	
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	35.000	
0000001	041	90410		367.000	

SAMPLE NO: D86880900 LOCATION: NOKOMIS/RAW WELL 6
SMPL TYPE: RAW COLLECTOR: MICHAEL FINN
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 11/08/88 DELIVERED BY: MAIL
LAB RCVD: 11/09/88 RECEIVED BY: D V
LAB COMPL: 11/29/88 LAB SUPERVISOR: JTH
SMPL PERIOD: 11/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000		

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000 <	5.000
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	4.000	
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <	
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <	
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <	
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <	
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <	

SAMPLE NO: D86690900 LOCATION: NOKOMIS/WELL 6 COLL DATE: 08/16/88 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: MICHAEL FINN LAB RCVD: 08/17/88 RECEIVED BY: D V
SMPL PURP: 9-VARIANCE COMMENTS: VOCS LAB COMPL: 08/30/88 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOCS SMPL PERIOD: 08/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	5.000	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	7.000			
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: D86412500 LOCATION: NOKOMIS/WELL 6 COLL DATE: 04/18/88 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: F MARTIN LAB RCVD: 04/19/88 RECEIVED BY: S B
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S LAB COMPL: 05/24/88 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 04/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	2.000			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	7.000		
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	
431WV00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000	<	
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	
431WV00	019	81551	XYLENE UG/L	UG/L	1.000	<	

SAMPLE NO: D86194800 LOCATION: NOKOMIS/WELL 6
SMPL TYPE: RAW COLLECTOR: F MARTIN
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 01/18/88 DELIVERED BY: MAIL
LAB RCVD: 01/19/88 RECEIVED BY: D V
LAB COMPL: 02/02/88 LAB SUPERVISOR: JTH
SMPL PERIOD: 01/88 FUND CODE: PW30

ANALYSIS ID	RSL1 NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000	<			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<			
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<			
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	14.000		5.000*		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	21.000				
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<			
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000	<			
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<			
431WV00	019	81551	XYLENE UG/L	UG/L	1.000	<			

SAMPLE NO: D76074000 LOCATION: NOKOMIS/WELL 6
SMPL TYPE: RAW COLLECTOR: F MARTIN
SMPL PURP: 9-VARIANCE COMMENTS: VOC'S
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 11/09/87 DELIVERED BY: MAIL
LAB RCVD: 11/10/87 RECEIVED BY: D V
LAB COMPL: 12/15/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 11/87 FUND CODE: PW30

FACILITY: 1350450 NOKOMIS

*** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	4.000			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <			
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000		
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	12.000	5.000*		
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	16.000			
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431A 00	019	81551	XYLENE UG/L	UG/L	1.000 <			

SAMPLE NO: 075861100 LOCATION: NOKOMIS #6
SMPL TYPE: RAW COLLECTOR: FRANK MARTIN
SMPL PURP: 9-VARIANCE COMMENTS: VOCS
SMPL PROG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 08/25/87 DELIVERED BY: MAIL
LAB RCVD: 08/26/87 RECEIVED BY: D V
LAB COMPL: 09/02/87 LAB SUPERVISOR: JTH
SMPL PERIOD: 08/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000 <			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000 <			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <			
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <			
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000		
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000 <	5.000		
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	6.000	5.000*		
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	7.000			
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431A 00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000 <			
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <			
431A 00	019	81551	XYLENE UG/L	UG/L	1.000 <			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

SAMPLE NO: Z000555 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 02/04/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 02/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.900			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		9.000			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		30.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		82.000-			
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1560.000			
0000001	022	00400	PH PH UNITS		6.700			
0000001	023	00410	ALKALINITY,TOTAL MG/L AS CACO3		385.000			
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		35.000			
0000001	025	90410			367.000			

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SRCE: 52111 WELL 7 885 FT SW WTP 15 FT N WELL 5 STATUS: A

SAMPLE NO: Z000554 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: D-GHM PEST OBSRVATNS:

COLL DATE: 10/07/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 10/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	39023	PHORATE UG/L		0.050 <			
0000001	002	39300	P,P'-DDT UG/L		0.010 <			
0000001	003	39305	O,P'-DDT UG/L		0.010 <			
0000001	004	39310	P,P'-DDD UG/L		0.010 <			

FACILITY: 1350450 MOKO IIS

*** CONTINUED ***

0000001	005	39315	O,P'-DDD UG/L	0.010	<	
0000001	006	39320	P,P'-DDE UG/L	0.010	<	
0000001	007	39327	O,P'-DDE UG/L	0.010	<	
0000001	008	39330	ALDRIN UG/L	0.010	<	1.000
0000001	009	39340	LINDANE UG/L	0.010	<	4.000
0000001	010	39356	METOLACHLOR (DUAL) UG/L	0.100	<	
0000001	011	39380	DIELDRIN UG/L	0.010	<	1.000
0000001	012	39390	ENDRIN UG/L	0.010	<	0.200
0000001	013	39398	ETHION UG/L	0.050	<	
0000001	014	39400	TOXAPHENE UG/L	1.000	<	5.000
0000001	015	39410	HEPTACHLOR UG/L	0.010	<	0.100
0000001	016	39420	HEPTACHLOR EPOXIDE UG/L	0.010	<	0.100
0000001	017	39480	METHOXYCHLOR UG/L	0.050	<	100.000
0000001	018	39516	TOTAL PCB'S UG/L	0.100	<	
0000001	019	39530	MALATHION UG/L	0.050	<	
0000001	020	39570	DIAZINON UG/L	0.050	<	
0000001	021	39600	METHYL PARATHION UG/L	0.050	<	
0000001	022	39630	ATRAZINE (AATREX) UG/L	0.050	<	
0000001	023	39730	2,4-D UG/L	0.100	<	10.000
0000001	024	39760	SILVEX UG/L	0.050	<	10.000
0000001	025	39810	GAMMA CHLORDANE UG/L	0.010	<	
0000001	026	77825	ALACHLOR UG/L	0.020	<	
0000001	027	81294	DYFONATE UG/L	0.050	<	
0000001	028	81403	DURSBAN UG/L	0.050	<	
0000001	029	81757	CYANAZINE UG/L	0.050	<	
0000001	030	82088	TERBUFOS (COUNTER) UG/L	0.050	<	
0000001	031	00059	FLOW (PUMPING) RATE GAL/MIN	35.000		

SAMPLE NO: Z000553 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 09/30/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		9.100				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.160		10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.440				
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00940	CHLORIDE,TOTAL MG/L AS CL		287.000				
0000001	006	00945	SULFATE,TOTAL MG/L AS SO4		299.000				
0000001	007	00951	FLUORIDE,TOTAL MG/L AS F		0.120		4.000		
0000001	008	00956	SILICA,TOTAL MG/L AS SIO2		12.000				
0000001	009	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
0000001	010	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
0000001	011	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
0000001	012	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000	<			
0000001	013	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		1420.000				
0000001	014	71900	MERCURY,TOTAL UG/L AS HG		0.070		2.000		

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

0000001	015	00010	WATER TEMPERATURE DEG C	14.000
0000001	016	00059	FLOW (PUMPING) RATE GAL/MIN	35.000
0000001	017	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	40.000-
0000001	018	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	2230.000
0000001	019	00400	PH PH UNITS	6.200
0000001	020	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	35.000
0000001	021	90410		451.000

SAMPLE NO: B013943 LOCATION: WELL #7 COLL DATE: 10/03/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: ALVIN BRICKER LAB RCVD: 11/08/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 10/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1070.000			
		00403	PH LABORATORY UNITS		7.300			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		320.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.200			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		446.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		111.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		38.000			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		82.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.200			
		00940	CHLORIDE,TOTAL MG/L AS CL		58.000			
		00945	SULFATE,TOTAL MG/L AS SO4		199.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.250	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		20.000			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		3.000	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		176.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		1.000 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		280.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000 <	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		3300.000	1000.000*		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		181.000	150.000*		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		10.000			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		278.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000 <	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		698.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		640.000			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

71900	MERCURY,TOTAL UG/L AS HG		0.100	<	2.000

SAMPLE NO: Z000552 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 09/30/86 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <			
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		14.000			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		35.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		40.000-			
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		2230.000			
0000001	022	00400	PH PH UNITS		6.200			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		35.000			
0000001	024	90410			451.000			

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SRCE: 52112 WELL 8 2100' NE WTP AT FRONT &WALNUT STS STATUS: A

SAMPLE NO: B71463900 LOCATION: NOKOMIS WELL 8
SMPL TYPE: RAW COLLECTOR: W BORING
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 09/03/87 DELIVERED BY: UPS
LAB RCVD: 09/09/87 RECEIVED BY: MAD
LAB COMPL: 12/01/87 LAB SUPERVISOR: RPF
SMPL PERIOD: 09/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	756.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	321.000			
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.240	4.000		

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	50.000		
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	266.000		
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.230		
112T000	001	32730	PHENOLS, TOTAL RECOVERABLE UG/L	UG/L	5.000	<	
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	20.000		
115T000	001	00665	PHOSPHORUS, TOTAL MG/L AS P	MG/L	0.110		
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	124.000		
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	41.000		
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	85.000		
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	1.200		
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	55.000		
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	149.000		1000.000
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	329.000		
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000	<	
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<	
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	4016.000		1000.000*
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	691.000		150.000*
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<	
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	252.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<	
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	474.000		
5001200	001	72037	PUMPING RATE GPM	GAL/M	50.000		
5001200	002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	1040.000		
5001200	003	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	MV	32.000-		
5001200	004	00400	PH PH UNITS	UNITS	6.810		
5001200	005	00010	WATER TEMPERATURE DEG C	DEG.C	15.800		

SAMPLE NO: B020486 LOCATION: WELL #8 COLL DATE: 11/21/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: ALVIN BRICKER LAB RCVD: 01/17/84 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 11/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1120.000			
		00403	PH LABORATORY UNITS		7.300			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		330.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.360			

