State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary

101 S. Webster St.
Box 7921
Madison, Wisconsin 53707-7921
Telephone 608-266-2621
FAX 608-267-3579
TTY Access via relay - 711

March 29, 2007

FILE REF: SAG-505
02-37-000294
03-37-000697

City of Wausau CDA
Kelly Zagrzebski, Chairperson
407 Grant St
Wausau, WI 54403

Subject: Brownfield Site Assessment Grant Agreement for SAG-505 - Former Dry Cleaner Facility

Dear Ms. Zagrzebski:

The Department of Natural Resources (DNR) has received both copies of the signed grant agreement that you sent in for Round 8 of the Brownfield Site Assessment Grant (SAG). Enclosed is your copy of the grant agreement that has been signed by the DNR. Please keep this copy of the agreement for your records.

Please note that the grant award time period is one year from the date the DNR signed this agreement. **Your grant period is March 29, 2007 until March 29, 2008.** All grant activities must occur within this time period to be eligible for reimbursement or to be included as match, unless an extension of the grant period is requested and approved.

If you have any questions about your grant site please contact the DNR staff person assigned to your site: Lisa Gutknecht at (715) 359-6514 or Lisa.Gutknecht@Wisconsin.Gov.

Please contact Shelley Fox at (608) 266-5798 or Shelley.Fox@Wisconsin.Gov if you have questions about the grant requirements or procedures.

Additional information about the SAG, including reimbursement procedures and forms, can be found on the DNR Remediation and Redevelopment program's web site at:

dnr.wi.gov/org/aw/rr/rbrownfields/sag.htm

We look forward to working with your community on this project.

Sincerely,

Shelley Fox for

Michael Prager
Land Recycling Team Leader
Bureau for Remediation and Redevelopment

Enclosure

cc: Lisa Gutknecht - WCR
Loren Brumberg - WCR

CWEA CENTRAL WISCONSIN ENGINEERS ARCHITECTS

Engineers · Architects · Scientists · Surveyors

5707 Schofield Avenue
P.O. Box 107
Weston, WI 54476-0107
www.cwengineers.com

Tel 715.359.9400
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general@cwengineers.com

August 9, 2006

RECEIVED
AUG 16 2006
WAUSAU DNR

Ms. Lisa Gutknecht, Hydrogeologist
Remediation and Redevelopment
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, WI 54401

Re: **Former Sophie Marschall Property (Kraft Cleaners)**
303-305 South 2nd Avenue, Wausau, Wisconsin
CWEA Project # 1045-0600
WDNR Site # 02-37-000294 and # 03-37-000697

Subject: **Scope of Work for Additional Site Investigation**

Dear Ms. Gutknecht:

On behalf of the City of Wausau, Central Wisconsin Engineers & Architects, Inc. (CWEA) is submitting this Scope of Work with regard to the Former Sophie Marshall Property (aka Kraft Dry Cleaners), in Wausau (see Figures 1 and 2 for site location). As you may recall, the initial site investigation for this project began in 1994 following the removal of underground storage tanks. The laboratory results confirmed that a release of tetrachloroethene (PCE) had occurred. A request for site closure was submitted, but the request was denied. The purpose of this correspondence is to (1) provide a brief summary of the project, (2) discuss the data gathered to date, (3) evaluate the significance of the current data, and (3) describe a proposed scope of work to achieve site closure.

Background

In June 1992, CWEA supervised the removal of eight (8) underground storage tanks and associated piping at the property. Soil samples collected from beneath the tanks and piping were field-screened and selected samples were submitted for laboratory analysis for gasoline-range organics (GRO) and diesel-range organics (DRO). Figure 3 provides the site layout and sample locations for the tank removal. The results indicated a detection of GRO at 20 parts per million (ppm) and DRO at 35 ppm.

In September 1992, CWEA supervised the removal of soils from two areas on site (identified as the *North Trench* and *South Pit*). The excavation was limited by the presence of a concrete slab and footings for a former building (see Figure 4). The excavated soils were contained within twelve 55-gallon drums on site, and subsequently disposed at Tork Landfill. Soil samples were collected, field-screened and submitted to a laboratory for analysis of GRO, DRO, and petroleum volatile organic compounds (PVOC). The laboratory results indicated that contaminants were present in each of the five samples, including PCE.

In the past, the compound PCE was commonly used in the dry-cleaning business, for degreasing metals, and for use as a solvent. Historical findings indicate that a dry cleaning business had operated at the property, but had ceased operations in the late 1960's or early 1970's.

Following a request from Mr. Richard Brown, WDNR Hazardous Waste Specialist, an attempt was made to install groundwater monitoring wells in 1994 and 1995 (at the locations indicated on Figure 5). With prior approval from the Department, the soil borings were abandoned at refusal (about 23 feet) because groundwater was not encountered. Two soil samples were collected from each of the borings (identified as TB or MW-1 in 1994 and TB-1 through TB-3 in 1995) and submitted for GRO, DRO, and volatile organic compound (VOC) analyses. The results confirmed the presence of TCE in several of the samples ranging from No Detect in MW-1 to 72,100 parts per billion (ppb) in TB-2. The highest concentrations were found at the shallower depths (less than 5 feet below grade).

In April 1995, CWEA, on behalf of Mrs. Marschall, submitted a request for site closure to the WDNR; but the request was denied. In October 1998, four Geoprobe borings were installed to depths of 15-17.5 feet below grade (refusal) at the locations indicated on Figure 6. Two soil samples were collected from each boring and submitted for VOC analysis. The results confirmed the presence of PCE in three of the four samples (38 to 45,000 ppb). In April 1999, CWEA again requested that the site be closed and again the request was denied.

Existing Data

Soil samples collected during the removal of the underground storage tank system indicate that low levels of petroleum contaminants had impacted the soils at this site. Excavation of the contaminated soils resulted in removal of much of the petroleum-related contaminants that were accessible.

However, data from the subsequent test borings indicate that a non-petroleum-related compound (PCE) was present in the soil at concentrations of up to 72,100 parts per billion. There are currently no numeric soil cleanup levels for PCE within ch. NR 720 *Soil Cleanup Standards*. However, site-specific levels may be determined by evaluating the exposure or migration pathway of the contaminant, including potential soil pathways such as groundwater, direct contact, pathway to surface waters, pathway to sensitive environments, and plant uptake and food chain.

Bedrock was encountered from 17 to 23 feet below grade; groundwater was not encountered in any of the borings. As such, there is no data available to determine if the groundwater at or near this site has been impacted by VOCs.

Evaluation and Significance of Current Data

The existing data confirms the presence of volatile organic compounds in the soil. Of greatest concern is the presence of PCE. The compound does not appear to be significantly mobile, based on the data for the deeper depths. There is no groundwater quality data available for this site. Closure of this site has been denied due primarily to the absence of groundwater data. Therefore, additional investigations are needed to further define the extent and degree of soil and groundwater contamination.

Proposed Scope of Work Through Site Closure

CWEA proposes to install three groundwater monitoring wells near the Former Marschall site to approximately 40 feet each below grade surface (see Figure 7 for proposed well locations). Based on regional groundwater contour maps (Figure 8), the depth to groundwater is estimated at less than 40 feet, and flows south/southeast toward the Wisconsin River. Soil samples will be collected

continuously from the unconsolidated materials from each of the borings, field-screened, and selected samples will be submitted to a laboratory for analysis of VOCs. Bedrock drilling techniques will be utilized to install the monitoring wells into the bedrock. All drilling and well installation procedures will be done in accordance with ch. NR 141 Wis. Adm. Code. All drill cuttings will be contained in Wis-DOT approved drums, properly labeled, and stored on site, pending proper disposal. Each of the wells will be developed and sampled twice (at least 30 days apart) and analyzed for VOCs. All development water will be contained pending proper disposal.

Following receipt of the second round of groundwater data, a brief report will be submitted to the WDNR. The report will include a description of the investigation techniques and procedures, a summary of the field and laboratory data, soil boring and well documentation, laboratory reports, and recommendations for further action. If the data indicates that the site is eligible for closure, a completed WDNR closure request will be submitted to the Department for review.

Comments

The parcel of property under investigation (303-305 South 2nd Avenue) is quite small. Likewise, adjacent buildings, buried utilities, hedges, and a myriad of overhead utilities will likely require the installation of borings/monitoring wells off site. The attached site layout maps and photographs depict the proposed boring/well locations. Actual locations will depend upon approval from off-site property owners, and field conditions.

We have tentatively scheduled the well installation for late August or early September. If you have suggestions, questions, or comments regarding the proposed scope of work, please contact Peter Arntsen, Project Manager, or me within the next few weeks at (715) 359-9400 or via e-mail at parntsen@cwengineers.com or czelenka@cwengineers.com.

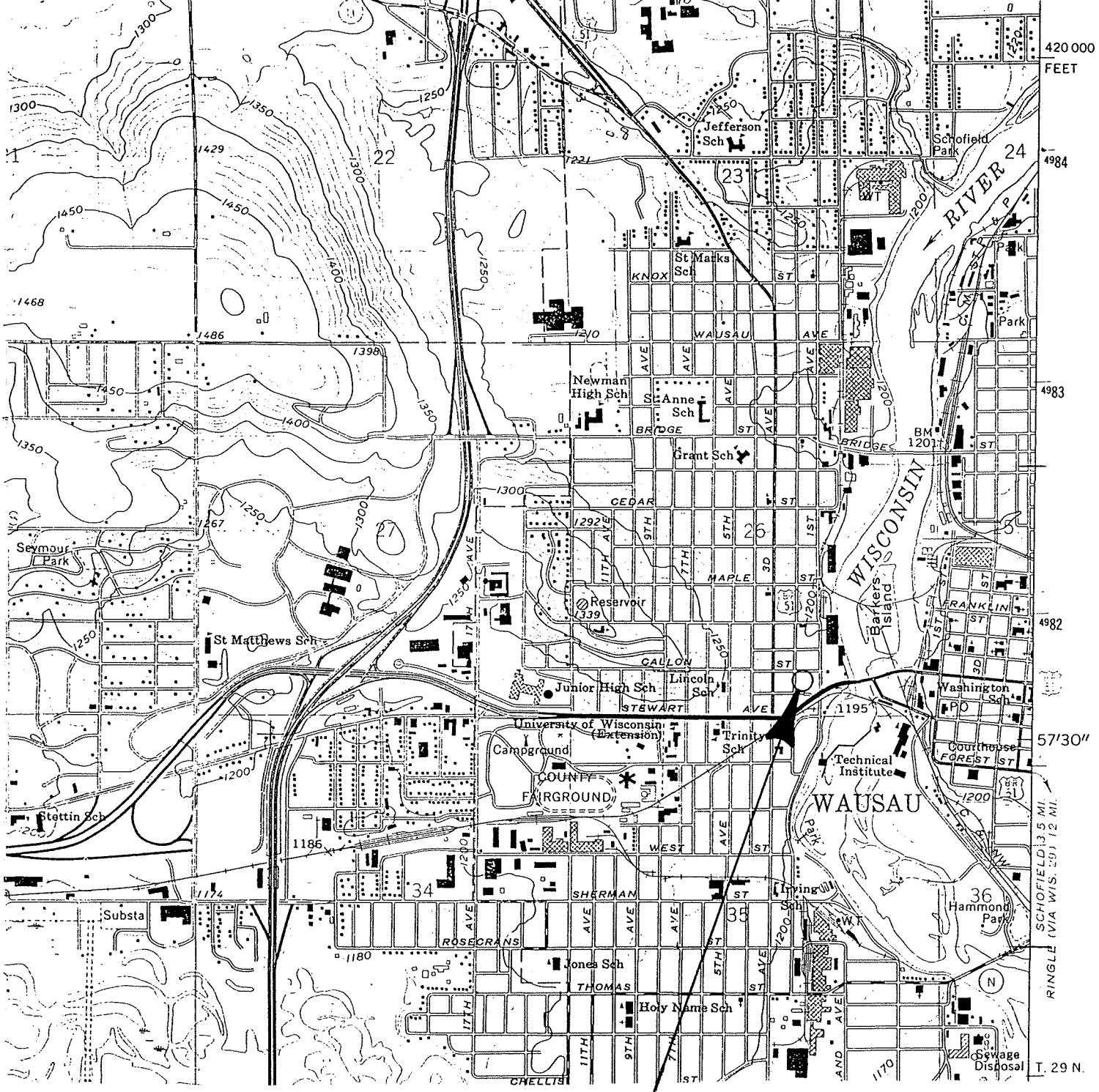
Sincerely,
Central Wisconsin Engineers & Architects, Inc.

Cindy L. Zelenka

Cindy L. Zelenka
Environmental Specialist

Enclosures: Site Location Maps
Site Layout Maps
Site Photographs

cc: Mr. David Erickson, Environmental Engineer, Wausau Water Works, City of Wausau, 407 Grant Street, Wausau, WI 54403-4783



SITE LOCATION

N

WAUSAU WEST, WIS.
NW/4 WAUSAU 15' QUADRANGLE
N4452.5—W8937.5/7.5

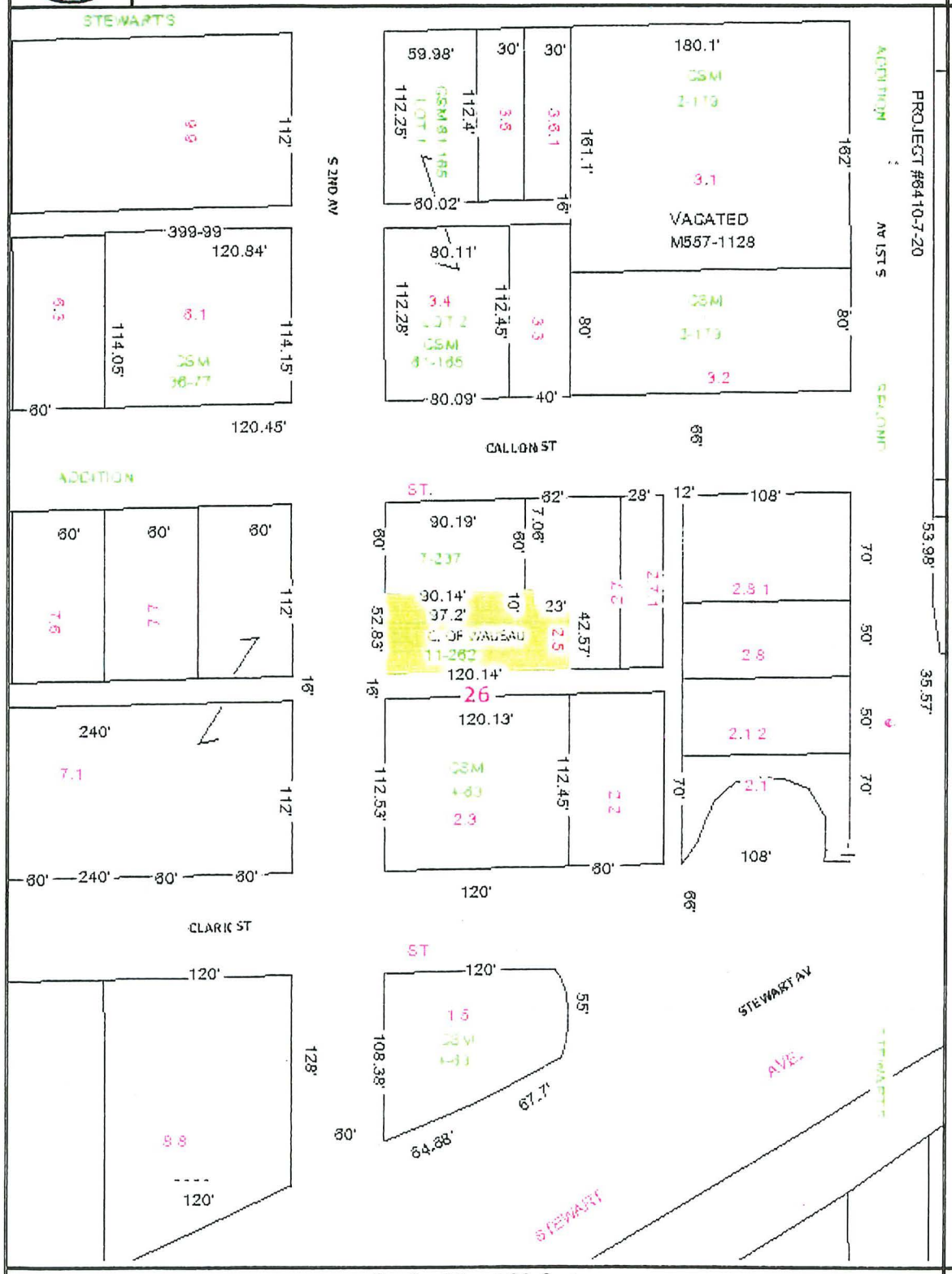
1963
PHOTOREVISED 1978
AMS 3073 I NW—SERIES V861

FIGURE 1
SITE LOCATION

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200
MARSCHALL PROPERTY

Marathon County-City of Wausau IMS



Scale: 1" = 100 feet

8/2/2006 2:14:40 PM.

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Figure 2

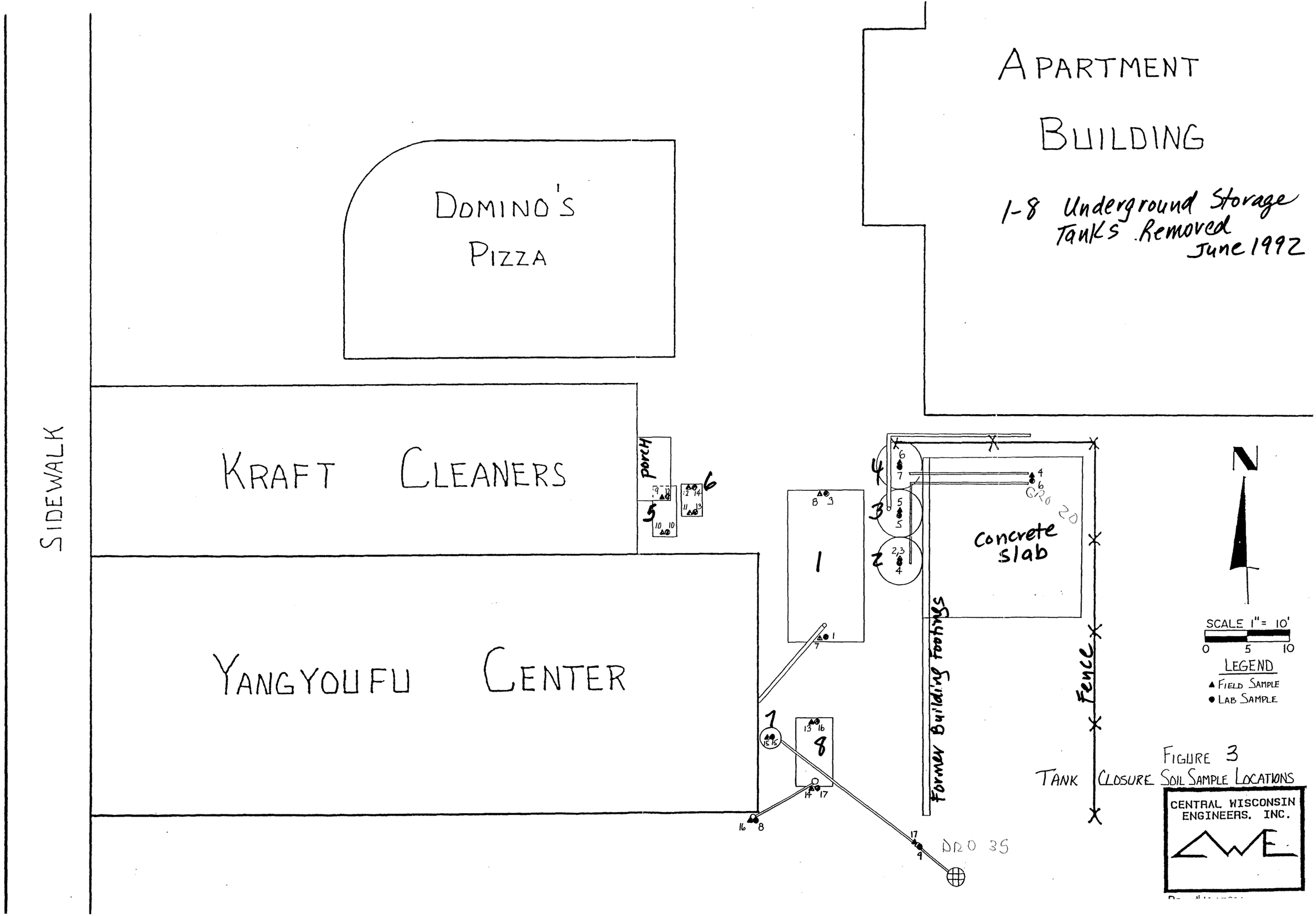
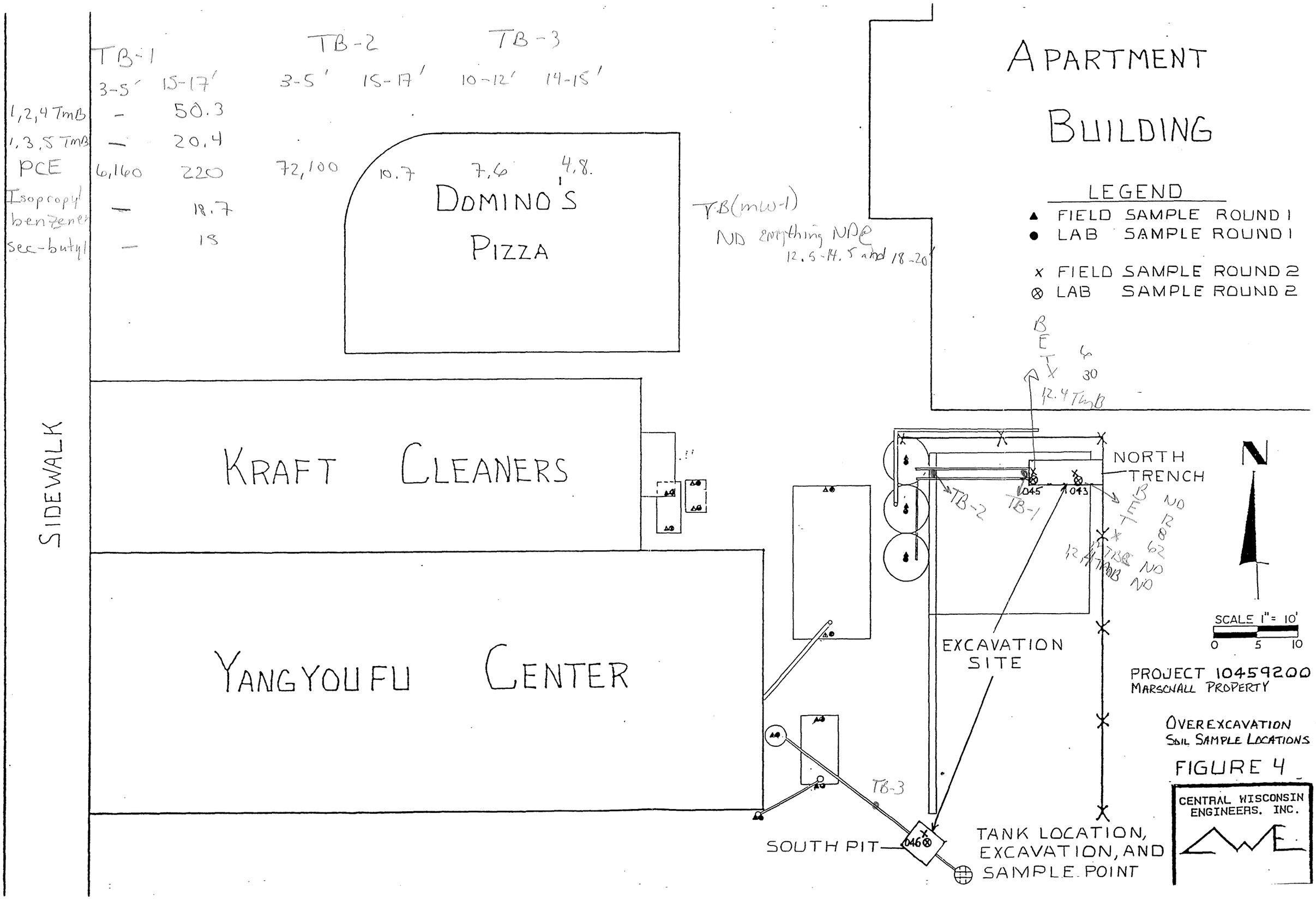


FIGURE 3
TANK CLOSURE SOIL SAMPLE LOCATIONS


TB-1
TB-2
TB-3
3-5'
15-17'
3-5'
15-17'
10-12'
14-15'
1,2,4 TmB
1,3,5 TmB
PCE
Isopropyl benzene
sec-butyl
6,160
220
72,100
10.7
7.6
4.8
DOMINO'S PIZZA
TB(mw-1)
ND everything NPE
12.5-14.5 and 18-20'
APARTMENT BUILDING
LEGEND
FIELD SAMPLE ROUND 1
LAB SAMPLE ROUND 1
FIELD SAMPLE ROUND 2
LAB SAMPLE ROUND 2
BETX
30
12.4 TmB
SIDEWALK
KRAFT CLEANERS
YANGYOUFU CENTER
NORTH TRENCH
045
043
TB-2
TB-1
TB-3
046
SOUTH PIT
EXCAVATION SITE
TANK LOCATION, EXCAVATION, AND SAMPLE POINT
N
SCALE 1" = 10'
0
5
10
PROJECT 10459200
MARSCHALL PROPERTY
OVEREXCAVATION SOIL SAMPLE LOCATIONS
FIGURE 4
CENTRAL WISCONSIN ENGINEERS, INC.

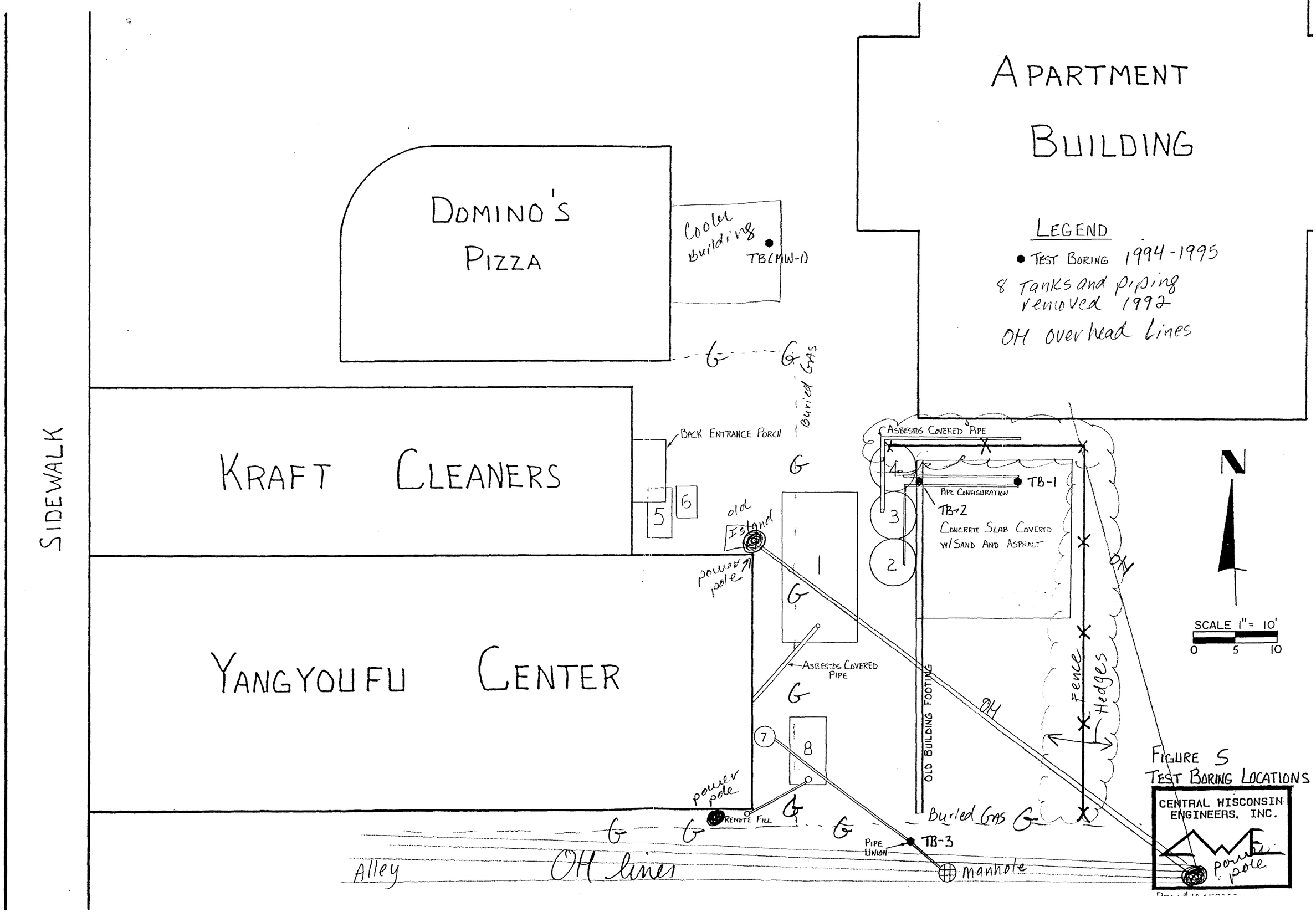
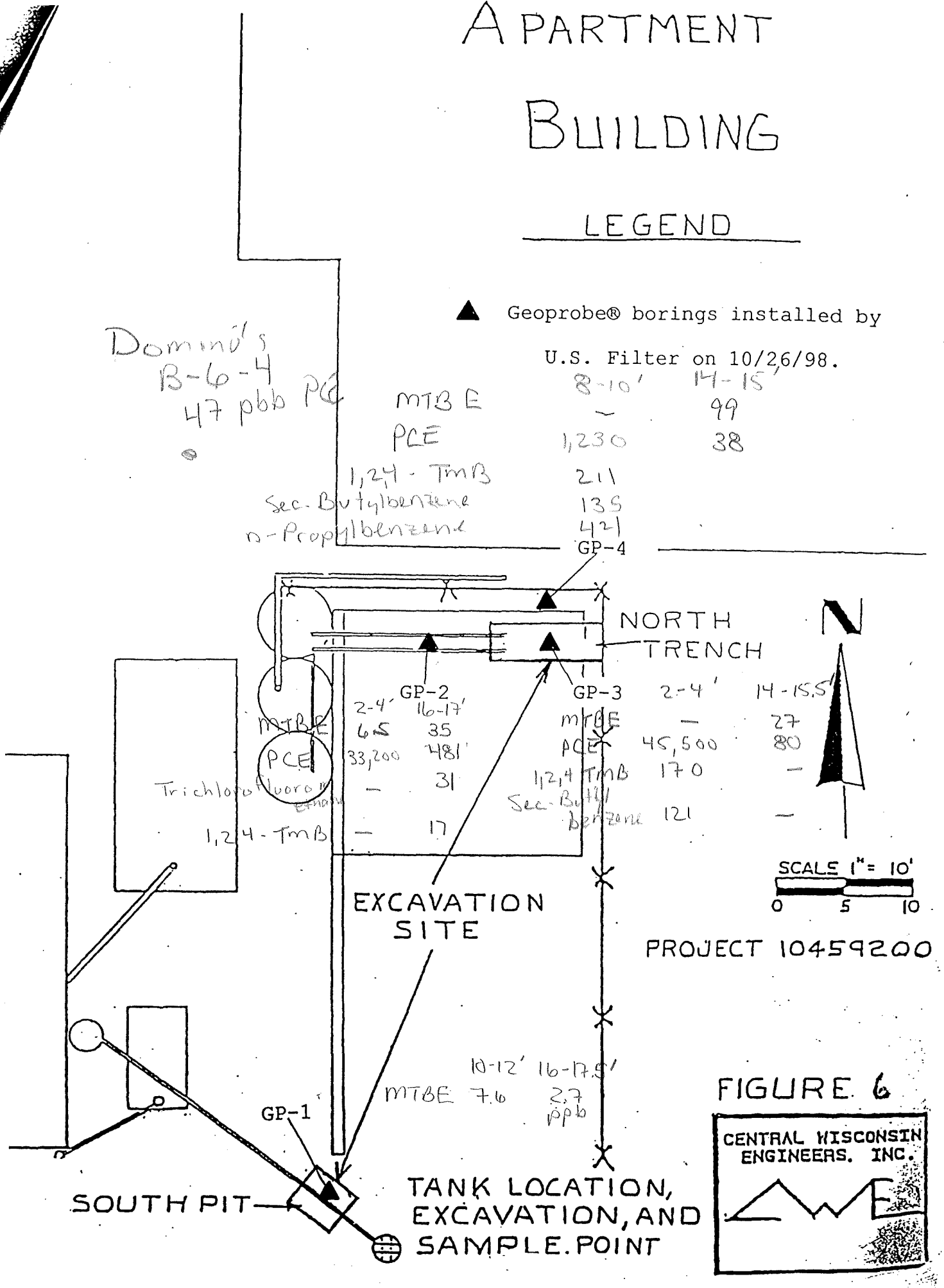


FIGURE 5
TEST BORING LOCATIONS

CENTRAL WISCONSIN ENGINEERS, INC.


APARTMENT BUILDING
LEGEND
Geoprobe® borings installed by U.S. Filter on 10/26/98.
Domino's
B-6-4
47 ppb PCE
8-10' 14-15'
MTBE — 99
PCE 1,230 38
1,2,4 - TMB 211
Sec-Butylbenzene 135
n-Propylbenzene 421
GP-4
NORTH TRENCH
N
GP-2
2-4' 16-17'
MTBE 6.5 35
PCE 33,200 481
Trichlorofluoroethane — 31
1,2,4-TMB — 17
GP-3
2-4' 14-15.5'
MTBE — 27
PCE 45,500 80
1,2,4 TMB 170 —
Sec-Butylbenzene 121 —
SCALE 1" = 10'
0 5 10
EXCAVATION SITE
PROJECT 10459200
10-12' 16-17.5'
MTBE 7.6 2.7 ppb
GP-1
SOUTH PIT
TANK LOCATION, EXCAVATION, AND SAMPLE POINT
FIGURE 6
CENTRAL WISCONSIN ENGINEERS, INC.

Marathon County-City of Wausau IMS

Lege
Selected Fe
Municipal B
Parcels
Section Lin
2000 City o

Scale: 1" = 60 feet

1/25/2005 9:

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Central Wisconsin Engineers & Architects, Inc.

Engineers • Architects • Scientists • Surveyors

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324 SOUTH MAIN STREET • VIROQUA WI 54665 • (608)637-2932 • FAX (608)637-3602

April 2, 1999

RECEIVED
APR - 5 1999
WAUSAU DNR

Lisa Gutknecht
WDNR
5301 Rib Mountain Dr.
Wausau, WI 54401

RE: Marschall Site
CWE # 10459450

Dear Ms. Guthnecht

The purpose of this correspondence is to re-introduce the request that the above referenced project be considered for closure. To keep this project open and active would be easy to do because there are gaps in the data that should be filled.

The reality of the matter is that these gaps won't be filled now or in the future. This project does not qualify for any funding programs. The program for dry cleaners can not be used because this is a long time inactive site and there are no other programs for which this site can qualify.

As a history, Mrs. Marschall's husband bought the site many years ago before his death. In 1992 we were retained to remove two gas tanks found behind the building by fire inspectors. At that time we identified and removed six tanks associated with the dry cleaning business.

Samples collected from beneath all tanks and piping runs indicated only two areas as having been impacted. These were identified as the south pit and north trench areas.

Limited over excavation was done at each area, but questions remained. Therefore, monitoring wells were proposed. Due to limited finances the wells were not installed. Attempts to install wells failed because no groundwater was encountered above the bedrock and Mrs. Marschall could not afford to do rock drilling.

Following discussions with you last year we installed four new Geoprobes to characterize site conditions in the two areas of concern. One Geoprobe was placed in the south pit and three Geoprobes were placed in the north trench. Two samples were collected from each Geoprobe and analyzed to VOC's. The deeper sample was collected at refusal.

The Geoprobe labeled GP-1 (south pit) confirmed that this site was clean and all contaminates had been removed. The north trench samples indicated the contaminates are still present at this location. The data from the Geoprobe study is shown on Table1.

It seems interesting that several compounds are found more frequently in the deeper samples. These parameters do not have soil standards, so we must concentrate on the more serious compound present, that being tetrachloroethlene (PCE).

The standards for PCE in groundwater is a 5 ppb ES and a 0.5 ppb PAL. Because we do not have groundwater samples, we do not know if these values are present under this site.

There are no soil standards established at this time. Therefore, we have to look at the risk to the environment and human health that this site presents. The first item to consider is that the lot is paved except for a narrow trench of about 30 inches where limited soils have been removed. This provides a physical control relative to leaching of the compound. Secondly the PCE concentrations at the bedrock surface are between 0.2 percent and 3 percent of the concentrations at the two foot depth. This is a strong indication that the compound is not severely impacting groundwater quality.

Studies have found that PCE exposure to rats at 100 ppm per day can have chronic effects. If we assumed 100% of the PCE at refusal depth entered the groundwater we could not reach 0.01 ppm because of dispersion and dilution. Also, this area is not a source of water supply as this area is served by municipal water and the City of Wausau bans the installation of private wells.

If the PCE is reaching for groundwater, it is flowing directly to the Wisconsin River. Regional groundwater mapping indicates that this is the case. PCE is extremely volatile. Therefore, even if it reaches the groundwater and that reaches the Wisconsin River, the potential risk is minimal.

There is no question that there is additional data needed before the department will consider this project for closure under normal circumstances. However, if we follow normal circumstances this site will never close. Mrs. Marschall lives on a fixed income and due to health problems will never have the financial backing to do the necessary testing. If a more open approach is not considered this project will never close.

Therefore, let's look at the risk this site presents and how we can close the site with controls.

First, the PCE is under a paved parking lot that overlays a floor slab of a former building. This provides protection from leaching as well as from exposure to the surface. This brings the exposure risk to a very small percentage. It is protected from human exposure as well as groundwater exposure.

Secondly, there is no groundwater above the bedrock, therefore the PCE present in the sample at refusal will not readily migrate further and enter the groundwater. If it does enter the groundwater, flow is to the Wisconsin River. When exposed to the air PCE is extremely volatile. Therefore, the life of any PCE reaching the river will be very short. Because the City of Wausau will not allow any wells within the city limits, if a plume were to be found, it will never be tapped for any purpose.

