

August 13, 1998

Project Reference #A4780

Mr. Jesse Rose  
Environmental Services Plus, Ltd.  
W1732 County Road KK  
Kaukauna, Wisconsin 54130

RE: "Site Assessment for Underground Storage Tank Closure"  
Algoma Cleaners  
111 Steele Street  
Algoma, Wisconsin

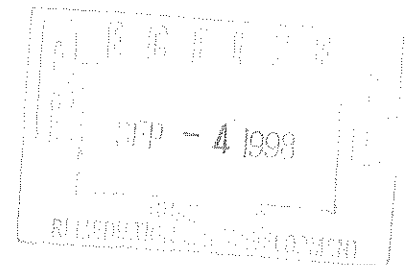
Dear Mr. Rose:

The purpose of this letter report is to provide documentation of the underground storage tank (UST) closure assessment performed at the Algoma Cleaners property located at 111 Steele Street, Algoma, Wisconsin. The site is located in the Northwest ¼ of the Southwest ¼ of Section 26, Township 25 North, Range 25 East in the City of Algoma, Kewaunee County, Wisconsin.

On June 15, 1998, Sigma Environmental Services, Inc. (Sigma) observed the closure in-place of a steel, 6,000 gallon fuel oil Underground Storage Tank (UST) at the Algoma Cleaners property (see attached figure). A copy of the Tank Inventory Form (SBD-7437) is presented as Attachment 1. The UST was apparently in use from 1955 to 1998 for the Algoma Cleaners store and attached apartments. Since the UST was located beneath the building, it was necessary to abandon it in-place. The variance letter for the closure in-place is included in Attachment 1. Upon opening and cleaning the UST system, Sigma performed site assessment soil sampling in a manner consistent with the Department of Commerce (COMM) and the Wisconsin Department of Natural Resources (WDNR) guidelines. The firms and representatives associated with the UST closure are presented below.

**PROJECT TEAM**

Property Representative  
Mr. Harmon Allyn  
111 Steele Street  
Algoma, Wisconsin 54201  
Telephone: (920) 487-5781



86/5179

On-Site COMM Representative

Mr. Karl Beaster  
Independent Inspections Ltd.  
S30 W24670 Sunset Drive  
Waukesha, Wisconsin 53186  
Telephone : (800) 422-5220  
Inspector Certification # 70795

Environmental Consulting Firm:

Sigma Environmental Services, Inc.  
1800 West Rogers Avenue  
Appleton, Wisconsin 54914  
Telephone: (920) 954-1020  
Certified Site Assessor: Bradd L. Seegers (#41876)

Laboratory Services:

En Chem, Inc.  
1241 Bellevue Street, Suite #9  
Green Bay, Wisconsin 54302  
Telephone: (920) 469-2436  
Wisconsin Lab Certification #: 405132750

UST Remover/Closer:

Environmental Services Plus, Ltd.  
W1732 County Road KK  
Kaukauna, Wisconsin 54130  
Telephone: (920) 766-6756  
Certified UST Remover: James McGowan (#41369)

UST Cleaner:

Schroeder Environmental Services, Inc.  
719 Montreal Place  
De Pere, Wisconsin 54115  
Telephone: (920) 339-9970

UST Closure. Due to the UST being located beneath the building, it was necessary to abandon the UST in-place. On June 15, 1998, the UST was uncovered within a garage area and an access point cut into the top of the UST. Prior to cleaning, the UST cavity was vented of explosive vapors with a diffused air blower to less than 10% of the Lower Explosive Limit (LEL). After venting, the UST was cleaned by Schroeder Environmental Cleaning Services. A copy of the Checklist for Underground Tank Closure is attached.

One drum (approximately 55 gallons) of tank sludges were generated during tank cleaning activities. The drum was staged on-site awaiting arrangements for disposal

by Environmental Services Plus. After cleaning, sampling points were drilled through the bottom of the tank to collect the necessary closure samples. Subsequently the UST was filled with concrete slurry to complete the closure-in-place activities.

Field Observations. The fill pipe for the UST was located in the garage area where the UST was accessed. Backfill material around the UST consisted of a silty sand, which was noted to be dry. Also, no water was encountered at the bottom of the UST when the closure samples were collected. The 6,000 gallon tank (7' wide by 21' long) appeared to be in good condition and no petroleum odors or soil staining were noted during closure activities.

Geology and Hydrogeology. The native soil at the site consists of a brown silty sand from ground surface to beneath the UST. The Ahnapee River is located approximately 300 feet to the northeast of the site and Lake Michigan is located approximately 400 feet to the east. As previously mentioned, no water was encountered during sampling activities.