FACILITY: 1350450 NOKOMIS

*** CONTINUED ***

00630	NITRATE & NITRITE TOTAL MG/L AS N	0.100	<	10.000
00720	CYANIDE,TOTAL MG/L AS CN	0.005	<	0.200
00900	HARDNESS,EDTA MG/L AS CACO3	443.000		
00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	109.000		
00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	38.000		
00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	83.000		
00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	1.000		
00940	CHLORIDE,TOTAL MG/L AS CL	59.000		
00945	SULFATE,TOTAL MG/L AS SO4	204.000		
00951	FLUORIDE,TOTAL MG/L AS F	0.250		4.000
00956	SILICA,TOTAL MG/L AS SIO2	21.000		
01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	1.000	<	50.000
01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	158.000		1000.000
01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	<	
01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	270.000		
01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000	<	10.000
01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	5.000	<	50.000
01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	3100.000		1000.000*
01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	10.000		50.000
01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	472.000		150.000*
01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000	<	50.000
01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	282.000		
01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000	<	
01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	5.000	<	5000.000
01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000	<	
01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000
70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	720.000		
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	670.000		
71900	MERCURY,TOTAL UG/L AS HG	0.100	<	2.000

SAMPLE NO: D75894700 LOCATION: NOKOMIS/WELL #8 COLL DATE: 09/03/87 DELIVERED BY: W B
SMPL TYPE: RAW COLLECTOR: W BORING LAB RCVD: 09/04/87 RECEIVED BY: D V
SMPL PURP: 5-SPEC/OTHR COMMENTS: VOCS LAB COMPL: 10/06/87 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2VOCS SMPL PERIOD: 09/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L CG/MS	UG/L	1.000	<			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	004	32104	BROMOFORM UG/L CG/MS	UG/L	1.000	<			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<			
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<			

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000
431A 00	011	32102	CARBON TETRACHLORIDE UG/L CG/MS	UG/L	1.000	<	5.000
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	20.000		
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<	
431A 00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000	<	
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	
431A 00	019	81551	XYLENE UG/L	UG/L	1.000	<	
5001200	001	72037	PUMPING RATE GPM	GAL/M	50.000		
5001200	002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	1040.000		
5001200	003	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	MV	32.000-		
5001200	004	00400	PH PH UNITS	UNITS	6.810		
5001200	005	00010	WATER TEMPERATURE DEG C	DEG.C	15.800		

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SRCE: 52113 WELL 9 1880' NE WLL & 50' NE FRNT & MAPL STATUS: A

SAMPLE NO: B71464000 LOCATION: NOKOMIS WELL 9 COLL DATE: 09/03/87 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: W BORING LAB RCVD: 09/09/87 RECEIVED BY: MAD
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 12/01/87 LAB SUPERVISOR: RPF
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	663.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	309.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.280		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	59.000				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	181.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.300				
112T000	001	32730	PHENOLS, TOTAL RECOVERABLE UG/L	UG/L	5.000	<			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	21.000				
115T000	001	00665	PHOSPHORUS, TOTAL MG/L AS P	MG/L	0.110				
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	110.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	38.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	82.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	1.100				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	173.000			1000.000	
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	224.000				

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000	<	
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<	
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	2843.000		1000.000*
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	407.000		150.000*
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<	
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	286.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<	
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	428.000		
5001200	001	72037	PUMPING RATE GPM	GAL/M	50.000		
5001200	002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	1100.000		
5001200	003	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	MV	48.000-		
5001200	004	00400	PH PH UNITS	UNITS	6.990		
5001200	005	00010	WATER TEMPERATURE DEG C	DEG.C	15.400		

SAMPLE NO: B013945 LOCATION: WELL #9 COLL DATE: 10/03/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: ALVIN BRICKER LAB RCVD: 11/08/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 10/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1080.000				
		00403	PH LABORATORY UNITS		7.300				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		303.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.140				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.120		10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		446.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		105.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		37.700				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		86.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.100				
		00940	CHLORIDE,TOTAL MG/L AS CL		60.000				
		00945	SULFATE,TOTAL MG/L AS SO4		208.000				
		00951	FLUORIDE,TOTAL MG/L AS F		0.250		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		20.000				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		173.000		1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		280.000				
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000	<	5000.000		

FACILITY: 1350450 NOKOMIS *** CONTINUED ***

01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	3100.000		1000.000*
01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	157.000		150.000*
01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	16.000		
01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000	<	50.000
01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	269.000		
01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	4.000	<	
01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	5.000		5000.000
01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000
70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	709.000		
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	650.000		
71900	MERCURY,TOTAL UG/L AS HG	0.100	<	2.000

SAMPLE NO: D75894800 LOCATION: NOKOMIS/WELL #9 COLL DATE: 09/03/87 DELIVERED BY: W B
SMPL TYPE: RAW COLLECTOR: W BORING LAB RCVD: 09/04/87 RECEIVED BY: D V
SMPL PURP: 5-SPEC/OTHR COMMENTS: VOCS LAB COMPL: 10/06/87 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2VOCS SMPL PERIOD: 09/87 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431A 00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431A 00	002	32101	BROMODICHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	004	32104	BROMOFORM UG/L GC/MS	UG/L	1.000	<			
431A 00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<			
431A 00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000		
431A 00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<			
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<			
431A 00	009	77279	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<			
431A 00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000		
431A 00	011	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000	<	5.000		
431A 00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000		
431A 00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<			
431A 00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<			
431A 00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<			
431A 00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000		
431A 00	017	78131	TOLUENE UG/L	UG/L	1.000	<			
431A 00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<			
431A 00	019	81551	XYLENE UG/L	UG/L	1.000	<			
5001200	001	72037	PUMPING RATE GPM	GAL/M	50.000				
5001200	002	00094	CONDUCTIVITY - FIELD (UMHOS/CM @ 25 C)	UM/CM	1100.000				
5001200	003	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	MV	48.000-				
5001200	004	00400	PH PH UNITS	UNITS	6.990				
5001200	005	00010	WATER TEMPERATURE DEG C	DEG.C	15.400				

FACILITY: 1350450 NOKOMIS STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 AT WTP STATUS: A
RAW SRCE: 52114 WELL 10 1060' NE WLL 8 AT FRUT & PINE ST STATUS: A

SAMPLE NO: Z000561 LOCATION: WELL COLL DATE: 02/04/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: P-GWM PEST OBSRVATNS: SMPL PERIOD: 02/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	39023	PHORATE UG/L		0.050 <			
0000001	002	39300	P,P'-DDT UG/L		0.010 <			
0000001	003	39305	O,P'-DDT UG/L		0.010 <			
0000001	004	39310	P,P'-DDD UG/L		0.010 <			
0000001	005	39315	O,P'-DDD UG/L		0.010 <			
0000001	006	39320	P,P'-DDE UG/L		0.010 <			
0000001	007	39327	O,P'-DDE UG/L		0.010 <			
0000001	008	39330	ALDRIN UG/L		0.010 <	1.000		
0000001	009	39340	LINDANE UG/L		0.010 <	4.000		
0000001	010	39380	DIELDRIN UG/L		0.010 <	1.000		
0000001	011	39390	ENDRIN UG/L		0.010 <	0.200		
0000001	012	39398	ETHION UG/L		0.050 <			
0000001	013	39400	TOXAPHENE UG/L		1.000 <	5.000		
0000001	014	39410	HEPTACHLOR UG/L		0.010 <	0.100		
0000001	015	39420	HEPTACHLOR EPOXIDE UG/L		0.010 <	0.100		
0000001	016	39480	METHOXYCHLOR UG/L		0.050 <	100.000		
0000001	017	39516	TOTAL PCB'S UG/L		0.100 <			
0000001	018	39530	MALATHION UG/L		0.050 <			
0000001	019	39570	DIAZINON UG/L		0.050 <			
0000001	020	39600	METHYL PARATHION UG/L		0.050 <			
0000001	021	39730	2,4-D UG/L		0.010 <	10.000		
0000001	022	39760	SILVEX UG/L		0.050 <	10.000		
0000001	023	39810	GAMMA CHLORDANE UG/L		0.010 <			
0000001	024	81294	DYFONATE UG/L		0.050 <			
0000001	025	81403	DURSBAN UG/L		0.050 <			
0000001	026	82088	TERBUFOS (COUNTER) UG/L		0.050 <			
0000001	027	00010	WATER TEMPERATURE DEG C		14.000			
0000001	028	00059	FLOW (PUMPING) RATE GAL/MIN		50.000			
0000001	029	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		96.000-			
0000001	030	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1080.000			
0000001	031	00400	PH PH UNITS		6.700			
0000001	032	00410	ALKALINITY,TOTAL MG/L AS CACO3		309.000			
0000001	033	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		120.000			
0000001	034	90410			308.000			

SAMPLE NO: Z000560 LOCATION: WELL COLL DATE: 02/04/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 02/86 FUND CODE:

FACILITY: 1350450 NOKOMIS

*** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.280			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.090			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		120.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		40.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		92.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.400			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		96.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		244.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.240	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		20.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		201.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		353.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		3392.000	1000.000*		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		558.000	150.000*		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		304.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000 <			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000 <			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		824.000			
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.010 <	2.000		
0000001	034	00010	WATER TEMPERATURE DEG C		14.000			
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		50.000			
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		96.000-			
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1080.000			
0000001	038	00400	PH PH UNITS		6.700			
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3		309.000			
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		120.000			
0000001	041	90410			308.000			

SAMPLE NO: B013944 LOCATION: WELL #10
SMPL TYPE: RAW COLLECTOR: ALVIN BRICKER
SMPL PURP: 1-ROUTINE COMMENTS:
SMPL PROG: I-GWU INORG OBSRVATNS:

COLL DATE: 10/03/83 DELIVERED BY:
LAB RCVD: 11/08/83 RECEIVED BY:
LAB COMPL: LAB SUPERVISOR:
SMPL PERIOD: 10/83 FUND CODE:

FACILITY: 1350450 MOEDMIS

*** CONTINUED ***

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1060.000			
		00403	PH LABORATORY UNITS		7.200			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		315.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.210			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.120	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		450.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		112.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		38.700			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		84.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.200			
		00940	CHLORIDE,TOTAL MG/L AS CL		59.000			
		00945	SULFATE,TOTAL MG/L AS SO4		206.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.250	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		20.000			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		171.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		1.000 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		280.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000 <	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		3300.000	1000.000*		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		173.000	150.000*		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		7.000			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		274.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000 <	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		703.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		640.000			
		71900	MERCURY,TOTAL UG/L AS HG		0.100 <	2.000		

SAMPLE NO: Z000559 LOCATION: WELL COLL DATE: 02/04/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 02/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		

FACILITY: 1350450 NOKOMIS

*** CONTINUED ***

0000001	004	32104	BROMOFORM UG/L CG/MS	1.000	<	
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	1.000	<	
0000001	006	32106	CHLOROFORM UG/L GC/MS	1.000	<	
0000001	007	34010	TOLUENE UG/L	1.000	<	
0000001	008	34030	BENZENE UG/L	1.000	<	5.000
0000001	009	34301	CHLOROBENZENE UG/L	1.000	<	
0000001	010	34371	ETHYLBENZENE UG/L	1.000	<	
0000001	011	34423	METHYLENE CHLORIDE UG/L	1.000	<	
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS	1.000	<	
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS	1.000	<	
0000001	014	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	1.000	<	200.000
0000001	015	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	1.000	<	
0000001	016	39180	TRICHLOROETHYLENE UG/L	1.000	<	5.000
0000001	017	00010	WATER TEMPERATURE DEG C	14.000		
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN	50.000		
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	96.000-		
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	1080.000		
0000001	021	00400	PH PH UNITS	6.700		
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3	309.000		
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	120.000		
0000001	024	90410		308.000		

APPENDIX F

Illinois
Environmental
Protection Agency

Office of Chemical Safety
2200 Churchill Road, P.O. Box 19276
Springfield, Illinois 62794-9276

IEPA/ENV/87-001-1 December, 1986

-TRICHLOROETHYLENE-

CHEMICAL INFORMATION SHEET*

WHAT IS TRICHLOROETHYLENE?

Trichloroethylene (TCE; trichloroethene; ethylene trichloride) is a nonflammable, highly volatile, colorless liquid used extensively for degreasing of fabricated metal parts. It has been estimated that from 80 to 95 percent of the TCE produced in the United States is used in the degreasing process. The remaining 5 to 20 percent is either exported or used for miscellaneous applications. Miscellaneous uses of TCE include paint-stripping formulations, adhesive formulations, carrier solvent in industrial paint systems, and a solvent in textile dyeing and finishing. TCE has been discontinued in the United States for use as an inhalation anesthetic, in fumigant mixtures, and as an extractant in the decaffeination of coffee because of environmental and health restrictions.

Trichloroethylene has been produced commercially in the United States since 1925 and is also produced in Europe and Japan. The production of TCE has been declining in recent years due primarily to legislation restricting its use and emissions. According to statistics published by the U.S. International Trade Commission (1982), 129,397 tons of TCE were produced in 1981.

HOW DOES TCE GET INTO THE ENVIRONMENT?

There are no known natural sources of TCE. TCE enters the environment through evaporation into the air during production and use. Although most environmental contamination of TCE is released to the air, it has also been found as a contaminant of rivers, lakes, drinking waters, soils, food and drink, marine and freshwater organisms, and humans. TCE in surface waters may occur as a result of direct contamination or from atmospheric contamination by rainfall. However, due to certain chemical properties, TCE is not expected to persist in the open environment. It may, however, persist for long periods of time if it becomes "sheltered" in an area of the environment where evaporation and other physical and chemical processes of removal are difficult (especially in groundwater).

WHAT ARE THE HEALTH EFFECTS ASSOCIATED WITH TCE EXPOSURE?

Short-term exposure -- Numerous cases of short-term and accidental exposure to TCE have been documented and provide some information about its effects on humans. These exposures usually occur through inhalation of vapors released in industrial accidents and through accidental ingestion or skin contact. Exposure to TCE vapor may cause irritation of the eyes, nose, and throat. The liquid, if splashed in the eyes, may cause burning, irritation, and damage. Repeated or prolonged skin contact with the liquid may cause inflammation of the skin.

Short-term exposure to high concentrations of TCE results in depression of the central nervous system. The symptoms most often described are mild eye irritation, nausea, dizziness, headache, tremors, and confusion. Mild irritation occurs at levels near 200 ppm (parts per million). Hand steadiness, coordination, and possibly depth perception are affected at 1000 ppm and perhaps below. If combined with alcohol ingestion, TCE can produce these effects at levels of 200 to 300 ppm. The lowest concentration to produce unconsciousness in adult humans is 3000 ppm. With high enough concentrations, one could possibly die from respiratory or cardiac failure.

Long-term exposure -- Case reports indicate that symptoms involved in short-term exposure situations also are present in long-term exposure but in more extreme and persistent forms. Extended exposure can increase the duration and intensity of nausea, dizziness, and headache, but eye irritation and sense of smell are reduced. Confusion, reduced reasoning ability, impaired short-term memory, tremors, and muscular incoordination also are reported. The minimum exposure for such complaints is difficult to estimate since such data are gathered from workplace surveys with all of the attendant problems in quantification and control. It appears that these effects, however, are absent below 85 to 100 ppm.

The mutagenic potential (capability of causing changes or transformations in genes) of TCE has been investigated by the use of several test methods and in many different organisms. The mutagenic effects were observed only at high dose levels which indicates that TCE is only weakly mutagenic. TCE has been found to cause liver tumors in mice following oral administration. The applicability of mouse liver tumors for assessing cancer risk to humans is disputed. USEPA considers the evidence sufficient to consider TCE a probable human carcinogen. Also, there is no evidence that TCE is responsible for toxicity to the embryo or developing fetus or causes overt birth defects in humans at levels below the toxicity level to the mother.

HOW IS TCE REGULATED?

Threshold limit values adopted by the American Conference of Governmental Industrial Hygienists refer to airborne concentrations of substances and represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect. The threshold limit value for TCE is 50 ppm as an average eight hour exposure limit for a 5-day workweek. A Maximum Contaminant Level (MCL) of 5 ppb (parts per billion) for TCE in drinking water has been proposed under the Safe Drinking Water Act.

*Note: This information sheet is a summary of readily available data regarding the general nature and effects of this chemical. The reader is encouraged to consult other sources or an appropriate professional if a more detailed explanation for specific concerns is desired.

CS:sf/1033g,62-63

Environmental
Protection Agency

2200 Churchill Road, P.O. Box 19276
Springfield, Illinois 62794-9276

IEPA/ENV/88-024 July, 1988

- TETRACHLOROETHYLENE -
CHEMICAL INFORMATION SHEET*

WHAT IS TETRACHLOROETHYLENE?

Tetrachloroethylene (perchloroethylene; PCE; perc; tetrachloroethene) is a nonflammable, volatile, colorless liquid having a chloroform-like or ether-like odor. It is widely used as a dry cleaning agent, and is also extensively used as a solvent for metal degreasing in a variety of industries, such as metal and machine shops and automotive repair shops. Other uses of PCE include: solvent in textile manufacturing; starting material or intermediate in the production of other chemicals, especially Freon F-113; component of various types of home fabric and metal cleaners, spot removers, and paint removers; heat transfer fluid; and component of certain automobile care products such as brake cleaners, silicone lubricants, belt lubricants, ignition wire driers, and engine cleaners. Past uses of PCE included medical use in the treatment of hookworm and other infestations, as a vegetable fumigant, and as a component of certain aerosols and shoe polishes.

Total United States production of PCE for 1986 amounted to approximately 414 million pounds, of which over 50% was used in the dry cleaning and textile manufacturing industries. Production has been declining in recent years, due in part to decreased demand in the dry cleaning industry and increased efficiency and recycling among most users.

HOW DOES PCE GET INTO THE ENVIRONMENT?

There are no known natural sources of PCE. Its main route of entry into the environment is from evaporation during dry cleaning and degreasing uses. Less significant releases to the environment (but potentially important locally) include: evaporation and leaching from disposal sites; emissions from production sites and from its use in the production of other chemicals; evaporation from textile manufacturing processes; and evaporation from the many household products in which PCE is a component. Since the greatest amount of PCE released to the environment is from dry cleaning and industrial sources, its ambient air concentration is generally higher in urban areas than rural. These "background" concentrations generally range from parts per trillion (ppt) to low parts per billion (ppb) levels. Occupational exposures (and occasionally environmental levels close to emission sources) can occur at the parts per million (ppm) level. PCE has also been detected in raw and finished public water supplies, surface waters, groundwater, and in soils and sediments, usually as a result of leaching, spills, leaks, etc. from sites where PCE is used or disposed. Rarely, residues of PCE have been found in food items and aquatic organisms.

Typically, PCE will evaporate to the atmosphere and be broken down by sunlight and reactive atmospheric gases such as ozone. Thus, it is not expected to persist in soils, sediments, or surface waters which are "open" to the atmosphere. However, if PCE becomes confined in a part of the environment where evaporation is hindered or impossible, such as in deeper soils or sediments or in groundwater, it may persist for long periods of time.

WHAT ARE THE HEALTH EFFECTS ASSOCIATED WITH PCE EXPOSURE?

Short-term exposure -- The acute effects of PCE on humans have been documented from accidental or occupational exposures, often to very high inhaled or ingested levels of PCE. A variety of symptoms have been reported, chief among them being effects on the central nervous system (CNS), liver, and kidneys. CNS effects include dizziness, headache, nausea, impaired mental and physical function, sleepiness, and in severe cases coma and death. Minor CNS effects are expected at air concentrations around 100 ppm, whereas levels in air

necessary to produce severe effects such as unconsciousness are in the range of thousands of ppm. Minor CNS effects from ingestion (drinking) of PCE are expected at around 60 ppm.