Therefore, what is the risk this site presents in its present state? We can not determine the degree of risk because we do not have as much data as we would prefer. But we can determine the risk of the environment or humans being exposed. We can see the PCE concentrations decline rapidly with depth. Therefore, any impact to groundwater will be minimal.

Groundwater flow is to the Wisconsin River where dilution and volatilization will eliminate any risk to the environment.

The contaminated soils are under a paved parking lot and a former floor slab. Therefore, physical restraints protect the environment and prevent human contact.

Based upon the risk factors, we feel this site should be closed with a deed restriction. To keep the case open will serve no purpose. The risk factors indicate case closure is appropriate.

Closure documents could be prepared if you feel the closure committee would close the site.

Sincerely,

CENTRAL WISCONSIN ENGINEERS & ARCHITECTS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Manager

enclosure

I:\lb\10459450\corres\Gutknecht.doc

Table 1
Marschall Site
VOC Analysis

south pit

Sample No.	GP-1		GP-2		GP-3		GP-4	
Sample Depth	10-12'	16-17.5'	2-4'	16-17'	2-4'	14-15.5'	8-10'	14-15'
Methyl tert Butyl Ether	0.076	0.027	0.065	0.035	–	0.027	–	0.099
Tetrachloroethylene	–	–	33.2	0.481	45.5	0.080	1.23	0.038
Trichlorofluoromethane	–	–	–	0.031	–	–	–	–
1,2,4-Trimethylbenzene	–	–	–	0.177	0.170	–	0.211	–
Sec-Butylbenzene	–	–	–	–	0.121	–	0.135	–
n-Propylbenzene	–	–	–	–	–	–	0.421	–

1 Compounds found only in parts per million
– No detect

NCD Case Closeout
Buck Slip

NCD UID#: 697 DATE: 4/29/96

SITE NAME: Sophie Marschall Prop.

ADDRESS: 303 2nd Ave, Wausau, 54401

FROM Program Staff: Laurel Sukup

TO Program Supervisor:

COPIED TO LUST P.A.: YES ✓ NO ____

Please (✓) any that have not been completed:

Extraction Well	____	Monitoring Wells	____
Contaminated Soils	____	Wastewater Permit	____
Air Permit	____	Private Well Notification	____
High Cap. Well Permit	____	Above PAL	____

Program Supervisor Approval:

____ Not Approved ____ Approved

Signature: _____ Date: _____

Committee

TO:
- X ~~Chuck Fitzgerald~~
- X Chuck Weister
- ___ Connie Antonuk
- X Scott Watson
- ___ Other

Let's Discuss, Connie

Based on my review, I recommend this case for closure.

_____
Staff Signature

Comments to the Committee:

Since this is the 2nd time that this case has been submitted for closure, I think the response letter should be from the close-out committee. Mrs. Marschall is trying to sell the property.

Concern has been expressed that this site may not be eligible for closure with a deed restriction because of insufficient investigation. The committee needs to be ready to discuss whether a deed rest is applicable.

Central Wisconsin Engineers & Architects, Inc.

Engineers • Architects • Scientists • Surveyors

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April 18, 1996

RECEIVED
Wis. Dept. of Natural Resources
APR 26 1996
N. C. Dist. Hdqtrs.
Rhinelander, WI

Ms. Laura Sukop
Wisconsin Department of Natural Resources
P.O. Box 818
Rhinelander, WI 54501

Dear Ms. Sukop:

Recently you had discussions with Mrs. Sophie Marschall and her attorney, James P. Lonsdorf, relative to the possibility of closing her site located at 303-305 2nd Avenue, Wausau, WI.

In April of 1995 we submitted a case closure document to the Department. I have attached a copy for your review. Because several Department personnel have been involved in this project over the years, let me clarify and summarize the case.

Central Wisconsin Engineers & Architects, Inc. (CWE) was retained by Mrs. Marschall to remove two small abandoned gasoline tanks from behind her buildings. During the course of this project, a total of eight abandoned tanks were located. Most of these tanks were empty, however, stoddard solution was identified as the former contents of some of the tanks. This is consistent with prior owners operating a dry cleaning business. Figures in the close-out document locate the tanks.

Samples collected at the time of the tank removal identified two areas of contamination. In September of 1992, these areas were excavated to remove the source. The areas excavated were in piping run areas and not under tanks. Again the close-out document figures show these areas. Approximately 73 cubic feet of soil were removed.

In the south pit the site was basically cleaned up. However, the cleanup of the north trench was more difficult. Contamination was noted as being in the soils in a trench cut in the floor of a former building found buried beneath the surface. It appeared that this was part of a former piping system. In this narrow trench (1 foot wide), soils were removed to a depth of about three feet.

Subsequent to that task, an attempt was made to install groundwater monitoring wells to determine if the groundwater had been impacted. The boring for MW-1, to be an upgradient well, hit refusal at 23 feet. Efforts to drill with mud rotary were unsuccessful and the drilling firm could not do air-rotary. For financial reasons, Mrs. Marschall could not remobilize another firm.

With Department approval, the scope of work was modified to determine the degree of contamination in the vicinity of the south pit and north trench, and determine if there was groundwater above the bedrock.

Attached Figure 1 shows how overhead power lines and underground gas lines cross the site. The alley was occupied by gas lines and municipal utilities. Also note that the scale on the figure is one inch equals ten feet, so the working area is quite small.

Figure 4 in the close-out document shows the location of the three soil borings and the abandoned MW-1.

The initial boring was noted as TB (MW-1) in all data. The second set of borings were labeled as TB-1, TB-2 and TB-3.

Two soil samples were collected from each boring and analyzed for GRO, DRO and VOC (Method 8021). The full results are listed in the closeout document. One sample was collected from a depth where physical observations indicated potential contamination. The second was taken just above the refusal depth.

Soil samples from TB (MW-1) were collected at 12.5 to 14.5 feet and 18 to 20 feet below the surface. Based upon the parameters run, no contamination was detected in either of the samples. This was not unexpected because this was an upgradient boring.

At TB-1 soil samples were collected at 3 to 5 feet and 15 to 17 feet. The upper sample was collected from a depth just below the floor slab of the former building. This location was what appeared to be a trench in the floor slab. Because no one remembers the building details, we are assuming this trench contained piping runs.

Dry cleaning solvents (stoddard solution) contain petroleum based compounds, therefore, GRO and DRO analysis were run. GROs were detected at 5.3 and 51.2 ppm in the upper and lower samples respectively. DRO values were 12.5 and 17.8 ppm.

The upper sample had a tetrachloroethene concentration of 6,160 ppb. The following VOCs were present in the lower sample:

1,2,4-Trimethylbenzene	50.3 ppb
1,3,5-Trimethylbenzene	20.4 ppb
tetrachloroethene	220 ppb
sec-butylbenzene	15 ppb
isopropylbenzene	18.7 ppb

In TB-2 samples were collected at 3 to 5 feet and 15 to 17 feet. GRO concentrations were 12.9 and 9 ppm respectively and DRO were 87.7 and 16.6 ppm. The only VOCs detected were tetrachloroethene at 72,100 and 10.7 ppb respectively.

The only detection in TB-3 was tetrachloroethene at 7.6 ppb at 10 to 12 feet and 4.8 ppb at 14 to 15 feet. Based upon this data, it would appear that the south pit area has been adequately remediated by the over-excavation.

The TB-1 and TB-2 area has residual contamination. This area has not been remediated by Mrs. Marschall because she does not have the finances to undertake a cleanup. From the data gathered, it would appear that a majority of the contaminated soils lie beneath the floor slab for the old building.

The concentrations of GRO and DRO from the test borings TB-1 and TB-2 were all less than 100 ppm. The other compounds detected in the VOC analysis are unregulated.

The compound of concern is tetrachloroethene which was concentrated in the upper soil layers. Levels in TB-1 and TB-2 at the 3 to 5 foot depth were 6,160 and 72,100 ppb respectively. At 15 to 17 feet these levels dropped to 220 and 10.7 ppb respectively.

At a minimum this compound has had 25 to 30 years to migrate downward to the bedrock. Only 3.5 percent of the surface concentration has migrated downward in this 25 to 30 year period. There is no reason to believe that anything different will happen over the next 30 years. Therefore, it can be argued that if no further action is taken, there will not be a negative impact on the environment or public health.

We have found the contamination to be at a depth of 3 feet to refusal (17 feet). TB-1 and TB-2 were approximately 10 feet from the adjacent apartment building and five feet from the property line. Because of these constraints, the option of overexcavation is not a feasible remedial alternative. A one to one slope on an excavation would result in only removing the top of the contamination. Also, it would remove the existing surface obstructions and environment that has kept the contaminant from migrating downward over the last 25 to 30 years.

Therefore, we feel overexcavation may be more harmful than good.

The Department has proposed amendments to Chs. NR 722, NR 724 and NR 726 and supporting amendments to ch. NR 140 Wis. Adm. Code. These amendments are proposing a means of "Flexible Closure" for sites where it is clear that soil contamination will not result in groundwater contamination.

NR 726, Case Closure,Wis. Adm. Code sets forth the provisions for the closure of a site. Our review of NR 726.05 leads us to believe that this site could be closed.

At this site, interim and remedial action steps have been taken to reduce soil contamination in accordance with NR 720 and NR 722.

NR 726.05 (4) states that the department may not close a site if the remaining level of contamination will (1) cause a threat to public health, safety or welfare on the environment, (2) cause a violation of groundwater standards, (3) cause a violation of surface water standards, or (4) cause a violation of air quality standards.

It is our opinion that this site does not have the potential to cause any violation of the above conditions.

First, this site should never be a threat to the public health or welfare or environment. This is an urban site and contamination is highest 3 to 5 feet below the surface. The immediate surface above the contamination is covered by the former building floor slab and the parking lot surface. Further, this is a small site so the quantity of contaminated soil is small. This site is located in an area where land use probably won't change in the future.

Secondly, borings to bedrock encountered no groundwater due to downward migration of the contaminant over a period of more than 30 years. Data collected indicates that only a small percentage of the near-surface concentration has reached bedrock. Without surface waters to infiltrate downward, it is unlikely that the concentrations present will migrate downward. Then there is no threat to groundwaters.

Similarly without groundwater contamination, the subsurface soils contamination cannot reach and impact surface waters. And, with a paved surface, runoff cannot carry contaminated soil particles to surface waters.

And lastly, with a paved surface over the site, there is no threat to air quality.

In summary, the VOC analysis of soils on this site has found tetrachloroethene and four other unregulated compounds at TB-1 and only tetrachloroethene at TB-2 and TB-3. The paved surface and lack of groundwater on the bedrock has this pocket of contamination isolated and fixed in position. It is unlikely to migrate based upon past history. All tanks have been emptied and removed so the site can only improve the future.

The responsible party does not have the financial backing to implement a costly remediation process. And, based upon the past history of the site, remedial expenditures are not going to cause a change in the environmental quality of the area.

At the very least, this site is eligible for closure with a deed restriction giving notice to any prospective purchaser that residual contamination is present.

Sincerely,

CENTRAL WISCONSIN ENGINEERS & ARCHITECTS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Manager

f:\96-04\1045mars.ltr File:10459450

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Dale T. Urso, District Director

North Central District Headquarters
PO Box 818, 107 Sutliff Ave.
Rhinelander, WI 54501-0818
TELEPHONE 715-365-8900
FAX 715-365-8932
TDD 715-365-8957

March 11, 1996

IN REPLY REFER TO: #294

Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, WI 54401

SUBJECT: Kraft Cleaners

Dear Mrs. Marschall:

This letter is per your March 8, 1996, phone conversation with Connie Antonuk, Unit Leader, Wisconsin Department of Natural Resources (WDNR, Department). During your conversation, Ms. Antonuk explained your option of placing a deed affidavit on the title of your Kraft Cleaner property.

Under s. 144.76(3), Wis. Stats., any person who possesses or controls a hazardous substance which is discharged, or who causes the discharge of a hazardous substance, must take the actions necessary to restore the environment and minimize the harmful effects from the discharge to the air, lands or waters of the State. In a October 31, 1995, correspondence from you consultant, Central Wisconsin Engineers, they indicated that you did not have the financial backing to proceed with an excavation. You have also declined completing a financial disclosure form which would have allowed the Department to determine if a financial hardship status would be appropriate.

To ensure the protection of any future buyers of this property, placement of a deed affidavit on this property is in order. The purpose of the affidavit is to notify potential purchasers of the remaining contamination on your property. I have enclosed a sample deed affidavit that may help you in compiling one for your site. It is your responsibility to submit a draft affidavit to the Department for review and approval prior to filing the document with your local register of deeds. Upon receipt of the approved affidavit, you will have 30 days to record it, and submit proof of the filing to the Department.

Please contact me within 14 days of receipt of this letter to discuss your next course of action. My direct number is (715)365-8965.

Sincerely,
NORTH CENTRAL OFFICE

Laurel Sukup
Hydrogeologist

cc: Scott Watson - Rhinelander
Connie Antonuk - Rhinelander

enc.

Central Wisconsin
Engineers

5707 SCHOFIELD AVENUE • P.O. BOX 107 • SCHOFIELD, WI 54476 • (715) 359-9400 • FAX (715) 355-4199

RECEIVED
Wis. Dept. of Natural Resources
NOV - 1 1995
N. C. Dist. Hqtrs.
RHINELANDER, WI

October 31, 1995

Mr. Scott Watson
Wisconsin Department of Natural Resources
P.O. Box 818
Rhinelander, WI 54501

RE: Kraft Cleaners
CWE Project #10459450

Dear Mr. Watson:

I have had several conversations with Mrs. Sophie Marschall concerning how to get her project to closure. She has indicated that if she completes a financial disclosure statement provided by the Department she may get her parcel closed. However, Mrs. Marschall does not feel that she should have to reveal her financial status to that degree to get this parcel closed.

In your recent correspondence you questioned why we sampled for GRO, DRO and VOCs. These parameters were selected because the analytical guidance lists these parameters for stoddard solvents. Our analysis of the tank contents identified the sludges/liquids as stoddard solvents, therefore, we sampled as recommended. The dry cleaning business ceased operation prior to the early 1960's. During that time period, stoddard solvent was used in the dry cleaning process.

Mrs. Marschall has indicated that she does not have the financial backing to excavate the area contaminated with tetrachloroethene. Neither she or her late husband were the owner of the parcel at the time the tetrachloroethene was introduced to the soils. This makes it more difficult for her to accept the fact that she must pay for the cleanup.

She has questioned the county about taking the site on delinquent taxes, but they refused. Therefore, the prospects for the site are poor.

We tried to install groundwater monitoring wells but were unable to set the wells. The fractured bedrock collapsed when we tried hollow stem and mud rotary drilling. Finances hindered further efforts. We did establish, however, that there was no groundwater above the bedrock.

Previously, we proposed to repave the area and permit passive bioremediation to continue to remediate the site. The compounds present will continue to breakdown. There are no municipal or private wells in the area, and as previously stated, there is no groundwater above the bedrock. Therefore, the contaminant would not move downward and should not impact groundwaters. Soil borings show a significant decrease in contaminate levels with depth. These contaminant levels have not migrated downward in 30 years. Logic says that if it has not migrated downward in 30 years,it probably won't in the future.

Therefore, the recommendation of passive bioremediation with a deed or property restriction will document the existing conditions. This site will either be abandoned by Mrs. Marschall or it will receive a property restriction and be sold. With a property restriction we will at least have the building occupied, kept in good repair and the former tank area sealed.

Without the restriction the building may be abandoned and we lose all control over the site.

I would think that the Department would want to reach an agreement that will provide for control of future land use at this site.

Sincerely,

CENTRAL WISCONSIN ENGINEERS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Manager

cc: Mrs. Sophie Marschall
f:\95-10\1045mars.ltr File:10459450

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

George E. Meyer
Secretary

107 Sutliff Avenue
P.O. Box 818
Rhinelander, Wisconsin 54501-0818
TELEPHONE 715-365-8961
TELEFAX 715-365-8932
Internet: watsom@dnr.state.wi.us

E294

Janet: Please track on ER as ABEL Determination

August 1, 1995

James Lonsdorf
P.O. Box 1585
Wausau Wisconsin 54402-1585

Subject: Marschall

Dear Jim:

As a follow up to our conversation I have enclosed a financial disclosure form. The information outlined in the form should be provided to the Department in preparation of claiming financial hardship.

If you have any questions please feel free to contact me.

Sincerely,

M. Scott Watson
Environmental Repair Coordinator

cc: Connie Antonuk, NCD

This is Kraft Cleaners

what site is this?

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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

107 Sutliff Avenue
P.O. Box 818
Rhinelander, Wisconsin 54501-0818
TELEPHONE 715-365-8961
TELEFAX 715-365-8932
Internet: watsom@dnr.state.wi.us

George E. Meyer
Secretary

July 24, 1995

Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, Wisconsin 54401

Subject: Marschall Site Closure Request

Dear Mrs. Marschall:

The North Central District Closeout Committee has reviewed Central Wisconsin Engineers Inc. (CWE), request for closure of the Marschall Site. After review of the project and the request for closure, the Closeout Committee voted to deny closure of your site at this time.

Central Wisconsin Engineers requested closure based on their arguments that remaining contaminant levels will not be harmful to the groundwater. Whereas it is possible to close a site with remaining levels of contamination, it must first be adequately demonstrated that the remaining levels will not cause additional environmental impacts to groundwater or human health. Wisconsin Adm. Code NR 720.19, outlines the procedure to determine soil cleanup standards specific to a site. Your consultant should be familiar with this process. Based on the arguments presented by CWE in the closure request, an alternative clean-up level has not been scientifically established. Therefore closure of your site can not be approved based on an alternative clean-up level.

In order to approve your site for closure the extent and degree of contamination to both soil and groundwater must be defined. We recognize that attempts to establish groundwater monitoring wells at the site were not successful. Even though the monitoring well installation was difficult, we continue to believe that additional investigation of both the soil and groundwater is necessary to define the extent and degree of contamination. It is our hope that the full cost of drilling the dry monitoring wells was not passed on to you as a client.

Finally, our committee did not understand the analytical value of DRO/GRO as an indicator for either perchloroethylene, trichloroethylene or vinyl chloride. These are typical components of dry cleaning chemicals. Please be advised that for the purposes of investigation and closure evaluation, compound specific analysis shall be required.

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Your case will continue to be tracked on the Districts Environmental Repair data base as needing additional investigation.

If you have any questions concerning this review please feel free to contact me at (715) 365-8961.

Sincerely,

M. Scott Watson
Environmental Repair Coordinator

cc: Connie Antonuk, NCD
George Peterson, CWE
Jim Lonsdorf

DEPARTMENT OF NATURAL RESOURCES
NORTH CENTRAL DISTRICT

FROM: MELANY HASTREITER, NCD

DATE: 5-25-95

__ Gary Kulibert, NCD
__ Connie Antonuk, NCD
X Scott Watson, NCD
__ Laurel Sukup, NCD
__ Marina Larson, NCD
__ Ron Falkowski, NCD
__ Janet Kazda, NCD
__ Roxanne Richson, NCD
__ Brian Bates, NCD - WDOT
__ Tom Jerow, NCD
__ Sherry Otto, NCD
__ Coleen Poler, NCD
__ Don Miller, NCD
__ Norm Dunbar, NCD

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Rhinelander, WI

__ Dennis Fuster, WI Rapids
__ Don Grasser, WI Rapids
__ Tom Applegate, WI Rapids - WDOT
__ Mike Miller, WI Rapids

__ Lisa Hrubesky, Wausau
__ Corey Heckel, Wausau
X ~~Richard Powers, Wausau~~
__ Deb Pingel, Wausau

__ _____

Dept. of Natural Resources
MAY 30 1995
Wausau DNR Office
Wausau, Wisconsin

__ Written comments by _____
__ File _____
__ Note and return
__ For your information
__ Please see me by _____
__ Note and toss
__ Please follow through

Case closed @ Relocate

Comments: Richard, I am forwarding this onto you as you are listed as project manager for the case.

I am forwarding this to Scott Wat

R.B.

Central Wisconsin
Engineers

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RECEIVED
Wis. Dept. of Natural Resources
MAY 24 1995
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RHINELANDER, WI

May 15, 1995

Ms. Marlene Hastreiter
Wisconsin Department of natural Resources
P.O. Box 818
Rhinelander, WI 54501

RE: Kraft Cleaners
CWE Project #10459450

Dear Ms. Hastreiter:

As we discussed, I was requested to provide the Department with a legal description for the Kraft Cleaners site. Mrs. Marschall's attorney provided me with the following legal description.

> Land described in Certified Survey Map recorded in the office of the Register of Deeds for Marathon County, Wisconsin, in Volume 11 of Certified Survey Maps on page 262; being a part of Lots five (5) and six (6) in Block two (2) of A. Stewart's Addition to Wausau; subject to all easements of record.

Please forward this to the appropriate person in Rhinelander. Richard Brown was the local project manager.

Sincerely,

CENTRAL WISCONSIN ENGINEERS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Manager

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Wis. Dept. of Natural Resources
MAY 31 1995
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Central Wisconsin
Engineers

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April 27, 1995

Mr. Richard Brown, Hazardous Waste Specialist
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, WI 54401

RE: Marschall Site
CWE Project #10459250

Dear Mr. Brown:

Pursuant to the request from the Department, we attempted to install groundwater monitoring wells at the Marschall site. Our proposal was to install four shallow groundwater monitoring wells to determine if the groundwater has been impacted by past practices. One well was to be placed upgradient on the Domino Pizza site (formerly a service station). The second well was to be in a potentially contaminated on-site location and two to the south (down-gradient).

Three of the four wells were off site. Significant delays were encountered in obtaining access agreements for well placement.

Monitoring well MW-1 was to be located on the Domino's Pizza property. This boring was drilled to 23 feet at which point we had refusal. From the surface to 18 feet we had unconsolidated material, 18 to 23 feet was weathered bedrock. No groundwater was encountered above refusal depth, 23 feet. The boring was abandoned per NR 141.

Pursuant to the conditions found, we proposed to the Department to do three more borings to refusal. Wells would be set if groundwater was encountered. If not, the borings would be abandoned. Approval to proceed in this manner was obtained.

Therefore, three more borings were done. Two in the former tank and trench area and one at the "south pit". These borings were extended to refusal. Groundwater was not encountered in any of the borings.

The initial boring was noted as TB (MW-1) in all data. The second set of borings were labeled as TB-1, TB-2 and TB-3.

Two soil samples were collected from each boring and analyzed for GRO, DRO and VOC (Method 8021). The results are listed in Table One. One sample was collected from a depth having a potential of being contaminated based upon physical observations. The second was taken just above the refusal depth.

Soil samples from TB (MW-1) were collected at 12.5 to 14.5 feet and 18 to 20 feet below the surface. Both of the samples detected no contamination based upon the parameters run. This was not unexpected because this was an upgradient boring.

At TB-1 soil samples were collected at 3 to 5 feet and 15 to 17 feet. The upper sample was collected from a depth just below the floor slab of the former building. This location was what appeared to be a trench in the floor slab. Because no one remembers the building details, we are assuming this trench contained piping runs.

Dry cleaning solvents contain petroleum based compounds, therefore, GRO and DRO analysis were run. GROs were detected at 5.3 and 51.2 ppm at the upper and lower samples respectively. DRO values were 12.5 and 17.8 ppm.

The upper sample had a tetrachloroethene concentration of 6,160 ppb. The lower sample had the following VOCs present:

1,2,4-Trimethylbenzene	50.3 ppb
1,3,5-Trimethylbenzene	20.4 ppb
tetrachloroethene	220 ppb
sec-butylbenzene	15 ppb
isopropylbenzene	18.7 ppb

In TB-2 samples were collected 3 to 5 feet and 15 to 17 feet. GRO concentrations were 12.9 and 9 ppm respectively and DRO were 87.7 and 16.6 ppm. The only VOCs detected were tetrachloroethene at 72,100 and 10.7 ppb respectively.

The only detects in TB-3 was tetrachloroethene at 7.6 ppb at 10 to 12 feet and 4.8 ppb at 14 to 15 feet.

Summary

As a general rule, all of the GRO and DRO values were above the value that a site investigation is required. However, they were below the 100 ppm upper limit.

The VOCs found are all unregulated compounds in soil. The compound of concern is tetrachloroethene. The significant contamination from this compound was found near the surface. It decreases dramatically with depth.

The concentration immediately under the former building floor slab at TB-1 and TB-2 was 6,160 ppb and 72,100 ppb. However, at refusal, 17.5 feet, these values had decreased to 220 ppb and 10.7 ppb, respectively. This points out that the compound is not migrating downward.

It must also be considered that the dry cleaning businesses from which this contamination originated ceased operation in the late 1960's or early 1970's. Therefore,

the compounds detected have had 25 to 30 years to age and decay. Because of this, the compounds are not anticipated to be mobile and are well aged and in all likelihood are being broken down by biological action at this time.

Recommendation

It is our recommendation that no further action be taken at this time. We base this upon the following physical factors.

1. The contaminants present are currently unregulated.

2. The contaminants have not migrated to depth.

3. The contaminants are well aged, having been released a minimum of 25 years ago.

4. This is a commercialized area, therefore, future disturbance of the area is unlikely.

5. There was no groundwater encountered above bedrock.

The final consideration is financial. Mrs. Marschall has exhausted her personal finances as well as any possible sources associated with previous property owners that operated the dry cleaning business prior to her late husband's purchase of the property.

This parcel is not eligible for any known funding programs to assist Mrs. Marschall in the clean-up.

Therefore, we feel that the best solution would be to close-out this project with conditions. The condition would be that a deed restriction be placed on the parcel requiring that if the area where TB-1 and TB-2 were placed was excavated, the soils in that area be sampled and analyzed for VOCs. If the contamination found at that time exceeds standards at that time, appropriate steps be taken to ensure proper soil treatment/disposal.

With this in mind, I have attached a proposed deed restriction for your consideration.

Sincerely,

CENTRAL WISCONSIN ENGINEERS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Manager

Enclosures

Declaration of Restrictions and Covenants

In RE: Mrs. Sophie Marschall property
303-305 2nd Avenue
Wausau, WI 54401

STATE OF WISCONSIN)
)ss
COUNTY OF MARATHON)

WHEREAS, Mrs. Sophie Marschall is the Owner of the above-described property; and

WHEREAS, it is the desire and intention of the property Owner to impose on the property restrictions which will make it unnecessary to conduct further soil remediation activities on the property at the present time;

NOW THEREFORE, the Owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

> Tetrachloroethene, 12,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, sec-butylbenzene and isoprppylbenzene contamination has been left in-place under buried floor slab for a former building in the asphalt covered parking area behind the existing building. Mrs. Marschall shall maintain the asphalt cover in good condition, preventing the infiltration of water. Pursuant to the requirements of s. 144.76, Stats., any future subsurface work on this property which removes the structural impediments which currently exist shall provide for an investigation of the degree and extent of gasoline and diesel components contamination. To the extent that contamination is found at that time, the Wisconsin Department of Natural Resources shall be immediately notified and the contamination shall be properly treated or disposed of in accordance with applicable laws.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction inures to the benefit of and is enforceable by the Wisconsin Department of Natural Resources its successors or assigns. The Department, their successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or their successor issue a determination that one or more of their restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished.

IN WITNESS WHEREOF, the Owner of this property has executed this Declaration of Restrictions and Covenants, this _____ day of _____, 19__.

Signature: _____

Printed Name: _____

Subscribed and sworn to before me
this _____ day of _____, 19___.

_____
Notary Public, State of _____
My Commission expires _____

f:\95-04\forms\sophie

TABLE ONE
SOIL CHEMISTRY – LABORATORY
Marschall Property, Wausau, WI
WDNR UID# XXXX
CWE Project #10459250

Sample Location		TB(MW1)	TB(MW1)					
Sample I.D.		1–5	1–7					
Sample Depth (ft.)		12.5–14.5	18–20					
Sample Date		7/21/94	7/21/94					
ORGANICS (TPH)	PQL[1]							
GRO	5	N	N					
DRO	10	N	N					
ORGANICS (VOC)ppb	PQL[1]							
Benzene	0.1	N	N					
Ethylbenzene	0.2	N	N					
Toluene	0.3	N	N					
o Xylene	0.2	N	N					
m&p Xylenes	0.2	N	N					
Total xylenes	0.2	N	N					
MTBE	0.3	N	N					
1,2,4–TMB	0.2	N	N					
1,3,5–TMB	0.2	N	N					
Dichloromethane	0.9	N	1.1 B					
METALS	PQL[1]							
Lead	6	1.34	2.3 B					

Sample Location		TB–1	TB–1	TB–2	TB–2	TB–3	TB–3	
Sample I.D.		1–1	1–7	2–1	2–7	3–2	3–3	
Sample Depth (ft.)		3–5	15–17	3–5	15–17	10–12	14–15	
Sample Date		2/20/95	2/20/95	2/20/95	2/20/95	2/20/95	2/20/95	
ORGANICS (TPH)	PQL[1]							
GRO	5	5.3	51.2	12.9	9	N	N	
DRO	5	12.5	17.8	87.7	16.6	N	N	
ORGANICS (VOC)ppb	PQL[1]							
Benzene	0.1	N	N	N	N	N	N	
Ethylbenzene	0.2	N	N	N	N	N	N	
Toluene	0.3	N	N	N	N	N	N	
o Xylene	0.2	N	N	N	N	N	N	
m&p Xylenes	0.2	N	N	N	N	N	N	
Total xylenes	0.2	N	N	N	N	N	N	
MTBE	0.3	N	N	N	N	N	N	
1,2,4–TMB	0.2	N	50.3	N	N	N	N	
1,3,5–TMB	0.2	N	20.4	N	N	N	N	
Tetrachloroethene		6,160	220	72,100	10.7	7.6	4.8	
sec–butylbenzene		N	15	N	N	N	N	
Isopropylbenzene		N	18.7	N	N	N	N	

All results listed as μg/g, which is equivalent to parts per million (ppm) unless otherwise stated.
[1]Listed values are commonly reported minimum PQLs, actual values may vary.

L = Low–range PVOC analysis performed, detection limits are approximately 10 times lower than listed.
-- = Not Analyzed
TPH = Total Petroleum Hydrocarbons
VOC = Volatile Organic Compounds
B = Detected in Method Blank
MTBE = Methyl–t–butyl ether
TMB = Trimethylbenzene
N = Not detected

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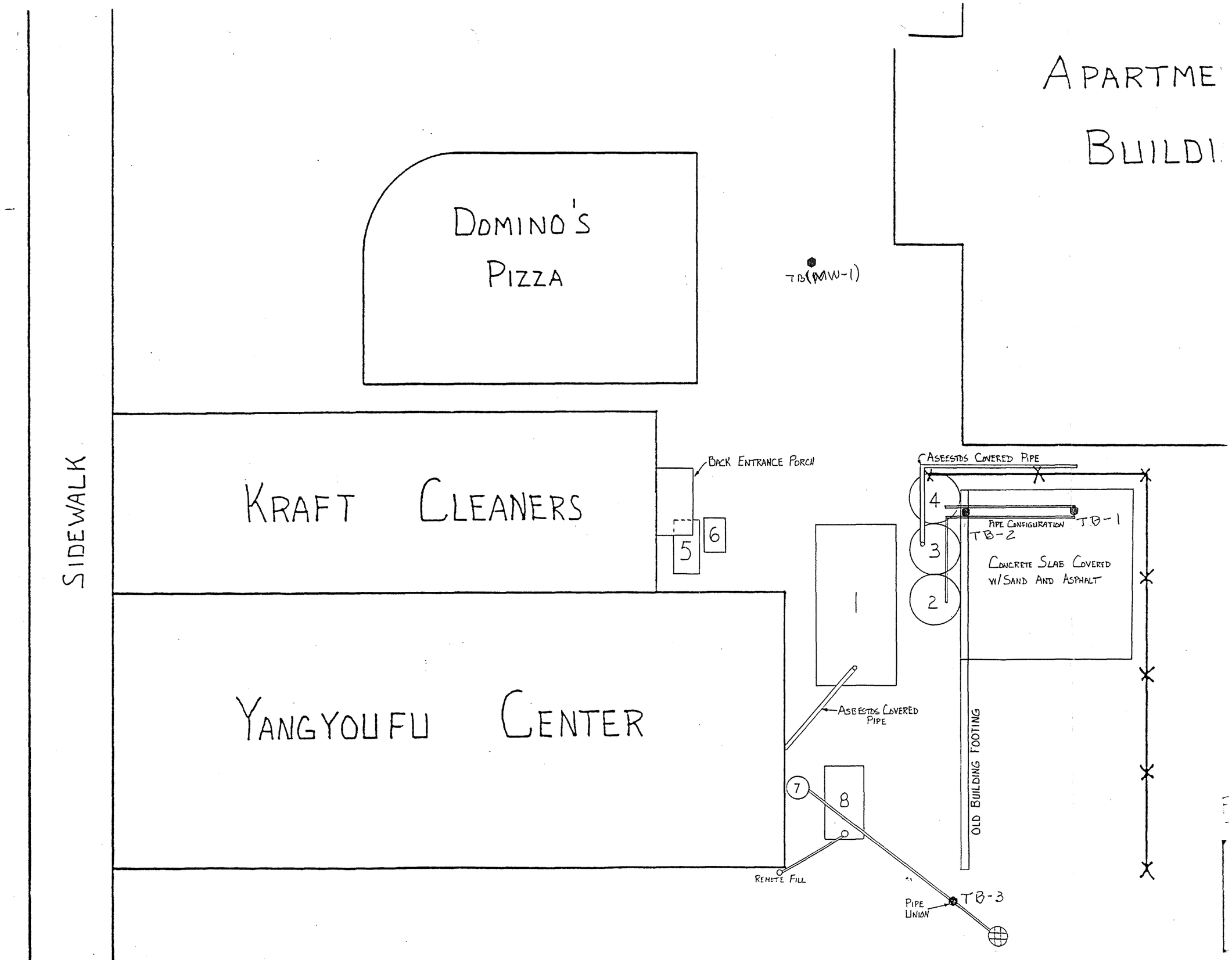
APARTME
BUILDI
DOMINO'S PIZZA
TB(MW-1)
SIDEWALK
KRAFT CLEANERS
BACK ENTRANCE PORCH
5
6
ASBESTOS COVERED PIPE
4
3
2
PIPE CONFIGURATION
TB-2
TB-1
CONCRETE SLAB COVERED W/SAND AND ASPHALT
1
YANGYOUFU CENTER
ASBESTOS COVERED PIPE
OLD BUILDING FOOTING
7
8
REMOTE FILL
PIPE UNION
TB-3

Boring Log

MW-1 Marschall Property 7/21/94

Sample #	Depth (ft.)	Blow Counts	Recovery (ft.)
1	2.5-4.5	2-4-5-8	0.6
2	5-7	7-11-14-16	0.9
3	7.5-9.5	9-12-20-23	1.1
4	10-12	1-9-12-20	0.6
5	12.5-14.5	5-10-5-8	0.9
6	15-17	2-3-5-9	0.6
7	17.5-19.5	4-32-100- -	0.6
8	20-22	Bouncing	0.1

Well Information: N/A
Drilling Method: 4 1/4" H.S.A.
E.D.S. , Inc. site personnel: Aaron Brunnette
Troy Simonar

Temp. W.

Sample #	Depth	Blow Counts	Recovery
1	Blind Drilled to 18.5'		
2			
3			
4			
5			
6			
7	Bedrock at 18.5 feet		
8			
9			

Well Information: E.O.B. @ 27.6'. Well set at 18.7' Then remove

Sample #	Depth	Blow Counts	Recovery
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Well Information:

BOART LONGYEAR

FIELD BORING LOG

Sheet 1 of 1

Job No. 7006

Boring No. B-1

FOR Marshall Prop.

LOCATION Wausau, WI Elev.

GROUND WATER: While drilling Dry; Before casing removal; After casing removal

Time after drilling 1/4 Hour; Depth to water Dry; Depth to cave-in

Start 2-20-95

Unit

Chief M. Thuot

Casing/Probe

Weight 140#

Drop 30"

Sample No.	Moist.	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Rec.	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Symbol	Unconf. Strngth	Boulder	Blows on Case Size	Blows on Probe Size	Drill Method
												3.25 HSA
1	M	7	1	1.0	2	Br. M-F SAND w/Gravel and Silt						
		1	4									
2	M	7	16	1.1	30	5						
		14	13			Br. M-C SAND w/Gravel						
3	M	16	17	1.2	33							
		16	16									
4	M	21	24	0	47	10						
		23	24			No Recovery						
5	M	10	14	1.1	30							
		16	20									
6	M	30	31	0	59							
		28	26			No Recovery						
7	M	100		.5	100	15						
8	M	100		.5	100							

E.O.B. 17.5

Backfill w/Holeplug

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BOART LONGYEAR

FIELD BORING LOG

Sheet 1 of 1

Job No. 7006

Boring No. B-2

FOR Marshall Prop.

LOCATION Wausau, WI Elev.

GROUND WATER: While drilling Dry; Before casing removal; After casing removal

Time after drilling 1/4 Hour; Depth to water Dry; Depth to cave-in

Start 2-20-95; Unit Bomb; Chief M. Thuot

Casing/Probe; Weight 14-#; Drop 30"

Sample No.	Moist.	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Rec.	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Symbol	Unconf. Strength	Boulder	Blows on Case Size	Blows on Probe Size	Drill Method
						GRAVEL Fill						3.25 HSA
1	M	16	17	1.0	34	Red BRICK						
		17	23									
2	M	11	16	.2	34	5						
		18	20			Br. C-M SAND w/Gravel						
3	M	12	12	1.0	24							
		12	14									
4	M	12	14	1.0	22							
		8	9			10 (.5 F. Sand Seam)						
5	M	15	8	.9	17							
		9	15									
6	M	12	14	.8	23							
		9	13			15						
7	M	8	10	1.1	22							
		12	17									

E.O.B. 17.5

Backfill w/Holeplug

BOART LONGYEAR

IELD BORING LOG

Sheet 1 of 1

Job No. 7006

Boring No. B-3

FOR Marshall Prop.

LOCATION Wausau, WI Elev.