Soil Sampling. Following the cleaning of the UST, holes were drilled through the bottom of the UST to collect soil samples from the base of the tank bed. Soil samples were collected from the beneath both ends of the UST and the middle at a depth of 11 feet below ground surface.

Each soil sample was split and immediately placed in two containers. The first sample portion was 1) weighed to approximately 25 grams, 2) containerized in a pre-labeled 2 ounce (oz) glass jar, and 3) sealed with a teflon-lined screw-on cap for Diesel Range Organics (DRO) analysis. The sample was immediately placed in an ice filled cooler for transport to the laboratory. The second sample jar was filled approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  full, allowed to equilibrate to approximately 70°, and then agitated to break up large clumps to facilitate vapor release. The sample was then screened for Volatile Organic Compounds (VOC) by means of headspace analysis with a Flame Ionization Detector (FID). The FID was calibrated in the field for direct response to a 500 parts per million (ppm) methane standard. The soil sample headspace screening results are summarized in Table 1.

Laboratory Analysis. Based on field observations and FID results, a release from the UST system above WDNR limits was not evident. To confirm the field observations, three samples collected from the base of the UST were submitted for DRO analysis.

Based on laboratory analytical results, DRO was detected at a concentration of 5.9 milligrams per kilogram (mg/kg) in the sample from below the tank middle and at 6.5 mg/kg in the sample from below the north end of the UST. The sample from the south end of the UST did not have a DRO detection above the laboratory detection limit. The WDNR DRO threshold value for reporting a release is 10 mg/kg. The laboratory results are summarized in Table 1. The Chain-of-Custody and laboratory reports are presented as Attachment 2.

TABLE 1 FIELD SCREENING AND SOIL QUALITY RESULTS ALGOMA CLEANERS 111 STEELE STREET ALGOMA, WISCONSIN					
Sample Location	Depth (ft. bgs)	Soil Type	Date	FID Response (i.u.)	DRO Results (mg/kg)
UST South End	11	SM	6-15-98	0.0	<3.7*
UST Middle	11	SM	6-15-98	0.0	5.9
UST North End	11	SM	6-15-98	0.0	6.5
KEY: ft bgs. = feet below ground surface i.u. = instrument units mg/kg = milligrams per kilogram * = No DRO detections above analytical method detection limits SM = Silty sand					

**Conclusions.** Based on the results of the closure assessment performed at the Algoma Cleaners site, the following conclusions can be made:

- o Native soil consisted of brown silty sand from the surface to the base of the UST.
- o Groundwater was not encountered at the base of the UST.

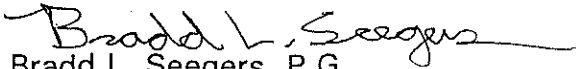
- Based on field observations and FID results, no petroleum impacts were noted at the UST location.
- Confirmation soil samples collected from beneath the UST and submitted for laboratory analysis did not exhibit DRO concentrations above the WDNR 10 mg/kg DRO threshold value.

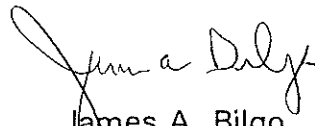
Based on field observations and the results of independent laboratory analysis, a release above WDNR limits has not occurred from the 6,000 gallon UST. Therefore, Sigma recommends no further action in association the 6,000 gallon UST.

Please contact us at (920) 954-1020 if you have any questions regarding the UST closure assessment detailed in this report.

