WISCONSIN
DEPT. OF NATURAL RESOURCES
George E. Meyer
Secretary

02-72-000175

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

5301 Rib Mountain Drive
Wausau, Wisconsin 54401
TELEPHONE 715-359-4522
TELEFAX715-355-5253

FILE COPY

February 10, 1994

NCD UID#: ERP

MR RICHARD J FREUND
FREUND & ASSOCIATES INC
845 SO MAIN STREET SUITE 100
FOND DU LAC WI 54935

SUBJECT: Case Closure Status for Proposed Walmart Store
Eighth Street South, Wisconsin Rapids, Wisconsin

Dear Mr. Freund:

The North Central District Case Closure Committee has completed its review of the documentation for clean up of contamination of n-Butylbenzene at the proposed Walmart Store location at Eighth Street South in Wisconsin Rapids, Wisconsin.

Based on the information provided to the Department by Nummelin Testing Services, the Department is not requiring that any further investigation and/or remediation be undertaken at this time. However, if at some time in the future, information is made available to the Department which indicates that additional investigation and/or remediation is warranted, the Department will require that the appropriate action be taken.

Please note that this case closure is contingent upon proper documentation of soil treatment and disposal. Please provide the documentation that this action has been completed, or have your consultant do so. The documentation can be sent to my attention at the above address.

If you have any questions, please contact me at 715/359-4522.

Sincerely,
NORTH CENTRAL DISTRICT

Deborah S. Pingel
Program Assistant
Leaking Underground Storage Tank Program

cc: Connie Antonuk, Rhinelander
Nummelin Testing Services, Mr. Bruce Nummelin, 332 North Georgia Street,
Stevens Point, Wisconsin 54481

Printed on Recycled Paper

State of Wisconsin
Department of Natural Resources

ENTITY CONTACT REPORT FORM
Form 4500-94 5-84

Name of Entity	Telephone Number	FID Number
Tom Baker	341 - 7974	
Street or Route: Nummelin Testing	Date of Contact	Time of Contact
City, State, Zip Code	Conferred With	District

Type of Contact:
☐ Conference ☐ Field Check ☐ Telephone Conversation ☐ Other

RE: Walmart Proposed Store

the property was part of the Auto Salvage at one time

Morris Wolcott was an owner

At one time was Griffith Tire

part of site is at 4211 S. 84th St
small part of site is at 920 Kuhn Ave.

Submitted By Andrea Billings | Date 1/25/94

Nummelin Testing Services
332 North Georgia Street - Stevens Point, Wisconsin 54481
Lab: (715) 341-7974 Fax: (715) 341-8654

3802 Packers Avenue - Madison, Wisconsin 53704
Lab: (608) 241-4346 Fax: (608) 241-4308

12/17/93

DNR North Central District
107 Sutlift Avenue
P.O. Box 818
Rhinelander, WI 54501

Attention: Ms. Connie Antonuk

Re: Case Summary and Close-Out Form
Proposed Wal-Mart Site
Wisconsin Rapids, WI

Dear Ms. Antonuk:

Please find enclosed a copy of the Case Summary and Close-Out form for the proposed Wal-Mart site in Wisconsin Rapids.

If you have any questions please feel free to call me at 715-341-7974.

NUMMELIN TESTING SERVICES

Bruce Nummelin

Bruce Nummelin
Director BS/SS
1054602A

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
NORTH CENTRAL DISTRICT
Case Summary and Close-Out

(FOR DEPARTMENT USE ONLY)		
	Approval Signature for Closure	Date
Bill Hafenbrack		
Archie Wilson		
Scott Watson		
Connie Antonuk		

*Only on sites with wells within 1,200 feet

DNR PROJECT MANAGER: Ms. Connie Antonuk
CLOSURE PREPARED BY: Nummelin Testing Services DATE: 12-16-93

IF PREPARED BY NON-DEPARTMENT STAFF, PLEASE COMPLETE THE FOLLOWING INFORMATION.

Affiliation with responsible party: Consultant
Address: 332 N. Georgia Street
City: Stevens Point State: WI Zip: 54481
Phone Number: 715-341-7974

GENERAL SITE INFORMATION:

Case/FID#/UID#:

Site Name: Proposed Wal-Mart Site
Address: Eighth Street South
City: Wisconsin Rapids State: WI Zip: 54494

Legal Description: 1/4SW, 1/4 SE, Sec. 29, Tn 22NR6E (E)
Tnshp/Vill/City: Wisconsin Rapids
County: Wood

Site Contact: Mr. Richard J. Freund

Address: 845 South Main Street, Suite 100
City: Fond du Lac State: WI Zip: 54935
Phone Number: 414-921-3290

Date of Incident: unknown Date Reported: Nov. 1993

Contamination Type (General Description): n-Butylbenzene

GENERAL SITE INFORMATION (CONT'):

Amount Released: 24.1 ppb detected

Department Permits Closed Out? Yes __ No __ Not Applicable __

Enforcement Actions Closed Out? Yes __ No __ Not Applicable __

Geologic Setting (General Description) Mapped as unpitted outwash

Depth to Groundwater: More than 20 feet below ground surface

Was Contamination Present In (Soils, Groundwater, Other) Before Remediation:
Present in surface soil only

DEGREE OF CONTAMINATION FOR SOILS

WAS SOIL CONTAMINATION PRESENT? YES_X NO__ (If no, continue to groundwater section)

Extent Defined (Yes, No): Yes an area 8 feet in diameter and 4 feet deep
Analysis (Lab, Field, No Data): **(If no data available, please explain)**
Number of Sample Points: 2 Number of Sampling Rounds: 1
Background Levels: unknown
Analysis Attached (Yes, No):
Remedial Action Taken: Soil excavated from site, an area 12 feet in diameter and 7.5 feet deep was excavated.
Excavated Soils Final Disposal Method: Incineration Final Disposal Location: Eau Claire Black Top Company in Eau Claire, WI Soil Disposal Form Completed : Yes __X__, No.____ (PLEASE ATTACH COPY)

SOIL (Complete below or attach data)

NOTE: If analytical methods other than those outlined in the current L.U.S.T. Analytical Guidance are used, please note the information below.

Contaminant	Pre-remediation Sample Date _____	Highest Field Data Sample Date _____	Post Remediation Sample Date ____	Applicable Standards	Detection Limits

Comments:

DEGREE OF CONTAMINATION FOR GROUNDWATER

WAS GROUNDWATER CONTAMINATION PRESENT? YES__ NO X (If no, continue to next section)

Extent Defined (Yes, No):
Analysis (Lab, Field): **(If no data available, please explain)**
Groundwater Monitoring: *Permanent Wells* : Yes__, No___, #_____; Abandoned Yes__, No__, #_____, Forms submitted Yes__, No___, #_____. *Temporary Wells*: Yes__ No___, #_____; Abandoned Yes__ No__, #_____, Forms submitted Yes__, No___, #_____.
Number of Sampling Rounds:
Has groundwater analysis been attached? Yes____, No___.
Remedial Action Taken:
Remedial Action Completed: Yes__, No__. (If no, please provide documentation) Has this site been remediated to current groundwater standards?: Yes__, No__ (If no, please provide documentation)

GROUNDWATER (Complete below or attach data)

NOTE: If analytical methods other than those outlined in the current L.U.S.T. Analytical Guidance are used, please note the information below.

Contaminant	Pre-remediation Sample Date _____	Highest Field Data Sample Date _____	Post Remediation Sample Date _____	Applicable Standards	Detection Limits

Comments:

Please Attach the Following Information:

Location Map and Site Map
Cross-section Map, If Applicable
Map of Public/Private Wells Within 1,200 Foot Radius

Narrative Summary of Case: (attach additional sheets as needed)

ALLIED BLACKTOP CORP
DIVISION OF A.C.I. LTD.
715-835-4858
FAX 715-835-2298
931 SHORT ST. P.O. BOX 356
EAU CLAIRE, WI 54702-0356

INVOICE

ORIGINAL INVOICE

SHIP TO
JOB 8177
RICHARD J FREUND & ASSOC.
HWY 13
WI RAPIDS, WI

SOLD TO
NUMMELIN TESTING SERVICE
332 N. GEORGIA STREET

STEVENS POINT, WI 54481

Please pay from this invoice – statements will be sent at the end of each month requested.
A FINANCE CHARGE OF 1½% PER MONTH (18% ANNUM) WILL B ADDED TO ALL ACCOUNTS OVER 30 DAYS.

TERMS	CUST. ORDER NO.	CUSTOMER NO.	SHIP VIA	SHIPPING DATE	INVOICE DATE	INVOICE NO
NET 30 DAY		68120		11730793	11730793	5539

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	UNIT MEASURE	NET AMOUNT
412	25.90	REMEDIATION OF PETROLEUM CONTAMINATED SOILS PER DNR REQUIREMENTS. NOTE: AN APPROVED COPY OF APPLICATION TO TREAT AND A COPY OF LAB RESULTS WILL BE REQUIRED AS SOON AS THEY ARE AVAILABLE. A COMPLETED COPY OF APPLICATION TO TREAT WILL BE SENT TO YOU AS SOON AS SOILS ARE TREATED.		TN	

** INVOICE CONTINUED ON NEXT PAGE **

WISCONSIN
DEPT. OF NATURAL RESOURCES
George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

North Central District Headquarters
P. O. Box 818
Rhinelander, Wisconsin 54501
TELEPHONE 715-362-7616
TELEFAX 715-369-8932

December 9, 1993

#175

Richard J. Freund
Freund & Associates, Inc.
845 South Main Street, Suite 100
Fond du Lac, WI 54935

Subject: Phase I, II, and III Reports
Proposed Wal-Mart Store, Wisconsin Rapids, WI

Dear Mr. Freund:

The Department has received the Environmental Study Phase I (~~September 21~~ - Update (Aug 8, 1993), 1993), the Phase II Investigation (~~August 8, 1993~~) 9/21/93 and the Soil Remediation & Well Abandonment Phase III (~~August 8, 1993~~) 12/1/93 reports for the proposed Wal-Mart Store in Wisconsin Rapids, Wisconsin. Due to our current caseload, the Department will not review the reports at this time.

At this point you may wish to review the enclosed North Central District Case Summary and Close-out Form. You may complete and submit this form to the Department for closure review by the Close-out Committee when data from the site assessment indicates that the environment has been restored to remedial action standards and no harmful effects from the discharge to the air, lands and waters of this site will occur.

Please be sure to provide the requested copies of analysis results, maps and summary narrative. A complete Close-out form with the proper attachments can expedite the closure process. As there are several committee members a properly completed Close-out form will fast track a case by avoiding time consuming file review. Incomplete forms will be returned.

If you have any questions, please call Andrea Billings at (715)369-8986.

Sincerely,
NORTH CENTRAL DISTRICT

Andrea Billings
Andrea Billings
Environmental Repair Program Assistant

Connie J Antonuk
Connie J. Antonuk, Unit Leader
Environmental Repair Program

cc: Bruce Nummelin - Nummelin Testing Services
File

enc.

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RECEIVED
WI DEPT. OF NATURAL RESOURCES
DEC - 3 1993
WI. RAPIDS AREA HDQ.
WI. RAPIDS, WI

SOIL REMEDIATION &
WELL ABANDONMENT (PHASE III)
PROPOSED WAL-MART SITE
WISCONSIN RAPIDS, WI
12-01-93

TABLE OF CONTENTS

Nummelin Testing Services
332 North Georgia Street - Stevens Point, Wisconsin 54481
Lab: (715) 341-7974 Fax: (715) 341-8654

3802 Packers Avenue - Madison, Wisconsin 53704
Lab: (608) 241-4346 Fax: (608) 241-4308

11-15-93

Freund & Associates, Inc.
845 South Main Street
Suite 100
Fond Du Lac, WI 54935

Attention: Mr. Richard J. Freund

Subject: Soil Remediation & Well Abandonment (Phase III)
Proposed Walmart Store
Wisconsin Rapids, WI

INTRODUCTION:

This report concludes the soil remediation and well abandonment at the subject site. This work was a result of the Phase II investigation reported on 9-21-93. The soil determined to be contaminated was excavated and will be incinerated. Soil samples were collected during the excavation with the laboratory results attached to this report. The two monitoring wells and the 6" private well have also been abandoned.

DISCUSSION:

On November 11, 1993, the soil determined to be contaminated was excavated and transported to the Eau Claire Blacktop Company located in Eau Claire, WI.. The area excavated was located 20'N & 75'W of the NW building corner of Bob's Cab. The area excavated was 12' in diameter and tapered to 7.5' deep. The total weight of soil excavated was determined to be 25.9 tons. The soil was loaded directly into dump trucks and hauled to Eau Claire, WI for treatment. We have been informed the soil will be incinerated next spring when the asphalt plant starts up again. Soil samples were collected during the excavation. Soil samples were taken from each

side wall, except the west wall, and from the bottom of the excavation. The soil sampling equipment was washed with detergent water and rinsed with distilled water before and after each sampling. Split soil samples were taken from each location. One sample was submitted to the University of Wisconsin Trace Organics Lab for analysis. The other sample was placed in a glass jar, covered with aluminum foil, warmed and used to take field meter readings using a Photo-ionization Detector Meter (PID). One soil sample was also collected from the second truck loaded with contaminated soil. All five soil samples were submitted to the laboratory for volatile organic compounds (VOC's) analysis. The laboratory test results indicate no detect in each of the samples taken from the excavated area. The sample taken from the second truck loaded indicated the presence of n-butylbenzene. The soil sample locations, elevations and compounds detected are as follows:

SAMPLE #	LOCATION	ELEVATION	COMPOUND DETECTED
1	North Sidewall	6'8"	None
2	South Sidewall	6'8"	None
3	East Sidewall	6'8"	None
4	Bottom of Excav.	7'6"	None
Truck	2nd Truck	----	1.6 ppb n-butylbenzene
Trip Blank	Lab Vial	----	None

Also on November 11, 1993, the three on-site wells were abandoned. Two wells were PVC wells used for monitoring the groundwater and for sampling. The third well was a 6"

diameter well used as a private well. The pump and wiring had been removed prior to our work.