GROUND WATER				
While drilling	Dry	Time after drilling	1/4 Hour	Start 2-20-95
Before casing removal		Depth to water	Dry	Unit Bomb
After casing removal		Depth to cave-in		Chief M. Thuot

Casing/Probe
Weight
Drop 30"

Sample No.	Moist.	Blows on Sampler 0/6	Blows on Sampler 6/12	Sample Rec.	Total Blows	VISUAL FIELD CLASSIFICATION AND REMARKS	Symbol	Unconf. Strngth	Boulder	Blows on Case Size	Blows on Probe Size	Drill Method
						GRAVEL Fill						3.25 HSA
						(Pushed Spoon-No recovery)						
1	M			N/R		5	5					
						10	10					
2	M			1.0		(Pushed Spoon) Br. C-M SAND w/Gravel						
3	M			.4		(Pushed Spoon) 15	15					
						E.O.B. 15.0 Backfill w/Holplug						

CENTRAL WISCONSIN ENVIRO LAB, INC.

To: Central Wisconsin Engineers, Inc.
5707 Schofield Avenue
Schofield, WI 54476
Attn: George O. Peterson
Phone: 715-359-9400

Date: August 15, 1994

Wisconsin Certification No. 737125510

PROJECT: Marschall Site

LAB BATCH ID: 9407035

PROJECT NUMBER: 10459250

METHODOLOGIES:

GRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-140 93 REV.

DRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-141 93 REV.

Volatile organics were determined by modified EPA Method 8260 using GC-MS.

Total lead was determined by EPA Method 7000A using GFAA.

REMARKS:

AUG 15 1994

CENTRAL WISCONSIN ENVIRO LAB, INC.

David L. Schumacher
Lab Director

Date: 8/14/94

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW 1-5 12.5-14.5	Date Received:	7/22/94
Sample Matrix:	Soil	Lab Batch ID:	9407035
Date Collected:	7/21/94	Lab Sample ID:	005037
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459250		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	7/29/94
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	7/28/94
	Extraction Date					7/25/94
7000A	Lead, Total		1.34	mg/kg		8/11/94

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW1-5 12.5-14.5	**Date Received:**	7/22/94
Sample Matrix:	Soil	**Lab Batch ID:**	9407035
Date Collected:	7/21/94	**Lab Sample ID:**	005037
Project:	Marschall Site	**Date Analyzed:**	7/25/94
Project #:	10459250	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	ND	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW 1-7 18-20	Date Received:	7/22/94
Sample Matrix:	Soil	Lab Batch ID:	9407035
Date Collected:	7/21/94	Lab Sample ID:	005038
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459250		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	7/29/94
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	7/28/94
	Extraction Date					7/25/94
7000A	Lead, Total		2.38	mg/kg		8/11/94

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW1-7 18-20	**Date Received:**	7/22/94
Sample Matrix:	Soil	**Lab Batch ID:**	9407035
Date Collected:	7/21/94	**Lab Sample ID:**	005038
Project:	Marschall Site	**Date Analyzed:**	7/25/94
Project #:	10459250	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	0.9	ND	µg/kg	1,2-Dichloropropane	0.9	ND	µg/kg
Bromobenzene	0.9	ND	µg/kg	1,3-Dichloropropane	0.9	ND	µg/kg
Bromochloromethane	0.9	ND	µg/kg	2,2-Dichloropropane	0.9	ND	µg/kg
Bromodichloromethane	0.9	ND	µg/kg	1,1-Dichloropropene	0.9	ND	µg/kg
Bromoform	0.9	ND	µg/kg	cis-1,3-Dichloropropene	0.9	ND	µg/kg
n-Butylbenzene	0.9	ND	µg/kg	trans-1,3-Dichloropropene	0.9	ND	µg/kg
sec-Butylbenzene	0.9	ND	µg/kg	Ethylbenzene	0.9	ND	µg/kg
t-Butylbenzene	0.9	ND	µg/kg	Hexachlorobutadiene	0.9	ND	µg/kg
Carbon Tetrachloride	0.9	ND	µg/kg	Isopropylbenzene	0.9	ND	µg/kg
Chlorobenzene	0.9	ND	µg/kg	p-Isopropyltoluene	0.9	ND	µg/kg
Chloroethane	0.9	ND	µg/kg	Naphthalene	1.8	ND	µg/kg
Chloroform	0.9	ND	µg/kg	n-Propylbenzene	0.9	ND	µg/kg
Chloromethane	0.9	ND	µg/kg	Styrene	0.9	ND	µg/kg
2-Chlorotoluene	0.9	ND	µg/kg	1,1,1,2-Tetrachloroethane	0.9	ND	µg/kg
4-Chlorotoluene	0.9	ND	µg/kg	1,1,2,2-Tetrachloroethane	0.9	ND	µg/kg
Dibromochloromethane	0.9	ND	µg/kg	Tetrachloroethene	0.9	ND	µg/kg
1,2-Dibromo-3-chloropropane	0.9	ND	µg/kg	Toluene	0.9	ND	µg/kg
1,2-Dibromoethane	0.9	ND	µg/kg	1,2,3-Trichlorobenzene	0.9	ND	µg/kg
Dibromomethane	0.9	ND	µg/kg	1,2,4-Trichlorobenzene	0.9	ND	µg/kg
1,2-Dichlorobenzene	0.9	ND	µg/kg	1,1,1-Trichloroethane	0.9	ND	µg/kg
1,3-Dichlorobenzene	0.9	ND	µg/kg	1,1,2-Trichloroethane	0.9	ND	µg/kg
1,4-Dichlorobenzene	0.9	ND	µg/kg	Trichloroethene	0.9	ND	µg/kg
Dichlorodifluoromethane	0.9	ND	µg/kg	Trichlorofluoromethane	0.9	ND	µg/kg
1,1-Dichloroethane	0.9	ND	µg/kg	1,2,3-Trichloropropane	0.9	ND	µg/kg
1,2-Dichloroethane	0.9	ND	µg/kg	1,2,4-Trimethylbenzene	1.8	ND	µg/kg
1,1-Dichloroethene	0.9	ND	µg/kg	1,3,5-Trimethylbenzene	0.9	ND	µg/kg
cis-1,2-Dichloroethene	0.9	ND	µg/kg	Vinyl Chloride	1.8	ND	µg/kg
trans-1,2-Dichloroethene	0.9	ND	µg/kg	m&p-Xylene	0.9	ND	µg/kg
Dichloromethane	0.9	1.1 B	µg/kg	o-Xylene	1.8	ND	µg/kg
				Diisopropyl Ether	0.9	ND	µg/kg
				MTBE	1.8	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

CWEL 5707 Schofield Ave. • Schofield, Wisconsin 54476 • (715) 355-7988 • FAX (715) 355-4199

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Company Name: Central Wis Engineers

Project No.: 1045925D

Project Name: Marshall Site

Sampler: Carole Eldridge

No.: 1335

CWEL Batch No. 9407035

Bottle Size/Preservative: 100mL None; 100mL MeOH; 125mL None

ANALYSIS REQUESTED: VOC 8021; WI DRO; WI GRO; TOTAL Lead

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	ANALYSIS REQUESTED										Remarks	Lab Use Only ID Number
7/21/94	10:05	(TB)MW1-5 12.5-14.5	2	1	1				4	S	✓	✓	✓	✓								00903
7/21/94	10:25	(TB)MW1-7 18-20	2	1	1				4	S	✓	✓	✓	✓								38

COMMENTS/SPECIAL INSTRUCTIONS:

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

Results To: Central Wis Engineers, 5707 Schofield Ave, Schofield, WI 54476

Attention: George O. Peterson

Phone: 715 359-9400 Fax:

Billing Address: Same

Attention:

Phone: Fax:

To Be Completed by Client ☐ RUSH (approved by lab)

Packed By:

Sealed For Shipping By: Seal #

Quotation#:

Purchase Order #:

CUSTODY TRANSFERS

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1. Carole Eldridge	7/22/94	8:11			
2.					

Received for Laboratory: [signature] 7/22/94 8:35

Shipping Details - To Be Completed by CWEL

Seal Intact Upon Receipt by Laboratory ☐ Yes ☐ No ☑ NA

Method of Shipment: ☑ Hand Del. ☐ UPS ☐ FEDEX ☐

Contents Temperature: ☑ On Ice ☐ ____ °C Refrig. # WI 1

Date Received: 7/22/94

Date Due: 7 wks

CENTRAL WISCONSIN ENVIRO LAB, INC.

To: Central Wisconsin Engineers, Inc.
5707 Schofield Avenue
Schofield, WI 54476
Attn: George Peterson
Phone: 715-359-9400

Date: March 6, 1995

MAR 7 1995

Wisconsin Certification No. 737125510

PROJECT: Marschall Site

LAB BATCH ID: 9502025

PROJECT NUMBER: 10459200

METHODOLOGIES:

GRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-140 93 REV.

DRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-141 93 REV.

Volatile organics were determined by modified EPA Method 8260 using GC-MS.

REMARKS:

CENTRAL WISCONSIN ENVIRO LAB, INC.

David L. Schumacher
Lab Director

Date: 3-6-95

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-1 3-5'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007682
Project:	Marschall Site	Reviewed By:	DCJ
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	5.3	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	12.5	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-1 3-5'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007682
Project:	Marschall Site	**Date Analyzed:**	02/28/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	100	ND	µg/kg	1,2-Dichloropropane	100	ND	µg/kg
Bromobenzene	100	ND	µg/kg	1,3-Dichloropropane	100	ND	µg/kg
Bromochloromethane	100	ND	µg/kg	2,2-Dichloropropane	100	ND	µg/kg
Bromodichloromethane	100	ND	µg/kg	1,1-Dichloropropene	100	ND	µg/kg
Bromoform	100	ND	µg/kg	cis-1,3-Dichloropropene	100	ND	µg/kg
n-Butylbenzene	100	ND	µg/kg	trans-1,3-Dichloropropene	100	ND	µg/kg
sec-Butylbenzene	100	ND	µg/kg	Ethylbenzene	100	ND	µg/kg
t-Butylbenzene	100	ND	µg/kg	Hexachlorobutadiene	100	ND	µg/kg
Carbon Tetrachloride	100	ND	µg/kg	Isopropylbenzene	100	ND	µg/kg
Chlorobenzene	100	ND	µg/kg	p-Isopropyltoluene	100	ND	µg/kg
Chloroethane	100	ND	µg/kg	Naphthalene	200	ND	µg/kg
Chloroform	100	ND	µg/kg	n-Propylbenzene	100	ND	µg/kg
Chloromethane	100	ND	µg/kg	Styrene	100	ND	µg/kg
2-Chlorotoluene	100	ND	µg/kg	1,1,1,2-Tetrachloroethane	100	ND	µg/kg
4-Chlorotoluene	100	ND	µg/kg	1,1,2,2-Tetrachloroethane	100	ND	µg/kg
Dibromochloromethane	100	ND	µg/kg	Tetrachloroethene	100	6,160	µg/kg
1,2-Dibromo-3-chloropropane	100	ND	µg/kg	Toluene	100	ND	µg/kg
1,2-Dibromoethane	100	ND	µg/kg	1,2,3-Trichlorobenzene	100	ND	µg/kg
Dibromomethane	100	ND	µg/kg	1,2,4-Trichlorobenzene	100	ND	µg/kg
1,2-Dichlorobenzene	100	ND	µg/kg	1,1,1-Trichloroethane	100	ND	µg/kg
1,3-Dichlorobenzene	100	ND	µg/kg	1,1,2-Trichloroethane	100	ND	µg/kg
1,4-Dichlorobenzene	100	ND	µg/kg	Trichloroethene	100	ND	µg/kg
Dichlorodifluoromethane	100	ND	µg/kg	Trichlorofluoromethane	100	ND	µg/kg
1,1-Dichloroethane	100	ND	µg/kg	1,2,3-Trichloropropane	100	ND	µg/kg
1,2-Dichloroethane	100	ND	µg/kg	1,2,4-Trimethylbenzene	200	ND	µg/kg
1,1-Dichloroethene	100	ND	µg/kg	1,3,5-Trimethylbenzene	100	ND	µg/kg
cis-1,2-Dichloroethene	100	ND	µg/kg	Vinyl Chloride	100	ND	µg/kg
trans-1,2-Dichloroethene	100	ND	µg/kg	m&p-Xylene	100	ND	µg/kg
Dichloromethane	100	ND	µg/kg	o-Xylene	100	ND	µg/kg
				Diisopropyl Ether	100	ND	µg/kg
				MTBE	100	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-7 15-17'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007683
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	51.2	mg/kg	5	02/23/95
78919	Diesel Range Organics (DRO)	10	17.8	mg/kg	1,3,5	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-7 15-17'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007683
Project:	Marschall Site	**Date Analyzed:**	02/23/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	10.0	ND	µg/kg	1,2-Dichloropropane	10.0	ND	µg/kg
Bromobenzene	10.0	ND	µg/kg	1,3-Dichloropropane	10.0	ND	µg/kg
Bromochloromethane	10.0	ND	µg/kg	2,2-Dichloropropane	10.0	ND	µg/kg
Bromodichloromethane	10.0	ND	µg/kg	1,1-Dichloropropene	10.0	ND	µg/kg
Bromoform	10.0	ND	µg/kg	cis-1,3-Dichloropropene	10.0	ND	µg/kg
n-Butylbenzene	10.0	ND	µg/kg	trans-1,3-Dichloropropene	10.0	ND	µg/kg
sec-Butylbenzene	10.0	15.0	µg/kg	Ethylbenzene	10.0	ND	µg/kg
t-Butylbenzene	10.0	ND	µg/kg	Hexachlorobutadiene	10.0	ND	µg/kg
Carbon Tetrachloride	10.0	ND	µg/kg	Isopropylbenzene	10.0	18.7	µg/kg
Chlorobenzene	10.0	ND	µg/kg	p-Isopropyltoluene	10.0	ND	µg/kg
Chloroethane	10.0	ND	µg/kg	Naphthalene	20.0	ND	µg/kg
Chloroform	10.0	ND	µg/kg	n-Propylbenzene	10.0	ND	µg/kg
Chloromethane	10.0	ND	µg/kg	Styrene	10.0	ND	µg/kg
2-Chlorotoluene	10.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	10.0	ND	µg/kg
4-Chlorotoluene	10.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	10.0	ND	µg/kg
Dibromochloromethane	10.0	ND	µg/kg	Tetrachloroethene	10.0	220	µg/kg
1,2-Dibromo-3-chloropropane	10.0	ND	µg/kg	Toluene	10.0	ND	µg/kg
1,2-Dibromoethane	10.0	ND	µg/kg	1,2,3-Trichlorobenzene	10.0	ND	µg/kg
Dibromomethane	10.0	ND	µg/kg	1,2,4-Trichlorobenzene	10.0	ND	µg/kg
1,2-Dichlorobenzene	10.0	ND	µg/kg	1,1,1-Trichloroethane	10.0	ND	µg/kg
1,3-Dichlorobenzene	10.0	ND	µg/kg	1,1,2-Trichloroethane	10.0	ND	µg/kg
1,4-Dichlorobenzene	10.0	ND	µg/kg	Trichloroethene	10.0	ND	µg/kg
Dichlorodifluoromethane	10.0	ND	µg/kg	Trichlorofluoromethane	10.0	ND	µg/kg
1,1-Dichloroethane	10.0	ND	µg/kg	1,2,3-Trichloropropane	10.0	ND	µg/kg
1,2-Dichloroethane	10.0	ND	µg/kg	1,2,4-Trimethylbenzene	20.0	50.3	µg/kg
1,1-Dichloroethene	10.0	ND	µg/kg	1,3,5-Trimethylbenzene	10.0	20.4	µg/kg
cis-1,2-Dichloroethene	10.0	ND	µg/kg	Vinyl Chloride	10.0	ND	µg/kg
trans-1,2-Dichloroethene	10.0	ND	µg/kg	m&p-Xylene	10.0	ND	µg/kg
Dichloromethane	10.0	ND	µg/kg	o-Xylene	10.0	ND	µg/kg
				Diisopropyl Ether	10.0	ND	µg/kg
				MTBE	10.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-1 3-5'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007684
Project:	Marschall Site	Reviewed By:	DLS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	12.9	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	87.7	mg/kg	2,4,5	02/27/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-1 3-5'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007684
Project:	Marschall Site	**Date Analyzed:**	03/02/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	2,000	ND	µg/kg	1,2-Dichloropropane	2,000	ND	µg/kg
Bromobenzene	2,000	ND	µg/kg	1,3-Dichloropropane	2,000	ND	µg/kg
Bromochloromethane	2,000	ND	µg/kg	2,2-Dichloropropane	2,000	ND	µg/kg
Bromodichloromethane	2,000	ND	µg/kg	1,1-Dichloropropene	2,000	ND	µg/kg
Bromoform	2,000	ND	µg/kg	cis-1,3-Dichloropropene	2,000	ND	µg/kg
n-Butylbenzene	2,000	ND	µg/kg	trans-1,3-Dichloropropene	2,000	ND	µg/kg
sec-Butylbenzene	2,000	ND	µg/kg	Ethylbenzene	2,000	ND	µg/kg
t-Butylbenzene	2,000	ND	µg/kg	Hexachlorobutadiene	2,000	ND	µg/kg
Carbon Tetrachloride	2,000	ND	µg/kg	Isopropylbenzene	2,000	ND	µg/kg
Chlorobenzene	2,000	ND	µg/kg	p-Isopropyltoluene	2,000	ND	µg/kg
Chloroethane	2,000	ND	µg/kg	Naphthalene	4,000	ND	µg/kg
Chloroform	2,000	ND	µg/kg	n-Propylbenzene	2,000	ND	µg/kg
Chloromethane	2,000	ND	µg/kg	Styrene	2,000	ND	µg/kg
2-Chlorotoluene	2,000	ND	µg/kg	1,1,1,2-Tetrachloroethane	2,000	ND	µg/kg
4-Chlorotoluene	2,000	ND	µg/kg	1,1,2,2-Tetrachloroethane	2,000	ND	µg/kg
Dibromochloromethane	2,000	ND	µg/kg	Tetrachloroethene	2,000	72,100	µg/kg
1,2-Dibromo-3-chloropropane	2,000	ND	µg/kg	Toluene	2,000	ND	µg/kg
1,2-Dibromoethane	2,000	ND	µg/kg	1,2,3-Trichlorobenzene	2,000	ND	µg/kg
Dibromomethane	2,000	ND	µg/kg	1,2,4-Trichlorobenzene	2,000	ND	µg/kg
1,2-Dichlorobenzene	2,000	ND	µg/kg	1,1,1-Trichloroethane	2,000	ND	µg/kg
1,3-Dichlorobenzene	2,000	ND	µg/kg	1,1,2-Trichloroethane	2,000	ND	µg/kg
1,4-Dichlorobenzene	2,000	ND	µg/kg	Trichloroethene	2,000	ND	µg/kg
Dichlorodifluoromethane	2,000	ND	µg/kg	Trichlorofluoromethane	2,000	ND	µg/kg
1,1-Dichloroethane	2,000	ND	µg/kg	1,2,3-Trichloropropane	2,000	ND	µg/kg
1,2-Dichloroethane	2,000	ND	µg/kg	1,2,4-Trimethylbenzene	4,000	ND	µg/kg
1,1-Dichloroethene	2,000	ND	µg/kg	1,3,5-Trimethylbenzene	2,000	ND	µg/kg
cis-1,2-Dichloroethene	2,000	ND	µg/kg	Vinyl Chloride	2,000	ND	µg/kg
trans-1,2-Dichloroethene	2,000	ND	µg/kg	m&p-Xylene	2,000	ND	µg/kg
Dichloromethane	2,000	ND	µg/kg	o-Xylene	2,000	ND	µg/kg
				Diisopropyl Ether	2,000	ND	µg/kg
				MTBE	2,000	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-7 15-17'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007685
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	9.0	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	16.6	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-7 15-17'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007685
Project:	Marschall Site	**Date Analyzed:**	03/03/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	10.7	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-2 10-12'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007686
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-2 10-12'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007686
Project:	Marschall Site	**Date Analyzed:**	03/04/95
Project #:	10459200	**Reviewed By:**	DC

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	7.6	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-3 14-15'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007687
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-3 14-15'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007687
Project:	Marschall Site	**Date Analyzed:**	03/04/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	4.8	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CWEL 5707 Schofield Ave. • Schofield, Wisconsin 54476 • (715) 355-7988 • FAX (715) 355-4199

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Company Name: Central Wis Engineers

Project No.: 10459200

Project Name: Marshall Site

Sampler: Carole Elbridge (B.B.)

No.: 1920

CWEL Batch No. 9502025

Bottle Size/Preservative: 40ml Amber; 40ml Other Amber; 40ml Amber

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	ANALYSIS REQUESTED: VOC (8021)	DRO	GRO									Remarks	Lab Use Only ID Number
2/20/95	925	TB1-1 3-5'	2	1	1				4	S	✓	✓	✓										807682
	1035	TB1-7 15-17'	2	1	1				4	S	✓	✓	✓										83
	1140	TB2-1 3-5'	2	1	1				4	S	✓	✓	✓										84
	1218	TB2-7 Dup 15-17	2	1	1				4	S	✓	✓	✓										85
	135	TB2-2 10-12'	2	1	1				4	S	✓	✓	✓										86
✓	150	TB3-3 14-15	2	1	1				4	S	✓	✓	✓										87

COMMENTS/SPECIAL INSTRUCTIONS:

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

Results To: CWE

Attention: George O. Peterson

Phone: _____ Fax: _____

Billing Address: Same

Attention: _____

Phone: _____ Fax: _____

To Be Completed by Client ☐ RUSH (approved by lab)

Packed By: _____

Sealed For Shipping By: _____ Seal # _____

Quotation#: _____

Purchase Order #: _____

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1	Carole Elbridge	2/20/95	330			
2.						

Received for Laboratory: [illegible] 2/20/95 3:42

Shipping Details - To Be Completed by CWEL

Seal Intact Upon Receipt by Laboratory: ☐ Yes ☐ No ☐ ~~NA~~

Method of Shipment: ☐ ~~Hand Del.~~ ☐ UPS ☐ FEDEX ☐ _____

Contents Temperature: ☐ ~~On Ice~~ ☐ _____ °C Refrig. # W1 1

Date Received: 2/20/95

Date Due: 2 wks

261-4134

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

(FOR DEPARTMENT USE ONLY)

Reviewers	Approval Signature for Closure	Date
Bill Dobbins*		
Archie Wilson		
Scott Watson		
Connie Antonuk		

* only on sites with wells within 1,200 feet

DNR PROJECT MANAGER: Richard Brown

CLOSURE PREPARED BY: George Peterson, Central Wisconsin Engineers DATE: April 26, 1995

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

Affliliation with responsible party: Environmental Consultant

Address: 5707 Schofield Avenue

City: Schofield State: WI Zip: 54476

Phone Number: 715–359–9400

GENERAL SITE INFORMATION:

Case/FID#/UID#: NCD UID # 697

Site Name: Sophie Marschall Property (Former Kraft Cleaners)

Address: 303 – 305 2nd Avenue

City: Wausau State: WI Zip: 54401

Legal Description: 1/4 SW , 1/4 SE , Sec 26 , Tn 29N , R 7 (E)

Tnshp/Vill/City: City of Wausau

County: Marathon

Site Contact: Mrs. Sophie Marschall

Address: 1127 East Wausau Avenue

City: Wausau State: WI Zip: 54401

Phone Number: 715–842–1106

Date of Incident: May 7, 1992 Date Reported: May 7, 1992

Contamination Type (General Description): Stoddard solvent and gasoline + TCE

GENERAL SITE INFORMATION (CONT'):

Amount Released: Unknown

Department Permits Closed Out? Yes ____ No ____ Not Applicable X

Enforcement Actions Closed Out? Yes ____ No ____ Not Applicable X

Geologic Setting (General Description) Brown fine to coarse sand with gravel to 15.0 – 17.5 feet over competent bedrock

Depth to Groundwater: Not known, refusal at bedrock with no groundwater.

Was Contamination Present In (Soils, Groundwater, Other) Before Remediation: Soils

DEGREE OF CONTAMINATION FOR SOILS

WAS SOIL CONTAMINATION PRESENT? YES X NO _____ (If no, continue to groundwater section)

Extent Defined (Yes, No): Yes

Analysis (Lab, Field, No Data): Lab and field data

(If no data available, please explain)

Number of Sample Points: 22 Number of sampling rounds: 3

Background Levels: No detect

Analysis Attached (Yes, No): Yes, see Appendices A, B, and C for lab results, see Tables 1, 2, and 3 for summary

Remedial Action Taken:

The tank closure site assessment indicated there were two areas that were impacted by petroleum products (see Appendix A for soil sample results). In September 1992, soils were overexcavated in the two areas (north trench area and south pit). Approximately 73 cubic feet of soil was removed and containerized in twelve (12) 55–gallon drums. Soil samples collected after excavation, indicated some residual soil contamination remained (see Appendix B for soil sample results). Four test borings were completed in 7/94 and 2/95 to further define the soil contamination (see Appendix C for soil sample results).

Excavated Soils

Final Disposal Method: Landfilling

Final Disposal Location: Tork Landfill, Wisconsin Rapids, Wisconsin

Soil Disposal Form Completed : Yes X, No _____(See Appendix D)

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 6/92	Highest Field Data Sample Date 6/92	Post Remediation Sample Date 2/95	Applicable Standards	Detection Limits
North Trench Area					
GRO	20 ppm		51.2 ppm	100 ppm	5 ppm
DRO	0 ppm	15 pm*	17.8 ppm	100 ppm	10 ppm
1,2,4 – TMB	NA		50.3 ppm	NA	20 ppb
1,3,5 – TMB	NA		20.4 ppm	NA	10 ppb
Tetrachloroethene	NA		6120, 72100 ppm**	NA	10 ppb
South Pit					
GRO	0 ppm		ND	100 ppm	5 ppm
DRO	35 ppm	1 ppm*	ND	100 ppm	10 ppm
Tetrachloroethene	NA		7.6 ppm	NA	1 ppb

Comments:

* = as isobutylene

** = see laboratory data sheets for sample depths

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 – See Figure 1 and Figure 2
Cross–section Map, If Applicable – Not Applicable
Map of Public/Private Wells Within 1,200 Foot Radius – Not Applicable, the area is on municipal sewer and water

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

Tank removals were initiated on May 7, 1992. A 200 gallon gasoline tank was removed. A large tank with an unknown liquid was found. Further work was halted until the liquid was identifed. A sample of the tank contents was collected on May 26, 1992. The contents were identified as stoddard solvent, a non–regulated petroleum distillate. Arrangements were made to pump out the contents of the tank.

Seven (7) tanks and all associated piping were removed on June 23–24, 1992. Fifteen (15) soil samples and two duplicates were collected for laboratory analyses (see Figure 2 for soil sample locations). Two of the soil samples had detections of petroleum products. One sample had 20 ppm of gasoline range organics (GRO) and another sample had 35 ppm of diesel range organics (DRO). It was proposed to overexcavate the two areas. Therefore, additional soils were removed from these two areas (north trench area and south pit) on September 23 – 24, 1992. A total of seventy–three (73) cubic feet were excavated and containerized in twelve (12) 55–gallon drums. These soils were disposed of at Tork Landfill, Wisconsin Rapids, WI. Three (3) soil samples and one duplicate were collected for laboratory analyses (see Figure 3 for soil sample locations). Levels of GRO ranged from BQL (below quantitation limit) to 29 ppm. It was noted in the lab report that a large percentage of the total GRO area was due to the presence of an unidentified compound which eluted between toluene and ethylbenzene. Levels of DRO ranged from 38 to 305 ppm.

Richard Brown of the WDNR sent a letter requesting the degree and extent of possible ground water contamination be determined. In July 1994, an attempt was made to install ground water monitoring wells at the site. Monitoring well MW–1 was placed upgradient on the adjacent property. This boring was drilled to 23 feet at which point we had refusal.

Narrative Summary cont.

From the surface to 18 feet we had unconsolidated material, 18 to 23 feet was weathered bedrock. No ground water was encountered above the refusal depth, 23 feet. Pursuant to the conditions found, we proposed to the Department to do three more borings to refusal, in the areas of concern. Wells would be set if ground water was encountered. If not, the borings would be abandoned. Approval to proceed in this manner was obtained.

Therefore, three more borings were done. Two in the former tank and trench area and one at the "south pit". The initial boring was noted as TB (MW–1) in all data. The second set of borings were labelled as TB–1, TB–2 and TB–3 (see Figure 4 for test boring locations). Two soil samples were collected from each boring and analyzed for GRO, DRO and VOC (Method 8021). One sample was collected from a depth having a potential of being contaminated based upon physical observations. The second was taken just above the refusal depth.

Soil samples from TB (MW–1) were collected at 12.5 to 14.5 feet and 18 to 20 feet below ground surface. Both of the samples detected no contamination based on the parameters run, which was as expected as this boring was upgradient of the property.

At TB–1 soil samples were collected at 3 to 5 feet and 15 to 17 feet. The upper sample was collected from a depth just below the floor slab of the former building. This location was what appeared to be a trench in the floor slab. Becaused no one remembers the building details, we are assuming this trench contained piping runs. Dry cleaning solvents contain petroleum based compounds, therefore, GRO and DRO analyses were run. GROs were detected at 5.3 and 51.2 ppm at the upper and lower samples respectively. DRO values were 12.5 and 17.8 ppm. The upper sample had a tetrachloroethene concentration of 6,160 ppb. The lower sample had concentrations of tetrachloroethene of 220 ppb among some other non–regulated compounds.

In TB–2, samples were collected 3 to 5 feet and 15 to 17 feet below ground surface. GRO concentrations were 12.9 and 9 ppm respectively and DRO were 87.7 and 16.6 ppm. The only VOCs detected were tetrachloroethene at 72,100 and 10.7 ppb respectively.

TB–3 had detects of tetrachloroethene at 7.6 ppb at 10 to 12 feet and 4.8 ppb at 14 to 16 feet.

All GRO and DRO values were below the soil cleanup standard of 100 ppm. The VOCs found are all unregulated compounds in soil. The compound of concern is tetrachloroethene. The significant contamination from this compound was found near the surface. It decreases drastically with depth. The concentration immediately under the former building floor slab at TB–1 and TB–2 was 6,160 and 72,100 ppb. However, at refusal, 17.5 feet these values had decreased to 220 ppb and 10.7 ppb, respectively. This points to the fact that the contamination is not migrating downward. It must also be considered that the dry cleaning businesses from which this contamination originated ceased operation in the late 1960's or early 1970's. Therefore, the compounds detected have had 25 to 30 years to age and biodegrade. Because of this, the compounds are not anticipated to be mobile and are well aged and in all likelihood are being broken down by biological action at this time.

It is our recommendation that no further action be taken at this time. We base this upon the following physical factors:

1. The contaminants present are currently unregulated.

2. The contaminants have not migrated to depth.

3. The contaminants are well aged, having been released a minimum of 25 years ago.

4. This is a commercialized area, therefore, future disturbance of the area is unlikely.

5. There was no ground water encountered above the bedrock.

The final consideration is financial. Mrs. Marschall has exhausted her personal finances as well as any possible sources associated with previous property owners that operated the dry cleaning business prior to her late husband's purchase of the property. This parcel is not eligible for any known funding programs to assist Mrs. Marschall in the clean–up. Therefore, we feel that the best solution would be to close–out this project with conditions. The condition would be that a deed restriction be placed on the parcel, requiring that if the area where TB–1 and TB–2 were placed, was excavated, the soils in that area be sampled and analyzed for VOCs. If the contamination found at that time exceeds the soils standards, appropriate steps be taken to ensure proper soil treatment/disposal.

Table 1

Soil Chemistry in mg/kg or parts per million

Figure 2 #	Sample Location	Depth in Feet	GRO	DRO
1	south end tank 1(A)	7	ND	ND
2	south end tank 1(B)	7	ND	ND
3	north end tank 1	8	ND	ND
4	bottom tank 2	10	ND	ND
5	bottom tank 3	10	ND	ND
6	east end of piping run (tank 3)	1.5	20	ND
7	bottom tank 4	10	ND	ND
8	south corner fill pipe (tank 8)	3	ND	ND
9	union/pipe to storm sewer (tank 7)	2.5	ND	35
10	south end tank 5(A)	7	ND	ND
11	south end tank 5(B)	7	ND	ND
12	north end tank 5	7	ND	ND
13	south end tank 6	6	ND	ND
14	north end tank 6	6	ND	ND
15	bottom tank 7	6	ND	ND
16	north end tank 8	9	ND	ND
17	south end tank 8	9	ND	ND

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ND = Not Detected

NOTE: Figure 2 #'s do not correlate with the complete analytical report in Appendix D.

Sample #2 is a duplicate of #1; Sample #11 is a duplicate of #10

Table 2

Marschall Property
Soil - Laboratory Analysis
September 24, 1992

Analysis/ Compound	Sample -043	Sample -044	Sample -045	Sample -046	Sample -047	Sample -048
GRO ppm	22#	29#	21#	BQL #	BQL #	ND
DRO ppm	38	BQL	305	57	27	NA
(EPA Method 8021)						
Benzene	ND	ND	ND	ND	ND	ND
Ethylbenzene	12	ND	12	BQL	ND	ND
Toluene	8	ND	10	6	BQL	ND
o-Xylene	20	BQL	29	10	8	ND
m&p Xylene	42	BQL	47	20	14	ND
MTBE	ND	ND	ND	ND	ND	ND
1,2,4-TMB	ND	ND	10	BQL	BQL	ND
1,3,5-TMB	ND	ND	BQL	ND	ND	ND

All results listed as mg/kg which is equivalent to parts-per-billion (ppb) unless otherwise noted.

ND = Not Detected
NA = Not Applicable
BQL = Below Quantitation Limit
# = A large percentage of the total GRO area was due to the presence of an unidentified compound which eluted between toluene and ethylbenzene.

Sample Identification

Sample No.	Location	Sample Depth in Feet
9209-043	East end of north trench	2.5'
9209-044	Excavated soil - north trench	---
9209-045	West end of north trench	2.5'
9209-046	South pit	4.5'
9209-047	#40 - duplicate sample of 9209-046	4.5'
9209-048	Trip Blank	---

TABLE 3
SOIL CHEMISTRY – LABORATORY
Marschall Property, Wausau, WI
CWE Project #10459250

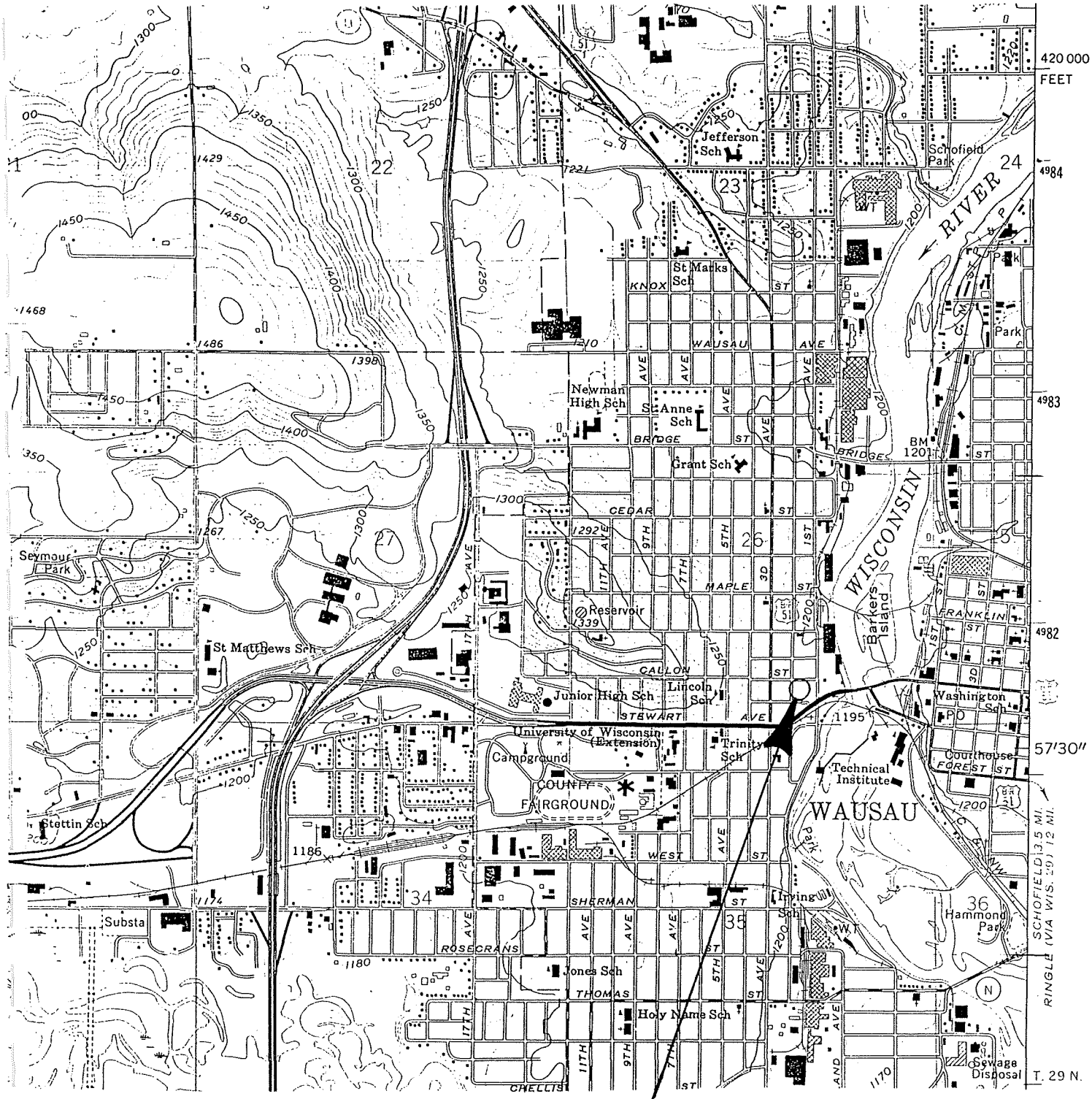
Sample Location		TB(MW1)	TB(MW1)					
Sample I.D.		1–5	1–7					
Sample Depth (ft.)		12.5–14.5	18–20					
Sample Date		7/21/94	7/21/94					
ORGANICS (TPH)	PQL[1]							
GRO	5	N	N					
DRO	10	N	N					
ORGANICS (VOC)	PQL[1]							
Benzene	0.1	N	N					
Ethylbenzene	0.2	N	N					
Toluene	0.3	N	N					
o Xylene	0.2	N	N					
m&p Xylenes	0.2	N	N					
Total xylenes	0.2	N	N					
MTBE	0.3	N	N					
1,2,4–TMB	0.2	N	N					
1,3,5–TMB	0.2	N	N					
Dichloromethane	0.9	N	1.1 B					
METALS	PQL[1]							
Lead	6	1.34	2.38					

Sample Location		TB1	TB1	TB2	TB2	TB3	TB3	
Sample I.D.		1–1	1–7	2–1	2–7	3–2	3–3	
Sample Depth (ft.)		3–5	15–17	3–5	15–17	10–12	14–15	
Sample Date		2/20/95	2/20/95	2/20/95	2/20/95	2/20/95	2/20/95	
ORGANICS (TPH)	PQL[1]							
GRO	5	5.3	51.2	12.9	9	N	N	
DRO	5	12.5	17.8	87.7	16.6	N	N	
ORGANICS (VOC) PPD	PQL[1]							
Benzene	0.1	N	N	N	N	N	N	
Ethylbenzene	0.2	N	N	N	N	N	N	
Toluene	0.3	N	N	N	N	N	N	
o Xylene	0.2	N	N	N	N	N	N	
m&p Xylenes	0.2	N	N	N	N	N	N	
Total xylenes	0.2	N	N	N	N	N	N	
MTBE	0.3	N	N	N	N	N	N	
1,2,4–TMB	0.2	N	50.3	N	N	N	N	
1,3,5–TMB	0.2	N	20.4	N	N	N	N	
Tetrachloroethene		6,160	220	72,100	10.7	7.6	4.8	
Isopropylbenzene		N	18.7	N	N	N	N	
sec–butylbenzene		N	15	N	N	N	N	

All results listed as μg/g, which is equivalent to parts per million (ppm) unless otherwise stated.
[1]Listed values are commonly reported minimum PQLs, actual values may vary.