The effects on liver and kidney function are delayed, occurring sometime after exposure to high concentrations of PCE. Other organs or tissues which have been reported to be affected by short-term exposure to PCE in air include the respiratory system, eyes, skin, and heart. Vapor concentrations greater than 200 ppm cause irritation of the eyes, nose, and throat. Direct skin contact for 5 to 10 minutes has been shown to cause mild to moderate burning sensations, redness, and blistering. In almost all cases, the short-term effects of PCE exposure are reversible.

Long-term exposure -- Information on the long-term effects of PCE exposure comes mainly from occupational studies. Because of the ways PCE is used in industry, workers are usually exposed to other chemicals as well. Often, these studies have not compared workers to unexposed controls. Furthermore, the length and amount of exposure is rarely known to the degree necessary to associate exposure levels with symptoms. Therefore, there is a degree of uncertainty associated with some of the reported long-term health effects of PCE.

Most studies have found that many of the temporary effects reported in short-term, higher level exposures are also seen in long-term, lower level exposures, but on a more continuous or permanent basis. Frequent dizziness, headaches, and nausea; fatigue; and disorientation have been reported to occur long after exposure has ceased. Other CNS symptoms not seen following short-term, high level exposures have also been documented following long-term, lower level exposures, such as deficits in short-term memory, incoordination of muscles, irritability, and sleep disturbances. Furthermore, these symptoms may be irreversible in some individuals. It is much less certain whether the effects on liver, kidneys, heart, and respiratory system seen after high level exposures are also experienced as a result of long-term lower level exposures. From the available data, it appears that long-term, noncancer health effects are not seen at levels below 100 ppm in air. Data concerning ingestion exposures in humans are even more limited. Results from animal studies indicate that daily intake of 14 mg/kg (ppm) PCE causes no adverse noncancer health effects. Using a 1000-fold safety factor, the estimated no-effect level in humans is 0.014 mg/kg/day (ppm).

The cancer-causing potential of PCE has been examined in several animal studies. It has been shown to cause leukemia in rats and liver tumors in mice. The majority of studies examining the mutation-causing ability of PCE have found it to be non-mutagenic, or at most, weakly mutagenic. Several epidemiological studies of workers exposed to PCE (and other industrial chemicals) provide inconclusive evidence regarding the carcinogenicity of PCE in humans. Based on these findings, USEPA considers the evidence sufficient to rank PCE as a probable human carcinogen. However, USEPA's independent review board, the Science Advisory Board, at this time disputes some of the findings, ranking PCE as a possible human carcinogen.

HOW IS PCE REGULATED?

Threshold Limit Values (TLV) adopted by the American Conference of Governmental Industrial Hygienists refer to airborne concentrations of substances and represent conditions under which it is believed that nearly all healthy workers may be repeatedly exposed without adverse effect. The TLV for PCE is 50 ppm as an average eight-hour exposure limit for a five-day work week. The non-enforceable Ambient Water Quality Criterion, established by USEPA under the Clean Water Act, is 0.8 ug/l (ppb) for surface waters, based on the risk to human health from consumption of contaminated water and fish. PCE is a hazardous waste under the Resource Conservation and Recovery Act, and its disposal is therefore regulated by this Act.

TH:rd2270j/62-63

*Note: This information sheet is a summary of readily available data regarding the general nature and effects of this chemical. The reader is encouraged to consult other sources or an appropriate professional if a more detailed explanation for specific concerns is desired.

Printed by authority of the State of Illinois Job 17895 9/88 500

APPENDIX G

Illinois
Environmental
Protection Agency

Office of Chemical Safety
2200 Churchill Road, P.O. Box 19276
Springfield, Illinois 62794-9276

IEPA/ENV/87-001-6 April, 1987

- GLOSSARY -
CHEMICAL INFORMATION SHEET

absorption - the movement of a chemical into the bloodstream or other body fluid or tissue after its entrance into the body through the skin, lungs, or gastrointestinal tract.

acute - sharp, severe; having a relatively rapid onset, often with severe symptoms and a relatively short course. In toxicology refers to a single large exposure to a chemical (acute exposure), or to the development of symptoms of poisoning soon after a single exposure to a substance (acute toxicity).

ACGIH - the American Conference of Governmental Industrial Hygienists. It recommends upper limits (see TLV) for exposure to workplace chemicals.

bioconcentration - the process in and by which chemical substances are accumulated in living organisms above their concentration in the environment. For example, a chemical is spilled into a river or lake and is ingested and stored by small organisms like plankton; small fish eat the plankton; and large fish eat the smaller fish. As this process occurs, the chemical becomes thousands of times more concentrated in the tissues of the large fish than in the plankton or the water. Usually occurs with fat-soluble compounds rather than water-soluble compounds.

biodegradation - the breaking down of an organic substance, resulting from the complex action of living organisms.

cancer - a group of diseases characterized by malignant, uncontrolled growth of cells of body tissue (tumors).

carcinogen - a term applied generally to any substance that is capable of producing cancer or increasing the growth and spreading of tumors in an organism.

chronic - occurring over a period of time. In toxicology refers to repeated exposure (chronic exposure) to a chemical for a relatively long period of time or persistence of symptoms or disease over a long period of time (chronic toxicity).

epidemiology - the study of the incidence, distribution, and control of disease in human populations.

leaching - downward movement of a material in solution through soil.

Maximum Contaminant Level (MCL) - the maximum permissible level of a contaminant that is allowed in a public water supply system.

metabolism - the changes that a chemical undergoes in an organism. The products of metabolism may be more or less active in the organism than the original (parent) compound. In animals, many of these products find their way to body excretions, for example through lung exhalation, urine, or feces. Tracing the pathways of metabolism is important to shed light on possible relationships between chemicals and particular health effects.

mg/m^3 - means milligrams of a chemical in a cubic meter of air. It is a density measurement expressing the amount of air pollutant in a given volume of air.

mutagen - a substance that causes a change in the genetic material in a body cell, called a mutation. Mutations may lead to birth defects, miscarriages, or cancer, or they may have no obvious effect, depending on what genetic material is damaged and on where the damage occurs.

persistent - existing for a long time in the environment or the body. For chemicals, this means not easily broken down; for the effects of chemicals, this means the effect remains or recurs long after exposure to the chemical.

pesticide - a general term used to describe a product designed to kill or control unwanted organisms; for example, herbicides are designed to control unwanted plants, insecticides are designed to control unwanted insects, fungicides are designed to control fungus and mold, etc.

ppb - an expression describing a small concentration, equal to an amount of one substance in a billion parts of another material; for example, one drop of alcohol in 16,000 gallons of water.

ppm - an expression describing a small concentration, equal to an amount of one substance in a million parts of another material; for example, one drop of alcohol in 16 gallons of water.

solvent - a liquid substance capable of dissolving or dispersing one or more other substances.

teratogen - a substance that causes stillbirths, birth defects, or malformations by affecting the growing fetus.

TLV - is the Threshold Limit Value for air. The TLV is a workplace exposure limit recommended by ACGIH and represents conditions under which it is believed that nearly all workers may be repeatedly exposed to a substance day after day without adverse effect.

toxicology - the study of the adverse effects of chemicals on living organisms.

volatile - readily vaporizable at a relatively low temperature.

CS:ba/sp2116g/1-2

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the State of Illinois
Job #16717 7/87 500

REFERENCE NUMBER 2

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: LPC#1350450001--Montgomery
Nokomis/Hedlund Mfg.
Superfund/Technical Report

February 28, 1990

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Dear Mr. Fuller:

The information concerning the removal of the drums from the above-captioned site was received. The Agency would like to thank you for your commitment in the removal of the drums to Clayton Chemical for resource recovery.

In my February 1, 1989 letter to you, the Agency had a concern about the paint residue in the spray paint booths. According to the results that were analyzed by Teklab, Inc., of Collinsville, Illinois, the composite sample of the two small point booths is hazardous for lead. Before the building is demolished or transfered, the spray paint booths should be addressed.

After your review of this letter, the Agency would like to meet with you at the site to discuss the contents of this letter. Please give me a call at the above number to schedule a meeting.

Sincerely,

Kenneth L. Page

Kenneth L. Page, Project Manager
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control

KLP:pss

cc: Division File
Springfield Region

REFERENCE NUMBER

FULLER BROS. READY MIX DIV.
P. O. Box 576

Hillsboro, Illinois 62049

Ph. 217-532-2422

February 13, 1990

Ken Page, Project Manager
Remedial Management Section
Division of Land Pollution Control
2200 Churchill Road - P.O. Box 19276
Springfield, IL 62794-9276

REF: LPC #1350450001

Dear Mr. Page,

Please find attached the following items:

1. Analysis Results copy
2. Waste Manifest of Generator Transporter and Facility owner receipt of waste
3. Certificate of Resource Recovery in disposal of waste

As per our telephone conversation, I think this is the information requested.