Approximately 24" of soil was excavated from around the wells to remove the protector pipes and to check the annular space seal. It appears from the excavations that the annular space seal consists of granular bentonite. The well casings were cut off approximately 24" below the grounds surface. The well casings were then filled with 3/8" bentonite pellets. On November 12, 1993, the well casings were then checked for settlement and topped off with bentonite pellets. For further well abandonment information please refer to the Well Abandonment Forms 3300-5B attached to this report.

CONCLUSIONS:

Based on the test data the soil remediation and well closures have been completed. It is our opinion based on the laboratory test results no further remediation is necessary at this time.

CLOSING:

Please find enclosed the completed WDNR Well Abandonment Forms 3300-5B for each of the abandoned wells, the well location sketch and the laboratory test results.

Also, please find attached to this report the chain of custody sheet and signed application to treat contaminated soil.

A copy of this report will be sent to the Wisconsin Department of Natural Resources (WDNR) for there review.

If you have any questions, please feel free to call our office.

NUMMELIN TESTING SERVICES

Bruce Nummelin

Bruce Nummelin
Director BS/SS

xc: Sain & Associates - Mr. Weston Kenney
WDNR - Mr. Fred Bailey
- Ms. Connie Antonuk

PROPOSED WAL-MART SITE
WISCONSIN RAPIDS, WI

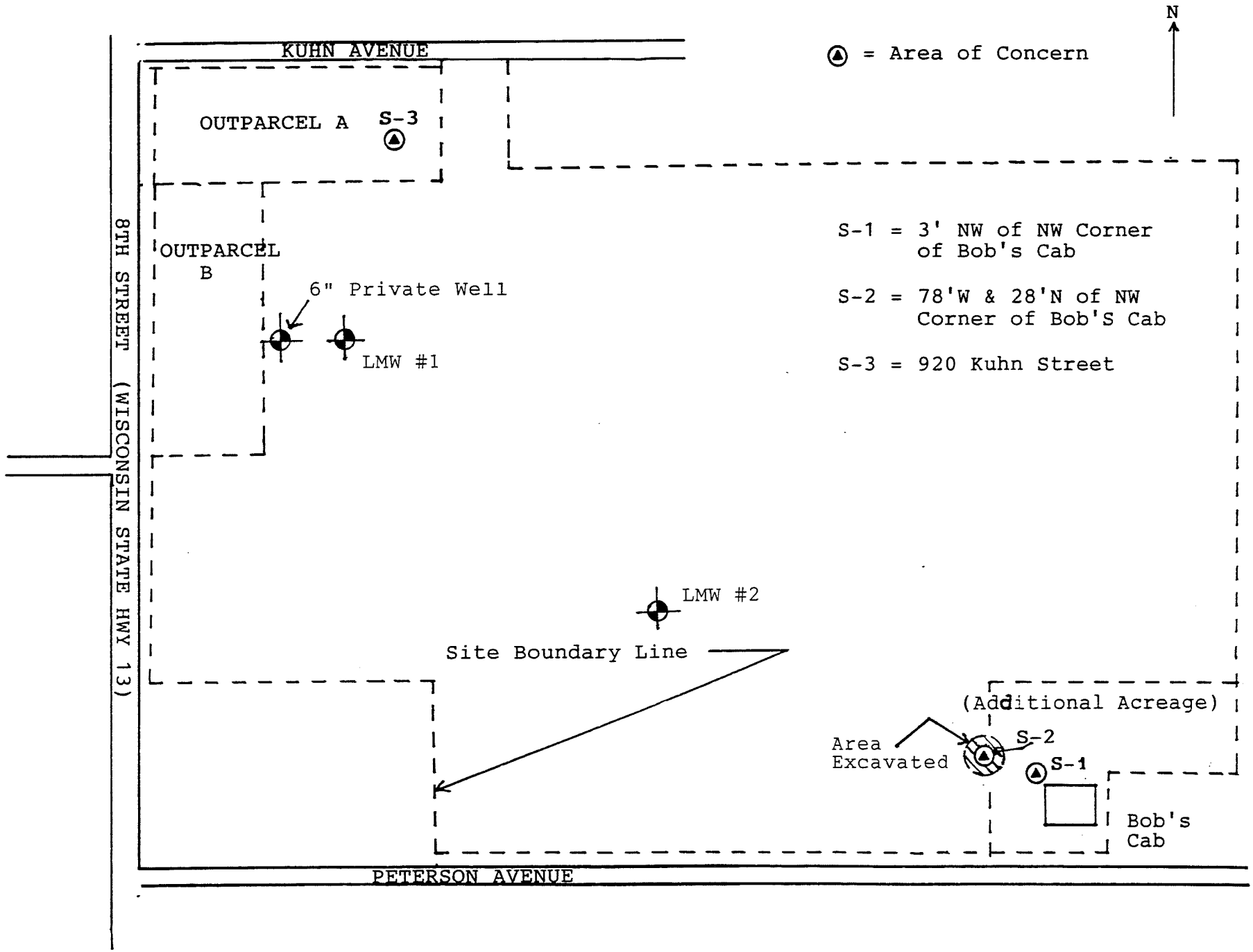
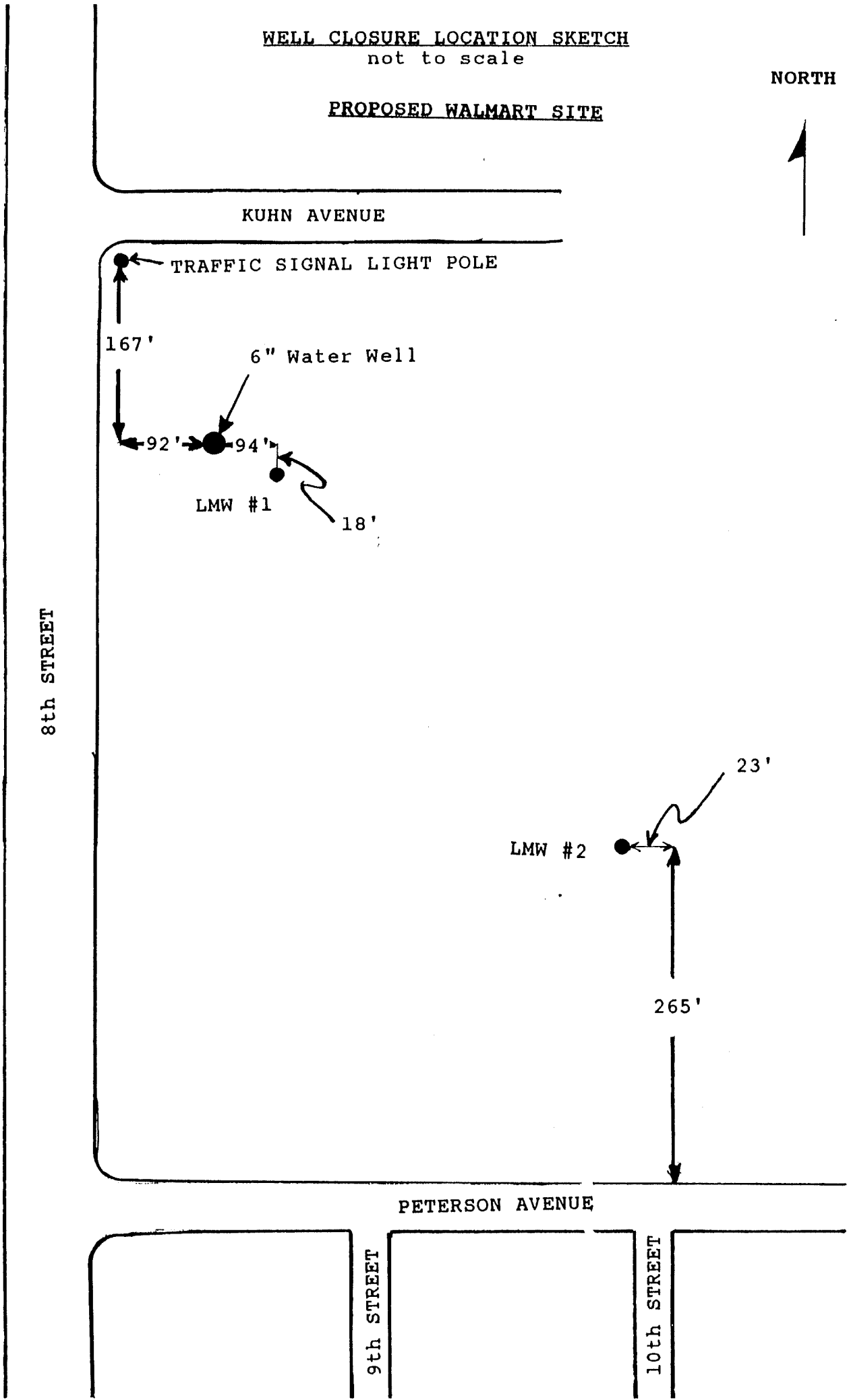


Figure 1


WELL CLOSURE LOCATION SKETCH
not to scale
NORTH
PROPOSED WALMART SITE
KUHN AVENUE
TRAFFIC SIGNAL LIGHT POLE
167'
6" Water Well
92'
94'
LMW #1
18'
8th STREET
23'
LMW #2
265'
PETERSON AVENUE
9th STREET
10th STREET

State of Wisconsin
Department of Natural Resources

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL

Form 4400-120 11-89

This form is required to be submitted by subchapters III and IV of ch. 144, Wis. Stats. Failure to complete and submit this form may lead to violations of these statutes and result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74(1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of a continuing violation constitutes a separate violation.

Sections I, II & IV must be filled out completely. Also, complete other sections that apply.

Return completed forms to: L.U.S.T. Specialist at the appropriate District or Area Office.

I. SOURCE OF SOIL

Facility Name: Freund & Associates, Inc.

Site ID# (For DNR use only):

Site Address: Hwy 13 South

Contact Name: Richard J. Freund

City, State, Zip Code: Wisconsin Rapids, WI 54494

Telephone Number (Include Area Code): (414) 921-3290

Section, Township and Range: SW,SE,29,22N,6E

Facility Owner/Operator Signature:

II. CONTAMINATION DETAILS

Volume Soil (Cubic yards): 25 cu.yds.

Certified DNR Lab Number: ID# 750040280

Type of Petroleum Contamination (Circle one)

1 Gasoline (2 Diesel Fuel 3 #2 Fuel Oil

4 Other

Lab Name: UWSP Environmental Task Force

Sampling Method (Brief description of method used to obtain representative sample of soil): Split Spoon

Contaminant Concentration (Two representative ~~composite~~ samples for every 200 cubic yards of soil, in ppm.) Attach Laboratory Analyses

Sample No.	TB#2 S#1	TB#1 S#1
Benzene	0.0325	
Toluene		
Ethylbenzene		
Total Xylenes		
~~Total Petroleum Hydrocarbons~~ as Gasoline	0.0069	0.001
Total VOC's		
Total Petroleum Hydrocarbons as Fuel Oil		

Total Benzene In Soil To Be Remediated (Attach calculations): 0.00113 lbs.

Total Amount of Petroleum Hydrocrabons In Soil to Be Remediated (Attach calculations): Total VOC's 0.00028 lb

Percent Soil Less Than 200 Mesh or 74 Microns:

Soil Classification Type (Sand, silt, clay, etc.): Sand (SP)

Anticipated Time Frame for Remediation

Start Date: 11-10-93 End Date: 11-11-93

Method of Pulverizing Silt or Clay Soils:

III. PROPOSED METHOD OF SOIL TREATMENT

A. Asphalt Plant/~~Other Type of Thermal Evaporation Unit~~

Name: Eau Claire Asphalt Corporation

WDNR Air Quality Permit Number:

WPDES Permit Number:

Address: P.O. Box 326

s. 144.04 Plan Approval Number or Equivalent:

(Sealed ponds according to NR 213)

City, State, Zip Code: Eau Claire, WI 54702-0326

Distance to Nearest Residence/Business:

(If portable, where will plant be located)

Plant Number and Model:

DNR Facility Identification Number: FID# 618006950

Burner Temperature During Soil Treatment:

Soil Residence Time in Burner During Treatment:

Contact Name: Louie Thune

Anticipated Date Treatment Will be Completed: 11-11-93

Title:

(If stockpiled before being treated, all petroleum contaminated soil must be underlain and overlain by an impermeable membrane.)