L = Low–range PVOC analysis performed, detection limits are approximately 10 times lower than listed.
-- = Not Analyzed
TPH = Total Petroleum Hydrocarbons
VOC = Volatile Organic Compounds
MTBE = Methyl–t–butyl ether
TMB = Trimethylbenzene
N = Not detected

f:\95–03\lotus\marschal



SITE LOCATION

WAUSAU WEST, WIS.
NW/4 WAUSAU 15' QUADRANGLE
N4452.5—W8937.5/7.5

1963
PHOTOREVISED 1978
AMS 3073 I NW—SERIES V861

FIGURE 1
SITE LOCATION

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200
MARSCHALL PROPERTY

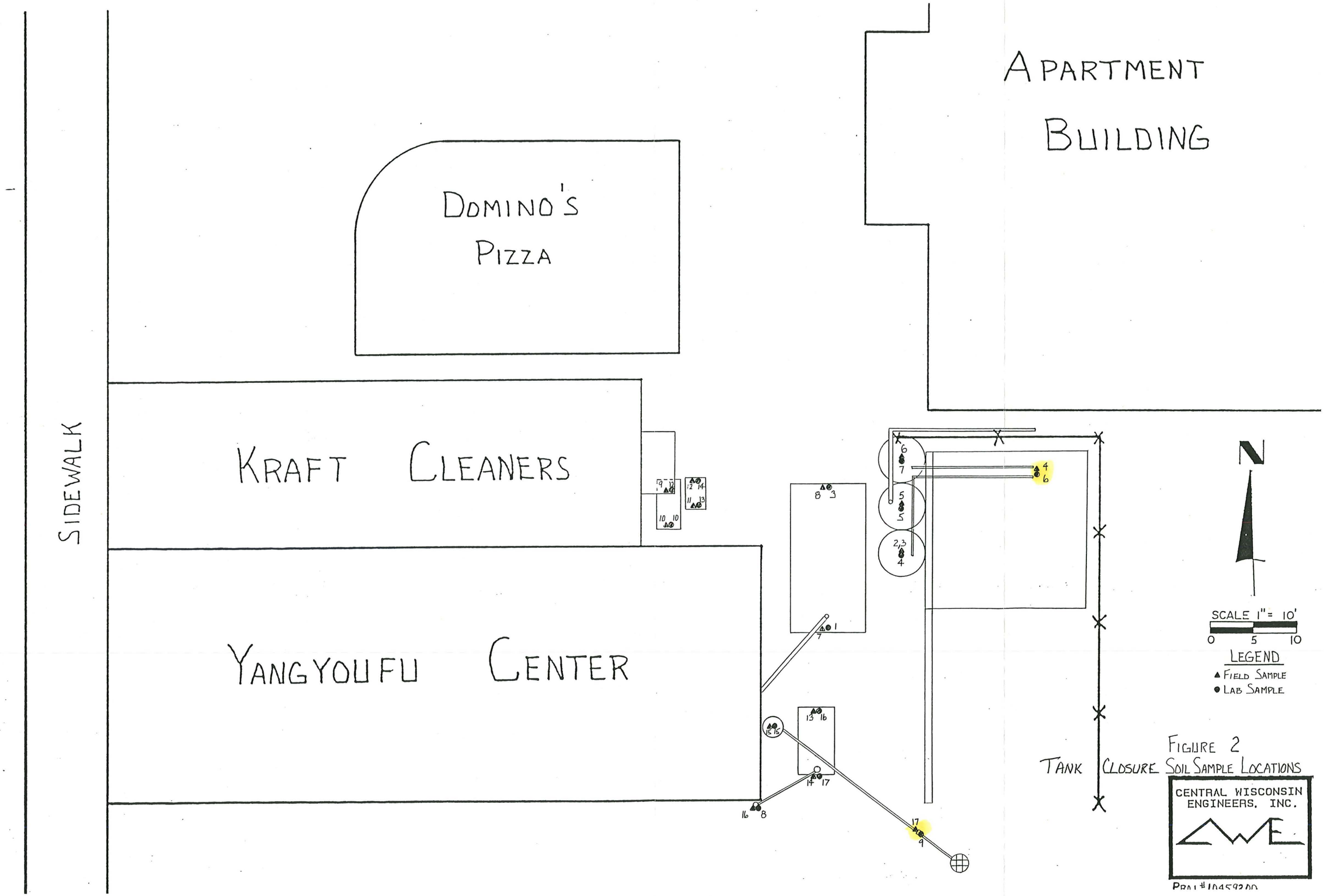
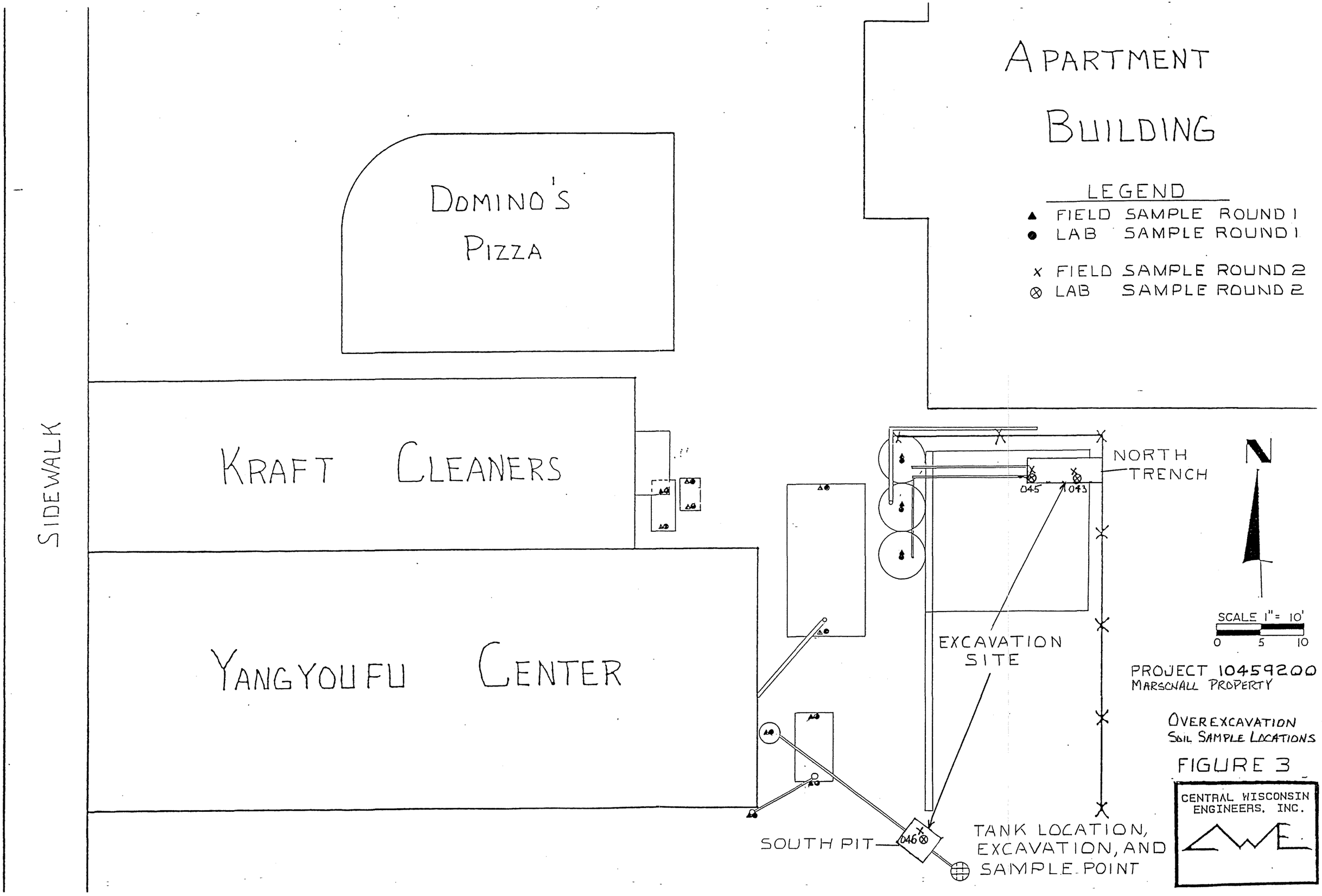


FIGURE 2
CLOSURE SOIL SAMPLE LOCATIONS

PROJ #104592.00


APARTMENT BUILDING
LEGEND
▲ FIELD SAMPLE ROUND 1
● LAB SAMPLE ROUND 1
x FIELD SAMPLE ROUND 2
⊗ LAB SAMPLE ROUND 2
DOMINO'S PIZZA
KRAFT CLEANERS
YANGYOUFU CENTER
SIDEWALK
NORTH TRENCH
045
043
EXCAVATION SITE
SOUTH PIT
046
TANK LOCATION, EXCAVATION, AND SAMPLE POINT
N
SCALE 1" = 10'
0 5 10
PROJECT 10459200
MARSCHALL PROPERTY
OVEREXCAVATION SOIL SAMPLE LOCATIONS
FIGURE 3
CENTRAL WISCONSIN ENGINEERS, INC.

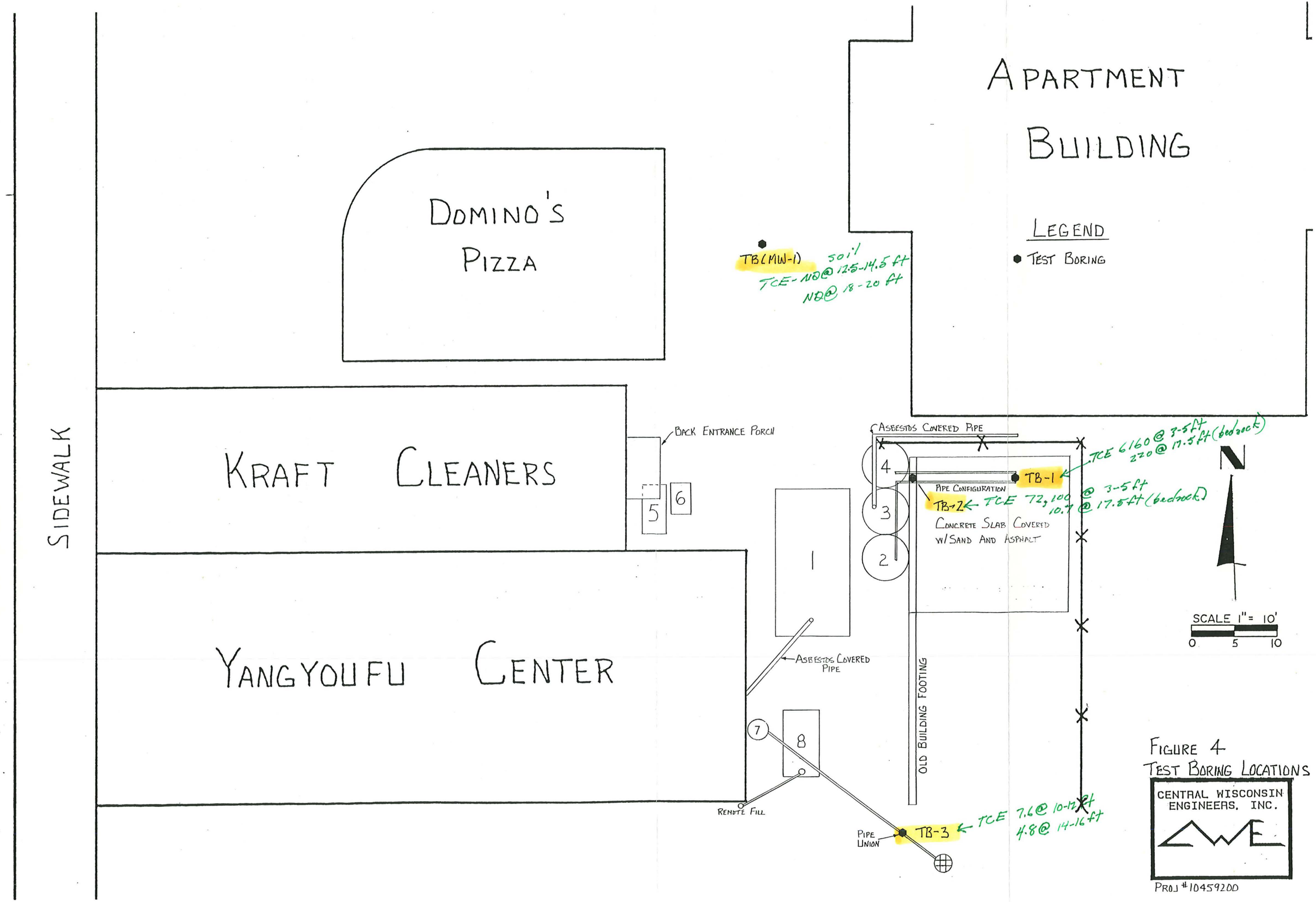


FIGURE 4
TEST BORING LOCATIONS

APPENDIX A

TANK CLOSURE SITE ASSESSMENT

SOIL SAMPLE ANALYTICAL RESULTS

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

Client: CENTRAL WISCONSIN ENGINEERS Lab Sample No. 126840-126857
903 GRAND AVENUE ORTEK Batch No. 9206194
ROTHSCHILD WI 54474

Client Contact: CAROLE ELDREDGE
Client ID #: SEE CHAIN OF CUSTODY
Client Project: 104592000/S MARSCHALL

07/10/92

==========

1.0 SCOPE OF ANALYTICAL SERVICES

1.1 Eighteen (18) soil samples were received at ORTEK on 06/26/92.

1.2 The eighteen (18) soil samples were analyzed in accordance with Method 160.3 and Wisconsin Modified Method for GRO and DRO.

2.0 ANALYTICAL RESULTS

2.1 Based on the analytical services performed, attached is a summary of the Organics and Wet Chemistry Data and a Chain of Custody for your records.

James Chang, Ph.D
Laboratory Director

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH END TANK 1A
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126840
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126840
Your Sample ID: S END TANK 1A
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:20 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126840	Total Solids	96.0	%	06/30/92

Signed: [signature] Date: 7-7-92

Signed: _____ Date: _____

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH END TANK 1B
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126841
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126841
Your Sample ID: S END TANK 1B
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:25 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126841	Total Solids	97.0	%	06/30/92

Signed: [signature] Date: 7-7-92

Signed: _____ Date: _____

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2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTH END TANK 1
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126842
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126842
Your Sample ID: N END TANK 1
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:35 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126842	Total Solids	96.0	%	06/30/92

Signed: [signature] Date: 7-7-92

Signed: _____ Date: _____

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 2
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.1	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126843
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 2
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126843
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D- [illegible] Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126843
Your sample ID: BOTTOM TANK 2
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 10:30 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126843	Total Solids	94.0	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126844
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126844
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D-[illegible] Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435, Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126844
Your sample ID: BOTTOM TANK 3
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 12:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126844	Total Solids	94.5	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: END OF PIPING (EAST) TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.9	20

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126845
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: END OF PIPING (EAST) TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.9	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126845
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435, Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126845
Your sample ID: END/EAST TANK 3
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 12:20 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126845	Total Solids	96.7	%	06/30/92

Signed Paul Scott Date 7-7-92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 4
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126846
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 4
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126846
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435, Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126846
Your sample ID: BOTTOM TANK 4
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 14:35 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126846	Total Solids	95.9	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH CORNER PIPE
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126847
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH CORNER PIPE
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.4	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126847
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126853
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.8	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126853
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126853
Your sample ID: N END TANK 6
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 09:07 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126853	Total Solids	94.7	%	06/30/92

Signed _____ Date 7/9/92
--
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TANK 7
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126854
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. Kohl Date: 7-7-92

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ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TANK 7
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126854
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126854
Your sample ID: TANK 7
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 14:15 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126854	Total Solids	95.2	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126855
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126855
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126855
Your sample ID: N END TANK 8
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 13:45 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126855	Total Solids	96.3	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126856
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: D-[illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126856
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126856
Your sample ID: S END TANK 8
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 14:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126856	Total Solids	97.4	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

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414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TRIP BLANK
Sample Desc: METHANOL
Date Collected:
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/L
Gasoline	5.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9206194 - 126857
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.4	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126852
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.5	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126852
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126852
Your sample ID: S END TANK 6
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 09:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126852	Total Solids	94.5	%	06/30/92

Signed _____ Date 7/9/92
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: UNION PIPE TO SEWER
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126848
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: UNION PIPE TO SEWER
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.1	35

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126848
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street · P.O. Box 12435 · Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126848
Your sample ID: UNION PIPE
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 17:03 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126848	Total Solids	91.3	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5A
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9206194 - 126849
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5A
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.8	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126849
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126849
Your sample ID: S END TANK 5A
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:45 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126849	Total Solids	94.7	%	06/30/92

Signed _____ Date 7/8/92
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5B
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.1	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126850
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5B
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126850
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126850
Your sample ID: S END TANK 5B
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:48 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126850	Total Solids	95.3	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 5
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.7	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126851
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D-[illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 5
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126851
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126851
Your sample ID: N END TANK 5
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:35 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126851	Total Solids	96.4	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

No.: 5421

Company Name: Central Wis Engineers

Project No./Client 10459200 / S. Marshall

Sampling Location: Wausau

Sampler Carole Eldredge

Bottle Size/Preservative: 40ml meoH, 250ml Amber, 1 liter Amber

ORTEK Batch No. 9206197

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	WI Mod GRO	WI mod DRO	Dry WT								Remarks	Lab Use Only ID Number
6/24/92	8:45	South End Tank 5 A	1	1	1				3	S	✓	✓	✓									126849
6/24/92	8:48	South End Tank 5 B	1	1	1				3	"	✓	✓	✓									126850
6/24/92	8:55	North End Tank 5	1	1	1				3	"	✓	✓	✓									126851
6/24/92	9:00	South End Tank 6	1	1	1				3	"	✓	✓	✓									126852
6/24/92	9:07	North End Tank 6	1	1	1				3	"	✓	✓	✓									126853
6/24/92	2:15	Tank 7	1	1	1				3	"	✓	✓	✓									126854
6/24/92	1:45	North End Tank 8	1	1	1				3	"	✓	✓	✓									126855
6/24/92	2:00	South End Tank 8	1	1	1				3	"	✓	✓	✓									126856
		Trip Blk							1		✓											126857

COMMENTS/SPECIAL INSTRUCTIONS:

Trip Blk added to C.O.C. A.S.

☐ If Pb > 5ppm do TCLP

*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 _____

Date Received: 6/26/92

Date Due: 7/8/92 ☐RUSH (approved by lab)

Quotation #: _____

Purchase Order #: _____

Results To: Central Wis Engineers, 903 Grand Ave, Rothschild, WI 54474

Attention: Carole Eldredge

Billing Address: Same

Phone: _____ FAX _____

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By: Carole Eldredge

Sealed For Shipping By: C Eldredge Seal # _____

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	Carole Eldredge	6/25/92	9:30	Ron Wilson	6/25/92	1630
2.						

Received for Laboratory: Pam Quoi 7/10/92 — Arlene Schafer 6/26/92 09:35

Shipping Details - To Be Completed By ORTEK

Seal Intact Upon Receipt by Laboratory ☐Yes ☐No

Method of Shipment: Courier

Contents Temperature 0.6 °C Refrig. # C 02 M2

ORTEK 2496 West Mason Street, Green Bay, WI 54307-2435, (414) 498-2222

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

No.: 5420

Company Name: Central Wis Engineers

Project No./Client 104542000 / S. Marschall

Sampling Location: Wausau

Sampler Carole Eldredge

ORTEK Batch No. 126194

Date	Time	Sample I.D./Description	No. of Bottles (Bottle Size/Preservative: 40ml Meoh, 4oz Clear, 32oz Amber)						Total	*Sample Type	ANALYSIS REQUESTED: WI Mod GRO		WI Mod DRO								Remarks	Lab Use Only ID Number
6/23/92	5:20	South End Tank 1 A	1	1					2	S	✓		✓									126840
6/23/92	5:25	South End Tank 1 B	1	1					2	"	✓		✓									126841
6/23/92	5:35	North End Tank 1	1	1					2	"	✓		✓									126842
6/23/92	10:30	Bottom Tank 2	1	1	1				3	"	✓	✓	✓									126843
6/23/92	12:00	Bottom Tank 3	1	1	1				3	"	✓	✓	✓									126844
6/23/92	12:20	End of Piping (East) Tank 3	1	1	1				3	"	✓	✓	✓									126845
6/23/92	2:35	Bottom Tank 4	1	1	1				3	"	✓	✓	✓									126846
6/24/92	4:45	South Corner Pipe	1	1	1				3	"	✓	✓	✓									126847
6/24/92	5:03	Union Pipe to Sewer	1	1	1				3	"	✓	✓	✓									126848

COMMENTS/SPECIAL INSTRUCTIONS:

☐ If Pb > 5ppm do TCLP

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

Date Received: 6/26/92
Date Due: 7/8/92 ☐RUSH (approved by lab)
Quotation #:
Purchase Order #:

Results To: Central WI Engineers
903 Grand Ave
Rothschild, WI 54474
Attention: Carole Eldredge

Billing Address: Same

Phone: 715 359-9400 FAX

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By: Carole Eldredge

Sealed For Shipping By: Carole Eldredge Seal # _____

CUSTODY TRANSFERS

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1. Carole Eldredge	6/25/92	9:00 A			
2.					

Prog Mgr: 7/10/92

Received for Laboratory: Arlene Schafer 6/26/92 09:30

Shipping Details - To Be Completed By ORTEK

Seal Intact Upon Receipt by Laboratory ☐Yes ☐No

Method of Shipment: Courier

Contents Temperature 6.6 °C Refrig. # C 62 112

ORTEK
2496 West Mason Street
Green Bay, WI 54307-2435
(414) 498-2222

APPENDIX B

OVER EXCAVATION

SOIL SAMPLE ANALYTICAL RESULTS

CWEL, INC.
Central Wisconsin Enviro Lab, Inc.
P.O. Box 107
Schofield, Wisconsin 54476-0107

DATE: October 21, 1992
PROJECT: Marschall Site, #10459200
REPORTED TO: Central Wisconsin Engineers, Inc.
Attn: Carole Eldredge
903 Grand Avenue
Rothschild, WI 54474

Laboratory Certification Number: 737125510

INTRODUCTION:

This report presents the results of the analyses of five soil samples received on September 24, 1992 from a representative of Central Wisconsin Engineers. The samples were analyzed on October 19, 1992 for their DRO contents and on September 29-30, 1992 for their GRO and PVOC contents using gas chromatographic techniques.

SAMPLE IDENTIFICATION:

Marschall Site, Marschall?, WI - sampled by Carole Eldredge

METHODOLOGIES:

Petroleum hydrocarbon concentrations were determined based on the analytical procedures outlined in Wisconsin DNR LUST Analytical Guidance PUBL-SW-130 92REV (Modified DRO and GRO) and in SW 846 3rd Ed. Method 8020 (PVOC).

RESULTS:

The results are listed in Tables 1-2.

REMARKS:

According to a representative of Central Wisconsin Engineers, the samples were collected September 24, 1992. The PVOC analyses were performed via EPA Method 8020 (direct soil purge). However, the soil from this particular site reduced the purge efficiecy of the PVOC compounds. This was probably due to some adsorption-type of phenomenon between the PVOC compounds and the soil matrix. This problem is corrected for somewhat by the use of an internal standard for quantification. However, the purge efficiency is not constant over the boiling point range of the PVOC compounds (i.e., lower b.p. compounds had greater purge efficiencies than higher b.p. compounds) which results in a correction that is accurate primarily around the boiling point of the internal standard. Thus, the PVOC concentrations reported in Tables 1 and 2 are approximate values. The PVOC contents were also determined using the GRO methanol, but the PVOC concentrations were all below the corresponding PQL for this technique (1 ppm).

REMARKS: cont.

The GRO quantitation was influenced considerably (37-95% of the total GRO area for 4 of the 5 soil samples) by the presence of an unidentified compound which eluted between toluene and ethylbenzene. If necessary, a GC-MS analysis of one of the soil extracts would probably identify the compound. The compound was not observed in the Trip Blank sample and, therefore, is probably site specific.

The DRO extracts were very dark in color which suggests the soil might contain some humic-type organic matter. The DRO chromatographic "signature" (peak distribution) was identical for the West End of N. Trench, South Pit and #40 samples which suggests a similar contamination source.

CENTRAL WISCONSIN ENVIRO LAB, INC.

Gregory E. Mercer, Ph.D.
Laboratory Director

Table 1: Marschall Site PVOC/GRO and DRO soil analyses for samples EE of NT, Exc. Soil, and WE of NT (sampled 9/24/92).

ANALYSIS/ COMPOUND	PQL[*]	Sample #9209-043 (EE of NT)	Sample #9209-044 (Exc. Soil)	Sample #9209-045 (WE of NT)
GRO[2]	10 ppm	22 ppm[‡]	29 ppm	21 ppm[‡]
Benzene[1]	5 ppb	ND	ND	ND
Ethylbenzene[1]	5 ppb	12 ppb	ND	12 ppb
Toluene[1]	5 ppb	8 ppb	ND	10 ppb
O-Xylene[1]	5 ppb	20 ppb	BQL	29 ppb
M&P-Xylene[1]	10 ppb	42 ppb	BQL	47 ppb
MTBE[1]	50 ppb	ND	ND	ND
1,2,4-TMB[1]	5 ppb	ND	ND	10 ppb
1,3,5-TMB[1]	5 ppb	ND	ND	BQL
DRO[3]	10 ppm	38 ppm	BQL	305 ppm

[*] Practical Quantitation Limit
[1] Determined via SW-846 Method 8020 (Direct Soil Purge)
[2] Determined via Wisconsin DNR Modified GRO Method
[3] Determined via Wisconsin DNR Modified DRO Method

[‡] A large percentage of the total GRO area was due to the presence of an unidentified compound which eluted between toluene (b.p = 111°C) and ethylbenzene (b.p. = 136°C). (Need GC-MS to identify)
ND = Not Detected
BQL = Below Quantitation Limit

Signed: G. Mercer Date: 10/21/92

Table 2: Marschall Site PVOC/GRO and DRO soil analyses for samples South Pit, #40, and Trip Blank (sampled 9/24/92).

ANALYSIS/ COMPOUND	PQL*	Sample #9209-046 (South Pit)	Sample #9209-047 (#40)	Sample #9209-048 (Trip Blk)
GRO[2]	10 ppm	BQL[#]	BQL[#]	ND
Benzene[1]	5 ppb	ND	ND	ND
Ethylbenzene[1]	5 ppb	BQL	ND	ND
Toluene[1]	5 ppb	6 ppb	BQL	ND
O-Xylene[1]	5 ppb	10 ppb	8 ppb	ND
M&P-Xylene[1]	10 ppb	20 ppb	14 ppb	ND
MTBE[1]	50 ppb	ND	ND	ND
1,2,4-TMB[1]	5 ppb	BQL	BQL	ND
1,3,5-TMB[1]	5 ppb	ND	ND	ND
DRO[3]	10 ppm	57 ppm	27 ppm	NA

* Practical Quantitation Limit
[1] Determined via SW-846 Method 8020 (Direct Soil Purge)
[2] Determined via Wisconsin DNR Modified GRO Method
[3] Determined via Wisconsin DNR Modified DRO Method

[#] A large percentage of the total GRO area was due to the presence of an unidentified compound which eluted between toluene (b.p = 111°C) and ethylbenzene (b.p. = 136°C).
ND = Not Detected
BQL = Below Quantitation Limit

Signed: D. Meier Date: 10/21/92

CWEL CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

No.: 0143

CWEL Batch No. 099212

Company Name: Central Wis Engineers

Project No./Client 104592000 / Marschell

Sampling Location: Marschell Site

Sampler Carole Elbredge

Bottle Size/Preservative: 1 Wide Mouth Amber 1 Wide Mouth Amber

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	WI MOD 6200	WI MOD DRO	PVOC - EPA 8020								Remarks	Lab Use Only ID Number
9/24/12	940	(1) East End of North Trench	1	1	1					S	✓	✓	✓								OK PB (1) PVOC soils in Ziplock	9209-043
9/24/12	1005	(3) Excavated Soil Northend	1	1	1					S	✓	✓	✓								OK PB (1)	9209-L
9/24/12	955	(5) West End of North Trench	1	1	1					S	✓	✓	✓								OK PB (1)	9209-045
9/24/12	1030	(2) South Pit	1	1	1					S	✓	✓	✓								OK PB (1)	9209-046
9/24/12	1045	(5) #40	1	1	1					S	✓	✓	✓								OK PB (1)	9209-047
		Trip Blank	1						1	TB	✓		✓								OK PB 3	9209-048

COMMENTS/SPECIAL INSTRUCTIONS:

☐ If Pb > 5ppm do TCLP

*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

Date Received: 9/24

Date Due:

Quotation#:

Purchase Order#:

☐ RUSH (approved by lab)

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By:

Sealed For Shipping By: Seal #

Results To: Central Wis Engineers, 903 Grand Ave, Rothschild, WI 54474

Attention: Carole Elbredge

Billing Address: Same

Phone: 715 359-9400 FAX

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	Carole Elbredge	9/24/12	2:00 p	Paul J Bratz	9/24	2:00 PM
2.						

Received for Laboratory:

Shipping Details - To Be Completed by CWEL

Seal Intact Upon Receipt by Laboratory: ☐ Yes ☒ No HAND DEL

Method of Shipment: HAND DELIVERY

Contents Temperature ON ICE °C Refrig. # SAMP REF #1

CWEL P.O. Box 107, Schofield, WI 54476, (715) 359-9400

APPENDIX C

SOIL BORING ANALYTICAL RESULTS

CENTRAL WISCONSIN ENVIRO LAB, INC.

To: Central Wisconsin Engineers, Inc.
5707 Schofield Avenue
Schofield, WI 54476
Attn: George O. Peterson
Phone: 715-359-9400

Date: August 15, 1994

Wisconsin Certification No. 737125510

PROJECT: Marschall Site

LAB BATCH ID: 9407035

PROJECT NUMBER: 10459250

METHODOLOGIES:

GRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-140 93 REV.

DRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-141 93 REV.

Volatile organics were determined by modified EPA Method 8260 using GC-MS.

Total lead was determined by EPA Method 7000A using GFAA.

REMARKS:

AUG 15 1994

CENTRAL WISCONSIN ENVIRO LAB, INC.

David L. Schumacher
Lab Director

Date: 8-14-94

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW 1-5 12.5-14.5	Date Received:	7/22/94
Sample Matrix:	Soil	Lab Batch ID:	9407035
Date Collected:	7/21/94	Lab Sample ID:	005037
Project:	Marschall Site	Reviewed By:	DES
Project #:	10459250		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	7/29/94
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	7/28/94
	Extraction Date					7/25/94
7000A	Lead, Total		1.34	mg/kg		8/11/94

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW1-5 12.5-14.5	**Date Received:**	7/22/94
Sample Matrix:	Soil	**Lab Batch ID:**	9407035
Date Collected:	7/21/94	**Lab Sample ID:**	005037
Project:	Marschall Site	**Date Analyzed:**	7/25/94
Project #:	10459250	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	ND	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW 1-7 18-20	Date Received:	7/22/94
Sample Matrix:	Soil	Lab Batch ID:	9407035
Date Collected:	7/21/94	Lab Sample ID:	005038
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459250		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	7/29/94
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	7/28/94
	Extraction Date					7/25/94
7000A	Lead, Total		2.38	mg/kg		8/11/94

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	(TB) MW1-7 18-20	**Date Received:**	7/22/94
Sample Matrix:	Soil	**Lab Batch ID:**	9407035
Date Collected:	7/21/94	**Lab Sample ID:**	005038
Project:	Marschall Site	**Date Analyzed:**	7/25/94
Project #:	10459250	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	0.9	ND	µg/kg	1,2-Dichloropropane	0.9	ND	µg/kg
Bromobenzene	0.9	ND	µg/kg	1,3-Dichloropropane	0.9	ND	µg/kg
Bromochloromethane	0.9	ND	µg/kg	2,2-Dichloropropane	0.9	ND	µg/kg
Bromodichloromethane	0.9	ND	µg/kg	1,1-Dichloropropene	0.9	ND	µg/kg
Bromoform	0.9	ND	µg/kg	cis-1,3-Dichloropropene	0.9	ND	µg/kg
n-Butylbenzene	0.9	ND	µg/kg	trans-1,3-Dichloropropene	0.9	ND	µg/kg
sec-Butylbenzene	0.9	ND	µg/kg	Ethylbenzene	0.9	ND	µg/kg
t-Butylbenzene	0.9	ND	µg/kg	Hexachlorobutadiene	0.9	ND	µg/kg
Carbon Tetrachloride	0.9	ND	µg/kg	Isopropylbenzene	0.9	ND	µg/kg
Chlorobenzene	0.9	ND	µg/kg	p-Isopropyltoluene	0.9	ND	µg/kg
Chloroethane	0.9	ND	µg/kg	Naphthalene	1.8	ND	µg/kg
Chloroform	0.9	ND	µg/kg	n-Propylbenzene	0.9	ND	µg/kg
Chloromethane	0.9	ND	µg/kg	Styrene	0.9	ND	µg/kg
2-Chlorotoluene	0.9	ND	µg/kg	1,1,1,2-Tetrachloroethane	0.9	ND	µg/kg
4-Chlorotoluene	0.9	ND	µg/kg	1,1,2,2-Tetrachloroethane	0.9	ND	µg/kg
Dibromochloromethane	0.9	ND	µg/kg	Tetrachloroethene	0.9	ND	µg/kg
1,2-Dibromo-3-chloropropane	0.9	ND	µg/kg	Toluene	0.9	ND	µg/kg
1,2-Dibromoethane	0.9	ND	µg/kg	1,2,3-Trichlorobenzene	0.9	ND	µg/kg
Dibromomethane	0.9	ND	µg/kg	1,2,4-Trichlorobenzene	0.9	ND	µg/kg
1,2-Dichlorobenzene	0.9	ND	µg/kg	1,1,1-Trichloroethane	0.9	ND	µg/kg
1,3-Dichlorobenzene	0.9	ND	µg/kg	1,1,2-Trichloroethane	0.9	ND	µg/kg
1,4-Dichlorobenzene	0.9	ND	µg/kg	Trichloroethene	0.9	ND	µg/kg
Dichlorodifluoromethane	0.9	ND	µg/kg	Trichlorofluoromethane	0.9	ND	µg/kg
1,1-Dichloroethane	0.9	ND	µg/kg	1,2,3-Trichloropropane	0.9	ND	µg/kg
1,2-Dichloroethane	0.9	ND	µg/kg	1,2,4-Trimethylbenzene	1.8	ND	µg/kg
1,1-Dichloroethene	0.9	ND	µg/kg	1,3,5-Trimethylbenzene	0.9	ND	µg/kg
cis-1,2-Dichloroethene	0.9	ND	µg/kg	Vinyl Chloride	1.8	ND	µg/kg
trans-1,2-Dichloroethene	0.9	ND	µg/kg	m&p-Xylene	0.9	ND	µg/kg
Dichloromethane	0.9	1.1 B	µg/kg	o-Xylene	1.8	ND	µg/kg
				Diisopropyl Ether	0.9	ND	µg/kg
				MTBE	1.8	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

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CWEL 5707 Schofield Ave. • Schofield, Wisconsin 54476 • (715) 355-7988 • FAX (715) 355-4199

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Company Name: Central Wis Engineers

Project No.: 10459250

Project Name: Marshall Site

Sampler: Carole Eldredge

No.: 1335

CWEL Batch No. 9407035

Bottle Size/Preservative: 40ml HCL; 40ml NaOH; 125ml NaOH

ANALYSIS REQUESTED: VOC 8021; WI DRO; WI GRO; Total Lead

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	ANALYSIS REQUESTED										Remarks	Lab Use Only ID Number
7/21/94	10:05	(TB)MW1-5 12.5-14.5	2	1	1				4	S	✓	✓	✓	✓								009038
7/21/94	10:35	(TB)MW1-7 18-20	2	1	1				4	S	✓	✓	✓	✓								

COMMENTS/SPECIAL INSTRUCTIONS:

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

Results To: Central Wis Engineers
5707 Schofield Ave
Schofield, WI 54476
Attention: George O. Peterson
Phone: 715 359-9400 Fax: _____

Billing Address: Same
Attention: _____
Phone: _____ Fax: _____

To Be Completed by Client ☐ RUSH (approved by lab)
Packed By: _____
Sealed For Shipping By: _____ Seal # _____
Quotation#: _____
Purchase Order #: _____

CUSTODY TRANSFERS

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1. Carole Eldredge	7/22/94	8:11			
2.					

Received for Laboratory: [signature] 7/22/94 8:35

Shipping Details - To Be Completed by CWEL
Seal Intact Upon Receipt by Laboratory ☐ Yes ☐ No ☒ NA
Method of Shipment: ☒ Hand Del. ☐ UPS ☐ FEDEX ☐ _____
Contents Temperature: ☒ On Ice ☐ _____ °C Refrig. # WL 1
Date Received: 7/22/94
Date Due: 7 wks

CENTRAL WISCONSIN ENVIRO LAB, INC.