Respectfully,

Willard G. Fuller

Willard G. Fuller

WGF/mb

Enclosure

RECEIVED
FEB 14 1990

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23702

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
NoKomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Composite Barrels [redacted] #1B [redacted] #3A & #3[redacted]
Sample Date	04/12/89
Lab ID	90412-19

ANALYSIS RESULTS

Total Solids	84.3	%
pH	4.4	(1:10 Slurry)
Phenol	6	mg/kg
Cyanide (Total)	6	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	26	mg/kg
Sulfide (Reactive)	7	mg/kg
Flash Point	>200°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	5.81	mg/kg
Barium	<0.1	mg/l	<0.91	mg/kg
Cadmium	<0.007	mg/l	0.118	mg/kg
Chromium	<0.03	mg/l	10	mg/kg
Lead	<0.05	mg/l	1150	mg/kg
Mercury	<0.0002	mg/l	0.0335	mg/kg
Selenium	<0.002	mg/l	<0.040	mg/kg
Silver	<0.01	mg/l	0.46	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

RECEIVED
FEB 14 1990

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23703

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
NoKomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Composite Barrels [redacted]
Sample Date	04/12/89
Lab ID	90412-20

ANALYSIS RESULTS

Total Solids	77.9	%
pH	5.4	(1:10 Slurry)
Phenol	<5	mg/kg
Cyanide (Total)	9	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	132	mg/kg
Sulfide (Reactive)	11	mg/kg
Flash Point	>200°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	<0.038	mg/kg
Barium	<0.1	mg/l	180	mg/kg
Cadmium	<0.007	mg/l	1.42	mg/kg
Chromium	<0.03	mg/l	2100	mg/kg
Lead	0.39	mg/l	17500	mg/kg
Mercury	0.0003	mg/l	0.0536	mg/kg
Selenium	<0.002	mg/l	<0.038	mg/kg
Silver	<0.01	mg/l	2.8	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989

REPORT #23704

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Composite Barrels [redacted] & [redacted]
Sample Date	04/12/89
Lab ID	90412-21

ANALYSIS RESULTS

Total Solids	90.1	%
pH	3.6	(1:10 Slurry)
Phenol	11	mg/kg
Cyanide (Total)	<1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	12	mg/kg
Sulfide (Reactive)	<5	mg/kg
Flash Point	>200°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	2.20	mg/kg
Barium	<0.1	mg/l	24	mg/kg
Cadmium	<0.007	mg/l	0.383	mg/kg
Chromium	0.04	mg/l	2200	mg/kg
Lead	0.36	mg/l	1130	mg/kg
Mercury	0.0010	mg/l	0.2102	mg/kg
Selenium	<0.002	mg/l	<0.040	mg/kg
Silver	<0.01	mg/l	0.44	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23705

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Barrel [redacted]
Sample Date	04/12/89
Lab ID	90412-22

ANALYSIS RESULTS

Total Solids	4.47	%
pH	5.9	
Phenol	<5	mg/kg
Cyanide (Total)	1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	19	mg/kg
Sulfide (Reactive)	<5	mg/kg
Flash Point	132°F	
Paint Filter Test	Failed	
TOX	<1000	mg/kg

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	0.511	mg/l	70.6	mg/kg
Barium	0.1	mg/l	110	mg/kg
Cadmium	0.062	mg/l	0.153	mg/kg
Chromium	0.16	mg/l	1300	mg/kg
Lead	47	mg/l	6500	mg/kg
Mercury	<0.0002	mg/l	0.0473	mg/kg
Selenium	<0.002	mg/l	0.048	mg/kg
Silver	<0.01	mg/l	0.19	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23706

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Barrel [redacted]
Sample Date	04/12/89
Lab ID	90412-23

ANALYSIS RESULTS

Total Solids	73.5	%
pH	5.5	(1:10 Slurry)
Phenol	29	mg/kg
Cyanide (Total)	<1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	27	mg/kg
Sulfide (Reactive)	9	mg/kg
Flash Point	75°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	0.006	mg/l	0.830	mg/kg
Barium	<0.1	mg/l	<1.3	mg/kg
Cadmium	<0.007	mg/l	0.553	mg/kg
Chromium	<0.03	mg/l	8.2	mg/kg
Lead	0.10	mg/l	9.8	mg/kg
Mercury	0.0055	mg/l	0.1064	mg/kg
Selenium	<0.002	mg/l	<0.036	mg/kg
Silver	<0.01	mg/l	0.77	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989

REPORT #23707

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Barrel [redacted]
Sample Date	04/12/89
Lab ID	90412-24

ANALYSIS RESULTS

Total Solids	7.43	%
pH	3.2	
Phenol	<5	mg/kg
Cyanide (Total)	<1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	78	mg/kg
Sulfide (Reactive)	21	mg/kg
Flash Point	69°F	
Paint Filter Test	Failed	
TOX	<1000	mg/kg

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	0.002	mg/l	0.048	mg/kg
Barium	<0.1	mg/l	<1.0	mg/kg
Cadmium	<0.007	mg/l	<0.070	mg/kg
Chromium	<0.03	mg/l	1.7	mg/kg
Lead	<0.05	mg/l	1.3	mg/kg
Mercury	0.0005	mg/l	0.0132	mg/kg
Selenium	<0.002	mg/l	<0.037	mg/kg
Silver	<0.01	mg/l	<0.10	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23708

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	[redacted]
Sample Date	04/12/89
Lab ID	90412-25

ANALYSIS RESULTS

Total Solids	38.5	%
pH	5.2	
Phenol	5	mg/kg
Cyanide (Total)	<1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	199	mg/kg
Sulfide (Reactive)	29	mg/kg
Flash Point	>200°F	
Paint Filter Test	Failed	
TOX	<1000	mg/kg

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	<0.037	mg/kg
Barium	<0.1	mg/l	<0.85	mg/kg
Cadmium	<0.007	mg/l	<0.060	mg/kg
Chromium	<0.03	mg/l	0.94	mg/kg
Lead	<0.05	mg/l	0.68	mg/kg
Mercury	<0.0002	mg/l	<0.0160	mg/kg
Selenium	<0.002	mg/l	<0.037	mg/kg
Silver	<0.01	mg/l	<0.08	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989

REPORT #23709

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	Composite Two Small Paint Booths
Sample Date	04/12/89
Lab ID	90412-26

ANALYSIS RESULTS

Total Solids	98.8	%
pH	3.9	(1:10 Slurry)
Phenol	<5	mg/kg
Cyanide (Total)	3	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	40	mg/kg
Sulfide (Reactive)	6	mg/kg
Flash Point	>200°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	<0.039	mg/kg
Barium	<0.1	mg/l	16	mg/kg
Cadmium	<0.007	mg/l	1.03	mg/kg
Chromium	0.54	mg/l	1600	mg/kg
Lead	5.5	mg/l	12400	mg/kg
Mercury	0.0004	mg/l	0.0339	mg/kg
Selenium	<0.002	mg/l	<0.039	mg/kg
Silver	<0.01	mg/l	0.20	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

TEKLAB, INC.

#6 Meadow Heights Professional Park
Collinsville, IL 62234
(618) 344-1004

April 28, 1989 REPORT #23710

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Project: Special Waste Testing
Nokomis/Hedlund Mfg.
Sample received: 04-12-89

Sample ID	[redacted]nt Booth
Sample Date	04/12/89
Lab ID	90412-27

ANALYSIS RESULTS

Total Solids	98.1	%
pH	6.2	(1:10 Slurry)
Phenol	227	mg/kg
Cyanide (Total)	<1	mg/kg
Cyanide (Reactive)	<1	mg/kg
Sulfide (Total)	<5	mg/kg
Sulfide (Reactive)	<5	mg/kg
Flash Point	>200°F	
Paint Filter Test	Passed	

E P Toxicity

PARAMETER	CONCENTRATION IN EXTRACT		TOTAL CONCENTRATION	
Arsenic	<0.002	mg/l	0.108	mg/kg
Barium	<0.1	mg/l	3.9	mg/kg
Cadmium	0.011	mg/l	0.957	mg/kg
Chromium	<0.03	mg/l	2.2	mg/kg
Lead	<0.05	mg/l	20	mg/kg
Mercury	<0.0002	mg/l	<0.0160	mg/kg
Selenium	<0.002	mg/l	<0.040	mg/kg
Silver	<0.01	mg/l	0.10	mg/kg

These tests were conducted in accordance with "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. Environmental Protection Agency, SW-846 (Revised 1984), with the exception of reactive sulfide as noted above.

TEKLAB, Inc.

Michael L. Austin
Director

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-86) Form Approved. OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: LPC 1350450001
Manifest Document No.: 00001
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location If Different:
FULLER BROTHERS
VINE & FRONT STREET; NOKOMIS, IL 62075

4. Generator's Phone (217) 532-2422

A. Illinois Manifest Document Number: IL 4149002 MANIFEST FEE PAID
B. Illinois Generator's ID: [illegible]
C. Illinois Transporter's ID: [illegible]
D. (314) 644-6000 Transporter's Phone
E. Illinois Transporter's ID: [illegible]
F. Transporter's Phone
G. Illinois Facility's ID: [illegible]
H. Facility's Phone: [illegible]

5. Transporter 1 Company Name: SUPERIOR EQUIPMENT COMPANY
6. US EPA ID Number: MOD 031102023

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address:
CLAYTON CHEMICAL COMPANY
#1 MOBILE STREET
SAUGET, IL 62201
10. US EPA ID Number: ILD 066918327

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID UN1993	19	D.M	1045	1	EPA HW Number: XX 0001; Authorization Number: 000125
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Descriptions for Materials Listed Above
[illegible]
MO TRANS H1153 MO SITE RR001

K. Handling Codes for Wastes Listed Above
In Item 14: 1 - Gallons 2 - Cubic Yards

15. Special Handling Instructions and Additional Information
AVOID ALL IGNITION SOURCES AND OVEREXPOSURE TO VAPORS.
RETURN TO GENERATOR IF NOT DELIVERABLE AS ADDRESSED.

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: WILLARD G. FULLER — Signature: Willard G. Fuller — Date: Month 10 Day 16 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RON FINK — Signature: Ron Fink — Date: Month 10 Day 16 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Sandy Nappier — Signature: Sandy Nappier — Date: Month 10 Day 16 Year 89

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

Clayton Chemical Co.

CERTIFICATE OF RESOURCE RECOVERY

This certificate is to verify that the wastes and all containers specified on manifest # 4149002, received from FULLER BROS., on 10-16-89, have been recycled to the extent practicable by:

CLAYTON CHEMICAL COMPANY
#1 Mobile Street
Sauget, IL 62201

and that all residuals of recycling have been properly disposed in accordance with all Federal, State, and local hazardous waste regulations.

Signed: Edward [illegible]
Title : VICE PRESIDENT
Date : 2-8-90

1 Mobile Ave. Sauget, Illinois 62201 • Telephone (618) 271-0467

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

217/782-6761

Refer to: LPC#1350450001--Montgomery
Nokomis/Hedlund Mfg.
Superfund/Technical Report

February 1, 1989

Mr. Willard Fuller
P.O. Box 576
Hillsboro, IL 62049

Dear Mr. Fuller;

On Friday, January 27, 1989, we met in Nokomis at the old Hedlund Manufacturing facility to discuss the possibility of underground storage tank being buried on the property and the disposition of the Nineteen (19) drums found on the property.