Telephone Number (Include area code): (715)835-4858

Final Disposition of Treated Soil (How used, specific location):

Site Telephone Number (Include area code): NONE

Section 1 continued on side 2

Section 1 continued.

If soils will not be incorporated into asphalt, post burn soil testing is required. Soils will need to be sampled for the same parameters listed in Item II. Two composite soil samples are to be taken every 300 cubic yards of soil.

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

2. Volatilization of Contaminants In Soil (Passive Evaporation)

Type of Impervious Surface

Curbing or Berms (Existing or proposed construction)

Thickness of Soil Undergoing Remediation (As placed)

Techniques to Cover During Inclement Weather

Method of Turning or Mixing Soil

Method of Field Sampling

Proposed Verification Method of Contaminant Content (Lab sampling)

Location and Size of Remediation Site

Distance to Nearest Residence/Business

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

3. Disposal of Contaminated Soils at a Sanitary Landfill-NR 500

Name

License No.

Location

Section 3 Continued

Contact Name

DNR Area Investigator Contacted

Name Mr. Tom Ponty

Date 11-11-93

Volume to Be Disposed Of 25 Cubic Yards

Amount Total VOCs* 0.00028 lbs.

Amount Benzene* 0.0013 lbs.

*Attach Calculations

Attach Map Showing Location of Approved Landfill

4. Soil Venting/Vacuum Extraction

Responsible Party

Consultant Responsible for System

Size and Rating (In cfm) of Blower

Distance to Nearest Residence/Business

VOC Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Benzene Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Note: This option may need an air pollution control permit. Any exceedance of an emission limit will require the installation of an activated carbon unit or similar treatment system to strip VOCs from the blower discharge.

5. Other Method of Soil Remediation

Please Describe the Method to Be Used

IV. OWNER/OPERATOR OR CONSULTANT SUBMITTING REQUEST

Company Name: Nummelin Testing Services

Contact Name: Bruce Nummelin

Address: 332 N. Georgia Street

Telephone Number (Include area code): (715) 341-7974

City, State, Zip Code: Stevens Point, WI 54481

Signature: Bruce Nummelin

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

APPLICATION Concurrance

		Contact Name	
_____	Air Management	_____	Date _____
_____	Solid Waste	_____	Date _____
_____	_____	_____	Date _____

Comments: _____

Section 1 continued.

If soils will not be incorporated into asphalt, post burn soil testing is required. Soils will need to be sampled for the same parameters listed in Item II. Two composite soil samples are to be taken every 300 cubic yards of soil.

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

2. Volatilization of Contaminants In Soil (Passive Evaporation)

Type of Impervious Surface

Curbing or Berms (Existing or proposed construction)

Thickness of Soil Undergoing Remediation (As placed)

Techniques to Cover During Inclement Weather

Method of Turning or Mixing Soil

Method of Field Sampling

Proposed Verification Method of Contaminant Content (Lab sampling)

Location and Size of Remediation Site

Distance to Nearest Residence/Business

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

3. Disposal of Contaminated Soils at a Sanitary Landfill-NR 500

Name

License No.

Location

Section 3 Continued

Contact Name

DNR Area Investigator Contacted

Name Mr. Tom Ponty

Date 11-11-93

Volume to Be Disposed Of 25 Cubic Yards

Amount Total VOCs* 0.00028 lbs.

Amount Benzene* 0.0013 lbs.

*Attach Calculations

Attach Map Showing Location of Approved Landfill

4. Soil Venting/Vacuum Extraction

Responsible Party

Consultant Responsible for System

Size and Rating (In cfm) of Blower

Distance to Nearest Residence/Business

VOC Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Benzene Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Note: This option may need an air pollution control permit. Any exceedance of an emission limit will require the installation of an activated carbon unit or similar treatment system to strip VOCs from the blower discharge.

5. Other Method of Soil Remediation

Please Describe the Method to Be Used

I. OWNER/OPERATOR OR CONSULTANT SUBMITTING REQUEST

Company Name: Nummelin Testing Services	Contact Name: Bruce Nummelin
Address: 332 N. Georgia Street	Telephone Number (Include area code): (715) 341-7974
City, State, Zip Code: Stevens Point, WI 54481	Signature: Bruce Nummelin

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

APPLICATION

Concurrance		Contact Name	
_____	Air Management	_____	Date _____
_____	Solid Waste	_____	Date _____
_____	_____	_____	Date _____

Comments: _____

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL ASPHALT PLANT OR OTHER TYPE OF THERMAL TREATMENT UNIT

Form 4400-149

This form is required by the Department of Natural Resources for leaking underground storage tank sites to ensure that petroleum contaminated soil is treated or disposed of in compliance with NR 500-540, NR 158, and NR 419, Wis. Adm. Code. Failure to comply with applicable statutes and administrative rules may lead to violations of subchapters III and IV of ch. 144 Wis. Stats. and may result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426(1), 144.74 (1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74 (2), Wis. Stats. Each day of a continuing violation constitutes a separate violation. Department approval of this form is required prior to site remediation, except for soils to be buried in landfills.

DIRECTIONS: 1) Complete parts I and II. 2) Submit the application to the DNR project manager for approval. 3) Have the treatment facility complete part III of the approved form after the soil has been treated. 4) Return the ORIGINAL form to the DNR project manager. 5) Keep a copy for your files.

ALL SITES MUST COMPLETE PART I.

Part I. Source of Soil

Site/Facility Name: Richard J. Freund & Associates

Site I.D. # (for DNR use only):

Site Address: Highway 13 South

Contact Name: Bruce Nummelin

City, State, Zip Code: Wisconsin Rapids, WI 54494

1/4, 1/4, Section, Township, and Range: SW,SE,29,22N,6E

The information on this form is accurate to the best of my knowledge.
Signature of Soil Generator

Telephone Number (include area code): (715) 341-7974

Consulting Firm	Contact	Telephone Number
Nummelin Testing Services	Bruce Nummelin	(715) 341-7974

Estimated Volume Contaminated Soil

40 Tons (Tons) cubic yards (circle one)

Type of Petroleum Contamination (Circle):

(Gasoline) Diesel Fuel/#2 Fuel Oil

Other _____

Soil Type (USCS)

- X sand (SP, SW)
- ___silty/clayey sands (SM, SC)
- ___silt (ML, MH, OL)
- ___clay (Cl, CH, OH)
- ___gravel (GC, GM, GP, GW)
- ___peat (PT)

Distance to Nearest Residence/Business 75 feet

Contaminant concentration:

One screened sample for each 15 yds³ and one laboratory analysis for each 300 yds³ of contaminated soil when the field instrument *registers contamination* OR one laboratory analysis for each 100 yds³ when the field instrument *does not register contamination* on soil shown to be contaminated during the site investigation/excavation or stockpiling. PLEASE ATTACH A TABLE LISTING RESULTS OF BOTH FIELD SCREENING AND LAB ANALYSES, AND INCLUDE SUPPORTING LAB REPORTS, IN ADDITION TO THE TPH AND BENZENE INFORMATION REQUESTED BELOW. NOTE: DILHR requires a minimum of 3 laboratory samples on excavated soil for PECFA claims.

Total Benzene in soil to be remediated (attach calculations) 0.00113 lbs

~~Total Petroleum Hydrocarbons (TPH)~~ in soil to be remediated (attach calculations) 0.00028 lbs

Total TPH as VOLATILE ORGANIC COMPOUNDS VOC's

*0.00113

= 0.00141#

ATTACH EMISSIONS CALCULATIONS

(a/1,000,000) x (2,800 lbs/yd^3) x b = benzene emission in lbs., where a = benzene concentration of soil sample in ppm or mg/kg dry weight basis, and b = amount of contaminated soil in yds^3. NOTE: This calculation can also be used to estimate TPH emissions by substituting TPH concentration (ppm or mg/kg) for "a". It may also be used to calculate VOCs.

Part II: Proposed Treatment Facility

Name of Plant Eau Claire Asphalt Corporation

Plant number and Model

Contact Louie Thune

DNR Facility I.D. No.

Address P. O. Box 326, Eau Claire, WI
(or location of portable plant)

Distance to Nearest Residence/Business

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management Tom Dooley Date 11/04/93

Project Manager Date

Comments:

THIS SECTION TO BE COMPLETED BY THE ASPHALT/THERMAL UNIT PROCESSING THE CONTAMINATED SOIL
AFTER PROCESSING IS COMPLETED

Part III

WDNR Air Pollution Control Permit Number

Actual Volume of Soil Treated (tons/cubic yards)

Date of transport to plant

Date of treatment

Transporter Name

Transporter License Number

Circle One: Roasted and Incorporated Roasted Only

Total Benzene emissions in pounds for this batch (apply 50% destruction factor if no after burner is used)

Benzene emissions to date for this plant (including this batch) for this calendar year

Signature of Treatment plant representative

Telephone Number at Plant

POST BURN SAMPLE RESULTS: COMPLETE ONLY FOR SOILS NOT INCORPORATED!

(One representative sample for each 100 cubic yards-not composites)

Sample Number _____ _____ _____ _____

TPH _____ _____ _____ _____

DNR APPROVAL IS REQUIRED BEFORE USING AS COMMON FILL.

Date of backfilling or use as common fill

Location of fill site ____1/4____1/4____S____T____R

November 3, 1993
Proposed Walmart Site
Wisconsin Rapids, WI
HwY 13 South
Estimated Quantity = 35 Tons

EMMISION
CALCULATION SHEET

$$25 \text{ cu.yds.} \times \frac{1.4 \text{ Tons}}{\text{cu.yds.}} = 35 \text{ Tons}$$

BENZENE

$$\frac{0.0325}{1{,}000{,}000} \times 2000 \times 35 \times 0.5 = 0.00113 \text{ lbs.}$$

VOC's

$$\frac{0.0079}{1{,}000{,}000} \times 2000 \times 35 \times 0.5 = 0.00028 \text{ lbs.}$$

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

11/17/93

Bruce Nummelin
Nummelin Testing Service
332 N. Georgia St.
Stevens Point, WI 54481

Dear Bruce,

The enclosed results are for the set of VOC's received November 9 and November 11, 1993 from the Ellis Stone and Walmart site, project numbers #102.74 and #105.38, respectively. The samples were analyzed using a *Tekmar* LSC 2000/2016 purge and trap system and a *Varian* 3400 gas chromatograph equipped with a photoionization detector (PID) and a *Hall* electrolytic conductivity detector (HECD). The VOC's were analyzed in accordance with EPA method 8021 (P&T/GC/PID/HECD). These two detectors are linked in series. We use the PID to report aromatic and alkene analytes and the HECD to report halogenated analytes.

These samples were analyzed in accordance with the Environmental Task Force's quality control program and have met those requirements. Percent recoveries for matrix spikes are included for each batch of samples run. If you have any questions regarding these analyses, please call me at (715) 346-3753.

Sincerely,

John C. Zajakowski

John C. Zajakowski
Environmental Task Force
Trace Organics Lab--Assistant Manager

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

ENVIRONMENTAL TASK FORCE LABORATORY

university of wisconsin/stevens point * stevens point, wisconsin 54481 * phone: (715)346-3753

COMPANY NAME: NUMMELIN TESTING

PROJECT NO./CLIENT: 105.38 SAIN & ASSOC

SEND RESULTS TO:
NUMMELIN TESTING
332 N. GEORGIA ST.
STEVENS POINT, WI
54481

SAMPLING LOCATION: 4211 S. 8TH ST.

SAMPLER: NTS - TB & BN

DATE	TIME	SAMPLE ID/DESCRIPTION	NO. OF BOTTLES (Bottle Size/Preservative: 60 mL)	NO. OF BOTTLES (VOC's)	TOTAL	*TYPE	ANALYSIS REQUESTED (VOC's)	REMARKS	LAB ID NUMBER
11-11	2:15	S-1	1		1	S	✓		660-1
		S-2	1		1	S	✓		-2
		S-3	1		1	S	✓		-3
		S-4	1		1	S	✓		-4
		TRUCK SAMPLE	1		1	S	✓		-5
↓	↓	TRIP BLANK	1		1	H_2O	✓		-6

COMMENTS/SPECIAL INSTRUCTIONS:

*Sample Type: S-Soil; SE-Sediment; SO-Solid; SW-Surface Water; DW-Drinking Water; WW-Wastewater; GW-Groundwater; H-Hazardous Liquid; A-Air; O-Oil; X-Other_____

Field Filtered:_____
Date Received:_____
Date Due:_____
RUSH:_____
(approved by lab)

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	TOM BAKER	11-11-93	2:15	[signature]	11/11/93	3:40
2.						