Sincerely,

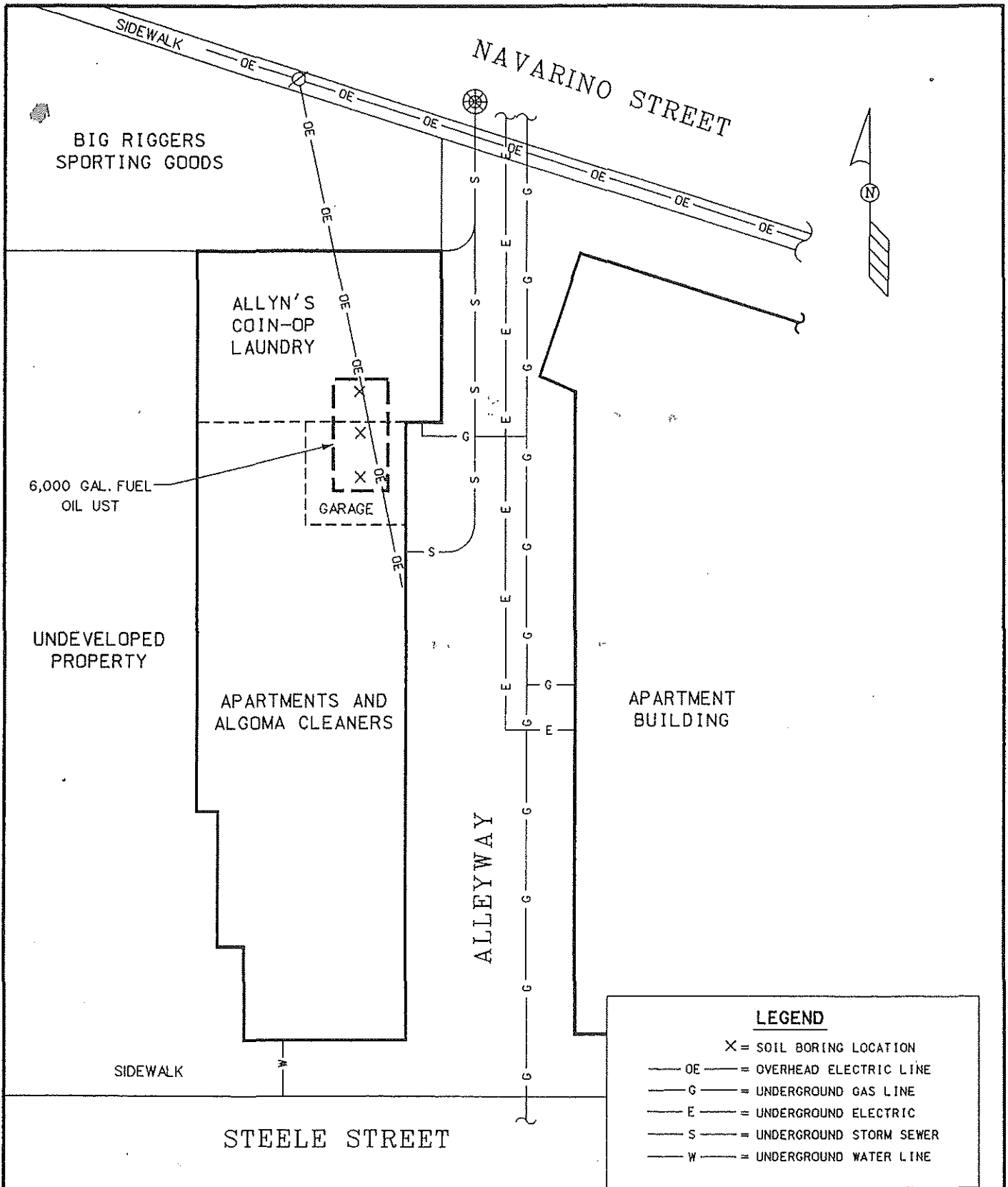
SIGMA ENVIRONMENTAL SERVICES, INC.

  
Bradd L. Seegers, P.G.  
Project Hydrogeologist

  
James A. Bilgo  
Senior Project Engineer

BLS:bs

Attachments



**LEGEND**

- X = SOIL BORING LOCATION
- OE — = OVERHEAD ELECTRIC LINE
- G — = UNDERGROUND GAS LINE
- E — = UNDERGROUND ELECTRIC
- S — = UNDERGROUND STORM SEWER
- W — = UNDERGROUND WATER LINE

<b>ALGOMA CLEANERS</b> 111 STEELE STREET, ALGOMA, WI			
DATE: 6-29-98	DR. BY: TMM	DR.# 4780-002	
<b>SAMPLING LOCATION MAP</b>			<b>FIGURE 1</b>

**ATTACHMENT 1**  
**UST CLOSURE DOCUMENTATION**



# Independent Inspections, Ltd.

Certified Construction Inspectors

530 W24670 Sunset Drive

Waukesha, WI 53186

May 18, 1998

Harmon Allyn  
117 Steele Street  
Algoma, WI 54201

Re: Closure-in-Place for 111 Steele Street, Algoma, WI 54201

Dear Mr. Allyn:

I do agree with you that a closure-in-place may be the most practical method in which to close the 6,000 gallon tank at the above referenced address because of the following cited reason:

"The UST would be difficult to remove due to the location of the tank."

Therefore, I am granting a "conditional" approval; however, the inspector will make the final decision at the time of the closure inspection.