To: Central Wisconsin Engineers, Inc.
5707 Schofield Avenue
Schofield, WI 54476
Attn: George Peterson
Phone: 715-359-9400

Date: March 6, 1995

MAR 7

Wisconsin Certification No. 737125510

PROJECT: Marschall Site

LAB BATCH ID: 9502025

PROJECT NUMBER: 10459200

METHODOLOGIES:

GRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-140 93 REV.

DRO concentration was determined by the Wisconsin WDNR LUST Analytical Guidance PUBL-SW-141 93 REV.

Volatile organics were determined by modified EPA Method 8260 using GC-MS.

REMARKS:

CENTRAL WISCONSIN ENVIRO LAB, INC.

David L. Schumacher
Lab Director

Date: 3-6-95

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CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-1 3-5'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007682
Project:	Marschall Site	Reviewed By:	DCJ
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	5.3	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	12.5	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-1 3-5'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007682
Project:	Marschall Site	**Date Analyzed:**	02/28/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	100	ND	µg/kg	1,2-Dichloropropane	100	ND	µg/kg
Bromobenzene	100	ND	µg/kg	1,3-Dichloropropane	100	ND	µg/kg
Bromochloromethane	100	ND	µg/kg	2,2-Dichloropropane	100	ND	µg/kg
Bromodichloromethane	100	ND	µg/kg	1,1-Dichloropropene	100	ND	µg/kg
Bromoform	100	ND	µg/kg	cis-1,3-Dichloropropene	100	ND	µg/kg
n-Butylbenzene	100	ND	µg/kg	trans-1,3-Dichloropropene	100	ND	µg/kg
sec-Butylbenzene	100	ND	µg/kg	Ethylbenzene	100	ND	µg/kg
t-Butylbenzene	100	ND	µg/kg	Hexachlorobutadiene	100	ND	µg/kg
Carbon Tetrachloride	100	ND	µg/kg	Isopropylbenzene	100	ND	µg/kg
Chlorobenzene	100	ND	µg/kg	p-Isopropyltoluene	100	ND	µg/kg
Chloroethane	100	ND	µg/kg	Naphthalene	200	ND	µg/kg
Chloroform	100	ND	µg/kg	n-Propylbenzene	100	ND	µg/kg
Chloromethane	100	ND	µg/kg	Styrene	100	ND	µg/kg
2-Chlorotoluene	100	ND	µg/kg	1,1,1,2-Tetrachloroethane	100	ND	µg/kg
4-Chlorotoluene	100	ND	µg/kg	1,1,2,2-Tetrachloroethane	100	ND	µg/kg
Dibromochloromethane	100	ND	µg/kg	Tetrachloroethene	100	6,160	µg/kg
1,2-Dibromo-3-chloropropane	100	ND	µg/kg	Toluene	100	ND	µg/kg
1,2-Dibromoethane	100	ND	µg/kg	1,2,3-Trichlorobenzene	100	ND	µg/kg
Dibromomethane	100	ND	µg/kg	1,2,4-Trichlorobenzene	100	ND	µg/kg
1,2-Dichlorobenzene	100	ND	µg/kg	1,1,1-Trichloroethane	100	ND	µg/kg
1,3-Dichlorobenzene	100	ND	µg/kg	1,1,2-Trichloroethane	100	ND	µg/kg
1,4-Dichlorobenzene	100	ND	µg/kg	Trichloroethene	100	ND	µg/kg
Dichlorodifluoromethane	100	ND	µg/kg	Trichlorofluoromethane	100	ND	µg/kg
1,1-Dichloroethane	100	ND	µg/kg	1,2,3-Trichloropropane	100	ND	µg/kg
1,2-Dichloroethane	100	ND	µg/kg	1,2,4-Trimethylbenzene	200	ND	µg/kg
1,1-Dichloroethene	100	ND	µg/kg	1,3,5-Trimethylbenzene	100	ND	µg/kg
cis-1,2-Dichloroethene	100	ND	µg/kg	Vinyl Chloride	100	ND	µg/kg
trans-1,2-Dichloroethene	100	ND	µg/kg	m&p-Xylene	100	ND	µg/kg
Dichloromethane	100	ND	µg/kg	o-Xylene	100	ND	µg/kg
				Diisopropyl Ether	100	ND	µg/kg
				MTBE	100	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-7 15-17'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007683
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	51.2	mg/kg	5	02/23/95
78919	Diesel Range Organics (DRO)	10	17.8	mg/kg	1,3,5	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 1-7 15-17'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007683
Project:	Marschall Site	**Date Analyzed:**	02/23/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	10.0	ND	µg/kg	1,2-Dichloropropane	10.0	ND	µg/kg
Bromobenzene	10.0	ND	µg/kg	1,3-Dichloropropane	10.0	ND	µg/kg
Bromochloromethane	10.0	ND	µg/kg	2,2-Dichloropropane	10.0	ND	µg/kg
Bromodichloromethane	10.0	ND	µg/kg	1,1-Dichloropropene	10.0	ND	µg/kg
Bromoform	10.0	ND	µg/kg	cis-1,3-Dichloropropene	10.0	ND	µg/kg
n-Butylbenzene	10.0	ND	µg/kg	trans-1,3-Dichloropropene	10.0	ND	µg/kg
sec-Butylbenzene	10.0	15.0	µg/kg	Ethylbenzene	10.0	ND	µg/kg
t-Butylbenzene	10.0	ND	µg/kg	Hexachlorobutadiene	10.0	ND	µg/kg
Carbon Tetrachloride	10.0	ND	µg/kg	Isopropylbenzene	10.0	18.7	µg/kg
Chlorobenzene	10.0	ND	µg/kg	p-Isopropyltoluene	10.0	ND	µg/kg
Chloroethane	10.0	ND	µg/kg	Naphthalene	20.0	ND	µg/kg
Chloroform	10.0	ND	µg/kg	n-Propylbenzene	10.0	ND	µg/kg
Chloromethane	10.0	ND	µg/kg	Styrene	10.0	ND	µg/kg
2-Chlorotoluene	10.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	10.0	ND	µg/kg
4-Chlorotoluene	10.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	10.0	ND	µg/kg
Dibromochloromethane	10.0	ND	µg/kg	Tetrachloroethene	10.0	220	µg/kg
1,2-Dibromo-3-chloropropane	10.0	ND	µg/kg	Toluene	10.0	ND	µg/kg
1,2-Dibromoethane	10.0	ND	µg/kg	1,2,3-Trichlorobenzene	10.0	ND	µg/kg
Dibromomethane	10.0	ND	µg/kg	1,2,4-Trichlorobenzene	10.0	ND	µg/kg
1,2-Dichlorobenzene	10.0	ND	µg/kg	1,1,1-Trichloroethane	10.0	ND	µg/kg
1,3-Dichlorobenzene	10.0	ND	µg/kg	1,1,2-Trichloroethane	10.0	ND	µg/kg
1,4-Dichlorobenzene	10.0	ND	µg/kg	Trichloroethene	10.0	ND	µg/kg
Dichlorodifluoromethane	10.0	ND	µg/kg	Trichlorofluoromethane	10.0	ND	µg/kg
1,1-Dichloroethane	10.0	ND	µg/kg	1,2,3-Trichloropropane	10.0	ND	µg/kg
1,2-Dichloroethane	10.0	ND	µg/kg	1,2,4-Trimethylbenzene	20.0	50.3	µg/kg
1,1-Dichloroethene	10.0	ND	µg/kg	1,3,5-Trimethylbenzene	10.0	20.4	µg/kg
cis-1,2-Dichloroethene	10.0	ND	µg/kg	Vinyl Chloride	10.0	ND	µg/kg
trans-1,2-Dichloroethene	10.0	ND	µg/kg	m&p-Xylene	10.0	ND	µg/kg
Dichloromethane	10.0	ND	µg/kg	o-Xylene	10.0	ND	µg/kg
				Diisopropyl Ether	10.0	ND	µg/kg
				MTBE	10.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-1 3-5'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007684
Project:	Marschall Site	Reviewed By:	DLS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	12.9	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	87.7	mg/kg	2,4,5	02/27/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-1 3-5'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007684
Project:	Marschall Site	**Date Analyzed:**	03/02/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	2,000	ND	µg/kg	1,2-Dichloropropane	2,000	ND	µg/kg
Bromobenzene	2,000	ND	µg/kg	1,3-Dichloropropane	2,000	ND	µg/kg
Bromochloromethane	2,000	ND	µg/kg	2,2-Dichloropropane	2,000	ND	µg/kg
Bromodichloromethane	2,000	ND	µg/kg	1,1-Dichloropropene	2,000	ND	µg/kg
Bromoform	2,000	ND	µg/kg	cis-1,3-Dichloropropene	2,000	ND	µg/kg
n-Butylbenzene	2,000	ND	µg/kg	trans-1,3-Dichloropropene	2,000	ND	µg/kg
sec-Butylbenzene	2,000	ND	µg/kg	Ethylbenzene	2,000	ND	µg/kg
t-Butylbenzene	2,000	ND	µg/kg	Hexachlorobutadiene	2,000	ND	µg/kg
Carbon Tetrachloride	2,000	ND	µg/kg	Isopropylbenzene	2,000	ND	µg/kg
Chlorobenzene	2,000	ND	µg/kg	p-Isopropyltoluene	2,000	ND	µg/kg
Chloroethane	2,000	ND	µg/kg	Naphthalene	4,000	ND	µg/kg
Chloroform	2,000	ND	µg/kg	n-Propylbenzene	2,000	ND	µg/kg
Chloromethane	2,000	ND	µg/kg	Styrene	2,000	ND	µg/kg
2-Chlorotoluene	2,000	ND	µg/kg	1,1,1,2-Tetrachloroethane	2,000	ND	µg/kg
4-Chlorotoluene	2,000	ND	µg/kg	1,1,2,2-Tetrachloroethane	2,000	ND	µg/kg
Dibromochloromethane	2,000	ND	µg/kg	Tetrachloroethene	2,000	72,100	µg/kg
1,2-Dibromo-3-chloropropane	2,000	ND	µg/kg	Toluene	2,000	ND	µg/kg
1,2-Dibromoethane	2,000	ND	µg/kg	1,2,3-Trichlorobenzene	2,000	ND	µg/kg
Dibromomethane	2,000	ND	µg/kg	1,2,4-Trichlorobenzene	2,000	ND	µg/kg
1,2-Dichlorobenzene	2,000	ND	µg/kg	1,1,1-Trichloroethane	2,000	ND	µg/kg
1,3-Dichlorobenzene	2,000	ND	µg/kg	1,1,2-Trichloroethane	2,000	ND	µg/kg
1,4-Dichlorobenzene	2,000	ND	µg/kg	Trichloroethene	2,000	ND	µg/kg
Dichlorodifluoromethane	2,000	ND	µg/kg	Trichlorofluoromethane	2,000	ND	µg/kg
1,1-Dichloroethane	2,000	ND	µg/kg	1,2,3-Trichloropropane	2,000	ND	µg/kg
1,2-Dichloroethane	2,000	ND	µg/kg	1,2,4-Trimethylbenzene	4,000	ND	µg/kg
1,1-Dichloroethene	2,000	ND	µg/kg	1,3,5-Trimethylbenzene	2,000	ND	µg/kg
cis-1,2-Dichloroethene	2,000	ND	µg/kg	Vinyl Chloride	2,000	ND	µg/kg
trans-1,2-Dichloroethene	2,000	ND	µg/kg	m&p-Xylene	2,000	ND	µg/kg
Dichloromethane	2,000	ND	µg/kg	o-Xylene	2,000	ND	µg/kg
				Diisopropyl Ether	2,000	ND	µg/kg
				MTBE	2,000	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-7 15-17'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007685
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	9.0	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	16.6	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 2-7 15-17'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007685
Project:	Marschall Site	**Date Analyzed:**	03/03/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	10.7	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-2 10-12'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007686
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-2 10-12'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007686
Project:	Marschall Site	**Date Analyzed:**	03/04/95
Project #:	10459200	**Reviewed By:**	DCJ

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	7.6	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-3 14-15'	Date Received:	02/20/95
Sample Matrix:	Soil	Lab Batch ID:	9502025
Date Collected:	02/20/95	Lab Sample ID:	007687
Project:	Marschall Site	Reviewed By:	DCS
Project #:	10459200		

Parameter Number	Parameter	PQL	Concen-tration	Units	Com-ments	Date Analyzed
78920	Gasoline Range Organics (GRO)	5.0	ND	mg/kg	None	02/23/95
78919	Diesel Range Organics (DRO)	10	ND	mg/kg	None	02/25/95
	Extraction Date					02/20/95

ND: Not Detected
J: Detected but below PQL. Estimated concentration
PQL: Practical Quantitation Limit
GRO/DRO: Determined by Modified Wisconsin WDNR LUST Guidance.
PVOC: Determined according to Modified EPA Method 8020.
CONCENTRATION: Results on dry weight basis

GRO Comments:
1. Significant early eluting peaks before GRO window.
2. Significant late eluting peaks after GRO window.
3. Majority of GRO compounds in early portion of window.
4. Majority of GRO compounds in later portion of window.
5. GRO window shows a raised baseline.

DRO Comments:
1. Significant early eluting peaks before DRO window.
2. Significant late eluting peaks after DRO window.
3. Majority of DRO compounds in early portion of window.
4. Majority of DRO compounds in later portion of window.
5. DRO window shows a raised baseline.

f:9502025w

CENTRAL WISCONSIN ENVIRO LAB, INC.

Wisconsin Certification No. 737125510

LABORATORY ANALYSIS RESULTS

Sample I.D.:	TB 3-3 14-15'	**Date Received:**	02/20/95
Sample Matrix:	Soil	**Lab Batch ID:**	9502025
Date Collected:	02/20/95	**Lab Sample ID:**	007687
Project:	Marschall Site	**Date Analyzed:**	03/04/95
Project #:	10459200	**Reviewed By:**	DCS

Parameter	Detection Limit	Sample Conc.	Units	Parameter	Detection Limit	Sample Conc.	Units
Benzene	1.0	ND	µg/kg	1,2-Dichloropropane	1.0	ND	µg/kg
Bromobenzene	1.0	ND	µg/kg	1,3-Dichloropropane	1.0	ND	µg/kg
Bromochloromethane	1.0	ND	µg/kg	2,2-Dichloropropane	1.0	ND	µg/kg
Bromodichloromethane	1.0	ND	µg/kg	1,1-Dichloropropene	1.0	ND	µg/kg
Bromoform	1.0	ND	µg/kg	cis-1,3-Dichloropropene	1.0	ND	µg/kg
n-Butylbenzene	1.0	ND	µg/kg	trans-1,3-Dichloropropene	1.0	ND	µg/kg
sec-Butylbenzene	1.0	ND	µg/kg	Ethylbenzene	1.0	ND	µg/kg
t-Butylbenzene	1.0	ND	µg/kg	Hexachlorobutadiene	1.0	ND	µg/kg
Carbon Tetrachloride	1.0	ND	µg/kg	Isopropylbenzene	1.0	ND	µg/kg
Chlorobenzene	1.0	ND	µg/kg	p-Isopropyltoluene	1.0	ND	µg/kg
Chloroethane	1.0	ND	µg/kg	Naphthalene	2.0	ND	µg/kg
Chloroform	1.0	ND	µg/kg	n-Propylbenzene	1.0	ND	µg/kg
Chloromethane	1.0	ND	µg/kg	Styrene	1.0	ND	µg/kg
2-Chlorotoluene	1.0	ND	µg/kg	1,1,1,2-Tetrachloroethane	1.0	ND	µg/kg
4-Chlorotoluene	1.0	ND	µg/kg	1,1,2,2-Tetrachloroethane	1.0	ND	µg/kg
Dibromochloromethane	1.0	ND	µg/kg	Tetrachloroethene	1.0	4.8	µg/kg
1,2-Dibromo-3-chloropropane	1.0	ND	µg/kg	Toluene	1.0	ND	µg/kg
1,2-Dibromoethane	1.0	ND	µg/kg	1,2,3-Trichlorobenzene	1.0	ND	µg/kg
Dibromomethane	1.0	ND	µg/kg	1,2,4-Trichlorobenzene	1.0	ND	µg/kg
1,2-Dichlorobenzene	1.0	ND	µg/kg	1,1,1-Trichloroethane	1.0	ND	µg/kg
1,3-Dichlorobenzene	1.0	ND	µg/kg	1,1,2-Trichloroethane	1.0	ND	µg/kg
1,4-Dichlorobenzene	1.0	ND	µg/kg	Trichloroethene	1.0	ND	µg/kg
Dichlorodifluoromethane	1.0	ND	µg/kg	Trichlorofluoromethane	1.0	ND	µg/kg
1,1-Dichloroethane	1.0	ND	µg/kg	1,2,3-Trichloropropane	1.0	ND	µg/kg
1,2-Dichloroethane	1.0	ND	µg/kg	1,2,4-Trimethylbenzene	2.0	ND	µg/kg
1,1-Dichloroethene	1.0	ND	µg/kg	1,3,5-Trimethylbenzene	1.0	ND	µg/kg
cis-1,2-Dichloroethene	1.0	ND	µg/kg	Vinyl Chloride	1.0	ND	µg/kg
trans-1,2-Dichloroethene	1.0	ND	µg/kg	m&p-Xylene	1.0	ND	µg/kg
Dichloromethane	1.0	ND	µg/kg	o-Xylene	1.0	ND	µg/kg
				Diisopropyl Ether	1.0	ND	µg/kg
				MTBE	1.0	ND	µg/kg

ND: Not Detected
B: Detected in method blank.
J: Detected but below detection limit. Estimated concentration
Determined according to modified EPA GC-MS Method 8260.

f:9502025v

CWEL 5707 Schofield Ave. • Schofield, Wisconsin 54476 • (715) 355-7988 • FAX (715) 355-4199

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Company Name: Central Wis Engineers

Project No.: 10459200

Project Name: Marshall Site

Sampler: Carole Eldredge (B.B.)

No.: 1920

CWEL Batch No. 9502025

Bottle Size/Preservative: 40ml None; other None; 40ml meoH

ANALYSIS REQUESTED: VOC (8021); DRO; GRO

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	VOC (8021)	DRO	GRO								Remarks	Lab Use Only ID Number
2/2/95	9:25	TB1-1 3-5'	2	1	1				4	S	✓	✓	✓									80 7682
	10:25	TB1-7 15-17'	2	1	1				4	S	✓	✓	✓									83
	11:40	TB2-1 3-5'	2	1	1				4	S	✓	✓	✓									84
	12:13	TB2-7 15-17	2	1	1				4	S	✓	✓	✓									85
	1:35	TB3-2 10-12'	2	1	1				4	S	✓	✓	✓									86
↓	1:50	TB3-3 14-15	2	1	1				4	S	✓	✓	✓									87

COMMENTS/SPECIAL INSTRUCTIONS:

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

Results To: CWE

Attention: George O. Peterson

Phone: _____ Fax: _____

Billing Address: Same

Attention: _____

Phone: _____ Fax: _____

To Be Completed by Client ☐ RUSH (approved by lab)

Packed By: _____

Sealed For Shipping By: _____ Seal # _____

Quotation#: _____

Purchase Order #: _____

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1	Carole Eldredge	2/2/95	3:30			
2.						

Received for Laboratory: Sandra A. Bordfa 2/2/95 3:42

Shipping Details - To Be Completed by CWEL

Seal Intact Upon Receipt by Laboratory: ☐ Yes ☐ No ☐ NA

Method of Shipment: ☐ Hand Del. ☐ UPS ☐ FEDEX ☐ _____

Contents Temperature: ☐ On Ice ☐ _____ °C Refrig. # W1 1

Date Received: 2/2/95

Date Due: 2 wks

APPENDIX D

SOIL DISPOSAL FORM

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED SOIL

Form 4400-120

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 part I. 2) Select the treatment option in part II. Pretreatment approval is required for any treatment other than landfill burial. Submit this form to the DNR project manager for approval. 3) If your treatment option is landfill burial, complete part III before submitting the ORIGINAL form to the project manager. 4) If soil will be used as cover at a landfill, first submit this form for approval and then, after part III has been completed, resubmit the ORIGINAL to the project manager. 4.91:22P

ALL SITES MUST COMPLETE PART I.

Part I. Source of Soil

Site/Facility Name: Sophie Marschall Property

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

Site Address: 303-305 2nd Ave

Contact Name: Mrs. Sophie Marschall

City, State, Zip Code: Wausau, WI 54401

1/4, 1/4, Section, Township, and Range: SW1/4, Sec 26, T29N-R7E

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

NOTE: Soil generators responsible for waste disposed of in landfills may incur future liability.

Signature of Soil Generator: Mrs. Sophie Marschall

Telephone Number (include area code): 715-842-1106

Testing Firm: CENTRAL WIS. ENGINEERS, INC.

Contact: Carole Eldredge

Telephone Number: 715-359-9400

Estimated Volume Contaminated Soil: 4 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)
- X gravel (GC, GM, GP, GW)
- ___ peat (PT)

Distance to Nearest Residence/Business 50'

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) NA lbs

Total Petroleum Hydrocarbons(TPH) in soil to be remediated (attach calculations) 1.6 lbs

Total TPH as Diesel

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.

COMPLETE ONLY THOSE SECTIONS OF PART II THAT PERTAIN TO YOUR SITE

Part II: Proposed method of treatment

1. SOIL VENTING/VACUUM EXTRACTION

Note: This option may require an air pollution control permit. An activated carbon unit or similar treatment system to strip VOCs from the blower discharge will be required if emissions exceed limits established by Air Management. System design and monitoring information must be included.

Contact responsible for system maintenance.....

Telephone Number (include area code).....Anticipated start date.....

Total VOC discharge rate from Pilot testing or calculations _____ lbs/hr at _____scfm

Benzene Discharge Rate from Pilot testing or calculations _____lbs/hr at _____scfm _____Estimated Project Total

2. ANY METHOD OF REMEDIATION NOT LISTED IN PART II (NOTE: For thermal treatment, use Form 4400-149.)

Attach narrative and drawing(s) to describe the remediation method to be used. A final report is required. At a minimum, the information submitted should include the following applicable items:

a. proposed treatment method
b. location/size of remediation site
c. distance to nearest residence/business
d. field sampling methods
e. protective covering and curbing techniques
f. volume estimate and soil thickness needing remediation
g. method of turning/mixing soil
h. highest estimated hourly/daily VOC emissions
i. highest estimated daily/total benzene emissions
k. anticipated startup and completion dates
l. proposed verification method of contaminant content
m. project contact person
n. final destination of soil

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

Application Concurrence:

Air Management Joseph E. Oncel Date 3-26-93

Project Manager N/A Date

Comments:

3. DISPOSAL OF CONTAMINATED SOILS AT A SANITARY LANDFILL-NR 500

NOTE: Contaminant concentrations must meet Solid Waste guidelines and analytical results must be submitted within 30 days of disposal.

PLEASE COMPLETE PART III BELOW AFTER LANDFILL BURIAL IS COMPLETED.

THIS SECTION IS TO BE COMPLETED BY THE DISPOSAL FACILITY ACCEPTING THE CONTAMINATED SOIL

Part III

Transporter Name Tork Trucking Transporter License Number 2967

Name of landfill Tork License No. 02967

Actual Volume of soil landfilled 5.52 Indicate ~~yds~~ or tons ___ cover soil X buried

Date received at landfill 04-06-93 Accumulated Benzene emissions to date 30.789 lbs.

Signature of landfill facility representative Randy A. Ball

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

107 Sutliff Avenue
P.O. Box 818
Rhinelander, Wisconsin 54501-0818
TELEPHONE 715-365-8961
TELEFAX 715-365-8932
Internet: watsom@dnr.state.wi.us

George E. Meyer
Secretary

July 24, 1995

Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, Wisconsin 54401

Subject: Marschall Site Closure Request

Dear Mrs. Marschall:

The North Central District Closeout Committee has reviewed Central Wisconsin Engineers Inc. (CWE), request for closure of the Marschall Site. After review of the project and the request for closure, the Closeout Committee voted to deny closure of your site at this time.

Central Wisconsin Engineers requested closure based on their arguments that remaining contaminant levels will not be harmful to the groundwater. Whereas it is possible to close a site with remaining levels of contamination, it must first be adequately demonstrated that the remaining levels will not cause additional environmental impacts to groundwater or human health. Wisconsin Adm. Code NR 720.19, outlines the procedure to determine soil cleanup standards specific to a site. Your consultant should be familiar with this process. Based on the arguments presented by CWE in the closure request, an alternative clean-up level has not been scientifically established. Therefore closure of your site can not be approved based on an alternative clean-up level.

In order to approve your site for closure the extent and degree of contamination to both soil and groundwater must be defined. We recognize that attempts to establish groundwater monitoring wells at the site were not successful. Even though the monitoring well installation was difficult, we continue to believe that additional investigation of both the soil and groundwater is necessary to define the extent and degree of contamination. It is our hope that the full cost of drilling the dry monitoring wells was not passed on to you as a client.

Finally, our committee did not understand the analytical value of DRO/GRO as an indicator for either perchloroethylene, trichloroethylene or vinyl chloride. These are typical components of dry cleaning chemicals. Please be advised that for the purposes of investigation and closure evaluation, compound specific analysis shall be required.

Printed on Recycled Paper

Your case will continue to be tracked on the Districts Environmental Repair data base as needing additional investigation.

If you have any questions concerning this review please feel free to contact me at (715) 365-8961.

Sincerely,

M. Scott Watson
Environmental Repair Coordinator

cc: Connie Antonuk, NCD
George Peterson, CWE
Jim Lonsdorf

Central Wisconsin
Engineers

5707 SCHOFIELD AVENUE • P.O. BOX 107 • SCHOFIELD, WI 54476 • (715) 359-9400 • FAX (715) 355-4199

697

COPY

February 28, 1994

ural R
MAR 01 1994
Wausau DNR Office
Wausau, Wisconsin

Richard L. Brown
Hazardous Waste Specialist
Wisconsin Department of Natural Resources
5301 Rib Mountain Drive
Wausau, WI 54401

Re: Scope of Work for the Sophie Marschall Property
(Former Kraft Cleaners) at 303-305 2nd Avenue, Wausau, WI

Dear Mr. Brown:

Pursuant to your letter dated May 18, 1993, Central Wisconsin Engineers, Inc. (CWE), on behalf of Mrs. Marschall, proposes to install three (3) soil borings with corresponding monitoring wells at the above referenced site in order to determine if groundwater contamination exists. The attached site layout map indicates the locations of the proposed wells (MW-1, MW-2 and MW-3). These locations were determined on the basis of the lab data from the tank closure report and are limited by utility restraints including a buried gasoline main and numerous overhead wires, as well as property boundary lines.

The borings shall be drilled using 4-1/4" hollow stem augers as the drilling method and/or mud rotary using a tri-cone bit if bedrock is encountered. The wells shall be set at approximately 20 feet each, field conditions permitting. Depth to water is expected to be at about 12 to 15 feet and bedrock possibly at about 16 feet, based on available data for a nearby site.

Soil samples shall be collected from each of the borings at approximately 2-1/2 foot intervals from a split-spoon sampler. The samples shall be field screened for headspace analysis and a laboratory sample collected from the most contaminated area of the boring and/or at the water table. Soil samples shall be analyzed for Gasoline-range organics (GRO), Diesel-range organics (DRO), volatile organic compounds (VOCs - EPA Method 8021), and total lead.

The monitoring wells shall be constructed of 2" schedule 40 PVC with a 10-foot well screen and shall be installed in accordance with NR 141. MW-1 and MW-2 are proposed to be installed with a protective outer casing (pro-top) and because of its

location near an alley way, MW-3 shall be constructed with a flush-mounted protective cover.

Sampling procedures and techniques, decontamination, QA/QC, reporting procedures, etc. shall follow those outlined in the WDNR LUST Analytical Guidance (July and September 1993), WDNR "Guidance for Conducting Environmental Response Actions", March 1993, and Central Wisconsin Engineers Standard Operating Procedures Manual. A copy of this manual is on file with the Wausau DNR office and is also available upon request from CWE.

Each of the monitoring wells shall be developed in accordance with NR 141 and sampled for GRO, DRO, VOCs and total lead. A field blank, duplicate sample and trip blank shall also be collected for laboratory analysis.

The results of the investigation shall be included in a report to the WDNR and shall include pertinent items outlined in the WDNR "Site Investigation Checklist".

After the bidding process for this work is completed, a drilling company shall be selected and the work scheduled. We hope to complete the investigation by the first part of April 1994.

Should you have any questions, please contact me at (715) 359-9400.

Sincerely,

CENTRAL WISCONSIN ENGINEERS, INC.

George O. Peterson

George O. Peterson, P.E.
Project Engineer

Enclosures
cc: Sophie Marschall
James P. Lonsdorf
WDNR LUST Program, Wausau
Scott Watson, WDNR, Rhinelander

201:marschal.wkp

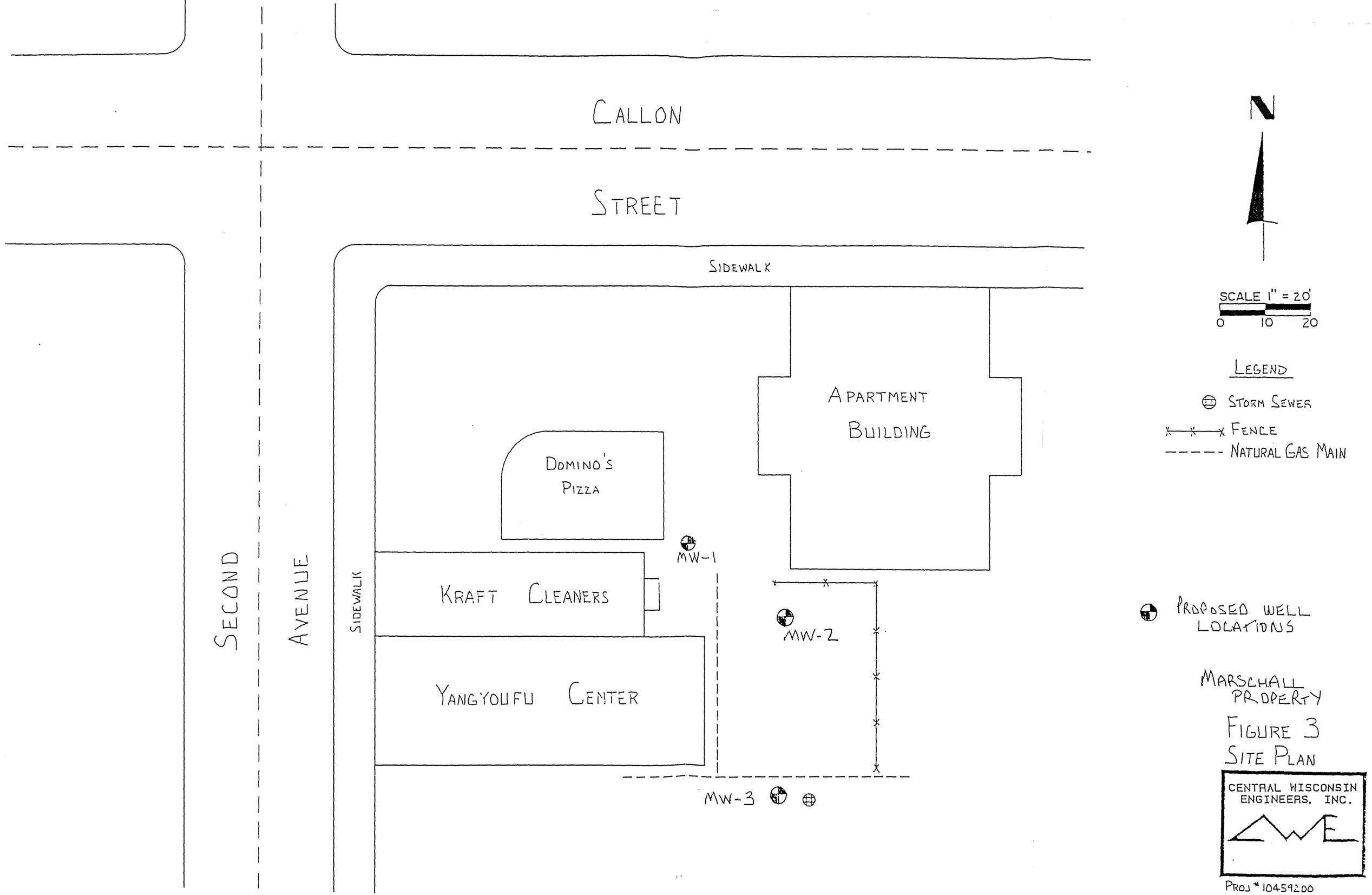

FIGURE 3
SITE PLAN

PROJ # 10459200

Return this form to:
Wisconsin Department of Natural Resources
Tank Response Unit - Annual Report SW/3
P.O. Box 7921
Madison, WI 53707

ANNUAL SITE STATUS FORM
LEAKING UNDERGROUND STORAGE TANK (LUST) SITE
Form 4400-161 5-93

INSTRUCTIONS: The information on this form will be used to monitor progress on site clean up, and to determine whether action by the Department is necessary to attain compliance with s. 144.76, Wis. Stats., Hazardous Substance Spills. Personally identifiable information on this form will be used by the Department for no other purpose. This voluntary form is for actions taken in the preceding calendar year. Actions taken at LUST sites in other years are not to be included, unless specified below. A separate form is to be completed for each site. This form is to be completed in addition to technical reports which have been submitted to the Department.

SITE IDENTIFICATION

Site Name Marschall Property (Kraft Cleaners)	Site Owner's Name Mrs. Sophie Marschall
Site Address 303-305 2nd Avenue	Site Owner's Telephone Number (715)842-1106
City, State, Zip Code (Site Address) Wausau, WI 54401	Environmental Consulting Firm Central Wisconsin Engineers, Inc.
County in Which Site is Located Marathon	DNR Site Identification Number 697-3-NCD (from DNR correspondence)

SITE STATUS - Check all which apply, enter yards and gallons in the spaces provided. **Definitions are on back of page.**

X Field Investigation - This site was still being investigated in the preceding calendar year to identify the extent of contamination.

X Soil Excavation in preceding calendar year.
(Indicate cubic yards for each below.)

2.72 yds^3 Landfilled
____ yds^3 Mixed into asphalt
____ yds^3 Thermal treatment process ("incineration")
____ yds^3 Thinspead
____ yds^3 Excavated and placed into active bioremediation
____ yds^3 Landspread (Ch. NR 518, Wis. Adm. Code)
____ yds^3 Placed in a stockpile awaiting treatment or disposal
____ yds^3 Other: ____

__ In-situ (in place) Soil Treatment in preceding calendar year.
(Indicate systems active in 1992, regardless of the year started.)

____ (est.) yds^3 Soil vapor extraction system
____ (est.) yds^3 Natural (passive) contaminant biodegradation
____ (est.) yds^3 Active bioremediation
____ (est.) yds^3 Other: ____

__ Groundwater Treatment in preceding calendar year

____ gals. Pumped and airstripped
____ gals. Pumped and other aboveground treatment
Type of treatment unit - ____
____ (est.) gals. Air sparging
____ (est.) gals. Active groundwater bioremediation
____ gals. Other: ____

__ Free Product Recovery - ____ gallons of petroleum product were removed from the water table at this site in the preceding calendar year.

Signature: Sophie Marschall Date Signed: 7-12-93

X Site owner
__ Other (indicate your relationship to this site) ____

Please use this space and the back of the page to provide any additional information you would like the Department to have regarding the status of this site.

Thank You.

In June 1992 eight (8) underground storage tanks were removed. In September 1992 approximately 2.72 cu. yards of contaminated soils were disposed of at Tork Landfill.

Definitions:

FIELD INVESTIGATION - The initial investigation to determine the extent and degree of contamination in soil and groundwater was in progress.

SOIL EXCAVATION - Contaminated soil was excavated and stored, treated or disposed. This may be a partial or total response to contamination. This definition does not include removal of clean tank backfill material. Enter the cubic yards of soil which went to each destination.

LANDFILLED - Excavated contaminated soil was disposed of at a licensed landfill.

MIXED INTO ASPHALT - Excavated contaminated soil was mixed into asphalt as a plant which is permitted to accept petroleum contaminated soil.

THERMAL TREATMENT - Excavated contaminated soil was treated in a unit which heats soil to volatilize contaminants and controls emissions of contaminants to the atmosphere.

THIN SPREAD - Excavated contaminated soil was spread on an impermeable surface and remediated by exposure to the atmosphere and naturally occurring microbes.

ACTIVE BIOREMEDIATION - Oxygen and/or nutrients were added to soil or groundwater to promote the breakdown of contaminants by microbes. Active bioremediation may be an in-situ or ex-situ treatment method.

LANDSPREAD - Excavated contaminated soil was spread on the land surface to promote natural degradation of the contaminants through exposure to the atmosphere and naturally occurring microbes. Landspreading must be conducted in accordance with the requirements of Ch. NR 518, Wis. Adm. Code.

IN-SITU TREATMENT - Contaminated soil and/or groundwater was remediated without removal from its original location. Soil vapor extraction is an example of in-situ soil treatment .

SOIL VAPOR EXTRACTION - A system consisting of vapor recovery wells, pumps and, in some cases, an off-gas treatment system, was installed to remove contamination from the soil.

NATURAL BIODEGRADATION - The rate of natural breakdown of petroleum compounds by naturally occurring microbes in soil or groundwater was monitored.

GROUNDWATER TREATMENT - Contaminated groundwater was treated in compliance with applicable state and federal requirements to remove contaminants.

PUMPED AND AIRSTRIPPED - Contaminated groundwater was pumped from the aquifer and treated to remove the contaminants by mixing the water with air in a tower or other structure.

AIR SPARGING - Air was injected into the aquifer to move dissolved contaminants from groundwater into the air. Air sparging is usually used in conjunction with soil vapor extraction.

FREE PRODUCT - Liquid petroleum which was floating on the water table was removed by pumping.

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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

WISCONSIN
DEPT. OF NATURAL RESOURCES

George E. Meyer
Secretary

May 18, 1993

IN REPLY REFER TO:

Mr. George Peterson
Central Wisconsin Engineers
903 Grand Avenue
Rothschild, WI 54474

Dear Mr. Peterson:

As discussed during our phone conversation on April 2, 1993, Mrs. Sophie Marschall would like to sell the property known as Kraft Cleaners.

A tank closure and site assessment for the removal of underground storage tanks has been conducted by Central Wisconsin Engineers (CWE). This assessment has indicated that the chlorinated solvent, tetrachloroethylene, has leaked from at least one of the tanks.

Remedial activities removed most of the on-site contamination; however, due to restrictions caused by a concrete slab and building footings, some contaminated soil remains in place. The contamination remaining in the soil appears to be perchloroethylene, which was used in the past as a dry cleaning solvent.