Shipping Details-To Be Completed By ETF

Method of Shipment: DELIVERED ON ICE
Sample Temperatures: ON ICE °C
Sample Condition:_____

WI. State Identification No. 750040280

Received for Laboratory by:_____

No. 0336

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	Trip Blank	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Groundwater	SAMPLE NUMBER	660-93-6
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/l).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= > 3-5 Times the MDL
ND= > Not Detected
NOTE= >

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	Truck Sample	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	660-93-5
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	1.6	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= >3-5 Times the MDL
ND= >Not Detected
NOTE= >

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	S#4 Bottom Excavation	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	660-93-4
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= > 3-5 Times the MDL
ND= > Not Detected
NOTE= >

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	S#3 E. Sidewall	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	660-93-3
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= > 3-5 Times the MDL
ND= > Not Detected
NOTE= >

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	S#2 S. Sidewall	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	660-93-2
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= > 3-5 Times the MDL
ND= > Not Detected
NOTE= >

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	11/11/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	11/11/93
SAMPLE NAME	S#1 N. Sidewall	DATE ANALYZED	11/15/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	660-93-1
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	105.38

EPA METHOD 8021

Practical quantitation limits (ug/l) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL= >3-5 Times the MDL
ND= >Not Detected
NOTE= >

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Wood

SW 1/4 of SE 1/4 of Sec. 29 ; T. 22 N; R. 6 [X] E [ ] W

(If applicable) Gov't Lot _____ Grid Number _____

Grid Location _____ ft. [ ] N. [ ] S., _____ ft. [ ] E. [ ] W.

Civil Town Name: Wisconsin Rapids, WI

Street Address of Well: 4211 S. Eigth St

City, Village: ____

(2) FACILITY NAME

Original Well Owner (If Known): Livesey Company

Present Well Owner: Richard J. Freund

Street or Route: 845 S. Main St.

City, State, Zip Code: Fond Du Lac, WI 54935

Facility Well No. and/or Name (If Applicable): 6" H20 Well

WI Unique Well No.: _____

Reason For Abandonment: Site Development

Date of Abandonment: November 11, 1993

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date): Unknown

[ ] Monitoring Well
[X] Water Well
[ ] Drillhole
[ ] Borehole

Construction Report Available? [ ] Yes [X] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[X] Unconsolidated Formation [ ] Bedrock

Total Well Depth (ft.) 63.25' Casing Diameter (ins.) 6"
(From groundsurface)

Casing Depth (ft.) 65.25'

Was Well Annular Space Grouted? [X] Yes [ ] No [ ] Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 25.5'

Pump & Piping Removed?	[X] Yes	[ ] No	[ ] Not Applicable
Liner(s) Removed?	[X] Yes	[ ] No	[ ] Not Applicable
Screen Removed?	[X] Yes	[ ] No	[ ] Not Applicable
Casing Left in Place?	[X] Yes	[ ] No	

If No, Explain _____

Was Casing Cut Off Below Surface?	[X] Yes	[ ] No
Did Sealing Material Rise to Surface?	[X] Yes	[ ] No
Did Material Settle After 24 Hours?	[ ] Yes	[X] No
If Yes, Was Hole Retopped?	[ ] Yes	[ ] No

(5) Required Method of Placing Sealing Material
[X] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain)

(6) Sealing Materials
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[ ] Chipped Bentonite

For monitoring wells and monitoring well boreholes only
[X] Bentonite Pellets
[ ] Granular Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8' Bentonite Pellets	Surface	63.25'	16 Sacks	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: Nummelin Testing Services

Signature of Person Doing Work | Date Signed: 11-15-93

Street or Route: 332 N. Georgia St. | Telephone Number: (715 341-7974

City, State, Zip Code: Stevens Point, WI 54481

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected | District/County

Reviewer/Inspector

Follow-up Necessary

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location

County: Wood

SW 1/4 of SE 1/4 of Sec. 29 ; T. 22 N; R. 6 [X] E [ ] W

(If applicable) Gov't Lot _____ Grid Number _____

Grid Location _____ ft. [ ] N. [ ] S., _____ ft. [ ] E. [ ] W.

Civil Town Name: Wisconsin Rapids, WI

Street Address of Well: 4211 S. Eigth St.

City, Village: ---

(2) FACILITY NAME

Original Well Owner (If Known): Livesey Company

Present Well Owner: Richard J. Freund

Street or Route: 845 S. Main St.

City, State, Zip Code: Fond Du Lac, WI 54935

Facility Well No. and/or Name (If Applicable): LMW #2

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: Site Development

Date of Abandonment: November 11, 1993

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) August 17, 1989

[X] Monitoring Well
[ ] Water Well
[ ] Drillhole
[ ] Borehole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify) _____

Formation Type:
[X] Unconsolidated Formation [ ] Bedrock

Total Well Depth (ft.) 33.9' Casing Diameter (ins.) 2"
(From groundsurface)

Casing Depth (ft.) 36.25'

Was Well Annular Space Grouted? [X] Yes [ ] No [ ] Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 26.25'

Pump & Piping Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Casing Left in Place?	[X] Yes	[ ] No	

If No, Explain _____

Was Casing Cut Off Below Surface?	[X] Yes	[ ] No
Did Sealing Material Rise to Surface?	[X] Yes	[ ] No
Did Material Settle After 24 Hours?	[ ] Yes	[X] No
If Yes, Was Hole Retopped?	[ ] Yes	[ ] No

(5) Required Method of Placing Sealing Material
[X] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain)

(6) Sealing Materials
[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[ ] Chipped Bentonite

For monitoring wells and monitoring well boreholes only
[X] Bentonite Pellets
[ ] Granular Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
3/8"Bentonite Pellets	Surface	34.0'	1 sack	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: Nummelin Testing Services

Signature of Person Doing Work | Date Signed: 11-15-93

Street or Route: 332 N. Georgia St | Telephone Number: (715) 341-7974

City, State, Zip Code: Stevens Point, WI 54481

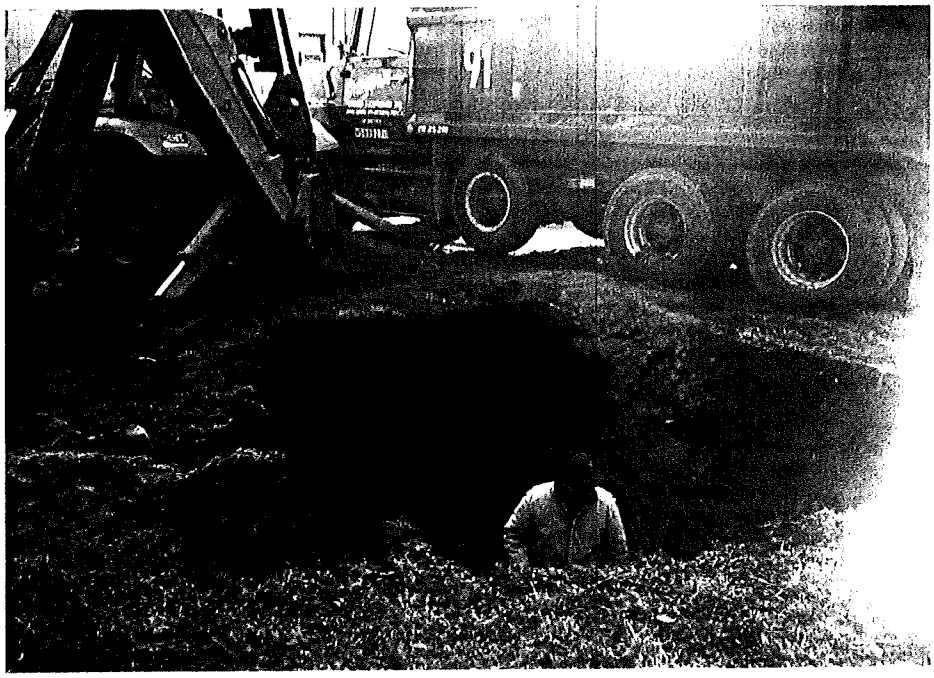
(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected | District/County

Reviewer/Inspector

Follow-up Necessary

WI/COUNTY




Bobs Lab

PHASE II INVESTIGATION
PROPOSED WAL-MART SITE
WICONSIN RAPIDS, WI
9-21-93

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Nummelin Testing Services
332 North Georgia Street - Stevens Point, Wisconsin 54481
Lab. (715) 341-7974 Fax. (715) 341-8654

3802 Packers Avenue - Madison, Wisconsin 53704
Lab. (608) 241-4346 Fax. (608) 241-4308

9/21/93

PHASE II - SUBSURFACE SOIL INVESTIGATION FOR POSSIBLE CONTAMINATION.

For: Sain Associates
Suite 200
244 West Valley Avenue
Birmingham, Alabama 35219-9953

Site: Proposed Wal-Mart Store
Eight Avenue
Wisconsin Rapids, WI

1. INTRODUCTION:

In August of 1993, an updated Phase I Environmental Study was performed on the proposed site. The updated study had three areas of concern, S-1, S-2 and S-3, which are found in figure 1 attached to this report. The updated study recommended these three areas of concern be investigated further for possible soil contamination. The updated study also recommended resampling the existing on-site 6" well to determine if benzene is present in the groundwater at this location. This phase II investigation was performed to address the recommendations made in the updated Phase I Environmental Study.

Nummelin Testing Services utilizes a phased approach in conducting environmental reconnaissance projects. The Phase I investigation is considered to be the lowest level normally required for checking prior site usage. The Phase II investigation is conducted to investigate areas of concern generated by the Phase I investigation. The Phase III investigation usually consists of determining the boundaries of the areas determined to be contaminated in the Phase II investigation and performing remediation.

The main focus of this report will concentrate on laboratory testing specifically directed toward identifying the

presence of hazardous materials in the soil samples collected during the soil boring operation and on the groundwater sample collected from the on-site well.

The updated Phase I Environmental Study was reported on August 8, 1993.

DISCUSSION:

On August 27, 1993, three soil borings were performed in accordance with ASTM Test Designation D1586. One soil boring was performed to a depth of 15' in each of the three areas of concern. Soil samples were collected using a split spoon sampler at 2 1/2' intervals. The soil samples collected were analyzed using a Photovac meter (PID). The soil samples submitted to the laboratory for analysis were split samples placed directly into vials with teflon covers. Two soil samples from TB-1 and two samples from TB-2 were submitted for VOC analysis. Two soil samples submitted from TB-3 were analyzed for pH and lead.

The soil samples tested with the Photovac meter were placed in glass jars and covered with aluminum foil, allowed to warm and then tested. All sampling equipment used for soil sample collection was washed with detergent water and rinsed with distilled water between each sample collection. The field test results of the soil samples are as follows:

SAMPLE NUMBER	SAMPLE DEPTH	*METER READING (ppm)
TB-1; S-1	2.0'	228
TB-1; S-6	14.5'	156
TB-2; S-1	2.0'	687
TB-2; S-6	14.5'	232
TB-3; S-1	2.0'	108
TB-3; S-4	9.5'	132

PHASE II INVESTIGATION

*Due to the instability of the field meter the readings may not be accurate and should be viewed as an indicator at best.

The laboratory test results indicate some compounds were detected in the soil samples submitted. They are as follows:

Sample Number	Compound Detected	Quantity (ppb)	ES** (ppb)	PAL** (ppb)
TB-1; S-1	Tetrachloroethene	1.0	1.0	0.1
TB-1; S-6	None Detected			
TB-2; S-1	n-Butylbenzene	24.1	---	---
	Naphthalene	6.9	40.0	8.0
	1,3,5-Tri-methylbenzene	8.4	---	---
TB-2; S-6	None Detected			

ES= Enforcement Standard for Groundwater.
PAL= Preventative Action Limit for Groundwater.

**No ES nor PAL have been established for soils, therefore the ES and PAL for groundwater have been used. The ES and PAL quantities list should be used as reference only and not as guidelines for action. The new NR 700 Wisconsin Administrative Code will establish soil guidelines however, NR 700 has not yet been completed.

The laboratory test results for the soil samples submitted from TB-3 are as follows:

Sample Number	Sample Depth	Laboratory Lead	Test Results pH
S-1	2'	5.5 ppm	4.55
S-4	9.5'	2.0 ppm	5.41

PHASE II INVESTIGATION

The test results from TB-3 indicate the surface soils have received some impact however, the lead levels detected do not vary significantly from normal backround levels. Also lead tends to be rather immobile in soil. Therefore, it is our opinion the impact does not warrant further investigation or action at this time.

The existing, on-site, 6" groundwater well that had prior benzene detection was also sampled. The well was developed by removing 10 times the well volume of water from the well. A bailer was then used to sample the well. The water sample was placed in a glass vial with zero head space. The water sample was then delivered to the University of Wisconsin-Stevens Point for analysis. The laboratory test results indicate no benzene to be present in the groundwater sample.

RECOMMENDATIONS:

Based on the laboratory test results it is our opinion no further action is necessary in the areas of TB-1 and TB-3. The laboratory test results for the groundwater sample obtained from the existing on-site well indicate no contamination to be present therefore, no further action is necessary in this area. However, the laboratory test results for the area of TB-2 indicates the surface soil has been impacted in this area. From visual observations it appears the area impacted is approximately 8.0' in diameter. We estimate the depth of impact to be approximately 4.0'. We recommend the soils in this area be remediated in an acceptable manor. A few methods of remediation are as follows:

1. Excavate and landfill contaminated soils. However, long term liability does exist with this method.

2. Excavate and incinerate contaminated soils.

3. On-site bioremediation of contaminated soil.

We also recommend the on-site wells be abondoned in accordance with WDNR (Wisconsin Department of Natural Resources) Codes 112, 140 & 141. If the existing wells have

been properly installed (Consult well installation records, not part of this report), then the wells can be abondoned by filling with a grout slurry mix and then cutting off the well casing below the existing grounds surface. If the well casings have not been properly installed then the well casings will have to be drilled out and the hole filled with an impermeable material, ie. grout, bentonite etc. The proper forms will also need to be filed with the WDNR on well abondonment (Form 3300).