The State certified remover/cleaner will need to mail or FAX (414-544-8291) an ILHR 10 Notification Record showing the date and time for the inspector to be on site to verify and sign the necessary paperwork. If you have any questions, please feel free to call the office at (800)422-5220.

Sincerely,

*Ronald C Habermann*

Ronald C. Habermann, Vice President  
Co-Director Fire and Tank Services  
INDEPENDENT INSPECTIONS, LTD.

c: File

RCH/tls



**ILHR 10 Notification Record**

Personal information you provide may be used for secondary purposes [Privacy Law, s.15.04 (1)(m)].

TO: RON HABERMAN OFFICE LOCATION: INDEPENDENT INSP.

LOCATION / IDENTIFICATION (Please print or type)

Site Name <u>Algoma Cleaners</u>		Owner Name <u>HARMON ALLAN</u>			
Site Street Address <u>111 STEELE STREET</u>		Owner Street or PO Address <u>111 STEELE STREET</u>			
<input type="checkbox"/> City	<input checked="" type="checkbox"/> Village	<input type="checkbox"/> Town of	<input type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of
<u>ALGOMA</u>		<u>ALGOMA</u>			
County <u>KEWAUNEE</u>	Zip Code <u>54201</u>	State <u>WI</u>	Zip Code <u>54201</u>	Telephone <u>(920) 487-5781</u>	
Fire Department providing fire protection coverage: <u>ALGOMA</u>					

Name of Contractor: ENVIRONMENTAL SERVICES Plus, LTD.  
 Address of Contractor: W1732 COUNTY ROAD KK  
 City/Town: KAUKAUNA WI 54130  
 Telephone Number: (920) 766-6756 Fax Number: (920) 766-3788  
 Date work is to begin: JUNE 15 1998  
 ILHR 10 certified project supervisor: JIM MCGOWAN / JESSE ROSE

Project will involve:	No. of tanks		Plan Number	Approval Date
	UST	AST		
Tank Installation	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Piping Installation/Upgrade	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Leak Detection Upgrade	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Spill/Overfill Protection	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Stage II Vapor Recovery	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
Tank Closure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	_____
Cathodic Protection/Lining	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

Remarks: THIS PROJECT WILL INVOLVE THE ABANDONMENT IN PLACE OF

(1) 6000 GALLON F.O UST, AND SHALL BE PERFORMED IN TWO PHASES

State of Wisconsin  
 Safety & Buildings Division  
 Storage Tank, Permit & Registration Section  
 SBD-9198 (R.03/96)

CLEANING AND SAMPLING, FILLING IN PLACE W/SLURRY ONCE ANALYTICAL RESULTS ARE COMPLETED ESTIMATE 11 WEEK OR WEEK OF JUNE 22 PLEASE CALL IF THIS CAUSES ANY

# CHECKLIST FOR UNDERGROUND TANK CLOSURE

**RETURN COMPLETED CHECKLIST TO:**  
Safety & Buildings Division  
Fire Prevention & Underground  
Storage Tank Section  
P. O. Box 7969, Madison, WI 53707

**Complete one form for  
each site closure.**

The information you provide may be used by other  
government agency programs [Privacy Law, s. 15.04 (1) (m)].

**A. IDENTIFICATION: (Please Print)** Indicate whether closure is for:  Tank System  Tank Only  Piping Only

1. Site Name <i>ALGOMA CLEANERS</i>		2. Owner Name <i>HARMON ALLYN</i>	
Site Street Address (not P.O. Box) <i>111 STEELE STREET</i>		Owner Street Address <i>117 STEELE STREET</i>	
<input checked="" type="checkbox"/> City <i>ALGOMA</i>	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	State <i>WI</i>
Zip Code <i>54201</i>	County <i>KEAUHAU</i>	Telephone No. (include area code) <i>(920) 487-5791</i>	Zip Code <i>54201</i>
3. Closure Company Name (Print) <i>ENVIRONMENTAL SERVICES PLUS LTD.</i>		Closure Company Street Address <i>W 1732 COUNTY ROAD KK</i>	
Closure Company Telephone No. (include area code) <i>(920) 766-6756</i>		Closure Company City, State, Zip Code <i>KAUKAUNA WI 54130</i>	
4. Name of Company Performing Closure Assessment <i>Sigma Environmental Services</i>		Assessment Company Street Address, City, State, Zip Code <i>1700 W. ROBERTS AVE. SUITE 100 W 54914</i>	
Telephone # (include area code) <i>(920) 541-1000</i>	Certified Assessor Name (Print) <i>BRAD SERRANO</i>	Assessor Signature <i>BRAD SERRANO</i>	Assessor Certification No. <i>41476</i>