Discussing the operations with a former employee of Hedlund, Mr. Lee Cerny, Mr. Cerny stated that no underground storage tanks were utilized at the facility and that all the product used at the facility was shipped in drums.

Along with the disposition of the drums, the residue remaining in the spray paint booths should be addressed because of the possibility of lead contamination from the paint.

I am attaching a Cleanup Contractor list for your reference in selecting a cleanup contractor for the proper disposal of the drums and contents of the spray paint booths.

If you have any questions, give me a call at the above number.

Sincerely,

Kenneth L. Page

Kenneth L. Page, Project Manager
Immediate Removal Unit
Remedial Project Management Section
Division of Land Pollution Control

KLP:pss

cc: Division File
Springfield

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY MEMORANDUM

DATE: January 27, 1989

TO: Division File

FROM: Ken Page, Project Manager, Immediate Removal Unit

SUBJECT: 1350450001--Montgomery
Nokomis/Hedlund Mfg.
Superfund/Technical Report

January 24, 1989 this writer along with Gary Reside of the pre-remedial unit (PA/SI) traveled to the town of Nokomis for the purpose of visually inspecting the facility at N. Vine and W. Front (Hedlund Mfg.) approximately 40,000 square feet.

A concern was raised after the pre-remedial unit conducted a well head survey after a public water supply well (No. 8) had shown tetrachlorethylene contamination. The well head survey include the now empty/abandoned Hedlund Manufacturing building as a potential source of contamination.

The Hedlund Manufacturing facility manufactured water skis, snow skis, toboggans and american sleds. The exact manufacturing procedure(s) is unknown to the Agency at this time. Invoices that were found at the facility was for the shipment of painting varnishes, lacquers, hardners and OKA glues.

During the 1-24-89 inspection, nineteen drums were found at the facility. Two drums were found inside the building and seventeen drums were found on the outside of the building. Another major concern for the facility was the unknown presence of underground storage tanks. At this time information is being gathered to determine if underground storage tanks exist at this facility.

The building is for sale by Edward Real Estate in Hillsboro, telephone numbers are 217/532-2421 or 6421. On the above date this writer phoned Edward Real Estate and spoke with Mr. Elliott. And Mr. Elliott informed me that he was unaware of the conditions at the facility and that I should speak to the owners, the Fuller Bros. in Hillsboro, telephone number 217/532-2422. After calling the number I spoke to a Mr. Willard Fuller (Junior) and he was also unaware of any drums left at the site as well as the locations of buried underground storage tanks. At this time a meeting was set up for Friday, January 27, 1989 at 2:00 p.m. at the facility. Mr. Fuller is supposed to bring a former employee of Hedlund to discuss some of the manufacturing processes.

KP:pss

cc: Central Region
Gary Reside

PREVIOUSLY ASSIGNED

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

name change

ILLINOIS GENERATOR I.D. NUMBER REQUEST FORM

This form supersedes all previous editions. Effective May 1, 1988 all requests not submitted on this form will be rejected. See reverse side for instructions for completing this form.

This number is being requested by WILLARD FULLER

of (Company) _____ PHONE 217-532-242

GENERATOR NAME FULLER BROS.

LOCATION (Not P.O. Box) VINE + FRONT

CITY, STATE & ZIP CODE NOKOMIS, IL. 62075 COUNTY MONTGOMER

NON-RESPONSIVE

FREQUENCY OF TRANSPORTATION (check one).

X 1 = one time only ___ 3 = weekly ___ 5 = monthly ___ 7 = quarterly
___ 2 = daily ___ 4 = bi-weekly ___ 6 = bi-monthly ___ 8 = semi-annual

WASTE DESTINATION (TSD Facility) CLAYTON CHEMICAL CO.

ADDRESS #1 MOBILE AVE

CITY, STATE & ZIP CODE SAUGET, IL. 62201

*

*Indicate TSDF's Illinois Site Code Number (if Out-of-State) or Generic Permit Authorization Number (of Illinois TSD Facility) (MUST BE COMPLETED).

AUTHORIZATION STATEMENT

I authorize this request for assignment of an Illinois generator number. This company has not previously shipped waste under the Illinois Manifest System. If my waste is a RCRA hazardous waste, I certify this company has a USEPA generator I.D. number.

Signature of Generator: Willard G. Fuller (Owner or Operator)

Title: OWNER/PARTNER Date: 7-07-89

Return this form to: Illinois Environmental Protection Agency
Division of Land Pollution Control (#24)
Permit Section
2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276

RECEIVED
JUL 11 1989
IEPA/DLPC

FOR AGENCY USE ONLY

GENERATOR I.D. # 1350450001

EDP ___
Region ___
IMES/Manifest ___
File ___

IL 532-1473
LPC.220 (Rev. 3/88)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: July 11, 1989

REFERENCE NUMBER 3

TO: Gary Reisde

FROM: Sherry Otte

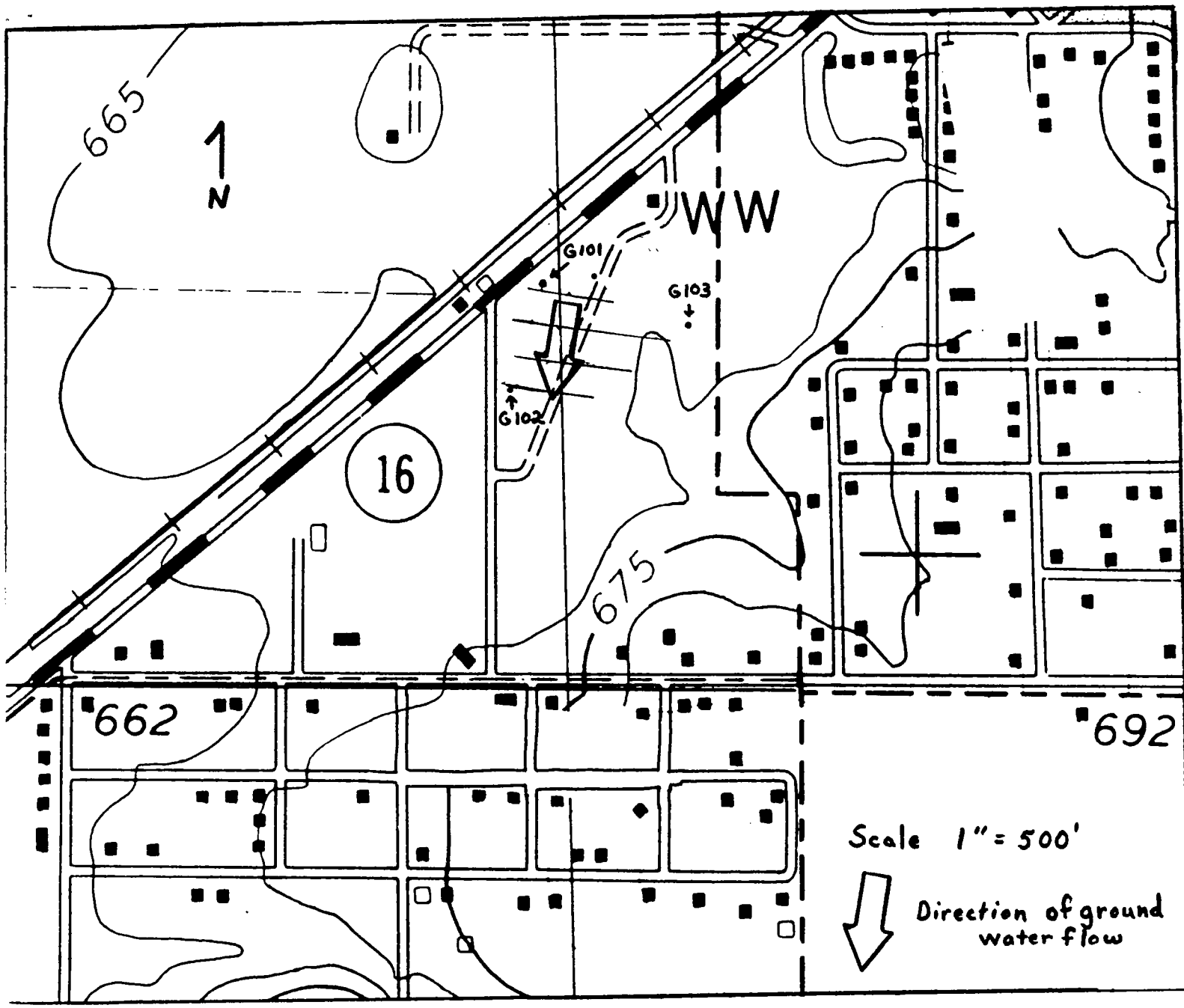
SUBJECT: RE 1350000000 Montgomery County
Nokomis PWS #6 SI.
Superfund HRS

Attached are the boring logs, well construction and a site map showing monitor well locations and peizometric surface. A clay till was encountered from the surface to 13-15 feet. Sand was encountered below this depth to about 30-32 feet where a second clay till occurred. All borings ended at 35 feet and all monitor wells were screened from 30-35 feet.
The relative horizontal groundwater flow is toward the south.

cc: Division File
Southern Reg. File
Robert Carson

IL 532-0570

REFERENCE NUMBER



Ground Water Monitor Well Locations and
Peizometeric Surface Map
Nokomis Quadrangle
Nokomis, Illinois

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: _____ County Montgomery Boring No. B-1 Monitor Well No. G101