CLOSING:

If you have any questions or if we can be of further assistance to you please feel free to call our office.

NUMMELIN TESTING SERVICES

Bruce Nummelin
Soil Scientist

Clifton E.R. Lawson P.E.

PROPOSED WAL-MART SITE
WISCONSIN RAPIDS, WI
AREAS OF CONCERN

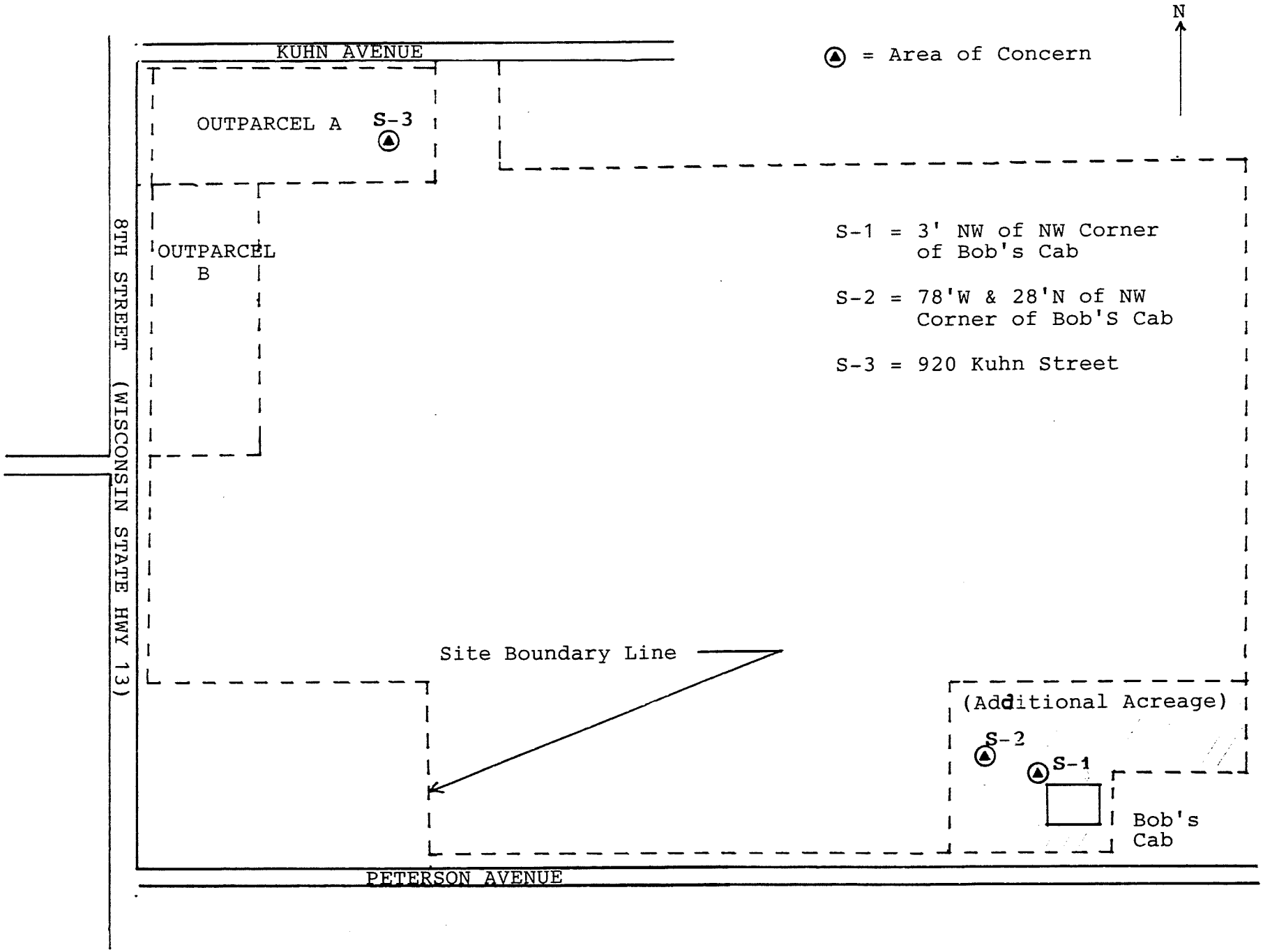

Figure 1

CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

ENVIRONMENTAL TASK FORCE LABORATORY

university of wisconsin/stevens point * stevens point, wisconsin 54481 * phone: (715)346-3753

COMPANY NAME: Nummelin Testing Service

PROJECT NO./CLIENT: WALMART SITE

SAMPLING LOCATION:

SAMPLER: Bruce Nummelin

SEND RESULTS TO:
Nummelin Testing Services
332 N. Georgia ST
Stevens Point, WI

Bottle Size/Preservative: 60ml | BASS | 40ml

DATE	TIME	SAMPLE ID/DESCRIPTION	NO. OF BOTTLES	TOTAL	*TYPE	ANALYSIS REQUESTED: VOC	LEAD	pH	PVOC	1DAY	REMARKS	LAB ID NUMBER
8/27	10:40	TB1, S1	1		S	1						501-1
"	10:55	TB1, S6	1		S	1						-2
"	11:20	TB2, S1	1		S	1						-3
"	11:30	TB2, S6	1		S	1						-4
"	9:30	TB3, S1	1 1		S		1	1				-5
"	9:40	TB3, S4	1 1		S		1	1				-6
8/27	12:59	S#1	3		GW				1			-7
		TRIP BLANK							1			-8
		PHOTO VAC								X	DIDN'T WORK	

COMMENTS/SPECIAL INSTRUCTIONS:

*Sample Type: S-Soil; SE-Sediment; SO-Solid; SW-Surface Water; DW-Drinking Water; WW-Wastewater; GW-Groundwater; H-Hazardous Liquid; A-Air; O-Oil; X-Other_____

Field Filtered:
Date Received:
Date Due:
RUSH:
(approved by lab)

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	Bruce Nummelin	8/27	2:10 pm	William M. Dahl	8/27/98	2:10 pm
2.						

Shipping Details-To Be Completed By ETF

Method of Shipment: DELIVERED
Sample Temperatures: ON ICE °C
Sample Condition:

WI. State Identification No. 750040280

Received for Laboratory by:

No. 0318

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

09/07/93

Bruce Nummelin
Nummelin Testing Service
332 Georgia Street N.
Stevens Point, WI 54481

Dear Bruce,

The enclosed results are for the set of PVOC's received August 27, 1993 from the Lany Walmart site, project number unknown. The samples were analyzed using a *Tekmar* LSC 2000/2016 purge and trap system and a *Varian* 3400 gas chromatograph equipped with a photoionization detector (PID). The PVOC's were analyzed in accordance with EPA method 8020 (P&T/GC/PID).

These samples were analyzed in accordance with the Environmental Task Force's quality control program and have met those requirements. Percent recoveries for matrix spikes are included for each batch of samples run. If you have any questions regarding these analyses, please call me at (715) 346-3753.

Sincerely,

John Zajakowski

John C. Zajakowski
Environmental Task Force
Trace Organics Lab--Assistant Manager

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

Sample Source: Nummelin Testing Service
Sample Name: Walmart
Sample Matrix Groundwater
Lab Number: 501-93
Date Analyzed: August 31, 1993
Analyst: John Zajakowski

Wisconsin Modified LUST Method Spike

ANALYTE	CALCULATED CONCENTRATION	SPIKED CONCENTRATION	PERCENT RECOVERY
Benzene	35.1	30.8	114.1%
Ethylybenzene	33.2	30.8	107.8%
Toluene	36.0	30.8	116.7%
m&p-Xylene	69.2	61.6	112.4%
o-Xylene	32.5	30.8	105.6%
Trimethylbenzene-1,3,5	32.0	30.8	103.9%
Trimethylbenzene-1,2,4	30.9	30.8	100.4%
Methyl t-Butyl Ether	29.6	30.8	96.3%

COMMENTS=> All concentrations are reported in ug/L (ppb).

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

SAMPLE SOURCE	Nummelin Testing Service	SAMPLE MATRIX	Groundwater
SAMPLE SITE	Walmart	SAMPLE TEMP.	"On Ice"
SAMPLE NAME	S#1	DATE SAMPLED	08/27/93
SAMPLE NO.	501-93-7	DATE RECEIVED	08/27/93
PROJECT NO.	Unknown	DATE ANALYZED	08/31/93

PETROLEUM VOLATILE ORGANIC REPORT

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are listed in parts per billion (ug/L).

Benzene	[0.8]	ND
Ethylbenzene	[1.0]	ND
Methyl-t-butyl Ether	[1.0]	ND
Toluene	[1.0]	ND
1,2,4-Trimethylbenzene	[1.0]	ND
1,3,5-Trimethylbenzene	[1.0]	ND
o-Xylene	[2.0]	ND
m+p-Xylene	[2.0]	ND

ND==> Not Detected
COLUMN==> Restek 502.2--105 meters
DETECTOR==> Photoionization Detector (PID)
PRESERVATIVE==> 750uL 1:1 HCL
PQL==>3-5 times the MDL

NOTE==>One unidentified compound is present.

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

SAMPLE SOURCE	Nummelin Testing Service	SAMPLE MATRIX	Groundwater
SAMPLE SITE	Walmart	SAMPLE TEMP.	"On Ice"
SAMPLE NAME	Trip Blank	DATE SAMPLED	08/27/93
SAMPLE NO.	501-93-8	DATE RECEIVED	08/27/93
PROJECT NO.	Unknown	DATE ANALYZED	08/31/93

PETROLEUM VOLATILE ORGANIC REPORT

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are listed in parts per billion (ug/L).

Benzene	[0.8]	ND
Ethylbenzene	[1.0]	ND
Methyl-t-butyl Ether	[1.0]	ND
Toluene	[1.0]	ND
1,2,4-Trimethylbenzene	[1.0]	ND
1,3,5-Trimethylbenzene	[1.0]	ND
o-Xylene	[2.0]	ND
m+p-Xylene	[2.0]	ND

ND==> Not Detected
COLUMN==> Restek 502.2--105 meters
DETECTOR==> Photoionization Detector (PID)
PRESERVATIVE==> 750uL 1:1 HCL
PQL==>3-5 times the MDL

NOTE==>

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

09/07/93

Bruce Nummelin
Nummelin Testing Service
332 Georgia Street N.
Stevens Point, WI 54481

Dear Bruce,

The enclosed results are for the set of VOC's received August 27, 1993 from the Lany Walmart site, project number unknown. The samples were analyzed using a *Tekmar* LSC 2000/2016 purge and trap system and a *Varian* 3400 gas chromatograph equipped with a photoionization detector (PID) and a *Hall* electrolytic conductivity detector (HECD). The VOC's were analyzed in accordance with EPA method 8021 (P&T/GC/PID/HECD). These two detectors are linked in series. We use the PID to report aromatic and alkene analytes and the HECD to report halogenated analytes.

These samples were analyzed in accordance with the Environmental Task Force's quality control program and have met those requirements. Percent recoveries for matrix spikes are included for each batch of samples run. If you have any questions regarding these analyses, please call me at (715) 346-3753.

Sincerely,

John Zajakowski

John C. Zajakowski
Environmental Task Force
Trace Organics Lab--Assistant Manager

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

Sample Source: Nummelin Testing Service
Sample Site: Walmart
Lab Number: 501-93
Date Analyzed: September 1, 1993
Sample Matrix Soil
Analysist: John Zajakowski

EPA 8021-- Volatile Organic Compound Spike

ANALYTE	CALCULATED CONCENTRATION	SPIKED CONCENTRATION	PERCENT RECOVERY
Benzene	23.7	25.0	94.9%
Toluene	24.7	25.0	98.6%
Chlorobenzene	24.2	25.0	96.8%
Trichloroethene	22.6	25.0	90.5%
Dichloroethene-1,1	25.7	25.0	103.0%

Comments=>All concentration are reported in ug/L (ppb).

University of Wisconsin-Stevens Point
College of Natural Resources
Environmental Task Force Lab
Stevens Point, WI 54481-3897 (715) 346-3209

SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	08/27/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	08/27/93
SAMPLE NAME	TB#1 S#1	DATE ANALYZED	09/01/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	501-93-1
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	Unknown

EPA METHOD 8021

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/Kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	1.0
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL=>3-5 Times the MDL
ND=>Not Detected
NOTE=>

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Environmental Task Force Lab
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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	08/27/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	08/27/93
SAMPLE NAME	TB#1 S#6	DATE ANALYZED	09/01/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	501-93-2
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	Unknown

EPA METHOD 8021

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/Kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL=>3-5 Times the MDL
ND=>Not Detected
NOTE=>

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	08/27/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	08/27/93
SAMPLE NAME	TB#2 S#1	DATE ANALYZED	09/01/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	501-93-3
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	Unknown

EPA METHOD 8021

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/Kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	24.1	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	6.9
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	8.4
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL=>3-5 Times the MDL
ND=>Not Detected
NOTE=>Heavier, unidentified petroleum compounds are present.