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. <i>312120017</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6000</i>	<i>OL</i>	<input type="checkbox"/> Y <input type="checkbox"/> N
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

\* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s)); 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date.  Y  N  NA  
All local permits were obtained before beginning closure.  Y  N  NA

**Check applicable box at right in response to all statements in Sections B - E.**

**B. TEMPORARILY OUT OF SERVICE**

Written inspector approval of temporary closure obtained, which is effective until (provide date) \_\_\_\_\_  Y  N  NA

1. Product Removed	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. All product removed to bottom of suction line OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Fill pipe, gauge pipe, tank-truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**C. CLOSURE BY REMOVAL**

1. Product from piping drained into tank (or other container).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Piping disconnected from tank and removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.</b>			
6. Vent lines left connected until tanks purged.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Tank cleaned before being removed from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**C. CLOSURE BY REMOVAL (continued)**

	Remover Verified	Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.</b>			
12. Tank vent hole (1/8 lh " in uppermost part of tank) installed prior to moving the tank from site. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Site security is provided while the excavation is open. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**D. CLOSURE IN PLACE**

**NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.**

1. Product from piping drained into tank (or other container).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.</b>			
6. Vent lines left connected until tanks purged. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range. (LEL) - see Section F. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Tank properly cleaned to remove all sludge and residue. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Vent line disconnected or removed. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**E. CLOSURE ASSESSMENTS**

**NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.**

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Do points of obvious contamination exist? ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are there strong odors in the soils? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Was a field screening instrument used to pre-screen soil sample locations? ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Was a closure assessment omitted because of obvious contamination? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Was the DNR notified of suspected or obvious contamination? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Agency, office and person contacted: _____			
7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen On Groundwater <input type="checkbox"/> Field Instrument Test			

**F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION**

Educator Or Diffused Air Blower  
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.  
Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

Dry Ice  
Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

Inert Gas (CO<sub>2</sub> or N<sub>2</sub>) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**  
Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.  
Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

Tank atmosphere monitored for flammable or combustible vapor levels.  
Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

**G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW**

**H. REMOVER/CLEANER INFORMATION**

JAMES MCGOWAN      James McGowan      41369      6-15-98  
Remover Name (print)      Remover Signature      Remover Certification No.      Date Signed

**I. INSPECTOR INFORMATION**

DEAN E. DEWSTER      Dean Dewster      75795  
Inspector Name (print)      Inspector Signature      Inspector Certification No.

3111      1-5-22-5222      6-15-98  
FDID # For Location Where Inspection Performed      Inspector Telephone Number      Date Signed

OWNER

# SECSI

Schroeder Environmental Cleaning Services, Inc.

June 24, 1998

Environmental Services Plus  
W1732 County Road KK  
Kaukauna, WI 54130  
Attn: Jesse Rose

RE: SECSI Invoice #98222

Dear Jesse:

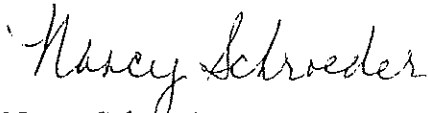
On June 15, 1998, Schroeder Environmental Cleaning Services, Inc. cleaned and rendered "VAPOR-FREE" one (1) 6,000 gallon fuel oil underground storage tank located at Algoma Cleaners, 111 State Street, Algoma, WI.

The tank was cleaned and tested "vapor-free" thereby rendering it useless for all but scrap. I understand that you handled tank disposal.

One drum of waste was removed from the tank. The generator indicated that he would be taking care of waste disposal.

Thank you for the opportunity to be of service. We look forward to working with you again.

Sincerely,



Nancy Schroeder  
Business Manager

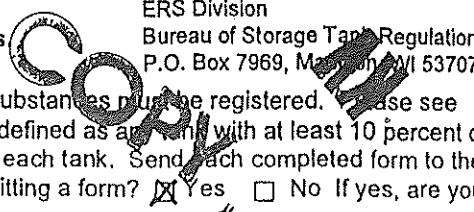
Enclosure

# UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:  
Department of Commerce  
ERS Division  
Bureau of Storage Tank Regulation  
P.O. Box 7969, Madison, WI 53707

WI Tank ID#: 310100057

Information Required By Section 101.142, Wis. Stats



Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. Please see the reverse side for additional information on this program. An underground storage tank is defined as a tank with at least 10 percent of its total volume (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner. Have you previously registered this tank by submitting a form?  Yes  No If yes, are you correcting/updating information only?  Yes  No

Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)]

This registration applies to a tank that is (check one):			Fire Department providing fire coverage where tank is located:
1A. <input type="checkbox"/> In Use or	4. <input type="checkbox"/> Closed - Tank Removed	8. <input type="checkbox"/> Ownership Change (Indicate new owner name in block 2)	<input checked="" type="checkbox"/> City <input type="checkbox"/> Village
1B. <input type="checkbox"/> Newly Installed	6. <input checked="" type="checkbox"/> Closed - Filled with Inert Materials		<input type="checkbox"/> Town of <u>Algoma</u>
2. <input type="checkbox"/> Abandoned with Product	7. <input type="checkbox"/> Out of Service - Provide Date: _____		
3. <input type="checkbox"/> Abandoned No Product (empty) or with Water			

**A. IDENTIFICATION (Please Print)**

1. Tank Site Name <u>Algoma Cleaners</u>	Site Address <u>111 Steele Street</u>	Site Telephone Number ( ) _____
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>Algoma</u>	State <u>WI</u>	Zip Code <u>54201</u>
2. Tank/Owner Name <u>Harmon Allen</u>	Mailing Address <u>117 STEELE STREET</u>	Telephone Number <u>920-487-5781</u>
<input checked="" type="checkbox"/> City <input type="checkbox"/> Village <input type="checkbox"/> Town of: <u>Algoma</u>	State <u>WI</u>	Zip Code <u>54201</u>
3. Previous Name	Previous site address if different than #1	
4. Tank Age (date installed, if known or years old) <u>1955</u>	5. Tank Capacity (gallons) <u>6000</u>	6. If more than one tank is located at facility, please provide tank #

**B. TYPE OF USER (check one)**

1. <input type="checkbox"/> Gas/Retail Sales	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input checked="" type="checkbox"/> Mercantile/Commercial	5. <input type="checkbox"/> Industrial
6. <input type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential	9. <input type="checkbox"/> Agricultural	10. <input type="checkbox"/> Other (specify):
11. <input type="checkbox"/> Tribal Nation	12. <input type="checkbox"/> Federal Property	13. <input type="checkbox"/> Backup Generator		

**C. TANK CONSTRUCTION (check one)**

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected & Coated Steel (Check one: A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)
3. <input type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass
6. <input type="checkbox"/> Lined - Date: _____	7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite
	9. <input type="checkbox"/> Unknown

Approval: 1. <input type="checkbox"/> Nat'l Std.	2. <input type="checkbox"/> UL	3. <input type="checkbox"/> Other:	Is tank double walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Overfill Protection Provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, identify type:		Spill Containment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Tank leak detection method:	1. <input type="checkbox"/> Automatic tank gauging	2. <input type="checkbox"/> Vapor monitoring	3. <input type="checkbox"/> Groundwater monitoring
	4. <input checked="" type="checkbox"/> Inventory control and tightness testing	5. <input type="checkbox"/> Interstitial monitoring	
	7. <input type="checkbox"/> Manual tank gauging (only for tanks of 1,000 gallons or less)	8. <input type="checkbox"/> Statistical Inventory Reconciliation (SIR)	

**D. PIPING CONSTRUCTION**

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected & Coated Steel (Check one: A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)
3. <input type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass
	5. <input type="checkbox"/> Other (Specify):
	9. <input type="checkbox"/> Unknown

Vapor Recovery/Stage III NA

4. <input type="checkbox"/> Fiberglass	6. <input type="checkbox"/> Flexible	5. <input type="checkbox"/> Other (specify):	<input type="checkbox"/> CARB #: _____
			<input type="checkbox"/> Operational - Provide Date (mo/day/yr):
Piping System Type:	1. <input type="checkbox"/> Pressurized piping with A. <input type="checkbox"/> auto shutoff; B. <input type="checkbox"/> alarm or C. <input type="checkbox"/> flow restrictor		
	2. <input type="checkbox"/> Suction piping with check valve at tank	3. <input checked="" type="checkbox"/> Suction piping with check valve at pump and inspectable	4. <input type="checkbox"/> Not needed if waste oil
Piping leak detection method: used if pressurized or check valve at tank:	1. <input type="checkbox"/> Vapor monitoring	2. <input type="checkbox"/> Interstitial monitoring	
	3. <input type="checkbox"/> Groundwater monitoring	4. <input type="checkbox"/> Tightness testing	5. <input type="checkbox"/> Line leak detector
		6. <input checked="" type="checkbox"/> Not required	8. <input type="checkbox"/> SIR
Approval: 1. <input type="checkbox"/> Nat'l Std.	2. <input type="checkbox"/> UL	3. <input type="checkbox"/> Other:	Is pipe double walled? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