However, previous reports submitted by CWE did not address the potential for groundwater contamination. Submitted reports indicate groundwater exists at about 15 feet but was not encountered during removal of the underground storage tanks.

The North Central District's close out committee has discussed this case and has unanimously agreed that no close out actions can be taken until the degree and extent of possible ground water contamination is determined.

The Department suggests CWE submit a groundwater monitoring proposal for review. The submittal of information on the degree and extent of possible groundwater contamination is a necessary step before the Department can continue close out actions for this site.

Printed on Recycled Paper

If you have any additional questions, please call me at (715)359-4522.

Sincerely,
NORTH CENTRAL DISTRICT

Richard L. Brown

Richard L. Brown
Hazardous Waste Specialist

RLB:gg
(hw:\cwe.kra)

cc: Tom Jerow, Rhinelander
Scott Watson, Rhinelander
Bob Gutknecht, Wausau
James P. Lonsdorf, Attorney, 610 Jackson Street, P.O. Box 872
Wausau, WI 54402-0872

SITE: KRAFT CLEANERS
303-305 2nd Avenue
Wausau, WI 54401

FID NUMBER: 737081510

SUMMARY BY: Joan Loduha

DATE: January 27, 1993

OWNER: Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, WI 54401

CONTACT:

COUNTY: Marathon (37)

SITE LOCATION: SW 1/4 of Sec. 26, T29N, R7E

PROJECT MANAGER: Richard Brown

CONSULTANT/CONTRACTOR: Central Wisconsin Engineers
903 Grand Avenue
Rothschild, WI 54474
(715) 359-9400
Carole Eldredge

ANALYTICAL LAB:

INCIDENT REPORTED:

INCIDENT: CWE Was retained by owner to perform a tank closure site assessment for removal of 8 underground storage tanks.

CONTAMINANTS OF CONCERN: Tetrachloroethylene, "Stoddard Solvent" (several mineral spirit-like substances), Petroleum products

SUMMARY: Mr. & Mrs. Marschall rented property from Mr. Silverwood from 1977 until 1982, at which time they purchased property. They operated a trophy shop at 305 2nd ave. and a dry cleaning shop was in the 303 2nd Ave. building. A brick building housing a dry cleaning machine on the east side of the property was torn down in 1978. CWE was hired to remove 8 underground storage tanks. They were removed June 23-24, 1992.

RESULTS: Based on field and analytical data, it appears that the soils have been impacted with petroleum compounds. This may be due largely to the presence of the compounds "stoddard solvent" and possibly tetrachloroethylene, which has not been positively identified. Work at the site included over excavation of soils found to contain detectable levels of petroleum products after soil samples were collected and analyzed. Additional soils were removed on 9-23-92. The drums of contaminated soils will be disposed of in accordance with methods acceptable to DNR. Further and deeper excavation of the trench area would be very difficult, due to the

restrictions caused by the concrete floor slab and footings. Further on-site remediation would require the demolition of the former building footings and slab. Due to physical restriction, CWE feels it would be difficult to conduct further excavation at north site. Based on data available to CWE they do not recommend any further action at the site. Also because groundwater has been estimated to be at approximately 15 feet below ground surface, there does not appear to be a significant level of hazardous petroleum compounds present at the site.

ENFORCEMENT:

SITE ASSESSMENT: Soils are primarily a medium to coarse sand. Site specific hydrogeolgy is not know. Groundwater was not encountered during excavation and is approximately 15 feet below ground surface.

OTHER: Because of the difficulty of further excavation, and recommendation of no further action, this site will be tracked on the ERP tracking system.

FIELD: FR, FS, RD, RI, RA

PRE-SCORED: None

DNR ENTRACK SYSTEM 93/01/27 10:47:00 V012996V ENT020

DISPLAY XREF FACILITY DATA

FACILITY NAME: KRAFT CLEANERS ID: 737081510
FACILITY ADDR: 303 S 2ND AVE
NEAREST CITY: WAUSAU
CORPORATION NAME: ROGER KRAFT

DISTRICT: NORTH CENTRAL
COUNTY: MARATHON
OWNERSHIP: PRIVATE

DNR PROGRAM PARTICIPATION (1=ACTIVE, 2=INACTIVE)

NR101(WATER) NO:	AIR PERMIT	RACT
WPDES PERMIT NO:	NR101(AIR)	
WPDES GROUNDWATER	SW PROJ TRACK-PIN NO:	
SLUDGE DISPOSAL	SW LIC SITE -LIC NO:	
PRETREATMENT	SW GROUNDWATER	
COMMUNITY WATER SUPPLY	HAZARDOUS WASTE SITE	>
NON-COMMUNITY WATER SUPPLY	HAZARDOUS WASTE TRANSPORTER	> WID137720470
WELL DRILLER/PUMP INSTALLER 1	HAZARDOUS WASTE GENERATOR	> (DUNS NUMBER)

PRESS ENTER TO RETURN TO THE SCREEN YOU CAME FROM.
SysAvl Appl

COPY

697

Kraft Cleaners

Central Wisconsin
Engineers

P. O. BOX 107•SCHOFIELD, WI 54476•(715) 359-9400

September 11, 1992

Wis. Dept. of Natural Resources
SEP 14 1992
Wausau DNR Office
Wausau, Wisconsin

Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, WI 54401

RE: Tank Closure Site Assessment for Marschall Property
303-305 South 2nd Avenue, Wausau, WI

Dear Mrs. Marschall:

Enclosed is a copy of the above referenced report.

If you have any questions, please call our office.

Sincerely,

CENTRAL WISCONSIN ENGINEERS, INC.

Carole Eldredge

Carole Eldredge
Environmental Specialist

Enclosure
cc: DILHR Madison
Richard Brown, Hazardous Waste Specialist WDNR Wausau
Robert Gutknecht, WDNR Wausau
Attorney James Lonsdorf, S.C. (2 copies)

CE:jlh
128:marsh.let File:10459200

... Dept. of Natural Resources

SEP 14 1992

Wausau DNR Office
Wausau, Wisconsin

Tank Closure Site Assessment

For

Sophie Marschall Property

Wausau, WI

Project #10459200

September 1992

WISCONSIN
GEORGE O. PETERSON
E-13808
SCHOFIELD, WI
PROFESSIONAL ENGINEER

George O. Peterson, P.E.
Project Engineer

Carole Eldredge
Environmental Specialist

Dale Kauzlaric
Environmental Engineer

Prepared by:

Central Wisconsin Engineers, Inc.
903 Grand Avenue
Rothschild, WI 54474
Phone: (715) 359-9400

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1.0 INTRODUCTION

Central Wisconsin Engineers, Inc. was retained by Mrs. Sophie Marschall, Wausau, Wisconsin to perform a tank closure site assessment for the removal of eight (8) underground storage tanks, at 303-305 2nd Avenue, Wausau, WI.

This site assessment was undertaken to check for the presence of spilled or leaked petroleum products in order to determine if additional investigations are warranted. The data collected, field investigations and the site assessment have been done in accordance with the Wisconsin Department of Industry, Labor & Human Relations "Closure Assessments for Underground Storage Tanks" (May 1991), Wisconsin Department of Natural Resources "LUST Release" (Vol. 2, No. 4 1992), WDNR "Guidance for Conducting Environmental Response Actions (March 1992), WDNR "Leaking Underground Storage Tank Analytical Guidance (April 1992) and Central Wisconsin Engineers Standard Operating Procedures (see Appendix A).

2.0 BACKGROUND INFORMATION

2.1 Property Owner

Mrs. Sophie Marschall
1127 East Wausau Avenue
Wausau, WI 54401

Phone: 715-842-1106

2.2 Engineering Consultant

Central Wisconsin Engineers, Inc.
903 Grand Avenue
Rothschild, WI 54474

Attn: Hooshang Zeyghami, P.E.
Phone: (715) 359-9400

Inspectors: Carole Eldredge, #00496;
Dale Kauzlaric, #001827

2.3 Excavation Contractors

Peli-Clean Excavating
1916 Grand Avenue
Wausau, WI 54401

Attn: Mr. Dean Matzke
Phone: 715-845-4196

and

Weston Construction
2312 Schofield Avenue
Schofield, WI 54476

Attn: Mr. Ron Babl
Phone: 715-359-8370

2.4 Recycling Contractors

A&D Industries, Inc.
P.O. Box 1468
Wausau, WI 54402-1468

Attn: Mr. Al Heller
Phone: 715-845-8953

and

Waste Research & Reclamation, Inc.
5200 State Road 93
Eau Claire, WI 54701-9807

Attn: Mr. Ron Downs
Phone: 715-836-8772

2.5 Asbestos Disposal Contractor

HSA Contractors
4119 Schofield Avenue
Schofield, WI 54476

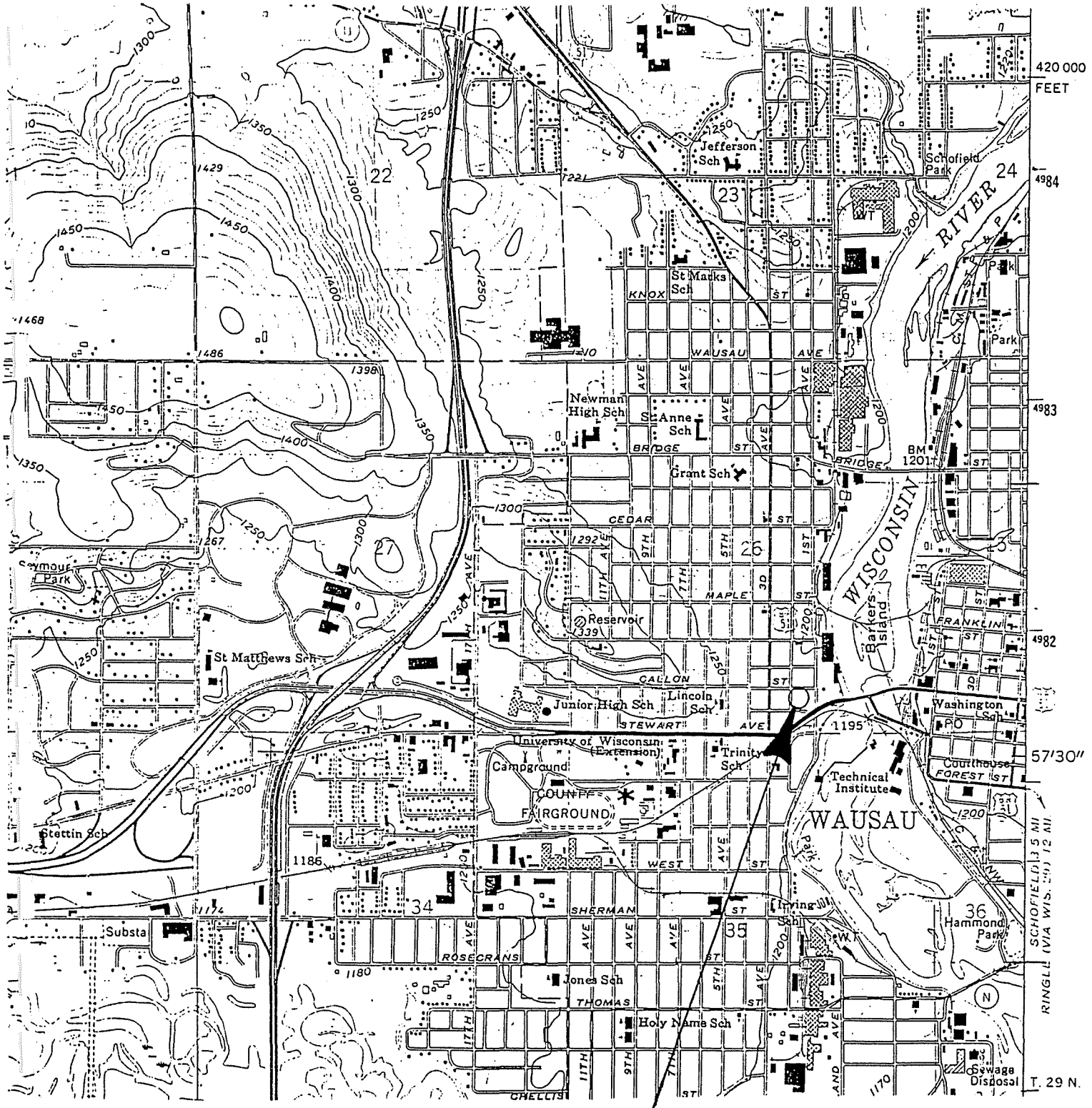
Attn: Mr. Jeff Battis
Phone: 715-359-0007

2.6 Site Location

The site address is 303-305 2nd Avenue, Wausau, specifically in the SW¼ of Section 26, T29N, R7E, City of Wausau, Marathon County, Wisconsin (see Figure 1 & 2).

2.7 Site Background

According to James Silverwood, 42 Woodside Road, Riverside, Illinois, he purchased the property in 1976. Mr. & Mrs. Marschall rented the property from Mr. Silverwood from 1977 until 1982, at which time the Marschalls purchased the property. The Marschalls operated a trophy shop at 305 2nd Avenue and a dry cleaning shop was



SITE LOCATION

N

WAUSAU WEST, WIS.
NW/4 WAUSAU 15' QUADRANGLE
N4452.5—W8937.5/7.5

1963
PHOTOREVISED 1978
AMS 3073 I NW—SERIES V861

FIGURE 1
SITE LOCATION

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200

SOUTH PART MAINE EAST PART STETTIN SOUTH PART TEXAS T. 29N.-R.7E.

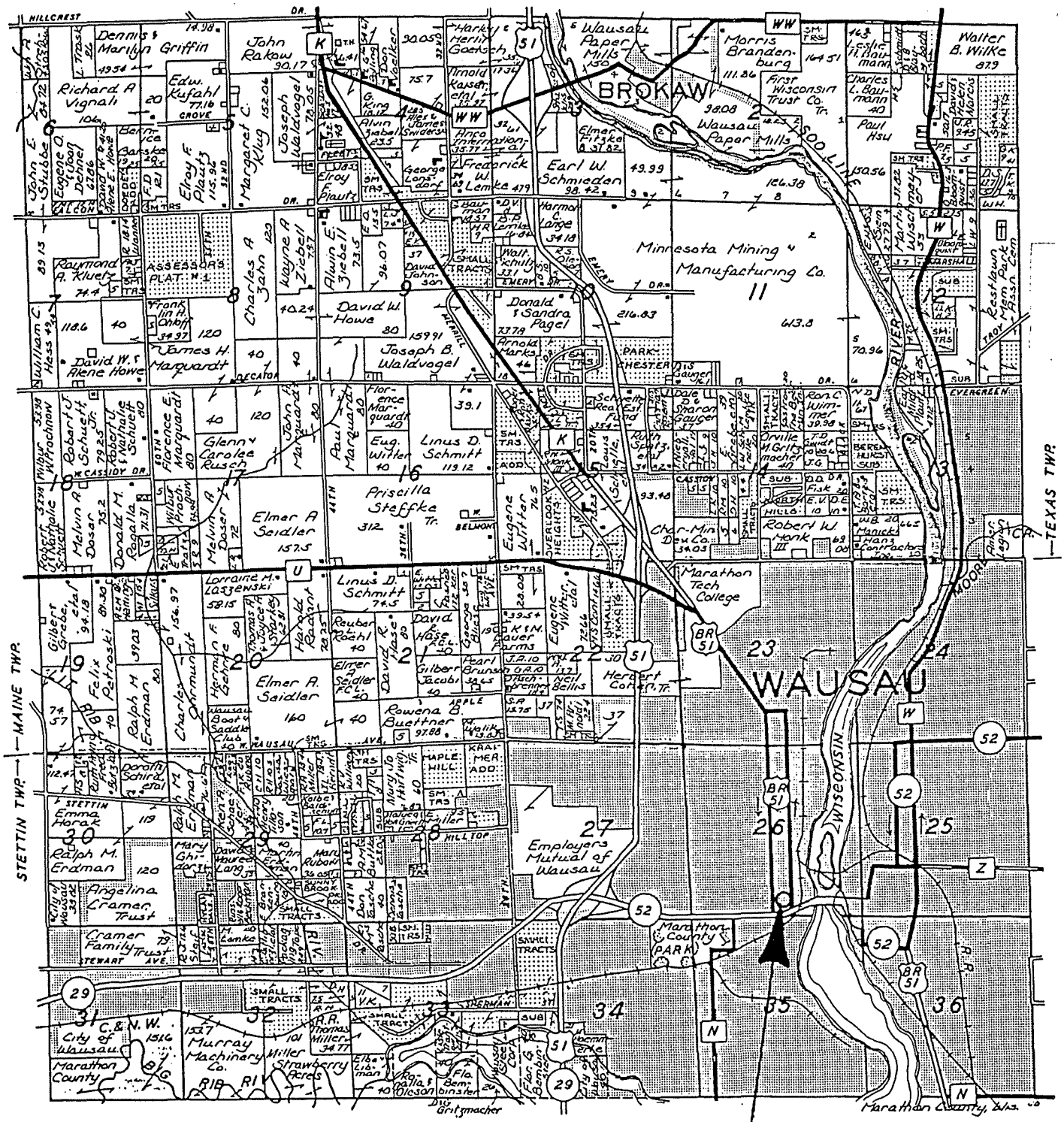


FIGURE 2
SITE LOCATION

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200

in the 303 2nd Avenue building. A brick building housing a dry cleaning machine on the east side of the property was torn down in 1978.

2.8 Tanks, Lines and Dispenser Information

There were no dispensers at the site during Central Wisconsin Engineer's investigations. The dispensers were removed prior to the Marschall's renting the property in 1977. All piping encountered was removed on June 23-24, 1992, except for the fuel oil feeder line from Tank 8 into the building. All lines/piping were rusted. There were numerous lines from Tanks 1-4. Piping from Tanks 2-4 went to the east where the former dry cleaning building had been. These pipes were set in the foundation/floor of that building. Also encountered were two asbestos wrapped pipes. One ran from Tank 1 into the Yang You Fu Entertainment Center. The other asbestos pipe went from the area of Tanks 2-4 north and had a 90° bend at the fence and went east under the fence about 10-15 feet. The other pipe to note, not asbestos wrapped, ran from Tank 7 over the top of Tank 8 and into the side of the storm sewer (see Figures 3 and 4). Tank 7 was the tank with a baffle and had water in it when it was removed.

Tank information is in Table 1. Eight tanks were identified and removed. Tank 6 was removed on May 7, 1992, all other tanks were removed and all soil samples collected on June 23-24, 1992.

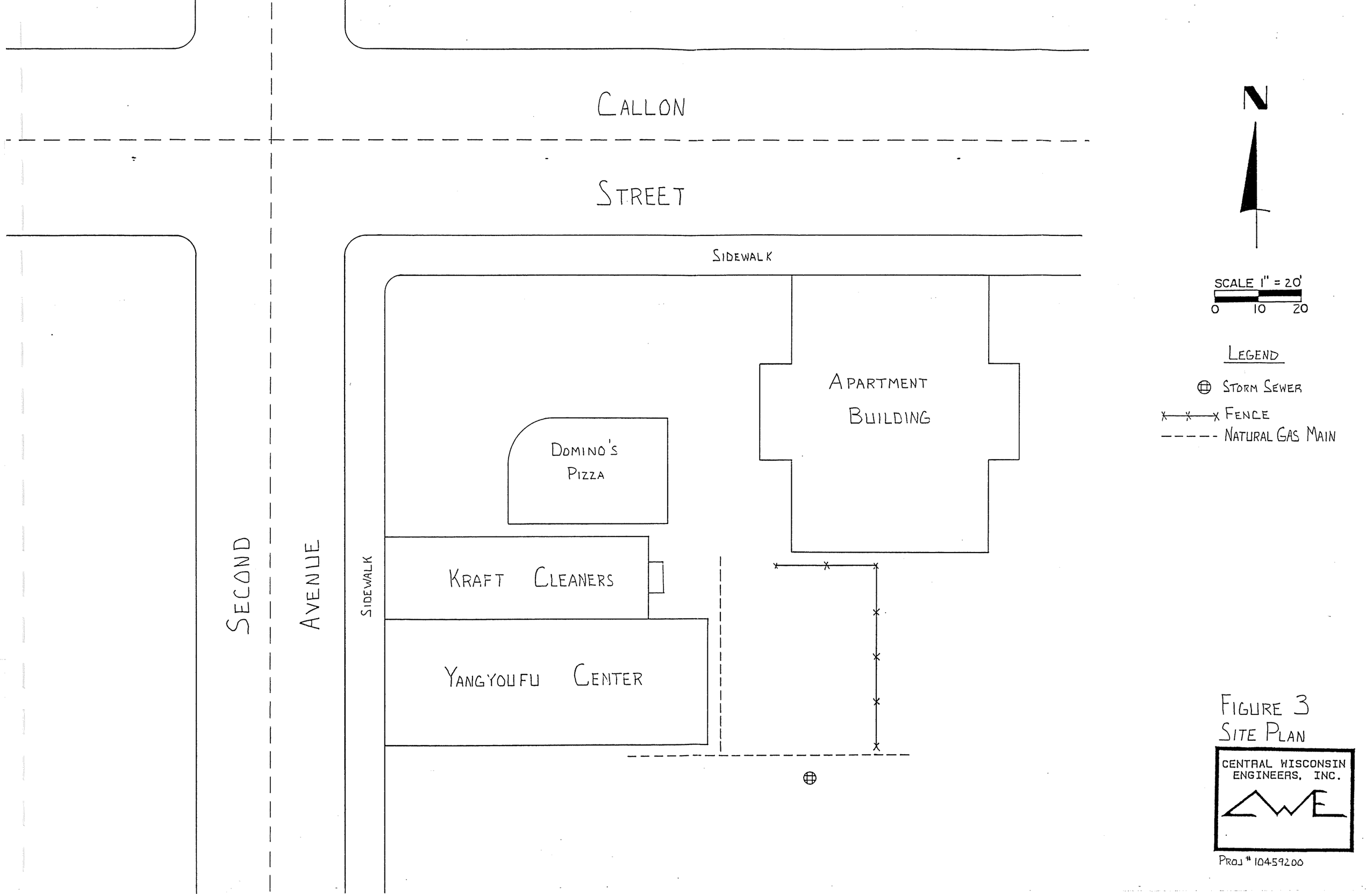


FIGURE 3
SITE PLAN

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200

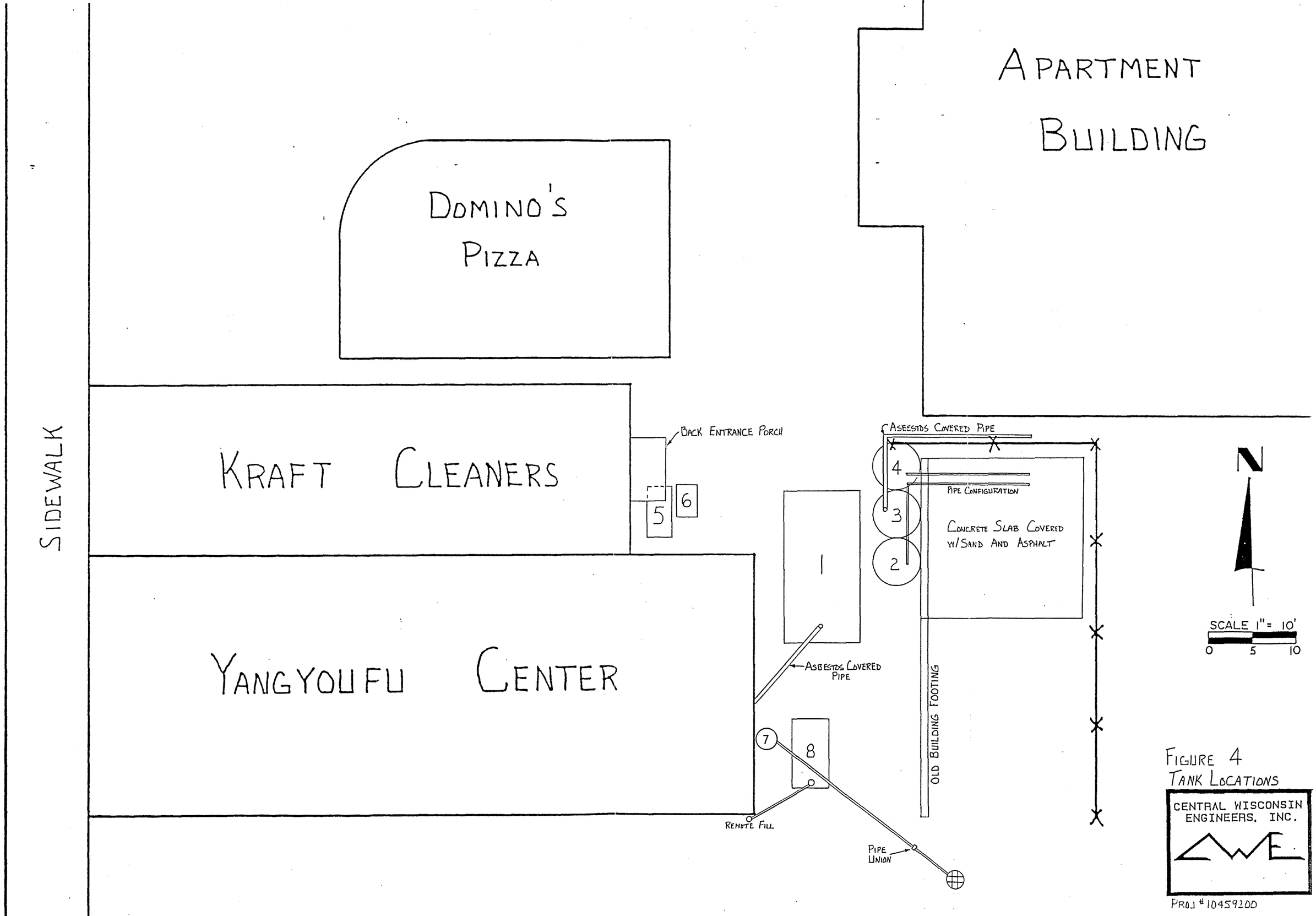


FIGURE 4
TANK LOCATIONS

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 1045920D

TABLE 1

Tank No.	Gallon	Dimensions in Feet	Contents	Date Installed	Tank Type	Tank Condition
1	8,000	9x18	stoddard solvent	unknown	coated steel	rusted
2	950	5.5x15 cone	unknown	unknown	coated steel	rusted, soil coated
3	950	5.5x5 cone	unknown	unknown	coated steel	rusted, some pits
4	450	5.5x5 cone	unknown	unknown	coated steel	rusted, scaling
5	@ 300	3x6	gasoline	unknown	coated steel	rusted, soil coated, scaling
6	@ 200	2.5x3.8	gasoline	unknown	coated steel	rusted scaling
7	@ 200	2.5x4	unknown	unknown	coated steel	rusted, scaling
8	1,000	4.5x8	fuel/oil	unknown	coated steel	rusted, some holes noted, soil coated

Tank inventory forms are in Appendix B.

3.0 SITE CONDITIONS

3.1 Soils

Fill around the tanks was primarily a medium to coarse sand. Much of the fill near Tanks 7 and 8 was burned debris, wood, bricks, glass and other debris.

3.2 Site Hydrogeology

Site specific hydrogeology is not known. Groundwater was not encountered during excavation.

3.3 Utilities

There were numerous overhead utilities in the area. Buried utilities included a natural gas line that ran along the east side of the building and east-west through the alley (see Figure 4). Ron Radtke from Wisconsin Fuel and Light was on-site during the tank removals.

4.0 FIELD INVESTIGATIONS

4.1 Tank Removal

Tank removal was initiated on May 7, 1992. At that date three underground storage tanks had been identified. Dale Kauzlaric, Central Wisconsin Engineers Environmental Engineer was on site and Peli-Clean did the excavating. The large tank (1) was uncovered and it was found to have a large quantity of an unknown liquid. The small gas tank (#6) was removed on May 7th, but further work was halted until the liquid in Tank 1 was identified. A sample from the tank was collected on May 26, 1992. The sample was sent to Waste Research & Reclamation for identification and it was classified as stoddard solvent a non-regulated petroleum distillate. The Preliminary Report of test results from WR&R is in Appendix C.

Arrangements were made with WR&R to pump Tank 1 and Weston Construction was contracted to perform the excavations. Tanks 1, 2, 3, 4, 5, 7, and 8 and all piping were removed on June 23-24, 1992. Carole Eldredge, Central Wisconsin Engineer's Environmental Specialist inspected the removals. The Wausau Fire Department and DILHR Inspector, Terry Bauer, were contacted prior to the start of both excavation dates.

4.2 Soil Sampling and Removal

Soil samples were collected and field tested with the Thermo Environmental Model 580A Organic Vapor Meter (OVM). Meter operation and calibration is outlined in the Standard Operating Procedures in Appendix A. Samples were collected from points required per ILHR 10.

Table 2
Field Sample Results

Field Sampling Results					Date: 6/23/92	
Sample No.	Approximate Depth	Reading	Odor	Temp.	Location of Sample	
1	ft	6.5 ppm	No	@ 72°F	soil from top of stockpile tanks 1 and 2	
2	10 ft	7.4 ppm	No	@ 72°F	under tank 2	
3	2.5 ft	7.0 ppm	No	@ 72°F	soil near manhole on tank 2	
4	1.5 ft	15 ppm	No	@ 72°F	east end of piping tank 3	
5	10 ft	36 ppm	No	@ 72°F	under tank 3	
6	10 ft	41 ppm	No	@ 72°F	under tank 4	
7	13 ft	10 ppm	No	@ 72°F	south end tank 1	
8	13 ft	1 ppm	No	@ 72°F	north end tank 1	

Table 2 - continued
Field Sample Results

Field Sampling Results					Date: 6/24/92	
Sample No.	Approximate Depth	Reading	Odor	Temp.	Location of Sample	
9	7 ft	0 ppm	No	@ 72°F	north end tank 5	
10	7 ft	0 ppm	No	@ 72°F	south end tank 5	
11	6 ft	0 ppm	No	@ 72°F	south end tank 6	
12	6 ft	0 ppm	No	@ 72°F	north end tank 6	
13	9 ft	0 ppm	No	@ 72°F	north end tank 8	
14	9 ft	0 ppm	No	@ 72°F	south end tank 8	
15	6 ft	0 ppm	No	@ 72°F	under tank 7	
16	3 ft	6.5 ppm	No	@ 72°F	south fill pipe	
17	2.5 ft	1 ppm	No	@ 72°F	union/pipe to sewer	

Sample locations are indicated on Figure 5.

4.3 Contaminated Soil Disposal

Field screening did not indicate that soils needed to be over-excavated. However, during excavation of Tank 6, Peli Clean Excavators punched a hole in the top of the tank. Some soil fell into the tank. That soil was contained in a 55 gallon drum stored on-site and amounts to approximately ¼ yd^3. Soil disposal is pending additional recommended work.

4.4 Tank and Sludge Disposal

Tank and sludge disposal was handled by WR&R and A&D Recycling. Sludge and tank solids were temporarily stored on-site.

4.5 Asbestos Pipe Disposal

HSA Contractors were contracted to dispose of asbestos covered pipes. The pipes were hauled to Marathon County Landfill.

4.6 Soil Samples for Laboratory Analysis

Eighteen (18) soil samples were collected for laboratory analysis. Sample locations are indicated on Figure 5. The samples were preserved in laboratory-supplied clear glass jars with airtight, screw-on teflon-lined lids. Samples were collected with a hand trowel cleaned between samples with Alconox detergent and reagent grade water. The sample locations were recorded and the jars stored in a cooler on ice to minimize

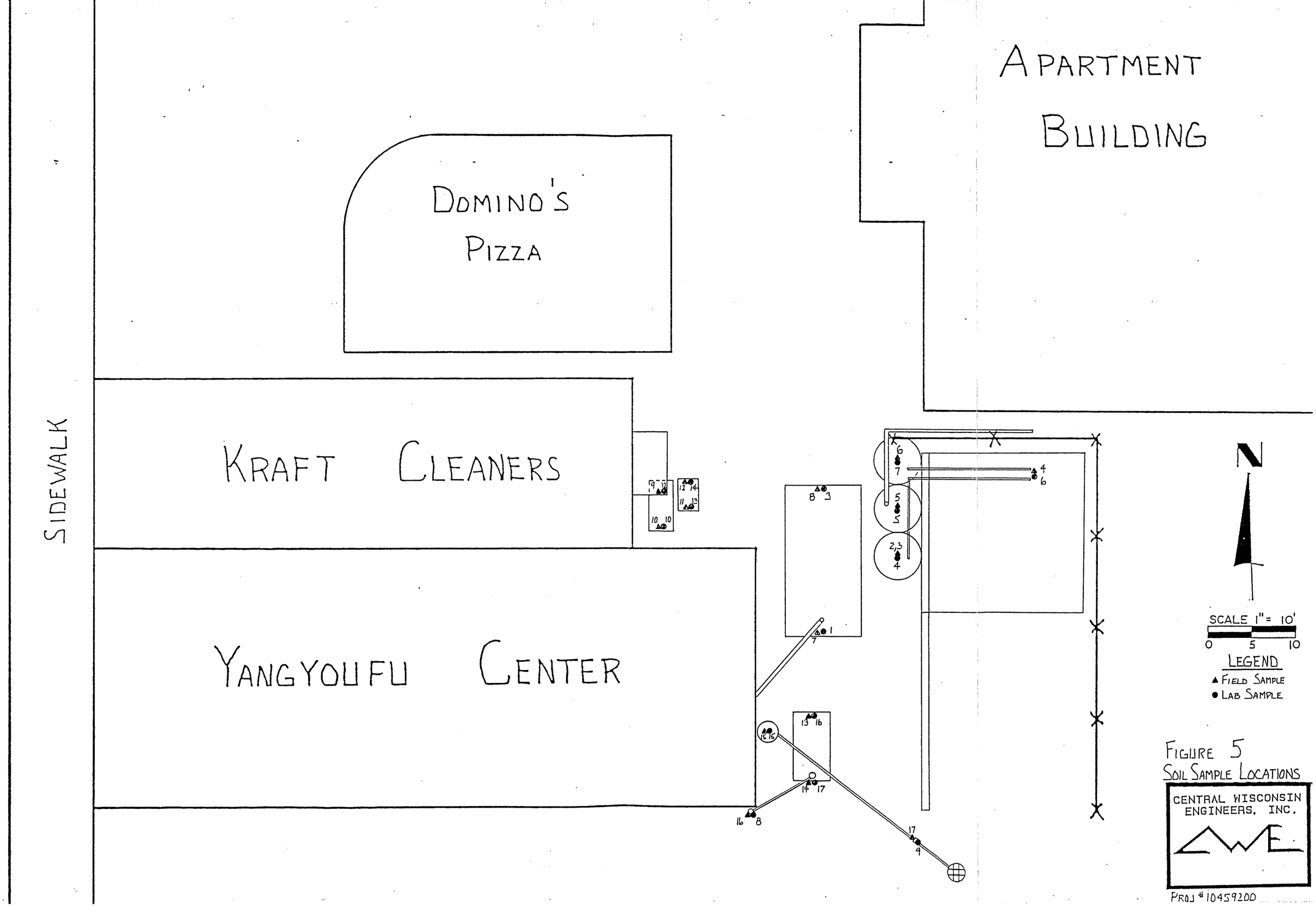


FIGURE 5
SOIL SAMPLE LOCATIONS

CENTRAL WISCONSIN ENGINEERS, INC.

PROJ # 10459200

volatilization. The samples were shipped to the lab by Central Wisconsin Engineers, Inc. personnel. The chain of custody is in Appendix D with the complete lab results.

5.0 LABORATORY TESTING

The samples were analyzed at Ortek, Green Bay, Wisconsin (License #405099530), a WDNR-approved laboratory. Sample analysis is summarized in Table 3.

Table 3

Soil Chemistry in mg/kg or parts per million

Figure 5 #	Sample Location	Depth in Feet	GRO	DRO
1	south end tank 1(A)	7	ND	ND
2	south end tank 1(B)	7	ND	ND
3	north end tank 1	8	ND	ND
4	bottom tank 2	10	ND	ND
5	bottom tank 3	10	ND	ND
6	east end of piping run (tank 3)	1.5	20	ND
7	bottom tank 4	10	ND	ND
8	south corner fill pipe (tank 8)	3	ND	ND
9	union/pipe to storm sewer (tank 7)	2.5	ND	35
10	south end tank 5(A)	7	ND	ND
11	south end tank 5(B)	7	ND	ND
12	north end tank 5	7	ND	ND
13	south end tank 6	6	ND	ND
14	north end tank 6	6	ND	ND
15	bottom tank 7	6	ND	ND
16	north end tank 8	9	ND	ND
17	south end tank 8	9	ND	ND

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ND = Not Detected

<u>NOTE</u>: Figure 5 #'s do not correlate with the complete analytical report in Appendix D.

Sample #2 is a duplicate of #1; Sample #11 is a duplicate of #10

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on field observations and analytical test results the impact to soil from the tank contents is minimal. There were two soil samples that had detections of petroleum products (Table 3).

The sample collected from under the east end of the multiple piping from tanks 2, 3, and 4 had a concentration of 20 parts per million gasoline range organics. The soil sample collected from under the pipe union (piping from tank 7 to storm sewer) had a concentration of 35 parts per million diesel range organics.

The March 1992 Guidance for Conducting Environmental Response Actions states that "soil remediation is required for all contaminated soils to background levels or alternative levels approved by the Department. Soil clean up goals are non-detect or background".

It is the opinion of Central Wisconsin Engineers that the two areas of soil contamination can be remediated by over-excavation. We propose to dig test pits at the east end of the piping run from tanks 2, 3, and 5 and at the tank 7 pipe union. The concentration of soil contamination at these areas was minimal. Because the areas were covered with blacktop, it is not likely that soil contamination is very deep, or extensive.

7.0 GENERAL QUALIFICATIONS AND LIMITATIONS

Field and laboratory tests were conducted on samples collected at the locations specified in this report. Sample locations, numbers and parameters analyzed for in each sample were determined by Central Wisconsin Engineers, Inc. personnel in general

accordance with the Wisconsin Department of Industry, Labor & Human Relations "Tank Owners Guide to Underground Storage Tanks (October 1990) and the Wisconsin Department of Natural Resources (WDNR), Leaking Underground Storage Tank (LUST) Analytical Guidance (June 1991). Variation in soil tests may occur in both the horizontal and vertical directions between any test locations. Because of these potential variations, no warranty or guarantee, expressed or implied, can be made by Central Wisconsin Engineers, Inc. in respect to all in-place soils, excavated soils or groundwater quality at the site.