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SAMPLE SOURCE	Nummelin Testing Service	DATE SAMPLED	08/27/93
SAMPLE SITE	Walmart Site	DATE RECEIVED	08/27/93
SAMPLE NAME	TB#2 S#6	DATE ANALYZED	09/01/93
SAMPLE MATRIX	Soil	SAMPLE NUMBER	501-93-4
SAMPLE TEMP.	"On Ice"	PROJECT NUMBER	Unknown

EPA METHOD 8021

Practical quantitation limits (ug/L) are indicated in brackets [].
All concentrations are reported in parts per billion (ug/Kg).

Benzene	[0.8]	ND	1,2-Dichloropropane	[0.7]	ND
Bromobenzene	[1.0]	ND	1,3-Dichloropropane	[0.6]	ND
Bromochloromethane	[1.0]	ND	2,2-Dichloropropane	[2.0]	ND
Bromodichloromethane	[4.0]	ND	1,1-Dichloropropene	[1.0]	ND
Bromoform	[4.0]	ND	cis-1,3-Dichloropropene	[0.8]	ND
Bromomethane	[15.0]	ND	trans-1,3-Dichloropropene	[0.7]	ND
n-Butylbenzene	[1.0]	ND	Ethylbenzene	[1.0]	ND
sec-Butylbenzene	[2.0]	ND	Hexachlorobutadiene	[2.0]	ND
tert-Butylbenzene	[1.0]	ND	Isopropylbenzene	[1.0]	ND
Carbon Tetrachloride	[1.0]	ND	p-Isopropyltoluene	[1.0]	ND
Chlorobenzene	[2.0]	ND	Naphthalene	[2.0]	ND
Chloroethane	[8.0]	ND	n-Propylbenzene	[1.0]	ND
Chloroform	[3.0]	ND	1,1,1,2-Tetrachloroethane	[1.0]	ND
Chloromethane	[15.0]	ND	1,1,2,2-Tetrachloroethane	[2.0]	ND
2-Chlorotoluene	[1.0]	ND	Tetrachloroethene	[1.0]	ND
4-Chlorotoluene	[1.0]	ND	Toluene	[1.0]	ND
Dibromochloromethane	[5.0]	ND	1,2,3-Trichlorobenzene	[2.0]	ND
1,2-Dibromo-3-Chloropropane	[3.0]	ND	1,2,4-Trichlorobenzene	[2.0]	ND
1,2-Dibromoethane	[1.5]	ND	1,1,1-Trichloroethane	[2.0]	ND
Dibromomethane	[1.0]	ND	1,1,2-Trichloroethane	[1.0]	ND
1,2-Dichlorobenzene	[1.0]	ND	Trichloroethene	[1.0]	ND
1,3-Dichlorobenzene	[1.0]	ND	Trichlorofluoromethane	[15.0]	ND
1,4-Dichlorobenzene	[1.0]	ND	1,2,3-Trichloropropane	[2.0]	ND
Dichlorodifluoromethane	[15.0]	ND	1,2,4-Trimethylbenzene	[1.0]	ND
1,1-Dichloroethane	[0.8]	ND	1,3,5-Trimethylbenzene	[1.0]	ND
1,2-Dichloroethane	[0.9]	ND	Vinyl Chloride	[2.0]	ND
1,1-Dichloroethene	[1.0]	ND	o-Xylene/Styrene	[2.0]	ND
cis-1,2-Dichloroethene	[1.0]	ND	m+p-Xylene	[2.0]	ND
trans-1,2-Dichloroethene	[1.0]	ND			
Dichloromethane	[5.0]	ND			

PQL=>3-5 Times the MDL
ND=>Not Detected
NOTE=>

NUMMELIN TESTING SERVICES

PROJECT: Walmart-Wis. Rapids, WI
PROJECT NO: 105.06
CLIENT: Sain & Associates
DATE: September 14, 1993

BORING NO: TB-1
LOCATION: 5'N of NW corner of Bob's Cab
GROUNDWATER:
SURFACE ELEV:

SOIL CLASSIFICATION AND REMARKS	SAMP NO.	SAMPLE DEPTH	BLOW COUNTS	MOIST	LAB RESULTS AND REMARKS
0.0'-1.0' Brown F-M sand w/ trace gravel	1	0.0'-2.0'	2,2,2,3	M	
1.0'-1.4' Black cinders (old fill)	2	2.5'-4.5'	2,3,3,3	M	
1.4'-1.8' Dark Brown F-M sand w/ trace silt	3	5.0'-7.0'	3,3,5,6	M	
1.8'-19.5' Brown F-M sand w/ occas. gravel	4	7.5'-9.5'	3,4,5,6	M	
becoming lighter and decreasing gravel	5	10.0'-12.0'	2,3,3,5	M	
with depth	6	12.5'-14.5'	4,5,5,7	M	
	7	15.0'-17.0'	5,6,8,9	M	
EOB	8	17.5'-19.5'	3,4,6,8	M	

SUBCONTRACTED BY: Environmental & Foundation Drilling
DRILLING METHOD: 2.25 HSA
WATER LEVEL MEASUREMENTS: Dry

SOIL BORING LOG

NUMMELIN TESTING SERVICES

PROJECT: Walmart-Wis. Rapids, WI
PROJECT NO: 105.06
CLIENT: Sain & Associates
DATE: September 14, 1993

BORING NO: TB-2
LOCATION: 20[illegible]'N & 75[illegible]'W
NW Corner of Bob's Cab
GROUNDWATER:
SURFACE ELEV:

SOIL CLASSIFICATION AND REMARKS	SAMP NO.	SAMPLE DEPTH	BLOW COUNTS	MOIST	LAB RESULTS AND REMARKS
0.0'-1.0' Brown F-M sand w/ trace silt & occ. gravel	1	0.0'-2.0'	2,2,2,3	M	
	2	2.5'-4.5'	2,3,4,6	M	
	3	5.0'-7.0'	3,4,6,6	M	
1.0'-14.5' Brown F-M sand w/ occas. gravel becoming lighter and decreasing gravel with depth	4	7.5'-9.5'	2,3,4,5	M	
	5	10.0'-12.0'	2,2,2,2	M	
	6	12.5'-14.5'	2,3,4,5	M	
EOB					

SUBCONTRACTED BY: Environmental & Foundation Drilling
DRILLING METHOD: 2.25 HSA
WATER LEVEL MEASUREMENTS: Dry

SOIL BORING LOG

NUMMELIN TESTING SERVICES

PROJECT: Walmart-Wis. Rapids, WI
PROJECT NO: 105.06
CLIENT: Sain & Associates
DATE: September 14, 1993

BORING NO: TB-3
LOCATION: NE corner of site @ 920 Kuhn address
GROUNDWATER:
SURFACE ELEV:

SOIL CLASSIFICATION AND REMARKS	SAMP NO.	SAMPLE DEPTH	BLOW COUNTS	MOIST	LAB RESULTS AND REMARKS
0.0'-.5' Dk Brown F-M sand w/ trace silt & occ. gravel	1	0.0'-2.0'	2,2,2,3	M	
	2	2.5'-4.5'	3,3,3,5	M	
	3	5.0'-7.0'	2,3,4,4	M	
1.0'-14.5' Brown F-M sand w/ occas. gravel becoming lighter and no gravel with depth	4	7.5'-9.5'	4,5,5,7	M	
	5	10.0'-12.0'	3,4,3,4	M	
	6	12.5'-14.5'	2,2,2,3	M	
EOB					

SUBCONTRACTED BY: Environmental & Foundation Drilling
DRILLING METHOD: 2.25 HSA
WATER LEVEL MEASUREMENTS: Dry

SOIL BORING LOG

4/91

BRIEF SUMMARY RESUME

CLIFTON E.R. LAWSON, PROFESSIONAL ENGINEER

BIRTHDAY: May 25, 1928

EDUCATION: BCE 1951 (Civil Engineering) and MS 1956 (Soils Engineering) from Cornell University, Ithaca, N.Y. in top quarter of class.

LICENSES, SOCIETIES, ETC.: Registered Professional Engineer, WI, IA, IL, IND, & MA. Member ASCE, WSPE, NSPE, ASTM, ASTM Committees D-18 & D-34. Part Time Instructor in extension and classroom courses at University of Wisconsin (Madison). Contributor to discussions ASTM and ASCE.

EXPERIENCE RECORD

1954-56 & 1956-58 with B.K. Hough, Consulting Engineer, Ithaca, N.Y. as graduate engineer performing soils engineering for airports, public and private buildings and earthen dams.

1956 (5 months) with Louis Berger and Associates, Harrisburg, Pa. as soils engineer in charge of field office for all roadway and bridge soils investigations for 30 miles of Illinois Tollway.

1958-63 with Wisconsin Department of Transportation, Madison, Wisconsin as Senior Soils Engineer, Central Office. In charge of all subsurface investigations and roadway soils studies for new work. Supervised 15 to 25 engineers and technicians. Prepared soils engineering reports. Developed techniques for pile load tests, seismic and resistivity explorations. Wrote much of the Wisconsin Highway Soils Manual. Trained engineers and technicians in testing and engineering procedures. Developed test boring equipment and techniques. Consultant to other State agencies.

1963-82 with Warzyn Engineering Inc., Madison, Wisconsin as Chief Soils Engineer. Also from 1974 to '82 as Chief Materials Engineer. Supervised 10 to 25 engineers, scientists, and technicians. Prepared soils engineering and materials engineering reports for all types of structures and civil engineering works, developed test techniques, trouble-shoot unusual problems with structures and soils, expert witness in these situations as well as gas explosions, construction materials problems (such as fatigue breaks, blasting vibrations, and floor covering failures). Developed and supervised special testing methods for physical and chemical characterization of solid wastes (such as power plant fly ash and scrubber sludge, paper mill sludge, and foundry waste). Supervised geotechnical investigations for industrial machinery and diagnosed sources of machine vibrations, developed foundation solutions. Expert witness for dredge problems. Siting studies of industrial and other facilities.

1982 to Present. Independent Consulting Engineer. Consulting engineering on Soils Engineering and Construction Materials related subjects for Contractors, Engineers, Architects and Owners of Real Estate. Expert Witness on materials and geotechnical problems. Summer School Instructor UW Madison "Advanced Highway Design and Construction". Pavement Analysis for evaluating and most economic upgrading. Contractor advice for poor construction sites. Bridge and building site investigations. Sewer and force main investigations. Construction material failure analyses. Laboratory testing of soils. Soil stability analyses for dikes, slopes, trench walls, and water retaining structures. Drainage studies for wet sites, such as lift stations, athletic fields, tennis courts, etc. Environmentally related engineering projects such as site evaluations for bank financing, underground storage tank site assessments.

BRUCE NUMMELIN BS/SS

OWNER

EXPERTISE: Soil Scientist, Materials Quality Control, Laboratory Analysis

CAREER EXPERIENCE:

Owner of Nummelin Testing Services

Laboratory Supervisor of Gremmer-Bablitch Consulting Engineers, Stevens Point, WI

Laboratory Supervisor of Soils & Engineering Services, Madison, WI

Accomplishments Include:

*Geotechnical investigation for proposed building sites; laboratory analysis of proposed clay borrow sites; laboratory analysis of clay liner at the Winnebago County Landfill; construction materials testing at several Wal-mart stores, Copps stores, Fleet Farm, Saint Michael's Hospital.

*Wide variety of construction materials testing for municipal utilities, waste water treatment facilities, airports, libraries, motels, athletic fields, schools, state facilities, roadways and bridges as well as private home sites.

*Environmental Monitoring- groundwater monitoring for Abbotsford and Medford, Wisconsin as well as Badger Disposal in Rio, Wisconsin.