**E. TANK CONTENTS**

1. <input type="checkbox"/> Diesel	2. <input type="checkbox"/> Leaded	3. <input type="checkbox"/> Unleaded	4. <input checked="" type="checkbox"/> Fuel Oil	5. <input type="checkbox"/> Gasohol
6. <input type="checkbox"/> Other (Specify): _____	7. <input type="checkbox"/> Empty*	8. <input type="checkbox"/> Sand/Gravel/Slurry*	9. <input type="checkbox"/> Unknown*	10. <input type="checkbox"/> Premix
11. <input type="checkbox"/> Waste/Used Motor Oil	13. <input type="checkbox"/> Chemical _____	14. <input type="checkbox"/> Kerosene	15. <input type="checkbox"/> Aviation	

(Indicate chemical name and number)

\* If 7, 8, 9, or 13 is chosen, this tank is NOT PECFA eligible.

If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr):	Has a site assessment been completed (see reverse side for details) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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Owner or Operator Name (please print): <u>Harmon Allen</u>	Indicate whether: <input checked="" type="checkbox"/> Owner or <input type="checkbox"/> Operator
Owner or Operator Signature: <u>Harmon Allen</u>	Date Signed <u>6/15/98</u>

**IMPORTANT:** Failure to provide sufficient information may cause you to fall under additional regulations, and may delay PECFA eligibility determination. It is necessary to complete ALL shaded areas and as many other items as possible.

**ATTACHMENT 2**  
**CHAIN-OF-CUSTODY & LABORATORY RESULTS**

NJN

Company Name: Sigma Env.  
 Branch or Location: 1800 W. Rogers  
 Project Contact: Brad Seeger  
 Telephone: 920-954-1000  
 Project Number: A4780  
 Project Name: Algonquin Cleaners  
 Project Location: Algonquin, WI  
 Sampled By (Print): Brad Seeger  
 Regulatory Program (circle): UST RCRA CLR SDWA  
 NPDES/WPDES CAA NR  
 Other \_\_\_\_\_  
 NR720 Confirmation Analysis Required? (circle): Y N  
 (En Chem will not confirm unless otherwise instructed.)



1241 Bellevue St., Suite 9  
 Green Bay, WI 54302  
 920-469-2436 • 1-800-736-2436  
 FAX 920-469-8827

525 Science Drive  
 Madison, WI 53711  
 608-232-3300 • 1-888-536-2436  
 FAX: 608-233-0502

1423 N. 8th Street, Suite 122  
 Superior, WI 54880  
 715-392-5844 • 1-800-837-8238  
 FAX 715-392-5843

# CHAIN OF CUSTODY

23895

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P.O. # \_\_\_\_\_ Quote # \_\_\_\_\_

Mail Report To: Brad Seeger

Company: Sigma Env.

Address: 1800 W Rogers

Appleton, WI 54914

Invoice To: Sigma

Company: Sigma

Address: \_\_\_\_\_

Mail Invoice To: \_\_\_\_\_

Filtered? (YES/NO) \_\_\_\_\_  
 Preservation (Code)\* AN  
*due 6/15/94*  
 ANALYSES REQUESTED  
DR  
3-day turn  
around time

FIELD ID	SAMPLE DESCRIPTION	COLLECTION		FIELD SCREEN	MATRIX	GOOD COND.	TOTAL BOTTLES	COMMENTS	LABORATORY NUMBER
		DATE	TIME						
1	Tank 1 / South End	6/15/94	1:00p	X		X	1-304 1-202		001
2	Tank 1 / Middle	6/15/94	1:15p	X		↓	↓		002
3	Tank 1 / North End	6/15/94	1:30p	X		↓	↓		003

**\*Preservation Code**  
 A=None B=HCL C=H2SO4  
 D=HN03 E=EnCore F=Methanol\*\*  
 G=NaOH O=Other (Indicate)

**\*\*If not using En Chem's methanol, indicate volume of methanol added and mark the appropriate samples.**

Relinquished By: <u>Brad Seeger</u>	Date/Time: <u>6/15/94 3:10p</u>	Received By: <u>John M. Thompson</u>	Date/Time: <u>6/15/94 3:10p</u>	En Chem Project No. <u>883506</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt Temp. <u>ROI</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____	Sample Receipt pH (Wet/Metals)
Relinquished By: _____	Date/Time: _____	Received By (En Chem): _____	Date/Time: _____	