Site File Name Nokomis Muni. Well #6 Surface Elev. _____ Completion Depth _____

Fed. ID. No. _____ Auger Depth 35.0' Rotary Depth _____

NON-RESPONSIVE

Date: Start 3/8/89 Finish 3/8/89

Drilling Equipment CME 75, 3¾" augers, 5' cont. sampler, 2' Split Spoon

Personnel: G - S. VanHook; D - K. Bosie; H - A. Colantino; H - R. Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0'-2.9': Soil, clayey, black								
	2.9'-5.05': clay Till, very dark gray, trace gravel, mottled with dark yellowish brown, trace staining and concretions.	5'	1	5'cs				<Bck	
	5.0'-5.9': Same								
	5.9'-6.6': clay Till, gray, some yellowish brn. mottling, trace sand		2	5'cs				<Bck	
	6.6'-10.05': clay Till, very dark gray, some yellowish brn. mottling, trace sand & gravel	10'							
	10.0'-11.1': clay Till, gray, trace sand & gravel, some yellowish brn. mottling		3	5'cs				<Bck	
	11.1'-11.6': clay Till, sandy, dark gray								
	11.6'-13.3': sandy clay Till, gray, trace gravel								
	13.3'-14.0': Sand, light yellowish brn, clean grains 0.005'	15'							
	15.0'-15.5': Same		4	5'cs				<Bck	
	15.5'-17.1': sand and gravel with clay, yellowish brn. sand med.-coarse grained, gravel fine to med.	20'							
			5	5'cs	0%				
		25'							
		30'							
	Sand, yellowish brn., fine-coarse grained, gravely								- sample from lead auger
	End of boring	35'							

Illinois Environmental Protection Agency — **Field Boring Log** — Page 1 of 1

Site File No.: _____ County: Montgomery — Boring No.: B-3 — Monitor Well No.: G102

Site File Name: Nokomis Muni Well #6 — Surface Elev.: _____ Completion Depth: _____

Fed. ID. No: _____ Auger Depth: 35' — Rotary Depth: _____

NON-RESPONSIVE

[redacted]

Date: Start 3/14/89 — Finish 3/14/89

Drilling Equipment: CME 75, with 3 3/4" augers, 5' cont. sampler, 2' SS

Personnel:
G - S. VanHook
D - K. Bosie
H - A. Colantino
H - R. Irwin

Elev	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0'-2.7': Soil, black								
	2.7'-5.2': clay Till, gray with yellowish brn. mottling, trace sand & gravel drk. brn. staining, root		1	5'cs				<Bck	
	5'-6.0': same	5'							
	6'-7.2': clay Till, dark gray with sand, trace yellowish brn. mottling		2	5'cs				<Bck	
	7.2'-9.6': sandy clay Till, dark gray, trace yellowish brn. mottling	10'							
	10'-12.6': same, some mottling								
	12.6'-13.2': same, trace mottling and gravel							<Bck	
	13.2'-14.0': same, trace mottling		3	5'cs					
	14.0-14.55': clayey sand, dark brownish								
	15'-16.6': Sand, (.01"-.03"), brownish gray	15'							
								<Bck	
			4	5'cs					
	20'-21.5': Sand, (.01"-.03"), brownish gray with coarse sand and fine-med. gravel	20'	5	2'ss			3, 1, 2	<Bck	2: 0.5' of sluff
		25'						<Bck	2: sluff same as 20-21.5' only coarser (2.5'ss)
	30'-31': Sand, gray, poorly sorted with gravel and silt/clay	30'	6	2'ss			12, 8	<Bck	2: 1.0' sluff
	End of Boring	35'							

Illinois Environmental Protection Agency

Field Boring Log

Site File No.: _____ County Montgomery Boring No. B-2 Monitor Well No. G103

Site File Name Nokomis Muni Well #6 Surface Elev. _____ Completion Depth _____

Fed. ID. No _____ Auger Depth 35.0' Rotary Depth _____

NON-RESPONSIVE

Date: Start 3/9/89 Finish 3/9/89

Drilling Equipment CME 75 with 3¾" augers, 5' cont. sampler, 2' s.s.

Personnel
G - S. VanHook
D - K. Bosie
H - A. Colantino
H - R. Irwin

Elev.	DESCRIPTION	Depth in feet	Sample No	Sample Type	Sample Recovery	Penetrometer	N Values (Blows)	OVA or HNU readings	REMARKS
	0-2.4': Clayey Soil, very dark brown								
	2.4'-5.1': clay Till, very dark gray, mottled with yellowish brn., trace sand & dark brown staining		1	5'cs.				<Bck	
	5.0'-6.7': Same	5'							
	6.7'-10.1': sandy clay Till, very dark grayish brown, trace gravel		2	5'cs.				<Bck	
	10-11.8': Same	10'							
	11.8-12.5': Sandy clay Till, with large gravel and cobble, sand .01" grains, Gray		3	5'cs.				<Bck	
	12.5-13.9': Sandy (.01") clay Till, grayish brn. grades into:								
	13.9'-14.75': clayey/silty Sand, grayish brn. (.01")	15'							
	15.0-15.25': Same								
	15.25'-16.65': Sand (.01-.05"), grayish brn., some gravel, silt/clay		4	5'cs				<Bck	
	16.65-17.73': Sand (.01-.05"), grayish brown, trace gravel, clean	20'							
	20-22.0': Sand (.01"-.05"), gray some gravel		5	5'cs					@ 21.3-21.5': yellowish brn. gravel
		25'							
	30-30.5': Sand and Gravel, gray	30'	6	2'ss					
	32-35': Clay Till, yellowish brn. on lead auger when removed								
	End of boring	35'							

Illinois Environmental Protection Agency **Monitor Well Construction**

County: Montgomery

Boring No.: B-1

Site File Name: Nokomis Muni Well #6

Monitor Well No.: G101

Site File No.:

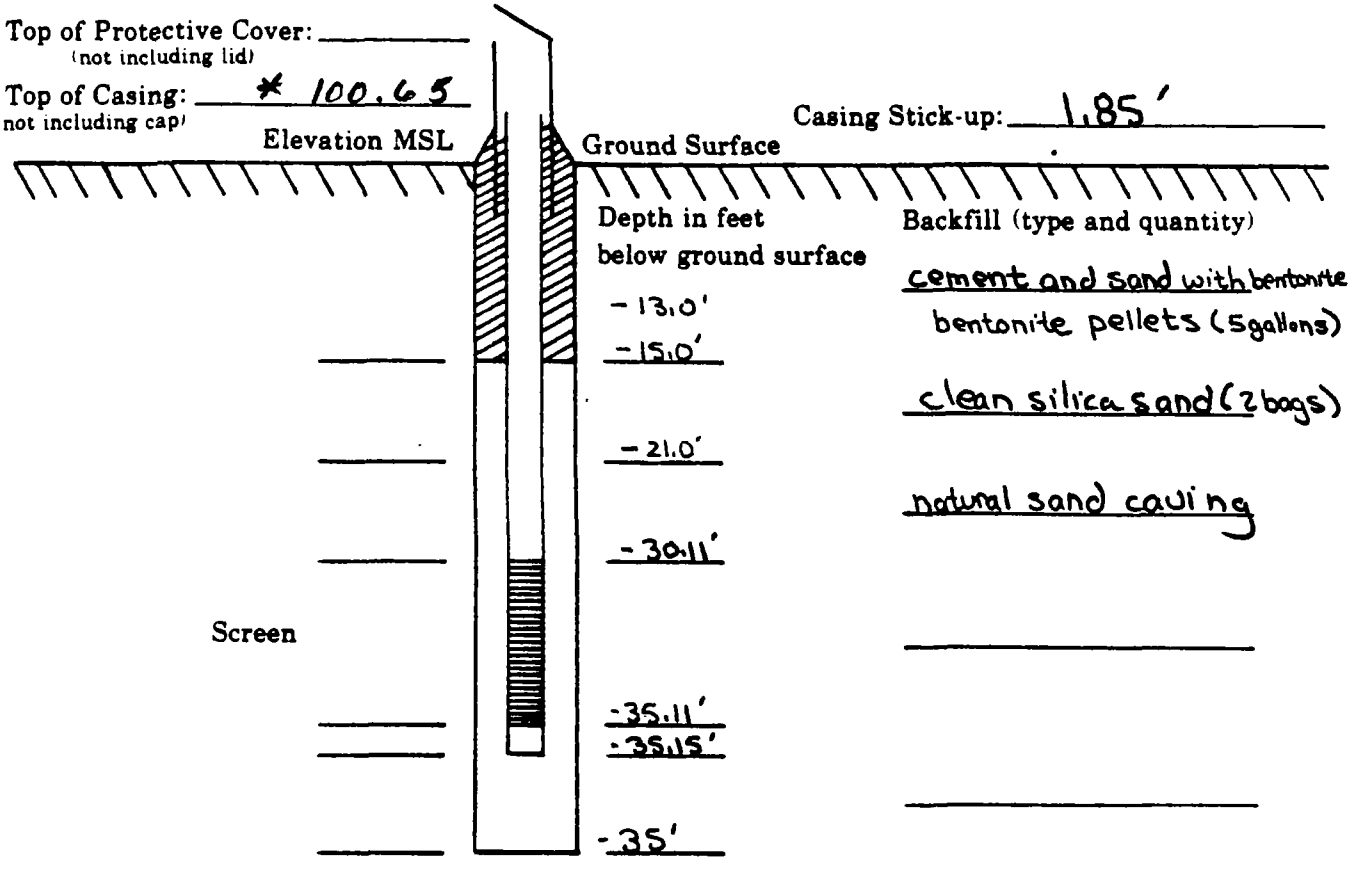
Prepared By: S. VanHooks

NON-RESPONSIVE

Top of Protective Cover: _____
(not including lid)

Top of Casing: * 100.65
(not including cap)
Elevation MSL

Casing Stick-up: 1.85'



Depth in feet below ground surface	Backfill (type and quantity)
- 13.0'	cement and sand with bentonite (3'&3
- 15.0'	bentonite pellets (5 gallons)
	clean silica sand (2 bags)
- 21.0'	
	natural sand caving
- 30.11'	
- 35.11'	
- 35.15'	
- 35'	

Casing Type and Size: Johnson type 304 stainless steel, 2" I.D.