PROFESSIONAL CREDENTIALS:

*Bachelor of Science, Soil Science, UW Madison

*Environmental Studies Certificate, UW Madison

*ACI Certification - Concrete Testing

*Troxler Certification - Field Density Testing

*Nuclear Regulatory Materials License Holder

*State of Wisconsin Site Assessment Certification

*Department of Transportation - Agg Tech I

PROFESSIONAL AFFILIATIONS:

*American Concrete Institute

*WRMCA

BN/mn
05/93

BRUCE NUMMELIN BS/SS

OWNER

EXPERTISE: Soil Scientist, Materials Quality Control, Laboratory Analysis

CAREER EXPERIENCE:

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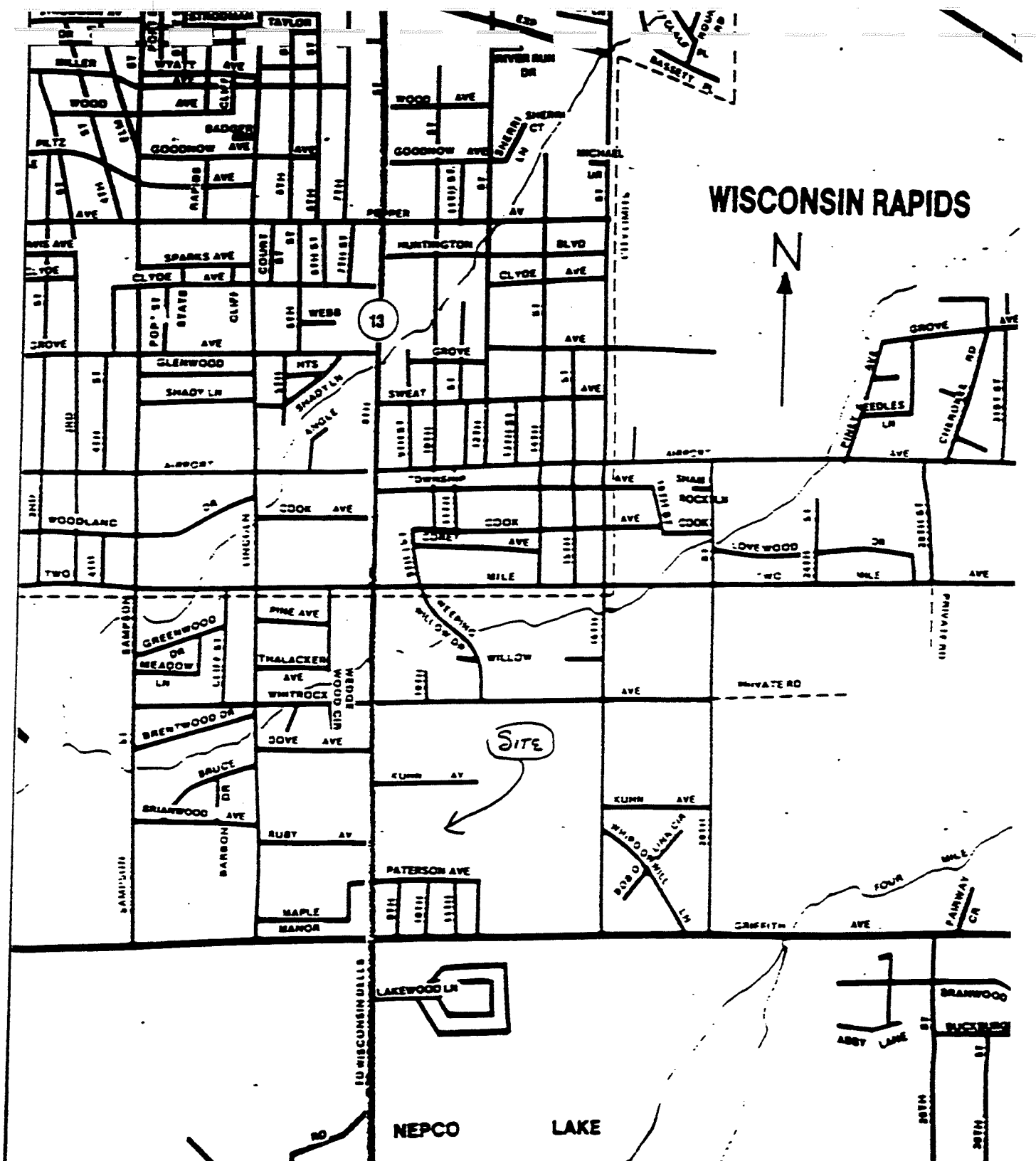
BN/mn
05/93


WISCONSIN RAPIDS
N
Site
NEPCO LAKE
WOOD AVE
GOODNOW AVE
HUNTINGTON BLVD
CLYDE AVE
GROVE AVE
SPARKS AVE
GLENWOOD HTS
SHADY LN
WOODLAND DR
COOK AVE
MILE AVE
PINE AVE
THALACKER AVE
GREENWOOD DR
MEADOW LN
BRENTWOOD DR
DOVE AVE
BRIARWOOD AVE
RUBY AV
MAPLE MANOR
KUHN AVE
PATERSON AVE
PRIVATE RD
WILLOW DR
LAKEWOOD LN
WISCONSIN DELLS RD
BRIARWOOD
13

ENVIRONMENTAL STUDY
PHASE I-UPDATE

WAL-MART STORE
WISCONSIN RAPIDS, WI
AUGUST-8-93

Nummelin Testing Services
332 North Georgia Street - Stevens Point, Wisconsin 54481
Lab: (715) 341-7974 Fax: (715) 341-8654

3802 Packers Avenue - Madison, Wisconsin 53704
Lab: (608) 241-4346 Fax: (608) 241-4308

PHASE I - PRIOR USE DETERMINATION AND LEVEL I SITE SURVEY (UPDATE)

For: Sain Associates
Suite 200
244 West Valley Avenue
Birmingham, Alabama 35219-9953

Site: Proposed Walmart Store
Eight Avenue
Wisconsin Rapids, WI

1. INTRODUCTION:

In July, 1989, a Phase I Environmental Audit was conducted on this site by Foth & Van Dyke of Milwaukee, WI.. Based on the findings of the Phase I conducted at that time a Phase II was implemented in September, 1989.

This investigation and report was performed for the purpose of updating the Phase I Environmental Property Investigation conducted by Foth & Van Dyke in 1989. Since 1989 the site has been cleared of all buildings. Approximately three additional acres have also been included to the proposed site since 1989. The additional three acres will be added to the southeast corner of the original site. The Phase I Audit conducted in 1989 was conducted on approximately 20 acres, this update will encompass approximately 23 acres.

Nummelin Testing Services utilizes a phased approach in conducting environmental reconnaissance projects. The Phase I investigation is considered to be the lowest level normally required for checking prior site usage.

The main focus of this report will concentrate on site changes that have occurred since 1989 which may have potential for environmental impairment. If the result of this Phase I indicates there is the potential for contamination to exist, we will recommend that field and

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The main focus of this report will concentrate on site changes that have occurred since 1989 which may have potential for environmental impairment. If the result of this Phase I indicates there is the potential for contamination to exist, we will recommend that field and

laboratory testing specifically directed toward identifying the presence of hazardous materials be conducted (Phase II). Additional phases may or may not be warranted based on the information obtained during the Phase I and II investigation.

This investigation made use of reference information available in various agencies, as well as local information from sources noted herein.

II. PROPERTY DESCRIPTION:

The property consists of approximately 23 acres and is located on Eight Street within part of the SW 1/4, SE 1/4, Section 29, T22N, R6E, Town of Grand Rapids, Wood County, Wisconsin. The site is bordered on the north by Kuhn Avenue, to the west by Eight Street, and to the south by Peterson Avenue (apparently Center Avenue is now Peterson Avenue). The site was at one time part of a auto salvage operation.

The property is currently an open field with typical small oak and pine trees, shrubs, and herbaceous vegetation with the exception of a metal building housing a Taxi Cab dispatch and vehicle maintenance building in the southeast corner of the proposed site.

Further site information can be reviewed in the prior Phase I and Phase II reports.

III. TITLE SEARCH OF PREVIOUS OWNERS:

The 20 acre parcel was purchased in 1989 by Livesey Company from Mr. Morris Walcott. Livesey remains the current owner.

The additional acreage to the southeast was purchased in 1964 by Mr. Morris Wolcott from Ms. Alice Peterson. The additional acreage is approximately 3 acres. This property was annexed to the city in 1990.

For property owners prior to 1989, please refer to the original Phase I report.

IV. SITE USE HISTORY:

A. Historical aerial photography review:

Please refer to the prior Phase I report.

B. Review of maps:

Maps reviewed include "Hydrogeology of Wood County, Wisconsin".

For additional map review please refer to the original Phase 1 conducted in 1989 by Foth & Van Dyke.

C. Interview with Owner of Bobs' Cab Company:

We interviewed Mr. Leo Dashner, the current owner operator of Bobs' Cab located in the southeast corner of the subject property. This is the same Bob's Cab that occupied the lot at 4211 south Eight Street from 1987 to 1990. Then in 1990 Bob's Cab moved to its present location. Mr. Dashner summarized the usage of the property occupied by his present cab service as follows. The present metal building is used as an office for the business and as a service garage for the cabs. He stated that he witnessed no environmentally questionable activities during his involvement on the site. He also stated that he was not aware of any hazardous spills on the site.

V. REGULATORY REVIEW:

Personnel at the Wisconsin Department of Natural Resources (WDNR) indicate that the Wisconsin DNR data bases for spills, hazardous waste, well contamination and similar problem sites are as complete or more so than US EPA records would be. Therefore, the Wisconsin DNR records were reviewed for possible environmental problems in the site vicinity. Wisconsin is generally more restrictive and

active in environmental awareness and enforcement than the US EPA. The US EPA was not contacted. The DNR state wide data base print out, obtained from the DNR North Central District Headquarters in Rhinelander, WI listing reported spills and environmental problem areas was reviewed. The Wood County Department of Health was also contacted. This department has a listing of all registered underground storage tanks either installed or removed. According to the Department of Health the listing shows no underground storage tanks having been installed or removed from this site. No other state or federal agency has a local office that would have pertinent information to this assessment that was not contacted in the original Phase 1 study.

VI. REVIEW OF AVAILABLE SITE INFORMATION FOR ENVIRONMENTAL FACTORS:

A. Proximity to Hazardous Waste Sites:

Please refer to the previous Phase I and Phase II reports.

B. Spills Listed in Area:

1. A 150 gallon fuel oil spill occurred at 3761 8th Street South, the responsible party was Rapids Energy located in Wisconsin Rapids, no action was required by the DNR.

No other spills in the immediate area are listed in the DNR's spills list.

C. Geologic and Hydrogeologic Characteristics and Vulnerability:

Regional ground water flow in central Wood County generally is from north to south flowing into the low-lying wetlands to the Southwest. The subject site is not likely to be adversely affected by groundwater flows into the site.

C. Environmentally Sensitive Areas:

The Ziebart under coating business located to the north of the subject sites northwest corner contains hazardous materials. However, they pose little or no threat to the project site.

Ferrell Gas Company located south of the subject sites southeast corner contains large amounts of liquid propane gas.

VII. SITE VISIT AND REPORT:

All structures of Area No. 1 at 4211 South Eight Street and Area No. 2 at 920 Kuhn Avenue have been removed. The septic systems at both Areas 1 and 2 have been removed by Bohn Trucking and Excavating, Inc.. According to Mr. Ron Bohn the septic systems were concrete. We were informed that the tanks were removed from the site and the holes backfilled with sand.

A metal building approximately 50' X 80' housing Bobs' Cab is located in the southeast corner of the subject site. This structure is constructed with a typical slab on grade. We toured the inside of the building and noted drain oil being stored in 55 gallon drums for recycling. A parts cleaning unit containing parts cleaning solution is regularly maintained by the supplier. The floor contains a floor trough type drain running east-west through the slab. We were informed that the floor drain empties into the on-site septic system. We were also informed that Bobs' Cab company is serviced by a 40' well and has a 1200 gallon concrete septic system at the north end of the building.

Walking around the building we noticed on the east and west sides what appears to be superficial oil spills typical of parked vehicles with small oil leaks. A circle containing no vegetation, approximately 3 1/2' in diameter, was noticed 78' west and 28' north of the cab buildings northwest corner. Petroleum odors were noted at this location. Weathered granite now covers this area.

Evidence of no vegetation growth was also noticed just outside the buildings northwest corner. Odors similar to those rendered by a solvent were noted here.

During our walk of the site a small burn pile was noticed northwest of LMW 1. This pile contained porcelain light fixtures, burnt electric wire, insulation, plastic, and a broken porcelain toilet. Various metal parts and pieces were noted throughout the area. Small metal pieces were also noted near and within the old auto salvage area. No light fixtures containing ballasts were noted, nor any electrical transformers, or other material that could be environmental damaging.

In the former building area at 920 Kuhn Avenue three items of significance were noticed. The first being the presence of car battery parts in the soil. The second is an abandoned natural gas line protruding from the soil in the southeast corner of the building area. Third is a 30" metal casing that Mr. Morris Walcott, the former property owner, indicated may have been an old abandoned well that has been filled in with soil.

During the walk of the site no evidence of other environmental concerns such as electrical transformers, light ballasts, leaking pipes or material containing asbestos, were noted.

SUMMARY AND CONCLUSIONS:

Two areas with no vegetation growth and noticeable odors were noted near Bobs' Cab company (refer to the attached location sketch for locations). It is this writers opinion, that further investigation is warranted in both areas. The superficial oil spills on the east and west sides of the cab company are typical of parked vehicles with slow leaks and appear to be shallow in depth. This type of contamination poses little threat to the environment.

The 920 Kuhn Avenue site is another area of environmental concern. Pieces of car batteries were found at the surface of the building area. Hand digging with a shovel several inches unearthed battery caps and pieces that appear to be from batteries. Battery acids and lead have the potential to contaminate both the soil and groundwater. It is this writers opinion that this area should also have further investigation.

The abandoned natural gas line in the southeast corner at 920 Kuhn Avenue poses no serious environmental threat, but should be properly removed.

Another area of environmental concern is the existing wells. The Phase I report dated July, 1989, makes reference to a private well locate south of the building at 4211 South Eight Street. However, the Phase II report dated September, 1989, makes reference to a private well located at 4213 South 13th Street with detection levels of 3.5 ppb of benzene. We were informed the WDNR conducted this investigation on June 3, 1987. This writer could not find an address of 4213 South 13th Street. Mr. Rick Panosh, of Foth & Van Dyke, was contacted in regard to the location of the private well found to contain Benzene. We were informed by Mr. Panosh the well is immediately to the Southwest of LMW 1 at 4211 8th Street. We were also informed by Mr. Panosh that the WDNR conducted the investigation that indicated the presence of 3.5 ppb benzene. Prior to the well closures, the well with the benzene detection needs to be sampled and the groundwater analyzed again for benzene. Based on the test results, well closures may then be addressed.