The results and conclusions contained herein are based upon the data supplied to Central Wisconsin Engineers, Inc. by the analytical laboratory(ies) indicated in the Appendices.

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APPENDIX A

STANDARD OPERATING PROCEDURES

CENTRAL WISCONSIN ENGINEERS, INC.

STANDARD OPERATING PROCEDURES

Prepared by:

Central Wisconsin Engineers, Inc.
903 Grand Avenue
Rothschild, WI 54474
Phone: 715-359-9400

TABLE OF CONTENTS

Standard Groundwater Sampling Procedures CWE SOP GWSAMP-1

Standard Procedures for Collection of Soil Samples CWE SOP SOILSAMP-1

Soil Vapor/Air Emissions Monitoring Procedures CWE SOP SVSAMP-1

Standard Procedures for Performing Field Hydraulic Conductivity Tests (Baildown Tests) CWE SOP BDTEST-1

Standard Field Meter Operating Procedures

- Photoionization Detectors CWE SOP METEROP-1
- Flame Ionization Detector CWE SOP METEROP-2
- Trimonitor CWE SOP METEROP-3
- Combustible Gas Indicator CWE SOP METEROP-4

STANDARD GROUNDWATER SAMPLING PROCEDURES

Issue Date	Revision	Description	By	Approved
8-13-92	II	Changes per NCD DNR Comments	CJE	H-Z

STANDARD GROUNDWATER SAMPLING PROCEDURES
CWE SOP GWSAMP-1

I Review past sampling data and well logs. It is the project manager's responsibility to make sure the field technicians are fully informed on pertinent site information.

II Be sure equipment is field ready and clean.

Bailers:
- PVC (dedicated per use, see Section X)
- Teflon

Water level measuring device:
- Solinst - 300-foot or 100 foot electric tape

Thermometer
- Ertco ASTM 2 75MM 1MM thermometer

pH meter:
- Orion SA 250 pH Meter

Conductivity meter:
- Yellow Springs Instrument Co., Model 33

Filtering equipment:
- QED QuickFilter system
  - QuickFilter Transfer Vessel
  - electric or hand pump
  - standard QuickFilters 0.45 micron
  - high capacity QuickFilters 0.45 micron

Sample containers (as received from lab): container type and size vary with parameter to be analyzed. Be sure to check with lab and/or project manager regarding container type, size, preservation and if sample needs field filtration.

The following is a general list of most commonly used containers:

- 250 ml Nalgene bottles (for inorganic indicator parameters)
- 500 ml Nalgene bottles (for leachate inorganic parameters)
- 500 ml Nalgene bottles (for transfer bottles)
- 500 ml Nalgene bottles - pre-acidified with HNO_3 (for metals, filtered)
- 500 ml Nalgene bottles - pre-acidified with HNO_3 for unfiltered lead samples
- 25 or 100 ml Nalgene bottles - pre-acidified with HNO_3 (for iron only, filtered)
- 1000 ml amber glass bottles (one each for phenols and PAHs)
- 1000 ml amber glass bottles - pre-acidified with 5 mls 50% HCl (for diesel-range organics)
- 1000 ml glass bottles - pre-acidified with H_2SO_4 (for oil & grease)
- 40 ml VOC bottles with Teflon septa - pre-acidified with HCl (for full VOC scan, PVOC, or GRO).
- Reagent grade water (organic free and distilled)

III Rinse filters with 500 mls of reagent grade water (can be done before going out in the field).

IV Order of sampling

Sample upgradient (or least contaminated) wells first and continue sequentially to downgradient (or most contaminated) wells.

V Determine depth to water.

A. Turn on electric water level device and rinse once with reagent grade water.

B. Lower into well until device sounds.

C. Use thumb and fore finger to hold tape and determine the precise depth from the high point (or marked reference point) of the permanent well casing.

D. Record this value to the nearest 0.01 ft in field notebook or other suitable location.

E. Rinse device with reagent grade water.

VI Well purging procedures

- Use dedicated 5-foot PVC bailer. Do not allow rope to lay on bare ground, contain in bucket or on plastic tarp. Contain water in 55-gallon drums if it is known to be contaminated above preventative action limits or if PID screening shows any detections. Project Manager: You are responsible for water disposal.

A. Bail the well dry (well can be considered dry if it has less than 1/2 foot of water in it). Allow well to recover and repeat process (if time permits).

or

B. Remove four times the volume of the well (see calculation sheets for appropriate volumes). Measure the volume of water removed by pouring purge water into a calibrated 5-gallon bucket (preferred method) or counting the number of bailer-volumes removed.

It generally takes 15 - 30 minutes to purge watertable wells and 60 - 90 minutes to purge piezometers.

Note: It is occasionally acceptable to purge all wells, then go back and sample the wells (e.g., in areas with slow recharge). In these instances, the wells should be purged no more than 24 hours prior to sampling. Make a note in the sampling log. Follow the same sampling procedure/sequence each time.

VII Sample well as soon as there is adequate volume for all parameters. If possible, perform all procedures at the well. Wear latex gloves during sampling procedures, change gloves between sampling points.

A. VOCs

1. Use Teflon bailer and Teflon leader or dedicated PVC bailer.
2. Lower gently into well and retrieve sample causing a minimal amount of turbulence. Do not allow bailer to free fall into water or touch bottom of well.
3. Insert bottom emptying device and drain off a bit of water to clear opening.
4. Carefully fill sample bottles causing a minimal amount of turbulence, fill to just overflowing and a positive meniscus.
5. Replace cap and tighten. Invert bottle and tap on hard surface to check for air bubbles. Do not reopen bottle. If any bubbles are present, sample again with new vial.
6. The bailer rope should be kept on a reel, coiled and placed on a clean plastic tarp to prevent the rope from coming in contact with the ground.
7. Place sample in ziploc bag, double bag if necessary.

Note: Note any sources of contamination such as gas cans, gas stations, auto exhaust, etc. In any case keep the caps off the bottles for as short of time as possible. Make notes on any potential sources of contamination. Do not run vehicle near sampling point.

VOC samples are generally taken within five minutes of the well being purged. VOC are the first samples collected.

B. Field measurements

1. Temperature
   a. Rinse thermometer with reagent grade water.
   b. Immerse in sample and allow reading to stabilize.
   c. Read and record temperature to nearest 0.5°C while still immersed.
   d. Rinse and return to case.

2. Conductivity
   a. Set-up and calibrate meter.
   b. Set dial to desired range (i.e., x100 μmhos/cm).
   c. Rinse probe with reagent grade water.
   d. Take reading by following instrument instructions.
   e. Adjust reading by multiplication factor and record.
   f. Rinse cell with reagent grade water and replace in case.
   h. Correct field reading to 25°C using the formula:

   field conductivity value x 1.02^{n} = actual conductivity value
   where n=25°C - field temp.(°C)

3. pH
   a. Set up and calibrate meter using two standardized Fisher buffer solutions (pH 7.0 and either pH 4.0 or pH 10.0, depending upon the expected pH of sample).
   b. Rinse electrodes with reagent grade water.
   c. Immerse electrodes in sample and allow reading to stabilize.
   d. Read and record pH to nearest 0.1 pH unit.
   e. Rinse electrode with reagent grade water and return to case.

Field measurements are generally completed within twenty minutes of purging the well.

C. Metals and other inorganics

1. Teflon or PVC bailers can be used.
2. Retrieve samples as with VOCs (same bailer volume can be used).
3. Filter sample.

   a. Rinse entire filtration apparatus three times with at least 100 ml reagent grade water, use pre-rinsed 0.45 micron standard QuickFilter. A high capacity QuickFilter may be used if sample is especially turbid.
   b. Rinse filter with sample (approx. 100 mls), swirl around filter flask and discard.
   c. Filter adequate amount of sample to fill sample bottles.
   d. Fill sample bottles

      i. metals, phenols - do not rinse any acidified bottle, just fill and cap.
      ii. other inorganics - rinse bottle with sample and discard. Fill bottle to the top, leaving as little headspace as possible.
   e. Rinse filtration flask with reagent-grade water.

We expect the sample to be filtered, acidified (if necessary), and stored on ice within 30 minutes of the well being purged.

<u>Note for Lust Sites</u>:

⚠ Analysis for total lead, dissolved lead and/or cadmium is required at LUST sites. Samples should be handled on a <u>site specific basis</u>. It is the project manager's responsibility to notify sampling personnel if samples should be field filtered, following the WDNR project manager's request and current LUST Release. Include previous note for LUST site as shown in Revision I.

Do not filter sample. Do not rinse bottle. Simply fill the one liter unpreserved amber glass bottle.

E. Leachate head wells

1. Do these wells last.
2. Record depth to water.
3. Do not purge these wells.
4. Use a Voss polyethylene single sample disposable bailer.
5. Run pH and conductivity (see above).
6. Do not filter.
7. Fill all appropriate sample bottles.
8. Wash pH and conductivity meters with alconox and triple rinse with distilled water.
9. Properly dispose of gloves and bailer.

F. Data recording

Record the time when the various procedures were performed (purged, sampled, filtered, etc.). Record any obvious sample odor. Note any variations from the sampling plan. Record all information on either a field procedure sheet or in a field sampling notebook. File under well data.

Note: It is not always possible or practical to run pH and conductivity, or filter the sample at the well. In these situations it is acceptable to (1) fill all sample containers that do not need to be filtered, (2) fill a clean, sample-rinsed transfer bottle with enough water for all remaining sampling requirements (e.g., pH and conductivity analysis, filtering for metals, etc.), (3) perform remaining activities as soon as possible, preferably before going on to next well and certainly within a few hours.

VIII Quality Assurance/Quality Control

A. Field blanks

1. Blanks for each sample type (VOC, metals, inorganics) should be taken at least once per site or once per ten samples, whichever is greater.
2. Use clean sampling equipment.
3. Fill sampling device with reagent grade water.
4. Repeat sampling process (including filtration) for each of the parameters.
5. Label as an additional monitoring well (#30-39). Be sure to note this in field data.

B. Duplicates

B. Duplicates

Collect a duplicate sample for each parameter from the same bailer volume at least once per site or once per ten samples, whichever is greater. Treat it the same as the original sample. Do not label it as a duplicate but rather as an additional monitoring well (#40-49). Be sure to make a note of it.

C. Trip blanks

A trip blank should be supplied by the lab whenever VOC samples are taken. Do not open this bottle during the sampling procedures. Simply include it with the other VOC samples when they are delivered to the lab.

D. Temperature blanks

A temperature blank is needed only when blue ice is used. Exact sample temperature is not needed for samples shipped on ice. All samples will be shipped on ice. Ice should be in cooler before going to site. Store bottles (especially for VOCs) on ice.

IX Sample delivery and analysis

A. Sample holding and transport

Store samples on ice in coolers. Complete the chain-of-custody documents for the appropriate lab. If possible, mail or hand deliver all samples to the lab on the same day that the samples were taken, otherwise deliver the samples as soon as possible (remember the two week sample holding time starts when the sample is taken). Put pink copy in wall holder.

B. Laboratories used

1. Central Wisconsin Enviro Lab, Inc., 5907 Prarie Street, Schofield, WI 54476 Lab Certification No. 737125510
2. Environmental Task Force, UW-Stevens Point, Rm 220 CNR, Stevens Point, WI 54481. Lab Certification No. 750040280
3. Enviro-Scan, 303 W. Military Rd., Rothschild, WI 54474. Lab Certification No. 737053130
4. ORTEK Environmental Laboratory, 2496 West Mason Street, Green Bay, WI 54307-2435. Lab Certification No. 405099530

X Clean equipment

After each day of sampling, all equipment should be washed including sample cases and protective clothing. Wear clean gloves during cleaning.

A. Bailers:

Clean with steam pressure washer.

1. Spread blue washing tarp on floor of washing area.
2. Place bailers (PVC and Teflon) on tarp.
3. Rinse well with steam cleaner.
4. Fill 5-gallon bucket with warm water and Alconox. Use bailer cleaning brush to wash all the bailers with soap and water. Be sure to take bailers apart (remove threaded bottom piece and check valve ball). Scrub inside and out.
5. After all bailers have been cleaned, rinse again with steam cleaner.
6. Triple rinse all bailers with reagent grade water.
7. Cover individual bailers with protective plastic sheaths.
8. Store in bailer bag.

B. Field Equipment (pH meter, conductivity meter, water level indicator):

This equipment should be triple rinsed with reagent grade water in the field after every use. If any equipment gets exceptionally dirty it may be washed (gently) with a warm water and alconox solution, then triple rinsed with reagent grade water.

C. Other Equipment (buckets, tarps, ropes, etc.)

This equipment can be cleaned the same as the bailers. Use dedicated rope or teflon leader on contaminated wells.

STANDARD PROCEDURES FOR

COLLECTION OF SOIL SAMPLES FOR

LABORATORY ANALYSIS

Issue Date	Revision	Description	By	Approved
4-16-92	I	Changes per meeting, 5-14-92	ARK	A.Z

6/29/92

STANDARD PROCEDURES FOR COLLECTION OF SOIL SAMPLES CWE SOP SOILSAMP-1

Central Wisconsin Engineers, Inc.'s soil sampling procedures follow the Leaking Underground Storage Tank (LUST) Quality Assurance Plan.

1.0 Sampling Procedures

Soil samples collected at LUST sites will be handled in a manner that is consistent with the analytical testing to be performed and that preserves the integrity of the sample. Samples will be handled in a manner that minimizes loss of organic contaminants due to volatilization or biodegradation. Appropriate sampling devices must be capable of rapidly collecting samples with a minimum of atmospheric exposure. All soil samples for laboratory analysis should be collected from a freshly exposed surface (at least 18" below the initial surface). For this reason, lab samples should be collected before screening samples (i.e., soils for lab analysis must not be exposed to the atmosphere while screening is being done). Screening samples may be taken before laboratory samples are taken if the lab samples are taken from a freshly exposed surface and if the soils have not been exposed to the atmosphere while screening is performed. Separate samples will be collected for laboratory analysis and field screening. All samples will be cooled to 4° C immediately after sampling and kept at 4°C or may be stored on ice until they arrive at the laboratory.

Sampling locations will be selected in accordance with "Assessments for Underground Storage Tanks: Soil Sampling Requirements - Attachment 3", and the Environmental Response and Repair Program (ERRP) Corrective Action Guidance.

Sample preservation, container type and number of containers per sampling location will follow specified WDNR and analytical laboratory requirements.

2.0 Sample Preservation for Modified GRO Method

a) Sampling

Soil can be collected using a 30 ml plastic syringe with the end sliced off, a scoopla spatula, or a hand trowel. Work quickly and minimize agitation of the soil to prevent loss of volatile contaminants. Add a soil volume of 15-20 mls (corresponding to 25 gms) to the vial. Samplers may use a scale prior to sample collection to determine the volume of soil at the site weighing 25 gms, to help visually estimate approximately 25 gm samples. Place the soil in an empty (but tared) 40 or 60 ml VOC vial. Be sure to clean all sediment from the vial threads. Use a clean toothbrush or other clean utensil to sweep particles off the rim. Secure the vial cap. Cool all samples to 4°C immediately after collection.

b) Preservation

After field screening has been completed and those vials that will be sent to the laboratory for analysis have been identified, add methanol only to the vials which will be analyzed by the laboratory. The methanol must be added to the sample within 2 hours of sample collection.

c) Methanol Transfer - three acceptable methods

1) Transfer 25 mls of methanol (laboratories should be able to supply vials containing premeasured amounts of methanol) from one septa vial to the sample vial with a common laboratory glass syringe and noncoring type syringe needle. Use a fresh syringe needle for each new vial to avoid cross contamination.

2) Transfer 25 mls of methanol from one septa vial to the sample vial by opening the sample vial and pouring in all of the 25 mls of methanol.

3) If all samples taken will be sent to the laboratory, the 25 gms of soil may be put in a vial containing the 25 mls of methanol.

d) Handling and Shipping

After securing vial cap or transferring methanol, shake the vial to coat the soil with methanol. Immediately replace the sample on ice to cool to 4°C. Properly label each sample collected. Assign an I.D. to the sample and write the number directly on the sample label. Also, write the number in the field notebook along with verbal description of the sample location and write the number on the site sketch. Identify the soil type (e.g. sand, silt, clay or intergrade). Note any obvious sample odor, but do not sniff soil samples. Record all observations in the field notebook. Vials should be placed in separate reusable plastic bags to avoid any problems that might occur if a vial leaks. Be sure to ship vials in an upright position. Vials must be securely packed and cushioned to prevent breakage. Packaging must be strong enough to hold up to the intended use. The maximum package weight is 65 pounds. If the methanol has leaked from the vials in transport to the lab, the Department will ask for resampling. Shipping time should be minimized and sample must be received by the lab within 4 days. Complete all proper chain of custody forms including WDNR forms.

e) Number of Sample Vials

A sufficient number of vials (three recommended) should be collected to provide for backup analysis in the event of breakage and to allow for screening. In addition, one vial should be collected for dry weight determination (without methanol). A total of 4 sample vials are to be collected from each sampling point (three preserved, one not preserved).

A methonol trip blank, supplied by the laboratory, must accompany the samples.

3.0 Sampling for Modified DRO Material

a) Sampling

Soil can be collected using a 30 ml plastic syringe with the end sliced off, a

scoopla spatula, or a hand trowel. Work quickly and minimize agitation of the soil to prevent loss of volatile contaminants. Add a soil volume of 15-20 mls (corresponding to 25 gms) to the vial. Samplers may use a scale prior to sample collection to determine the volume of soil at the site weighing 25 gms, to help visually estimate approximately 25 gm samples. Place the soil in an empty (but tared) 40 or 60 ml VOC vial. Be sure to clean all sediment from the vial threads. Use a clean toothbrush or other clean utensil to sweep particles off the rim. Secure the vial cap. Cool all samples to 4°C immediately after collection.

b) Preservation

No field preservation is necessary with modified DRO method. Extraction solvent must be injected through the septum of the soil vials within 18 hours of their receipt by the lab to insure preservation.

c) Handling and Shipping

No special handling or shipping is required for Modified DRO samples. Samples must be received by the lab within 4 days.

d) Number of Sample Vials

A sufficient number of vials (three recommended) should be collected to provide for backup analyses in the event of breakage. In addition, one vial should be collected for dry weight determination. A total of 4 sample vials are to be collected from each sampling point.

In addition, one duplicate sample must be collected with every 10 samples (or less) collected.

4.0 Sampling for Petroleum Volatile Organic Compounds (PVOC)

a) Sampling

Soil can be collected using a spatula, hand trowel or latex glove. Work quickly and minimize agitation of the soil to prevent loss of volatile contaminants. Add soil to fill a 4 oz glass jar with a teflon lined cap. Be sure to clean all sediment from the jar threads prior to sealing cap.

b) Preservation
No field preservation is necessary with PVOC method.

c) Handling and Shipping

No special handling or shipping is required for PVOC method. Sample holding time is limited to 14 days from date of collection.

d) Number of Sample Jars

Two (2) four ounce sample jars should be collected for each sampling point.

In addition, one duplicate sample must be collected with every 10 samples (or less) collected.

5.0 Sampling for Total Recoverable Petroleum Hydrocarbons (TRPH)

a) Sampling

Soil can be collected using a spatula, hand trowel or latex glove. Excessive soil handling should be avoided. Soil samples should be collected without headspace in contaminant-free wide mouth 8 ounce bottles with teflon lined caps. Be sure to clean all sediment from the jar threads prior to sealing.

b) Preservation

No field preservation is necessary with TRPH Modified method.

c) Handling and Shipping

No special handling or shipping is required for TRPH Modified method. Sample extraction by lab must be performed within seven (7) days from date of collection.

d) Number of Sample Bottles

Three (3) eight ounce bottles should be collected from each sampling point to provide for backup analyses in the event of breakage and to allow for dry weight determination.

In addition, one duplicate sample must be collected with every 10 samples (or less) collected.

6.0 Field Quality Assurance

Field QA samples will be handled in a manner identical to that used for actual samples. Results of the analysis of replicates, field, and trip blanks will be included in the written final report and will be taken into account in the data assessment portion of the report. One duplicate sample will be taken for every 10 samples (or less) collected. One temperature blank will be included per sampling event (batch of samples).

7.0 General Requirements

a) Soil samples must be collected in a manner which causes the least disturbance to the sample.

b) Composite samples are not to be collected for purposes of complying with the closure assessment requirements, but may be appropriate in other circumstances (with prior WDNR approval).

c) All soil samples shall be properly labeled with the sample number and collection date.

8.0 Materials Required

a) disposable latex gloves

b) stainless steel trowel

c) reagent grade water (double distilled organic free)

d) tap water

e) Alconox detergent

f) bucket

g) brush

h) properly preserved laboratory supplied sample jars

i) wash water containment if necessary (based on PID/FID detection)

j) syringe/hand auger

9.0 Soil Sampling Methods for UST Closures

a) When the UST system is closed by removal of the tank system from the ground, the following sample collection method must be used:

i) If the excavation, pipe trench or other sampling location can be entered in accordance with applicable OSHA regulations, samples may be collected using a hand auger or trowel.

ii) If, in the opinion of the field personnel, the excavation, pipe trench or other sampling location cannot be entered safely for sampling, the sample must be collected from the excavation using a hand auger with extension or from the backhoe bucket.

b) When the UST system is closed in place, soil samples shall be collected through one of the following techniques:

i) If the tank can be safely entered and has been properly cleaned, samples can be collected through holes cut in the tank. They shall be collected using a hand held soil auger or trowel.

ii) If the samples are to be collected by drilling, then split spoon (barrel, tube) samplers or thin-walled (Shelby) samplers must be used when conditions permit. Grab samples from drill cuttings cannot be used unless undisturbed samples are impossible to collect.

c) Whenever hand held tools are used to collect samples, the first three to four inches of soil must be scraped away immediately before sampling so that the sample is collected from a previously unexposed soil area.

d) All soil sampling tools must be thoroughly cleaned between all sampling points using water/detergent solutions, methanol, or other appropriate solvents.

10.0 Soil Sampling Methods for Site Investigations

a) Soil samples collected during the construction of test borings or monitoring wells will be collected in the following manner:

i) Samples will be obtained by using a split spoon sampler. The samples will be obtained by driving a two or three-inch diameter (OD) sample spoon with a 140-pound weight free falling 30 inches. The split spoon sampler will be steam cleaned prior to initial use and cleaned with water and Alconox detergent and rinsed with double distilled organic free water, prior to each sample collected.

ii) Soil samples will be collected from the split spoon sampler with a stainless steel trowel or disposable latex gloves and placed in the appropriate laboratory supplied container.

iii) All soil sampling tools must be thoroughly cleaned between all sampling points using water/detergent solutions, methanol, or other appropriate solvents.

11.0 Sample Containers for Laboratory Analysis

a) Samples shall be collected in glass or inert synthetic containers obtained from or approved by the certified laboratory which will analyze the samples. Polyethylene bags are not to be used for laboratory samples.

b) All sample containers shall have Teflon or equivalent lined caps.

c) Sample containers shall be filled to the top such that no headspace remains.

d) The use of "wide mouth" vials is highly recommended.

12.0 Sample Handling

a) Properly seal samples - no sand or other debris on the threads of the vial/bottle.

b) Label samples prior to collection or immediately following collection.

c) Chill samples immediately using adequate quantities of ice to maintain temperature at 4°C or below. Note: Closure assessment documentation requires analytical laboratories to report sample temperatures if "blue ice" is used or solid ice is melted. Improper storage resulting in sample warming could result in rejection of report results.

d) Follow chain of custody procedures. Fill out Chain of Custody Record, Form 4400-151, Standard Data Reporting Form, Form 4400-152 and Laboratory Chain of Custody Form.

e) Ship samples to analytical laboratory as soon as possible. Do not allow samples to be held so long that the maximum holding time is exceeded.

f) Unless otherwise specified, the maximum holding time for soil samples collected for TPH analysis is 14 days.

NOTE: Headspace analysis using field instruments will not be performed on samples collected for lab analysis. Duplicate samples shall be collected for headspace analysis.

103:stdproc

STANDARD SOIL VAPOR/AIR EMISSIONS

MONITORING PROCEDURES

Issue Date	Revision	Description	By	Approved
4-16-92		Original Issue	R.T.	H-L 5-4-92

STANDARD SOIL VAPOR/AIR EMISSIONS MONITORING PROCEDURES
CWE SOP SVSAMP-1

TOTAL HYDROCARBON QUANTIFICATION

EQUIPMENT

- Century OVA Model 108 Hydrogen Flame Ionization Detector
- Disposable Sample Bags
- 3/16" I.D. vinyl tubing
- Magnehelic pressure gauges

PROCEDURE

a. Connect 3/16" I.D. vinyl tubing to sample port on discharge side of blower.

b. Connect vinyl tubing to sample bag.

c. Insert sampling probe of Century OVA Model 108 hydrogen flame ionization detector into sample bag. Read concentration directly from readout assembly.

d. If flame out is experienced, connect 10:1 serial dilution device in series according to manufactures recommendations.

e. Record total VOC concentration (c) in parts per million (ppm) methane equivalents.

f. Record inlet vacuum pressure at blower using appropriate pressure gauge.

g. Obtain flow rate (Q) from blower curve based on vacuum pressure.

h. Calculate pounds per hour (q) using $q = CQK$ where $K = .000015$.

i. Adjust flow with dilution air as needed to meet emission regulations of 5.7 pounds per hour.

BENZENE QUANTIFICATION

EQUIPMENT

- 150 mg charcoal tubes
- MSA flow-lite pump
- Dwyer Visi-Float 4" scale flowmeter - 0.2 to 4 liter per minute air range
- 3/16" I.D. vinyl tubing
- SKC soap film flow meter

PROCEDURE

a. Calibrate MSA pump in office using SKC soap film flow meter.

b. Check calibration of pump prior to sampling using Dwyer Visi-Float Flowmeter.

c. Connect 3/16" I.D. vinyl tubing to sample port on discharge side of blower.

d. Insert inlet side of 150 mg charcoal tube into vinyl tubing.

e. Insert outlet side of 150 mg charcoal tube into charcoal tube holder attached to MSA Flow-Lite pump.

f. Draw discharge air through charcoal tube at a maximum flow rate of 1000 cc/min. Record flow rate, start time,and stop time. NOTE: Multiple samples at various volumes of 1 to 10 liters must be taken in case of break through. The saturation limit of the sample portion is approximately 15 milligrams of total solvent.

g. Record blower discharge flow rate.

h. Store sample on ice pending delivery to lab.

i. Submit sample to lab for benzene analysis using EPA method 8020.

AIR EMISSIONS CALCULATIONS

To calculate #/hour total VOCs.

$$q = CQK$$

where

q	=	#/hour of total VOCs
C	=	Total VOC Concentration in ppm on a volume/volume basis (ppm-v/v).
Q	=	Flow Rate (scfm) 1 ATM, 60°F
K	=	Constant = .00001503 for total VOCs for benzene

K is determined as follows:

$$1\ ppm\text{-}v/v = \frac{1\ \ell}{10^6\ \ell}$$

therefore,

$$\frac{1\ \ell}{10^6\ \ell} \times \frac{1\ mol}{23.69\ \ell} \times \frac{95.0\ g}{mol} \times \frac{1\ lb}{453.6\ g} \times \frac{1\ell}{0.0353\ ft^3} \times \frac{60\ min}{hr}$$

thus,

K = .00001503 lb-min/ft^3-hr/ppm

(Units cancel when multiplying by CFM)

103:soilvap.air

FIELD HYDRAULIC CONDUCTIVITY TESTS

BAILDOWN TESTS

Issue Date	Revision	Description	By	Approved
4-16-92		Original Issue	P.D.a.	A-Z

5-4-92

STANDARD PROCEDURES FOR PERFORMING FIELD HYDRAULIC CONDUCTIVITY TESTS (BAILDOWN TESTS) CWE SOP BDTEST-1

Hydraulic conductivity can be determined in the field by various methods. All of these methods include removing or recharging a volume of water from a well instantaneously or at a specified rate. The tests conducted at a specified rate are typically called pumping tests. The tests recharging or removing a specified volume are called slug tests or bail-down tests. The common principle is to put a stress on the groundwater system and to watch the groundwater level changes through time. Unlike pumping tests, the "slug test" has a limited drawdown and a short duration and therefore gives values only for the materials close to the well. Because of this, measurements on several wells are needed to characterize the soils under a site.

FIELD PROCEDURE

Equipment:
- Bailer or pump
- Water level indicator or tape
- Watch with a second hand
- Field sheets

1. Record the inside diameter of the riser pipe.

2. Measure the depth to static water before bailing.

3. Bail the well as low and as quickly as possible (especially in highly permeable soils) and measure the water level. Record this as D_t at time 0. Bailing the well as low as possible increases the recovery time and makes the test less sensitive to errors in water level measurements.

4. Record depth to water at 30-second intervals for the first few minutes. Then increase the intervals until the water level has stabilized. Record the time to the nearest second (12:05:32). The purpose here is to record and be confident that the plot is a straight line. Generally, 5 measurements equally spaced through time is a minimum; 9 or more are desirable.

ADDITIONAL INFORMATION NEEDED

In order to calculate the permeability, the following well construction information is needed:

1. Radius of the bore hole at the intake point or pipe diameter and gravel pack thickness.

2. Length of the interval contributing flow into the well (screened interval or open hole).

3. Gravel pack length or position of seal in piezometer.

ANALYSIS

There are several methods available to calculate hydraulic conductivity. The method explained below (Naval Facilities Design Manual, 1971) produces satisfactory results. Three other methods, Cooper (1967), Bouwer (1976) and Hvorslev (in Freeze and Cherry, 1979, p. 340) are attached for reference.

The equation used is:

$$K = \frac{r^2}{2L(t_2 - t_1)} \ln(L/R) \ln(H_1/H_2)$$

where

r	=	radius of the standpipe (cm)
R	=	radius of bore hole at the intake point (cm)
L	=	length along which water can enter the well (cm)

$H_1/H_2 = H_{t1}/Ho \ / \ H_{t2}/Ho$ = ratio of head values (taken from log plot)

t	=	time after bailing stops (sec) (taken from log plot)
K	=	hydraulic conductivity (permeability) (cm/sec)

Although the equation was developed for piezometers, it can be used for water table observation wells as long as values for r, R and L are chosen with consideration for the geometry of the well and the position of the static water level.

LENGTH (L)

Where the static water level is above the top of the gravel pack, the entire length of saturated gravel pack should be used even when it is greater than the screen height (assuming the gravel pack is more permeable than the formation). Where the well is screened through units of widely differing permeabilities, a reasonable estimate of K can be obtained by using the length that is screened through the unit of greatest permeability.

RADIUS OF CASING (r)

The function of this term in the equation is to input the quantity of water moving into or out of the well. (The π term drops out of the equation.) Therefore, if the water level is rising in the solid casing (diagram B), r is equal to the inside radius. If the water level is rising in the screened interval (diagram A), r is equal to the radius of the screen plus the thickness of the gravel pack times the porosity of the gravel pack.

RADIUS OF BORE HOLE (R)

In cases where the aquifer is less permeable than the gravel pack, R will be the standpipe radius plus the gravel pack thickness. In highly permeable aquifers, where the permeability of the pack is not much different from that of the aquifer, the standpipe radius, r, can be used for R.

ASSUMPTIONS

The above method assumes an instantaneous discharge for water from the well. In highly permeable materials the well may recharge so quickly that the error in the initial reading D_{to} is significant. In these cases, the D_{to} can be calculated by measuring the volume of water withdrawn and knowing the geometry of the well.

In addition, the method is designed for situations where the static water level is at or above the top of the gravel pack or piezometer seal. Since water table observation wells are often designed so that the water table intersects the screened interval, this assumption is violated. The differences in permeability calculations, however, should not be significant for these purposes.

CALCULATIONS TO DETERMINE H_1, H_2, T_1, T_2

1. Change time to duration (sec).

2. Calculate H_t, H_t = depth to water at a certain time - static water level. (i.e., H_o = depth to water at time 0 - static water level.

3. Find the ratio H_t/H_o.

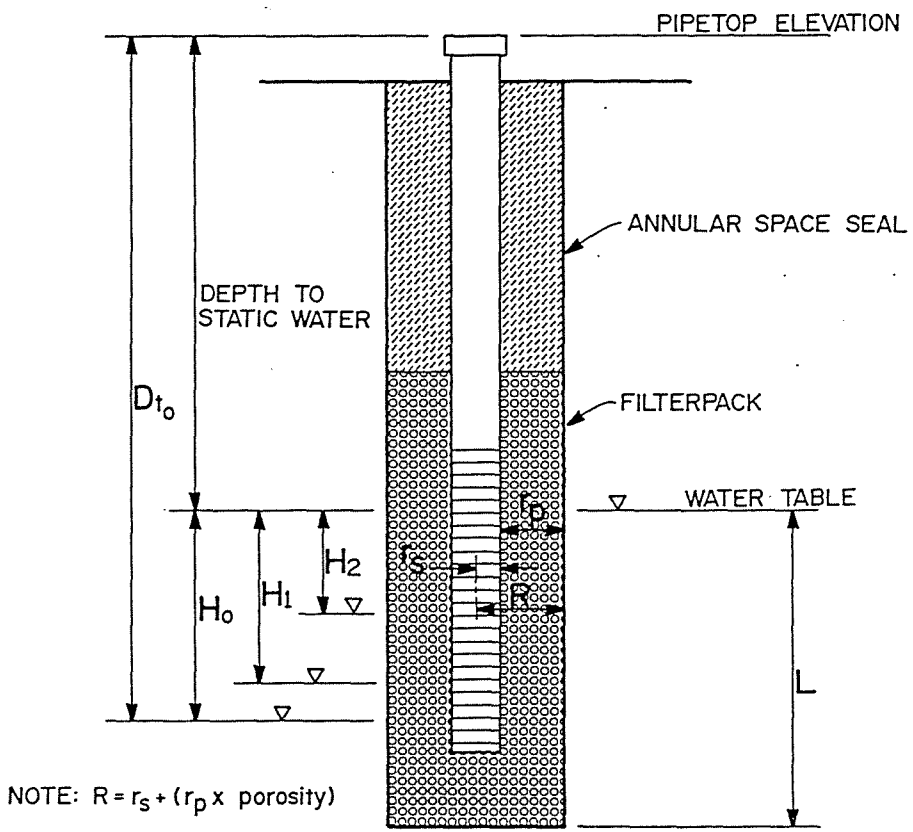
4. Plot time vs. H_t/H_o using semi-log paper with the ratio on the log scale.

5. Fit a line to the points and choose 2 points on the line, recording the ratio and time for each ($\frac{H_1}{Ho}$ $\frac{H_2}{Ho}$ t_1 t_2).

Since the purpose of the graphical plot is to smooth out scatter in the data, the line should be drawn so that it is representative of the test throughout most of its duration. Points can be taken from any place on the line.

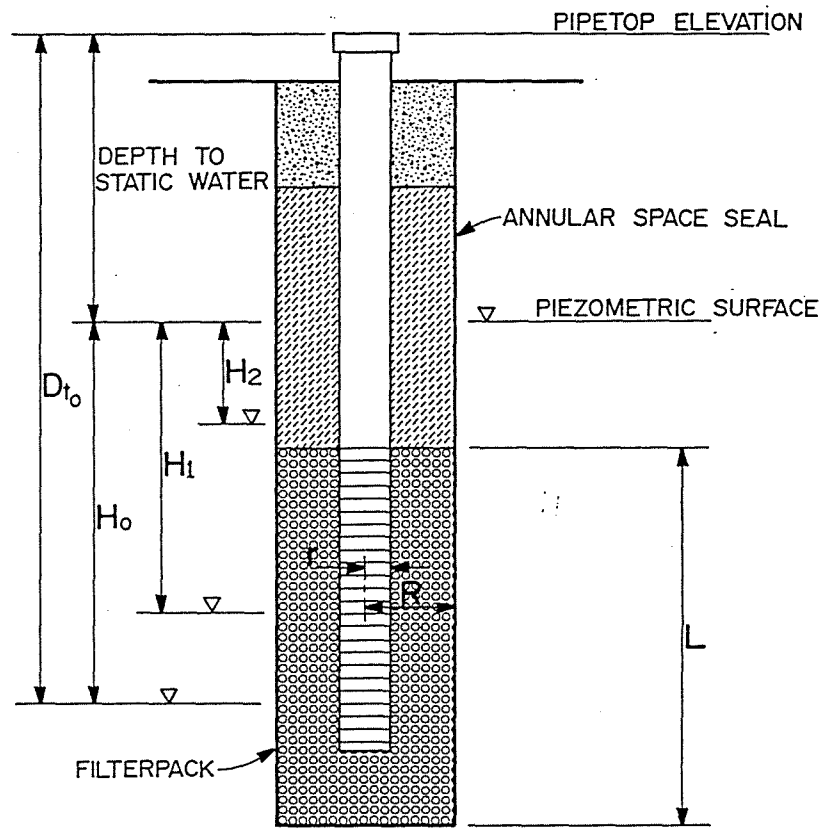
6. Calculate the hydraulic conductivity using the formula. Units of L, r, R, and t must be in cm and sec to produce K in cm/sec.

103:baildown.tes



WATER TABLE OBSERVATION WELL

DIAGRAM "A"



PIEZOMETER

DIAGRAM "B"

STANDARD FIELD METER OPERATING PROCEDURES

- Photoionization Detectors — CWE SOP METEROP-1
- Flame Ionization Detector — CWE SOP METEROP-2
- Trimonitor — CWE SOP METEROP-3
- Combustible Gas Indicator — CWE SOP METEROP-4

Issue Date	Revision	Description	By	Approved
4-16-92		Original Issue	[illegible]	[illegible]

5-4-92

STANDARD FIELD METER OPERATING PROCEDURES

Photoionization Detectors

CWE SOP METEROP-1

Purpose: To establish and document specific operating procedures for the portable photoionization meters.

Objectives: To outline techniques for calibration and use of the:

- Thermo Environmental Instruments Organic Vapor Meter Model 580A (PID) (OVM).
- Hnu Systems Model Pl-101 (PID)(HNu)

The OVM and HNu meters are equipped with 10.0 ev and 10.2 ev photoionization detectors (PID) respectively.

PID Calibration

NOTE: For procedures to start up and operate the TEI Model 580A or HNu Model Pl-101 refer to the appropriate instrument operation manual.

Thermo Environmental Instruments OVM Model 580A

OVM Materials

1. One 1-2 liter Teflon or Tedlar gas sampling bag equipped with a sampling nozzle and gas-tight septum.
2. Pressure valve.
3. Tygon tubing for attachment from bag to instrument.
4. Specialty Gas Mixture - Isobutylene 100 ppm.
5. OVM Model 580A.