Screen Type and Size: Johnson type 304, 5' section, 2" ID, 0.01 inch slot size

Casing Field Measurements:

bottom of screen 1.04'
top of screen 5.04'
1st joint 5.13', 4.98', 5.0', 5.0', 5.0', 5.0', 4.99', 1.9'

Total Length of Casing 37.0'

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 5' x 4" steel with locking cover

* Not to msl

Illinois Environmental Protection Agency — **Monitor Well Construction**

County: Montgomery

Boring No.: B-3

Site File Name: Nokomis Muni #6

Monitor Well No.: G102

Site File No.:

Prepared By: S. VanNools

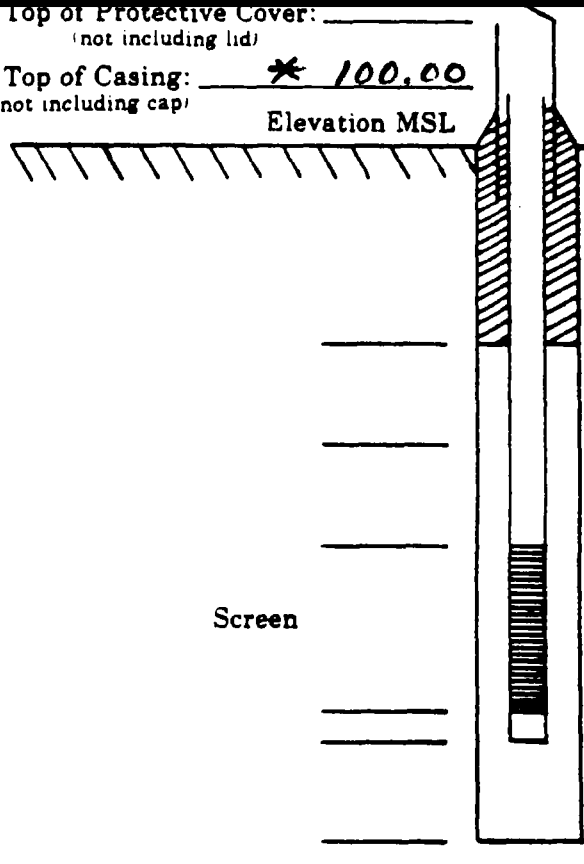
NON-RESPONSIVE

Top of Protective Cover: _____
(not including lid)

Top of Casing: * 100.00
(not including cap)
Elevation MSL

Casing Stick-up: 2.93'

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
	3bags cement/sand with bentoni
-12'	
-14'	bentonite pellets
-18'	clean silica sand
	natural caving
-27.32'	
Screen	
-32.31'	
-32.36'	
-35.0'	

Casing Type and Size: Johnson type 304 stainless steel, 2" ID

Screen Type and Size: Johnson type 304, 5' section, 2" ID, 0.01 inch slot size

Casing Field Measurements:

bottom of screen 1.05'
top of screen 5.04'
1st joint 5.12', 5.0', 5.02'
5.01', 5.03', 5.0'
4.97' (+.14')

Total Length of Casing 35.29

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 5'x4" steel with locking cover

* Not to msl

Illinois Environmental Protection Agency — **Monitor Well Construction**

County: Montgomery

Boring No.: B-2

Site File Name: Nokomis Muni Well #6

Monitor Well No.: G103

Site File No.:

Prepared By: S. Vanblook

NON-RESPONSIVE

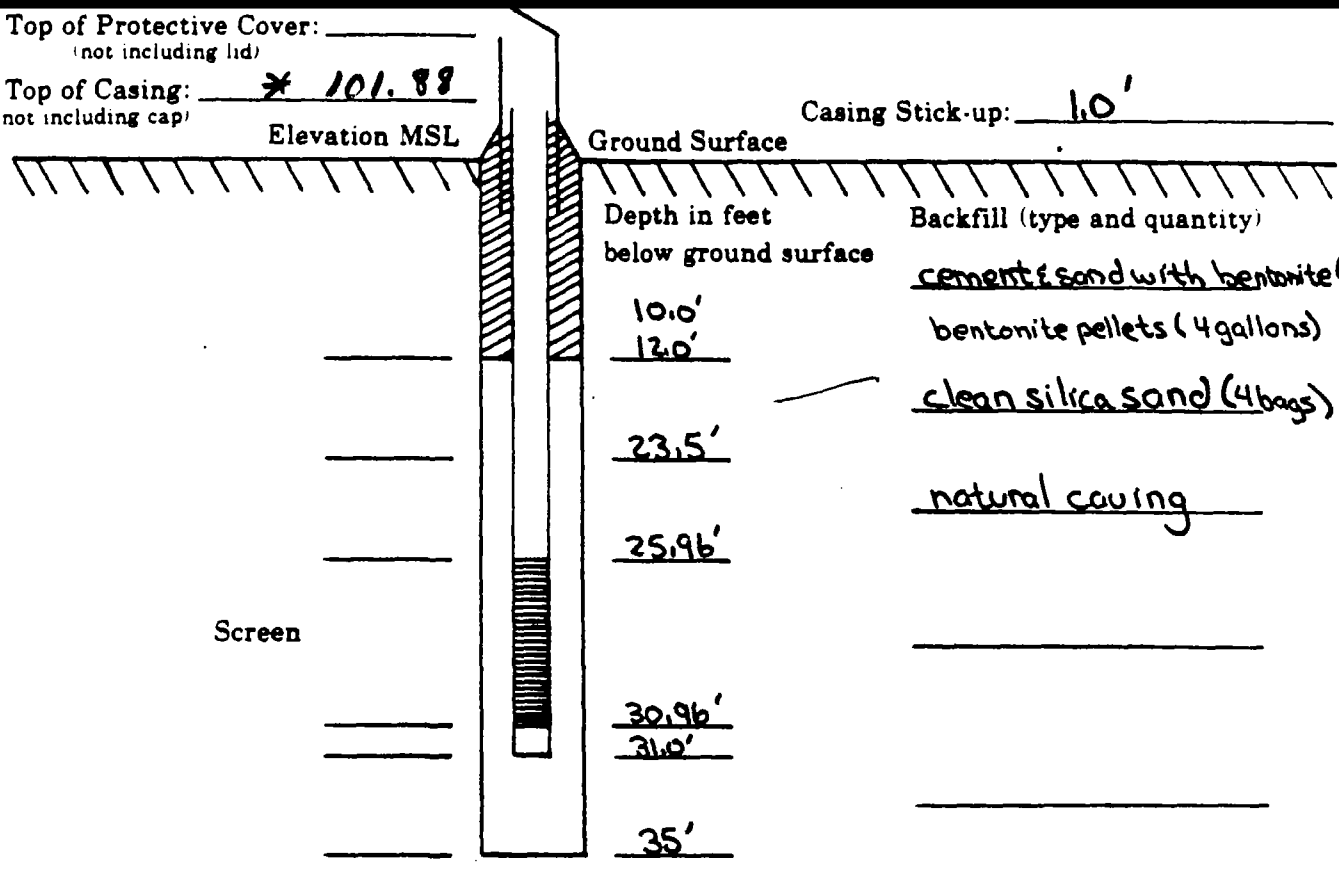
Top of Protective Cover: _____
(not including lid)

Top of Casing: * 101.88
(not including cap)

Elevation MSL

Casing Stick-up: 1.0'

Ground Surface



Depth in feet below ground surface	Backfill (type and quantity)
10.0'	cement & sand with bentonite (2 3/4
12.0'	bentonite pellets (4 gallons)
23.5'	clean silica sand (4 bags)
25.96'	natural caving
30.96'	
31.0'	
35'	

Casing Type and Size: Johnson type 304 stainless steel, 2" ID

Screen Type and Size: Johnson type 304, 5' section, 2" ID, 0.01 inch slot size

Casing Field Measurements:

bottom of screen .04'

top of screen 5.04'

1st joint 5.13', 4.98', 5.02', 4.98', 4.98', 4.99', 1.92'

Total Length of Casing 32.0'

Plug (type) _____

Cap (type) _____

Protective Cover (type and size) 5'x4" steel with locking cover

* Not to msl

REFERENCE NUMBER 4

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Montgomery COUNTY

LPC DIVISION

Nokomis / Hedlund Mfg

L13504500 D1
I. D. or FILE NO.
ILD 984175452

Re:

Conversation with: Willard G. Fuller (previous owner) [redacted]

(X) I Called Party ( ) Party Called Me DATE 4/10/90 TIME 10:30 A

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
Introduced myself	the drums were solidified, some ½ empty
Coworkers unable (not here) to tell	2 drums were the glue to put
me what was in the 19 drums?	(laminated plywood) together the sleds and skis and
	tobaggons, and 17 drums were
	shallac used to finish them
What years did the company operated?	Unknown when started but
	Union priced them out of business
	in 1971, the company moved to
	the Northeast.
Who owns the property now?	Sold to Westly Johnson of Nokomis
	in March of '89 however had to
	clean paint booths and take care
	of drums first

use reverse side if necessary

Timothy J. Murphy
Signature

EPS
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

What I Said: What Other Party Said:

Comments

Referred to: Unit

Copies to: ( ) File

Recommendations

Signature

REFERENCE NUMBER 5

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Montgomery
COUNTY

LPC
DIVISION

Nokomis / Hedlund Mfg.

L1350450001
I. D. or FILE NO.
ID 984775452

Re:

NON-RESPONSIVE

Conversation with: ~~Willar~~ Alvin Westp[redacted]

(X) I Called Party ( ) Party Called Me DATE 5/7/90 TIME 1:54pm

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
How long employed?	1yr plus off and on or whenever I wanted to work.
When did the facility begin ops?	1949 I think.
What chemicals were used at the facility?	Varnishes, paint, laquers
Where any solvents used?	Paint thinners, varnish thinners.
What wastes were generated	Maybe an overrun
How were wastes disposed	Don't know
Is there an UST	Don't know, New part built in late 1950's

use reverse side if necessary

Signature

Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over

What I Said: What Other Party Said:

Comments

Referred to: Unit

Copies to: ( ) File

Recommendations

Signature