VIII. REPORT OF FINDINGS:

It is this writers opinion, there are several areas of this site that warrant additional investigations. Implementing a Phase II approach in the contaminated areas near Bobs' Cab company is of significant importance. A Phase II approach is needed to determine the extent of contamination. Also,

because the buildings floor drain empties into the septic system, this area also warrants further investigation.

The area at 920 Kuhn Avenue where the battery caps and parts were noted should have further investigation to determine the acid and lead levels.

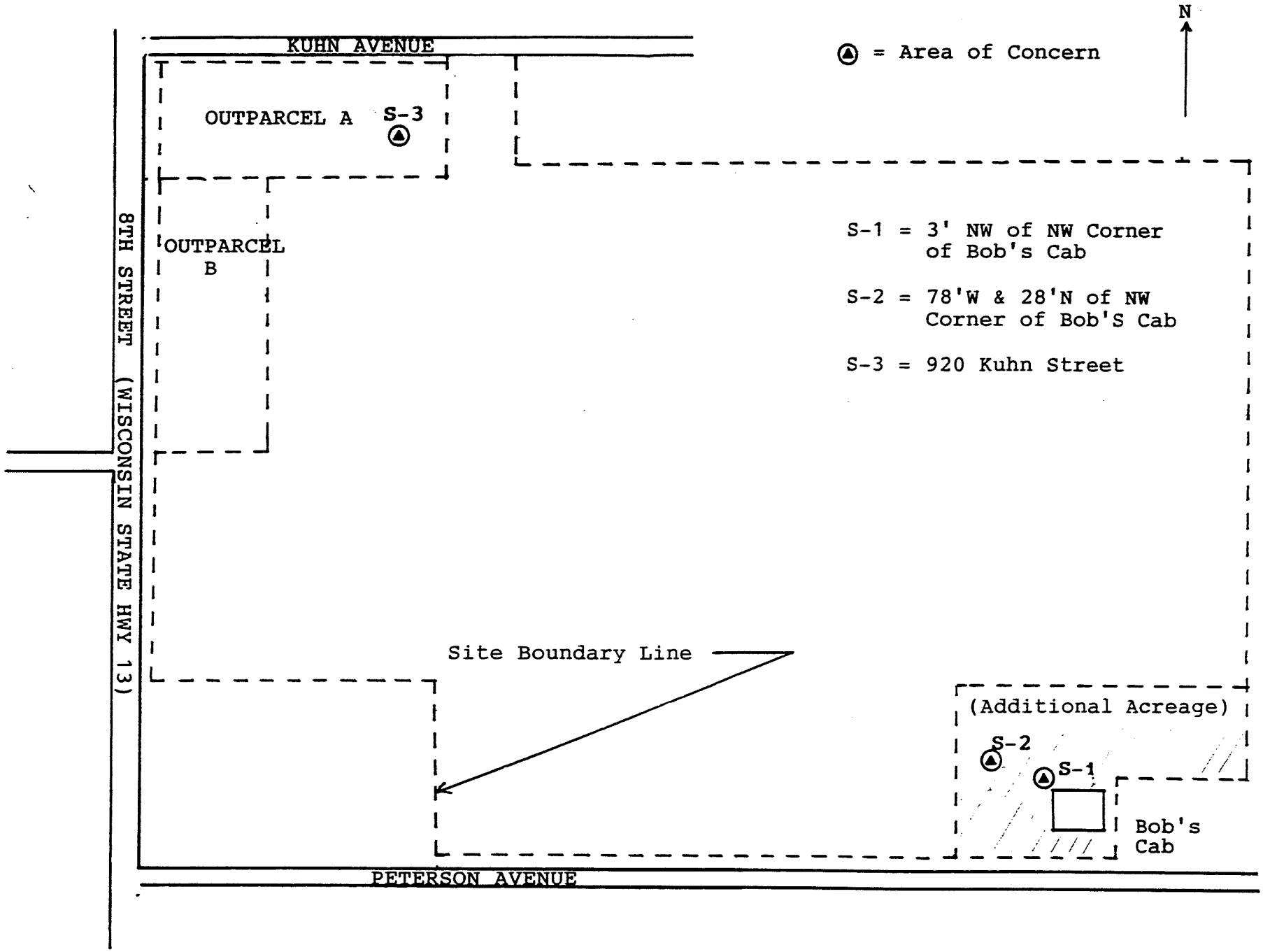
Sampling of the groundwater at the well that had benzene detection in the Phase II conducted in September of 1989 will indicate the current level of benzene.

If you have any questions please feel free to call our office.

NUMMELIN TESTING SERVICES

Clifton E. R. Lawson P.E.

PROPOSED WAL-MART SITE
WISCONSIN RAPIDS, WI
AREAS OF CONCERN



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BRIEF SUMMARY RESUME

CLIFTON E.R. LAWSON, PROFESSIONAL ENGINEER

BIRTHDAY: May 25, 1928

EDUCATION: BCE 1951 (Civil Engineering) and MS 1956 (Soils Engineering) from Cornell University, Ithaca, N.Y. in top quarter of class.

LICENSES, SOCIETIES, ETC.: Registered Professional Engineer, WI, IA, IL, IND, & MA. Member ASCE, WSPE, NSPE, ASTM, ASTM Committees D-18 & D-34. Part Time Instructor in extension and classroom courses at University of Wisconsin (Madison). Contributor to discussions ASTM and ASCE.

EXPERIENCE RECORD

1954-56 & 1956-58 with B.K. Hough, Consulting Engineer, Ithaca, N.Y. as graduate engineer performing soils engineering for airports, public and private buildings and earthen dams.

1956 (5 months) with Louis Berger and Associates, Harrisburg, Pa. as soils engineer in charge of field office for all roadway and bridge soils investigations for 30 miles of Illinois Tollway.

1958-63 with Wisconsin Department of Transportation, Madison, Wisconsin as Senior Soils Engineer, Central Office. In charge of all subsurface investigations and roadway soils studies for new work. Supervised 15 to 25 engineers and technicians. Prepared soils engineering reports. Developed techniques for pile load tests, seismic and resistivity explorations. Wrote much of the Wisconsin Highway Soils Manual. Trained engineers and technicians in testing and engineering procedures. Developed test boring equipment and techniques. Consultant to other State agencies.

1963-82 with Warzyn Engineering Inc., Madison, Wisconsin as Chief Soils Engineer. Also from 1974 to '82 as Chief Materials Engineer. Supervised 10 to 25 engineers, scientists, and technicians. Prepared soils engineering and materials engineering reports for all types of structures and civil engineering works, developed test techniques, trouble-shoot unusual problems with structures and soils, expert witness in these situations as well as gas explosions, construction materials problems (such as fatigue breaks, blasting vibrations, and floor covering failures). Developed and supervised special testing methods for physical and chemical characterization of solid wastes (such as power plant fly ash and scrubber sludge, paper mill sludge, and foundry waste). Supervised geotechnical investigations for industrial machinery and diagnosed sources of machine vibrations, developed foundation solutions. Expert witness for dredge problems. Siting studies of industrial and other facilities.

1982 to Present. Independent Consulting Engineer. Consulting engineering on Soils Engineering and Construction Materials related subjects for Contractors, Engineers, Architects and Owners of Real Estate. Expert Witness on materials and geotechnical problems. Summer School Instructor UW Madison "Advanced Highway Design and Construction". Pavement Analysis for evaluating and most economic upgrading. Contractor advice for poor construction sites. Bridge and building site investigations. Sewer and force main investigations. Construction material failure analyses. Laboratory testing of soils. Soil stability analyses for dikes, slopes, trench walls, and water retaining structures. Drainage studies for wet sites, such as lift stations, athletic fields, tennis courts, etc. Environmentally related engineering projects such as site evaluations for bank financing, underground storage tank site assessments.

BRUCE NUMMELIN BS/SS

OWNER

EXPERTISE: Soil Scientist, Materials Quality Control, Laboratory Analysis

CAREER EXPERIENCE:

Owner of Nummelin Testing Services

Laboratory Supervisor of Gremmer-Bablitch Consulting Engineers, Stevens Point, WI

Laboratory Supervisor of Soils & Engineering Services, Madison, WI

Accomplishments Include:

*Geotechnical investigation for proposed building sites; laboratory analysis of proposed clay borrow sites; laboratory analysis of clay liner at the Winnebago County Landfill; construction materials testing at several Wal-mart stores, Copps stores, Fleet Farm, Saint Michael's Hospital.

*Wide variety of construction materials testing for municipal utilities, waste water treatment facilities, airports, libraries, motels, athletic fields, schools, state facilities, roadways and bridges as well as private home sites.

*Environmental Monitoring- groundwater monitoring for Abbotsford and Medford, Wisconsin as well as Badger Disposal in Rio, Wisconsin.

PROFESSIONAL CREDENTIALS:

*Bachelor of Science, Soil Science, UW Madison

*Environmental Studies Certificate, UW Madison

*ACI Certification - Concrete Testing

*Troxler Certification - Field Density Testing

*Nuclear Regulatory Materials License Holder

*State of Wisconsin Site Assessment Certification

*Department of Transportation - Agg Tech I

PROFESSIONAL AFFILIATIONS:

*American Concrete Institute

*WRMCA

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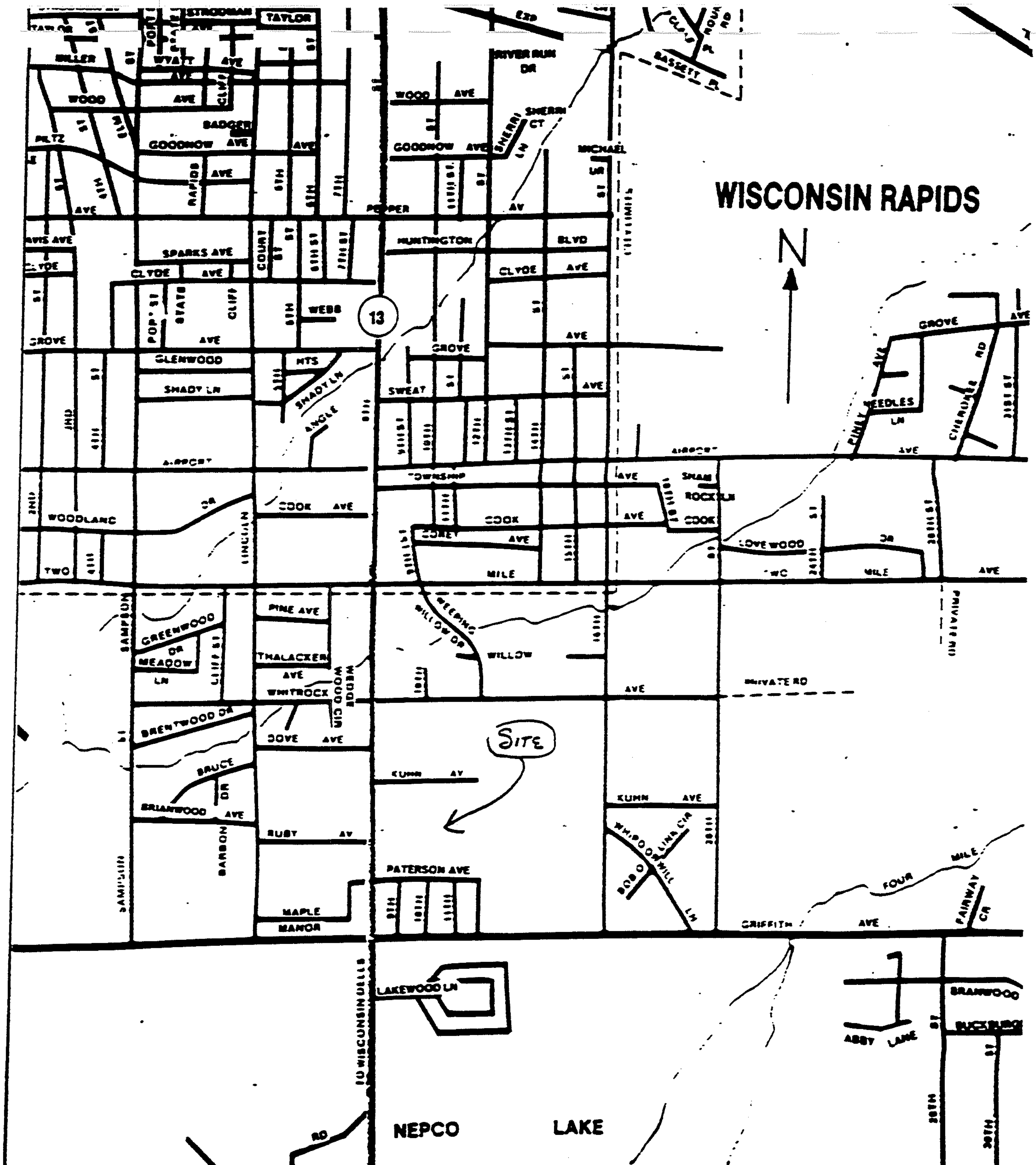
WISCONSIN RAPIDS
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TWO MILE AVE
AIRPORT AVE
GROVE AVE
PEPPER AV
HUNTINGTON BLVD
KUHN AV
PATERSON AVE
LAKEWOOD LN
FOUR MILE
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SAMPSON
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