1795 Industrial Drive  
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920-469-2436  
800-7-ENCHEM  
FAX: 920-469-8827

- Analytical Report -

Project Name : ALGOMA CLEANERS

Project Number : A4780

WI DNR LAB ID : 405132750

Client: SIGMA ENVIRONMENTAL

Report Date : 6/18/98

Sample No.	Field ID	Collection Date	Sample No.	Field ID	Collection Date
883506-001	TANK1/SOUTH END	6/15/98			
883506-002	TANK1/MIDDLE	6/15/98			
883506-003	TANK1/NORTH END	6/15/98			

The "Q" flag is present when a parameter has been detected below the LOQ. This indicates the results are qualified due to the uncertainty of the parameter concentration between the LOD and the LOQ.

Soil VOC detects are corrected for the total solids, unless otherwise noted.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this final report is authorized by Laboratory management, as is verified by the following signature.

J. Duranseau  
Approval Signature

6/18/98  
Date





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## - Analytical Report -

Project Name : ALGOMA CLEANERS  
Project Number : A4780  
Field ID : TANK1/SOUTH END  
Lab Sample Number : 883506-001  
WI DNR LAB ID : 405132750

Client : SIGMA ENVIRONMENTAL  
Report Date : 6/17/98  
Collection Date : 6/15/98  
Matrix Type : SOIL

### Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	97.2				%		6/16/98	SM2540G	SM2540G	DJB

### Organic Results

Preservation Date : 6/16/98

#### DIESEL RANGE ORGANICS - SOIL

Prep Method: WI MOD DRO Prep Date: 6/16/98 Analyst: DJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	< 3.7			3.7	mg/kg		6/16/98	WI MOD DRO
Blank spike	75			50	%Recov		6/16/98	WI MOD DRO
Blank spike duplicate	73			50	%Recov		6/16/98	WI MOD DRO
Blank	< 5.0			5.0	mg/kg		6/16/98	WI MOD DRO

All soil results are reported on a dry weight basis unless otherwise noted.



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## - Analytical Report -

Project Name : ALGOMA CLEANERS  
Project Number : A4780  
Field ID : TANK1/MIDDLE  
Lab Sample Number : 883506-002  
WI DNR LAB ID : 405132750

Client : SIGMA ENVIRONMENTAL  
Report Date : 6/17/98  
Collection Date : 6/15/98  
Matrix Type : SOIL

### Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	97.3				%		6/16/98	SM2540G	SM2540G	DJB

### Organic Results

Preservation Date : 6/16/98

#### DIESEL RANGE ORGANICS - SOIL

Prep Method: Wi MOD DRO Prep Date: 6/16/98 Analyst: DJB

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method
DIESEL RANGE ORGANICS	5.9			3.7	mg/kg		6/16/98	Wi MOD DRO
Blank spike	75			50	%Recov		6/16/98	Wi MOD DRO
Blank spike duplicate	73			50	%Recov		6/16/98	Wi MOD DRO
Blank	< 5.0			5.0	mg/kg		6/16/98	Wi MOD DRO

All soil results are reported on a dry weight basis unless otherwise noted.



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## - Analytical Report -

Project Name : ALGOMA CLEANERS

Project Number : A4780

Field ID : TANK1/NORTH END

Lab Sample Number : 883506-003

WI DNR LAB ID : 405132750

Client : SIGMA ENVIRONMENTAL

Report Date : 6/17/98

Collection Date : 6/15/98

Matrix Type : SOIL

### Inorganic Results

Test	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Prep Method	Analysis Method	Analyst
Solids, percent	97.6				%		6/16/98	SM2540G	SM2540G	DJB

### Organic Results

Analyte	Result	LOD	LOQ	EQL	Units	Code	Analysis Date	Analysis Method	
							Preservation Date :	6/16/98	
DIESEL RANGE ORGANICS - SOIL							Prep Method: WI MOD DRO	Prep Date: 6/16/98	Analyst: DJB
DIESEL RANGE ORGANICS	6.5			3.6	mg/kg		6/16/98	WI MOD DRO	
Blank spike	75			50	%Recov		6/16/98	WI MOD DRO	
Blank spike duplicate	73			50	%Recov		6/16/98	WI MOD DRO	
Blank	< 5.0			5.0	mg/kg		6/16/98	WI MOD DRO	

All soil results are reported on a dry weight basis unless otherwise noted.