Procedure

1. Attach pressure valve to Isobutylene cylinder. Be sure valve is shut.
2. Attach Tygon tubing from bag to valve.
3. Open sampling nozzle on bag and valve on cylinder.
4. Fill bag approximately 1/3 full.

5. Shut valve off on bag and on cylinder.
6. Remove pressure valve from cylinder.
7. Follow instruction manual to reach "Reset to Calibrate" on meter.
8. Attach tubing from bag to instrument probe.
9. Follow calibration procedures outlined in Section 2.4.7 of manual.

HNu Systems Model PI-101 Photoionization Detector

Materials

1. Pressure valve.
2. Tygon tubing for attachment from calibration gas to instrument.
3. Hnu systems span gas - 100 ppm isobutylene/air.
4. HNu systems Model PI-101.

Procedure

1. Turn instrument on - check battery.
2. While in standby mode, adjust potentiometer to zero.
3. Attach pressure valve to HNu systems span gas cylinder, be sure valve is closed.
4. Connect Tygon tubing to pressure valve and to probe on meter.
5. Set range on HNu to 0-200.
6. Open span gas valve.
7. Adjust Span Potentiometer to obtain reading of 57 ppm.
8. Record span potentiometer setting in field notes.
9. Set switch to standby position.
10. Meter is ready for use.

Sampling Procedures for PID

Materials

1. Stainless steel trowel washed in Alconox, rinsed with distilled water.
2. 8 oz. sample jar (with lid, optional).
3. Aluminum foil
4. Field PID meter
5. Latex gloves
6. 60d nail washed in Alconox, rinsed with distilled water.

Procedures

1. Fill jar approximately half full with sample using a clean trowel or latex glove.
2. If sample is compacted, break up with clean 60d nail.
3. Cover jar tightly with aluminum foil, label lid, and place on jar. Be careful not to tear foil.
4. Place jar in protected area and allow to reach approximate room temperature, about 70°F.
5. When sample temperature has stabilized, remove lid and gently pierce foil with PID probe.
6. Response is within 3 seconds, read dial or LED readout, remove probe.
7. Allow meter to clear before next reading.
8. Record any background detections.

Note: Check the calibration of the PID every few hours of operation and after the last sample has been analyzed. Simply analyze standard gas, record reading in field book.

Minimum Calibration Frequency:

1. At the beginning of each day.
2. After lunch or the middle of a day's use.
3. After any significant changes in humidity or temperature (more than 15°F).
4. After any repairs to the instrument are performed.

Reporting Requirements

1. For all calibrations report time of day and temperature at that time.
2. Which PID model is being used.

STANDARD FIELD METER OPERATING PROCEDURES

Flame Ionization Detector

CWE SOP METEROP-2

PURPOSE: To establish and document specific operating procedures for the portable flame ionization detectors.

OBJECTIVES: To outline techniques for calibration and use of the:

- Foxboro Century Model 108 Organic Vapor Analyzer (OVA)

CALIBRATION

NOTE: For procedures to start up and operate the OVA 108 refer to the appropriate instrument operation manual. Calibrate the instrument weekly at a minimum.

MATERIALS

1. Two dedicated gas sampling bags with sampling nozzle.
2. Pressure valve
3. Vinyl tubing for attachment from bag to instrument.
4. Specialty gas mixtures - 9500 ppm and 95 ppm methane.
5. OVA Model 108

PROCEDURE

1. Attach pressure valves to methane cylinders.
2. Attach vinyl tubing and fill appropriate bag 1/3 full.
3. Follow calibration procedures outlined in the instruction manual.

SAMPLING PROCEDURES

A. Soil Samples

1. Follow procedures outlined under Portable Photoionization Meter Operation.

B. Air Samples

1. Connect vinyl tubing to sampling port.
2. Connect tubing to sample bag.
3. Insert sampling probe into sample bag.
4. Read concentration directly from readout assembly.
5. If flame-out is experienced, connect serial dilution device according to manufacturers guidelines.
6. Determine response factor using 9500 ppm calibration gas.
7. Repeat steps 1-4.
8. Multiply readout by response factor to obtain actual concentration.

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STANDARD FIELD METER OPERATING PROCEDURES

Trimonitor

CWE SOP METEROP-3

Purpose: To establish and document specific operating procedures for the portable Trimonitor.

Objective: To outline techniques for calibration of the:

- MSA Model 361 Hydrogen Sulfide, Combustible Gas and Oxygen Alarm Meter

Calibration:

NOTE: For procedures to start up and operate the MSA Model 361 Trimonitor refer to the MSA Instrument Operation Manual

Materials Required

1. Flow Control, part no. 467896
2. Adapter-Hose, part no. 449401
3. Calibration Gas, part no. 478192
   50% LEL pentane (.75% pentane and
   15% oxygen in nitrogen)
4. Calibration Gas, part no. 467898
   hydrogen sulfide 10 ppm in nitrogen

Instructions

Test the operation of the pump and sample flow indicator by momentarily placing a finger over the sample inlet of the instrument. The flow indicator should be at the top of the window before falling from view while the inlet is blocked. If not, see the instrument instruction manual for required maintenance.

1. Attach the flow control to the .75% pentane and 15% oxygen calibration gas tank.
2. Connect the adapter-hose to the flow control.
3. Open the flow control valve.
4. Connect the adapter-hose fitting to the inlet of the instrument; after approximately 15 seconds, the LEL meter should stabilize and indicate between

47 and 55%. If the indication is not in the correct range, remove the right end of the trimonitor and adjust the LEL SPAN control to obtain 50%.

5. Verify the oxygen reading; it should be between 13 and 17%. (This is a response check only. The oxygen sensor should be calibrated to 20.8% oxygen in fresh air before each use.)
6. Disconnect the adapter-hose fitting from the instrument.
7. Close the flow control valve.
8. Remove the flow control from the calibration gas tank.
9. Attach the flow control to the hydrogen sulfide calibration gas tank.
10. Open the flow control valve.
11. Connect the adapter-hose fitting to the inlet of the instrument; after approximately 1 minute, the TOX readout should stabilize and indicate 7 to 13 ppm. If the indication is not in the correct range, remove the right end of the trimonitor and adjust the TOX SPAN control to obtain 10 ppm.
12. Disconnect the adapter-hose fitting from the instrument.
13. Close the flow control valve.
14. Remove the adapter-hose from the flow control.
15. Remove the flow control from the calibration gas tank.

STANDARD FIELD METER OPERATING PROCEDURES

Combustible Gas Indicator

CWE SOP METEROP-4

Purpose: To establish and document specific operating procedures for the Gascope.

Objective: To outline the techniques for calibration and use of:

- Gascope Combustible Gas Indicator, Industrial Model 62S

NOTE: For procedures to start up and operate the Gascope refer to the appropriate instrument operation manual.

Gascope Calibration Procedure

The Gascope should be calibrated periodically by performing the following procedure in an environment free of combustible gases. This procedure should also be used if either the catalytic or thermal conductivity filament has been replaced. If the instrument cannot be calibrated with this procedure, refer to TROUBLE SHOOTING in Section 4 of the operation manual.

1. Open cover and loosen clasps securing top and bottom sections of case.
2. Remove bottom section of case and position instrument on rubber bumpers (see Figure 5-1 of operation manual) so that meter can be read.
3. Set RANGE switch to LEL and ON/OFF switch to ON. Needle should come to rest near 0 and READY indicator should turn on. If indicator does not turn on, refer to Table 4-1 in Section 4 of operation manual.
4. Squeeze aspirator bulb 8 to 10 times to purge instrument with fresh air. Permit bulb to inflate completely after each squeeze.
5. Adjust LEL ZERO control to obtain zero indication on meter.
6. Connect flow control of Calibration Check Kit, Model R, to Calibration Check Gas Cylinder (2% or 2.5% methane). Connect adapter hose between flow control and inlet fitting of instrument (see Figure 5-2 of operation manual).
7. Turn flow control valve counterclockwise. When needle stabilizes, meter should indicate 50%. If it does not, turn LEL span adjustment (Figure 5-1 of operation manual) to obtain a reading of 50 on the meter. If 50 cannot be obtained by turning LEL span adjustment, refer to Replacing Catalytic Filament in Section 4 of operation manual.
8. Turn flow control valve clockwise and disconnect adapter hose from inlet fitting.

9. Squeeze aspirator bulb 8 to 10 times to purge instrument with fresh air. Meter should indicate 0. If it does not, adjust LEL ZERO control to obtain a reading of zero on the meter, then connect adapter hose to inlet fitting and repeat steps 7 and 8. Remove flow control from gas cylinder.
10. Set RANGE switch to GAS. When READY indicator turns on, adjust GAS ZERO control to obtain zero indication on meter.
11. Connect source of 2.0 or 2.5% methane to inlet fitting. Pass gas through instrument and then shut off flow. Meter should indicate 2.0 or 2.5. If it does not, turn GAS span adjustment to obtain a meter reading of 2.0 or 2.5. If 2.0 or 2.5 cannot be obtained by turning gas span adjustment, refer to Replacing TC Filament in Section 4 of operation manual.

    * Do not introduce 2.0 or 2.5% methane gas to an instrument located near a source of ignition; otherwise, an explosion may occur.

12. Disconnect source of methane and squeeze aspirator bulb 8 to 10 times to purge instrument with fresh air. Meter should indicate zero. If it does not, adjust GAS ZERO control to obtain zero indication on meter; then repeat steps 11 and 12.
13. Place instrument in bottom section of case and clasp top and bottom section together. Close cover.

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APPENDIX B

TANK INVENTORY FORMS

sconsin Department of Industry, hor and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:
Tank ID #

his form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that ave stored or currently store petroleum or regulated substances. Please see the reverse side for additional information this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume luded piping) located below ground level. A separate form is needed for each tank. Send each completed form he agency designated in the top right corner.

This registration applies to a tank that is (check one):
1. ☐ In Use or New
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

DENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 8,000
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

A roval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
C erfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and ightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): 9. ☒ Unknown

Pip g System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

Ap oval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☒ Chemical * Stoddard Solvent
14. ☐ Kerosene
15. ☐ Aviation

If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

k Closed, Give Date (mo/day/yr): 6/23/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

allation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify)

me of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

gnature of Owner or Operator: Sophie Marschall
Date Signed: July 13 92

SBD-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:
Tank ID #

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any 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.

This registration applies to a tank that is (check one):
1. ☐ In Use or New
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

I. IDENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 950
6. Tank Manufacturer's Name (if known): Unknown

II. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

III. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

PIPING CONSTRUCTION
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
9. ☒ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank 3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring 3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

V. TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☒ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Tank Closed, Give Date (mo/day/yr): 6/23/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department
2. ☐ DILHR
3. ☐ Other (identify)

Name of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator
Signature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

SBD-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

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SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

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Madison, WI 53707

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P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

sconsin Department of Industry,
or and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
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r Office Use Only:
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1. ☐ In Use or New
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

A. DENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 950
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

roval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
rfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

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IPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): 9. ☒ Unknown

System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

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3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

oval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☒ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

k Closed, Give Date (mo/day/yr): 6/23/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

allation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department
2. ☐ DILHR
3. ☐ Other (identify)

e of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

nature of Owner or Operator: Sophie Marschall
Date Signed: July 13 92

-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

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The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

sconsin Department of Industry, or and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

or Office Use Only:
nk ID #

his form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that ave stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume luded piping) located below ground level. A separate form is needed for each tank. Send each completed form he agency designated in the top right corner.

is registration applies to a tank that is (check one):
] In Use or New
] Abandoned With Product
. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

IDENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 450
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☒ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
9. ☒ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank 3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring 3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☒ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

* # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Tank Closed, Give Date (mo/day/yr): 6/23/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

Installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department
2. ☐ DILHR
3. ☐ Other (identify)

Name of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

Signature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

SB-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

Wisconsin Department of Industry, La or and Human Relations

For Office Use Only:
ank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

his form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that ave stored or currently store petroleum or regulated substances. Please see the reverse side for additional information this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume luded piping) located below ground level. A separate form is needed for each tank. Send each completed form he agency designated in the top right corner.

his registration applies to a tank that is (check one):
] In Use or New
] Abandoned With Product
☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

DENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2
Alternate Mailing Street Address If Different From #2
City ☐ Village ☐ Town of:
State
Zip Code
County

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 300
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

A roval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
verfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify):
9. ☒ Unknown

ng System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

oing leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

oval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel
2. ☒ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

nk Closed, Give Date (mo/day/yr): 6/23/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

allation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify)

e of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

nature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

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SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

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P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

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P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

sconsin Department of Industry,
or and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

or Office Use Only:
ank ID #

is form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume uded piping) located below ground level. A separate form is needed for each tank. Send each completed form ..e agency designated in the top right corner.

s registration applies to a tank that is (check one):
In Use or New
Abandoned With Product
☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

DENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 200
6. Tank Manufacturer's Name (if known): Unknown

YPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

ANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

roval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
rfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

ank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and ..tness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

IPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): 9. ☒ Unknown

Pipi System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

op val: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

ANK CONTENTS
1. ☐ Diesel
2. ☒ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Ta..k Closed, Give Date (mo/day/yr): 5/7/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

in llation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify)

ame of Owner or Operator (please print): ophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

ignature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

D-/437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

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SITE ASSESSMENT INFORMATION

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The requirements in § 280.72 state:

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Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
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P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (excluded 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.

This registration applies to a tank that is (check one):
1. ☐ In Use or New
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 200
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
4. ☐ Fiberglass 5. ☐ Other (specify): 9. ☒ Unknown

Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☐ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☒ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Tank Closed, Give Date (mo/day/yr): 6/24/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify)

Name of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

Signature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

SBD-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

This underground tank inventory is being established to help identify the need for future actions required to clear up potential problems before they occur. Your help in identifying abandoned, "in use" and "new use" tank locations will greatly assist this effort to protect Wisconsin's ground water.

SITE ASSESSMENT INFORMATION

Requirements for a site assessment at the closure or change in service for a federally regulated underground storage tank were outlined in federal rules published in the September 23,1988 Federal Register, 40 CFR 280 and 281.

The requirements in § 280.72 state:

> (a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release. The requirements of this section are satisfied if one of the external release detection methods allowed in § 280.43 (e) and (f) is operating in accordance with the requirements in § 280.43 at the time of closure, and indicates no release has occurred.

The external release detection methods in § 280.43 (e) and (f) are summarized below:

> "(e) *Vapor monitoring.*" This sub section refers to the testing or monitoring for vapors within the soil gas of the tank's excavation zone. It further requires seven (7) conditions to be met to qualify the testing program as a valid vapor monitoring system.
>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

Complete written guidelines on the conduct of a site assessment can be obtained from the DILHR Bureau of Petroleum Inspection & Fire Protection at the following address:

Bureau of Petroleum Inspection and Fire Protection
P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

Wisconsin Department of Industry, Labor and Human Relations

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P.O. Box 7969
Madison, WI 53707
Telephone (608) 267-5280

For Office Use Only:
Tank ID #

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (excluded 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.

This registration applies to a tank that is (check one):
1. ☐ In Use or New
2. ☐ Abandoned With Product
3. ☐ Abandoned No Product (empty) or With Water
4. ☒ Closed - Tank Removed
6. ☐ Closed - Filled With Inert Material
7. ☐ Out of Service
8. ☐ Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located: City of Wausau

A. IDENTIFICATION: (Please Print)

1. Tank Site Name: Marschall Property
Site Address: 303 - 305 2nd Ave
Site Telephone No.: ( ) NA
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

2. Owner Name (mail sent here unless indicated otherwise in #3 below): Sophie Marschall
Owner Mailing Address (mail sent here unless indicated otherwise in #3): 1127 E Wausau Ave
City: Wausau ☐ Village ☐ Town of:
State: WI
Zip Code: 54401
County: Marathon

3. Alternate Mailing Name If Different Than #2:
Alternate Mailing Street Address If Different From #2:
City: ☐ Village ☐ Town of:
State:
Zip Code:
County:

4. Tank Age (date installed, if known: or years old): Unknown
5. Tank Capacity (gallons): 1,000
6. Tank Manufacturer's Name (if known): Unknown

B. TYPE OF USER (check one):
1. ☐ Gas Station
2. ☐ Bulk Storage
3. ☐ Utility
4. ☐ Mercantile
5. ☐ Industrial
6. ☐ Government
7. ☐ School
8. ☐ Residential
9. ☐ Agricultural
10. ☒ Other (specify): Dry Cleaners

C. TANK CONSTRUCTION:
1. ☐ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current)
3. ☐ Coated Steel
4. ☐ Fiberglass
5. ☐ Other (specify):
6. ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite
9. ☐ Unknown

Approval: 1. ☐ Nat'l Std. 2. ☐ UL 3. ☐ Other:
Is Tank Double Walled? ☐ Yes ☒ No
Overfill Protection Provided? ☐ Yes ☒ No If yes, identify type:
Spill Containment? ☐ Yes ☒ No

Tank leak detection method: 1. ☐ Automatic tank gauging 2. ☐ Vapor monitoring 3. ☐ Groundwater monitoring 4. ☐ Inventory control and tightness testing 5. ☐ Interstitial monitoring 6. ☒ Not required at present 7. ☐ Manual Tank Gauging (only for tanks of 1,000 gallons or less)

D. PIPING CONSTRUCTION
1. ☐ Bare Steel 2. ☐ Cathodically Protected and Coated or Wrapped Steel (A. ☐ Sacrificial Anodes or B. ☐ Impressed Current) 3. ☐ Coated Steel
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Piping System Type: 1. ☐ Pressurized piping with: A. ☐ auto shutoff; B. ☐ alarm; or C. ☐ flow restrictor 2. ☐ Suction piping with check valve at tank
3. ☐ Suction piping with check valve at pump and inspectable

Piping leak detection method: used if pressurized or check valve at tank: 1. ☐ Vapor monitoring 2. ☐ Interstitial monitoring
3. ☐ Groundwater monitoring 4. ☐ Tightness testing 5. ☐ Line Leak Detector 6. ☒ Not Required

Approval: 1. ☐ Nat'l Std 2. ☐ UL 3. ☐ Other:
Double Walled: ☐ Yes ☒ No

E. TANK CONTENTS
1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4. ☒ Fuel Oil
5. ☐ Gasohol
6. ☐ Other
7. ☐ Empty
8. ☐ Sand/Gravel/Slurry
9. ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12. ☐ Propane
13. ☐ Chemical *
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste.

Tank Closed, Give Date (mo/day/yr): 6/24/92
Has a site assessment been completed? (see reverse side for details) ☒ Yes ☐ No

Installation of a new tank is being reported, indicate who performed the installation inspection:
1. ☐ Fire Department 2. ☐ DILHR 3. ☐ Other (identify)

Name of Owner or Operator (please print): Sophie Marschall
Indicate Whether: ☒ Owner or ☐ Operator

Signature of Owner or Operator: Sophie Marschall
Date Signed: July 13, 92

SBD-7437 (R. 03/91)

IMPORTANT: Complete as many items on this form as possible. Failure to provide sufficient information may cause you to fall under additional regulations.

BACKGROUND FOR TANK INVENTORY

On May 4, 1984, legislation commonly known as the Ground Water Protection Act was signed into law. This legislation required the creation of an inventory of underground petroleum product storage tanks. A record of this information was necessitated by numerous reported incidents of ground water contamination by petroleum products. Many tanks have been installed, used and forgotten. These installations can threaten the ground water.

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SITE ASSESSMENT INFORMATION

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>
> "*(f) Ground-water monitoring.*" This sub section refers to the testing or monitoring for liquids on the ground water below the tank. It establishes the requirements for an acceptable system that effectively monitors the ground water for the presence of regulated substances and insures the integrity of the monitoring wells so the wells themselves do not become conduits for ground water contamination.

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P.O. Box 7969
Madison, WI 53707

Site assessments are to be submitted to <u>both</u> the DILHR office and to the DNR at the following addresses:

Bureau of Petroleum Inspection & Fire Protection
P.O. Box 7969
Madison, WI 53707

Bureau of Solid and Hazardous Waste Management
P.O. Box 7921
Madison, WI 53707

APPENDIX C

PRELIMINARY REPORT OF TEST RESULTS

WRR
Waste Research & Reclamation Co. Inc.
Route 7, Eau Claire, WI 54701 715-834-9624 FAX: 715-836-8785

Printed on recycled paper

June 15, 1992

JUN 22

*Kraft Cleaners
*303/305 S. 2nd Ave.
Wausau, WI 54401
ATTN: George Peterson

Sample ID# 9205179 Date Received: May 27, 1992

PO#:
copy to: CWE Sales Rep: Dale Kauzlaric
Material: Stoddard solvent

PRELIMINARY
REPORT OF TEST RESULTS

Recyclable? no pH value: 5
Percent Distilled: 30% Flash Point: >200F
Specific Gravity (spent) : 0.934 black/grey
(distilled) : QNS/0.995
Boiling Point: 99-100C

Projected Volume: 800 gal
Volume on hand:

Comments: Water with petro distillate. Two layers; 80% thick top layer.

Lab Report Prepared by Jiing-Yun Lee, Ph.D./VP
WASTE RESEARCH & RECLAMATION CO.,INC.

WISCONSIN DNR CERTIFIED LABORATORY
ID #618026530

TECHNICAL REVIEW DATE 6-11-92

Results of this lab analysis indicate that this specific material can be processed at Waste Research. As generator of this material, it is your responsibility to provide proper shipping information. If you need assistance with this information or would like to have preprinted manifests and labels, contact Ron Downs, 715-836-8772, at least two weeks prior to your initial shipment.

WRR
Waste Research & Reclamation Co. Inc.
Route 7, Eau Claire, WI 54701 715-834-9624 FAX: 715-836-8785

Printed on recycled paper

LABORATORY REPORT OF INCOMING MATERIALS FOR LOAD# 22621

SOURCE: CENTRAL WIS ENGINEERS
KRAFT CLEANERS

Received 06/23/92 Report Date 07/07/92

EPA ID#

Each container of this load of waste material has been sampled and analyzed. From the test result, the waste materials are grouped according to their similarity in chemical nature as follows:

Page 1

Group	Material Description	Containers	Mat Qty	Chemical Analysis & Notes	%	% Rec	Recy Qty	Disp Qty	Solid Qty	Est Recov
A	NON HAZARD WASTE(DD) Manifest M-#62392 ID# 9205179	M6 R6	1386 Gal	WATER MINERAL SPIRITS HIGH WATER MATERIAL	70 30			1386.00 Gal		
B	GASOLINE Manifest M-#62392 ID# WRR31	F6	496 Gal	WATER CONTAMINATED WITH TRACE OF GASOLINE				496.00 Gal		

ESTIMATED RECOVERY: For a small batch of materials, the estimated recovery may be less than '% of Recovery' in the lab distillation. However, the waste charge is based on the % Rec (Recovery).

RECYCLABLE QUANTITY: The pumpable part of the spent material.

DISPOSAL QUANTITY: Solids, waste water, thick materials and chloro-flammable mixtures which cannot be recycled as a usable product.

WHERE TECHNOLOGY AND ECOLOGY MEET
FOR OVER TWENTY YEARS

APPENDIX D

ANALYTICAL TEST RESULTS

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

Client: CENTRAL WISCONSIN ENGINEERS Lab Sample No. 126840-126857
903 GRAND AVENUE ORTEK Batch No. 9206194
ROTHSCHILD WI- 54474

Client Contact: CAROLE ELDREDGE
Client ID #: SEE CHAIN OF CUSTODY
Client Project: 104592000/S MARSCHALL

13

07/10/92

==========

1.0 SCOPE OF ANALYTICAL SERVICES

1.1 Eighteen (18) soil samples were received at ORTEK on 06/26/92.

1.2 The eighteen (18) soil samples were analyzed in accordance with Method 160.3 and Wisconsin Modified Method for GRO and DRO.

2.0 ANALYTICAL RESULTS

2.1 Based on the analytical services performed, attached is a summary of the Organics and Wet Chemistry Data and a Chain of Custody for your records.

James Chang, Ph.D
Laboratory Director

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH END TANK 1A
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126840
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126840
Your Sample ID: S END TANK 1A
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:20 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126840	Total Solids	96.0	%	06/30/92

Signed: Phil Pratt Date: 7-7-92

Signed: _____ Date: _____

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH END TANK 1B
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126841
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126841
Your Sample ID: S END TANK 1B
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:25 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126841	Total Solids	97.0	%	06/30/92

Signed: [signature] Date: 7-7-92

Signed: _____ Date: _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTH END TANK 1
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126842
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

TO: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTN: CAROLE ELDREDGE

Batch ID : 9206194 Report Date: 07/07/92
Our Lab # : 126842
Your Sample ID: N END TANK 1
Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 06/23/92 17:35 C E
Location : 104592000-MARCHALL

Lab#	Test	Result	Units	Analysis Date
126842	Total Solids	96.0	%	06/30/92

Signed: [signature] Date: 7-7-92

Signed: _____ Date: _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 2
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.1	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126843
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 2
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126843
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126843
Your sample ID: BOTTOM TANK 2
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 10:30 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126843	Total Solids	94.0	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126844
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126844
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D-[illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126844
Your sample ID: BOTTOM TANK 3
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 12:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126844	Total Solids	94.5	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: END OF PIPING (EAST) TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.9	20

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126845
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: END OF PIPING (EAST) TANK 3
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.9	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126845
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126845
Your sample ID: END/EAST TANK 3
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 12:20 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126845	Total Solids	96.7	%	06/30/92

Signed Paul Scott Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 4
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126846
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: BOTTOM TANK 4
Sample Desc: SOIL
Date Collected: 06/23/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126846
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126846
Your sample ID: BOTTOM TANK 4
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/23/92 14:35 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126846	Total Solids	95.9	%	06/30/92

Signed Phil Ford Date 7-7-92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH CORNER PIPE
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.0	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126847
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTH CORNER PIPE
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.4	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126847
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126847
Your sample ID: S CORNER PIPE
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 16:45 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126847	Total Solids	88.0	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: UNION PIPE TO SEWER
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126848
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: UNION PIPE TO SEWER
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000/S. MARSCHALL

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.1	35

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126848
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435, Green Bay, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126848
Your sample ID: UNION PIPE
Sample Matrix : SOIL

Report Date: 07/07/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 17:03 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126848	Total Solids	91.3	%	06/30/92

Signed [signature] Date 7-7-92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5A
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9206194 - 126849
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5A
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.8	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126849
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126849
Your sample ID: S END TANK 5A
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:45 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126849	Total Solids	94.7	%	06/30/92

Signed _____ Date 7/8/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5B
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.1	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126850
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 5B
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126850
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126850
Your sample ID: S END TANK 5B
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:48 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126850	Total Solids	95.3	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

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ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 5
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.7	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126851
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D- [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 5
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126851
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126851
Your sample ID: N END TANK 5
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 08:35 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126851	Total Solids	96.4	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.4	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126852
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.5	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126852
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126852
Your sample ID: S END TANK 6
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 09:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126852	Total Solids	94.5	%	06/30/92

Signed _____ Date 7/9/92
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	3.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126853
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 6
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.8	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126853
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126853
Your sample ID: N END TANK 6
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 09:07 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126853	Total Solids	94.7	%	06/30/92

Signed _____ Date 7/9/92
--
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TANK 7
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126854
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. Rahl Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TANK 7
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	2.3	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126854
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126854
Your sample ID: TANK 7
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 14:15 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126854	Total Solids	95.2	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.2	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126855
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: NORTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126855
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: _____ Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126855
Your sample ID: N END TANK 8
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 13:45 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126855	Total Solids	96.3	%	06/30/92

Signed _____ Date 7/9/92

Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
414-498-2222
FAX: 414-498-4067
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Gasoline	2.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126856
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-7-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: SOUTHEND TANK 8
Sample Desc: SOIL
Date Collected: 06/24/92
Date Received: 06/26/92
Job #: 10459200

WISCONSIN MODIFIED DRO

Solvent Extraction Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/kg*
Diesel Fuel	1.6	ND

ND = Not Detected
* = Dry Weight Basis

Comments: Lab Sample ID: 9206194 - 126856
Date Extracted: 06/26/92
Date Analyzed: 06/29/92
Analyzed by GC/FID.

Signed: D. [illegible] Date: 7-2-92

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

- SAMPLE ANALYSIS REPORT -

To: CENTRAL WISCONSIN ENGINEERS
903 GRAND AVENUE
ROTHSCHILD WI 54474

Attn: CAROLE ELDREDGE

Batch ID : 9206194
Our lab # : 126856
Your sample ID: S END TANK 8
Sample Matrix : SOIL

Report Date: 07/09/92

COLLECTION INFORMATION

Date/Time/By: 06/24/92 14:00 C E
Location : 10459200 MARSCHALL

Lab#	Test	Result	Units	Analysis Date
126856	Total Solids	97.4	%	06/30/92

Signed _____ Date 7/9/92
Signed _____ Date _____

ORTEK
ENVIRONMENTAL LABORATORY
2496 West Mason Street P.O. Box 12435 Green Bay, WI 54307-2435
414-498-2222
FAX: 414-498-4067

CLIENT: CENTRAL WISCONSIN ENGINEERS
ADDRESS: 903 GRAND AVENUE
ROTHSCHILD WI 54474

ATTENTION: CAROLE ELDREDGE
TELEPHONE: (715) 359-9400

Wisconsin Certification No. 405099530

Sample ID: TRIP BLANK
Sample Desc: METHANOL
Date Collected:
Date Received: 06/26/92
Job #: 104592000

WISCONSIN MODIFIED GRO

Purge & Trap Gas Chromatographic Method

PARAMETER	DETECTION LIMIT	CONCENTRATION mg/L
Gasoline	5.0	ND

ND = Not Detected

Comments: Lab Sample ID: 9206194 - 126857
Date Analyzed: 06/30/92
Analyzed by GC/FID.

Signed: _____ Date: 7-7-92

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

No.: 5420

Company Name: Central Wis Engineers

Project No./Client 104542000 / S. Marschall

Sampling Location: Wausau

Sampler Carole Eldredge

ORTEK Batch No. 920694

Bottle Size/Preservative: 40ml MeOH | 1 qt 1 None | 250ml None

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	ANALYSIS REQUESTED: WI Mod GRO	WI Mod DRO	DRY WT								Remarks	Lab Use Only ID Number
6/23/92	5:20	South End Tank 1 A	1	1					2	S	✓		✓									126840
6/23/92	5:25	South End Tank 1 B	1	1					2	"	✓		✓									126841
6/23/92	5:35	North End Tank 1	1	1					2	"	✓		✓									126842
6/23/92	10:30	Bottom Tank 2	1	1	1				3	"	✓	✓	✓									126843
6/23/92	12:00	Bottom Tank 3	1	1	1				3	"	✓	✓	✓									126844
6/23/92	12:20	End of Piping (East) Tank 3	1	1	1				3	"	✓	✓	✓									126845
6/23/92	2:35	Bottom Tank 4	1	1	1				3	"	✓	✓	✓									126846
6/24/92	4:45	South Corner Pipe	1	1	1				3	"	✓	✓	✓									126847
6/24/92	5:03	Union Pipe to Sewer	1	1	1				3	"	✓	✓	✓									126848

COMMENTS/SPECIAL INSTRUCTIONS:

☐ If Pb > 5ppm do TCLP

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

Date Received: 6/26/92
Date Due: 7/8/92 ☐RUSH (approved by lab)
Quotation #:
Purchase Order #:

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By: Carole Eldredge

Sealed For Shipping By: Carole Eldredge Seal # _____

Results To: Central WI Engineers
903 Grand Ave
Rothschild, WI 54474

Attention: Carole Eldredge

Billing Address: Same

Phone: 715 359-9400 FAX _____

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	Carole Eldredge	6/25/92	9:00 A			
2.						

Received for Laboratory: Prog due: 7/10/92 Arlene Schaefer 6/26/92 09:35

Shipping Details - To Be Completed By ORTEK

Seal Intact Upon Receipt by Laboratory ☐Yes ☐No

Method of Shipment: Courier

Contents Temperature 0.6 °C Refrig. # C 22 112

ORTEK
2496 West Mason Street
Green Bay, WI 54307-2435
(414) 498-2222

ORTEK CHAIN OF CUSTODY/ANALYSIS REQUEST FORM

No.: 5421

Company Name: Central Wis Engineers

Project No./Client 10459200 / S. Marshall

Sampling Location: Wausau

Sampler Carole Eldredge

ORTEK Batch No. 9206194

Bottle Size/Preservative: 1 liter nitric, 1 liter nitric, 1 liter nitric

Date	Time	Sample I.D./Description	No. of Bottles						Total	*Sample Type	WI Mod GRO	WI mod DRO	Dry W.T.								Remarks	Lab Use Only ID Number
6/24/92	845	South End Tank 5 A	1	1	1				3	S	✓	✓	✓									126849
6/24/92	848	South End Tank 5 B	1	1	1				3	"	✓	✓	✓									126850
6/24/92	855	North End Tank 5	1	1	1				3	"	✓	✓	✓									126851
6/24/92	900	South End Tank 6	1	1	1				3	"	✓	✓	✓									126852
6/24/92	907	North End Tank 6	1	1	1				3	"	✓	✓	✓									126853
6/24/92	215	Tank 7	1	1	1				3	"	✓	✓	✓									126854
6/24/92	145	North End Tank 8	1	1	1				3	"	✓	✓	✓									126855
6/24/92	200	South End Tank 8	1	1	1				3	"	✓	✓	✓									126856
		Trip Blk							1		✓											126857

COMMENTS/SPECIAL INSTRUCTIONS:

Trip Blk added to COC AS.

☐ If Pb > 5ppm do TCLP

*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 _____

Date Received: 6/26/92

Date Due: 7/8/92 ☐RUSH (approved by lab)

Quotation #: _____

Purchase Order #: _____

To Be Completed by Client

Seal Intact Upon Receipt by Sampling Co.: ☐Yes ☐No

Packed By: Carole Eldredge

Sealed For Shipping By: C Eldredge Seal # _____

Results To: Central Wis Engineers, 903 Grand Ave, Rothschild, WI 54474

Attention: Carole Eldredge

Billing Address: Same

Phone: _____ FAX _____

CUSTODY TRANSFERS

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1.	Carole Eldredge	6/25/92	930	Ron Wetzler	6/25/92	1630
2.						

Received for Laboratory: Ruby Nuei 7/10/92 — Arlene Schafer 6/26/92 09:35

Shipping Details - To Be Completed By ORTEK

Seal Intact Upon Receipt by Laboratory ☐Yes ☐No

Method of Shipment: Courier

Contents Temperature 0.6 °C Refrig. # C C2 M2

ORTEK 2496 West Mason Street, Green Bay, WI 54307-2435, (414) 498-2222

697

TO: Ms. Sophia Marschall

FROM: Cindy Artibee - WDNR

SUBJECT–MESSAGE

KNT Cleaner

697

Dear Sophia,

Enclosed is the information we discussed regarding the removal of underground storage tanks and what the process is.

I hope this is helpful to you.

If you have any questions, I can be reached at 359-4522

REPLY

SIGNED Cindy Artibee DATE 5-27-92

RP Packet

SENDER RETAIN THIS COPY

SIGNED DATE

PHONE CONVERSATION RECORD

DATE: 5/7/92
TIME:

CONVERSED WITH: George Peterson
CWE

SUBJECT/PROJECT: Kraft Cleaners
Wausau

UNIQUE ID#.: 697

Pulling tanks at site. First tank is partially under the building. Stopped removal because of possible damage to the structure. This tank has ≈ 16" of product. Review of site indicates probably 6 tanks on the site. Second tank started to remove from middle of lot - broke off fill pipe (contractor) and spilled some product. This tank is ≈ 8' diameter and ≈ 20' long w/ 14-18" of Stoddard solvent. Third tank next to it. Have removed one small tank in very bad condition which is sitting on site. Shut down site and taped off area around noon. Was going to contact Jerry Bauer? EPA to get ID # for the site. Have one barrel on site w/contaminated soil, asphalt, pipe & a plastic bucket.

Signature: Deborah J. Pengel
(please write legibly)

Lonsdorf & Andraski

ATTORNEYS AT LAW

JAMES P. LONSDORF • KENNETH J. ANDRASKI

610 JACKSON STREET
P. O. BOX 872
WAUSAU, WI 54402-0872
(715) 842-1647
FAX (715) 845-7937

Wis. Dept. of Natural
FEB 05 1992
Wausau D
Wausau, Wisc

691

COPY

February 4, 1992

Patrick Bresnahan
Wausau Fire Department
606 E. Thomas Street
Wausau, WI 54401

RE: Sophie Marshall
303-305 S. Second Avenue
Wausau, WI 54401
File Ref. FID No. 737081510
Marathon County HWCME

Dear Officer Bresnahan:

We have been informed by four consultants that there would be a substantial increase in costs if we proceed with the removal of the tanks on the property above at this time.

We would, therefore, request at this time an additional 90-day extension to comply with your order on underground storage tanks at Kraft Cleaners, 303 S. Second Avenue, Wausau.

Your consideration of this would be greatly appreciated. Thank you very much.

Very truly yours,

JAMES P. LONSDORF

JPL:lmg

cc: Sophie Marshall
Laurie Groskopf
Tom Jerow
Michelle Owens
Bob Gutknecht

691

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

5301 Rib Mountain Drive
Wausau, Wisconsin 54501
TELEPHONE 715-359-4522
TELEFAX 715-359-0082

December 9, 1991

FILE REF: FID# 737081510
Marathon County
HW CME

Ms. Sophia Marschall
1127 E. Wausau Ave.
Wausau, WI 54401

SUBJECT: Underground Storage Tanks, Kraft Cleaners, 303 S. Second Avenue, Wausau.

Dear Ms. Marschall:

The existence of five underground storage tanks located on the property at 303 S. Second Avenue, Wausau, has been brought to the Department's attention. It is understood that these tanks may contain product and/or waste solvent formerly used in the dry cleaning business located at the site.

As a result, the Department requests upon receipt of this letter, you immediately take action to identify the contents of the tanks and then proceed with the following activities:

1. Remove the underground tanks and properly manage the disposal of any material found inside of the tanks. Please be aware of the fact that any material found in the tanks may have to be managed as a hazardous waste.

2. Conduct a site assessment to determine if the tanks or their ancillary piping have allowed a discharge to the environment.

3. If a discharge to the environment has occurred, submit a site remediation proposal that will provide for restoration of the environment.

The Department requires that within 7 days of the receipt of this letter, you provide it with your decision, in writing, as to whether or not you intend to proceed with activities 1 through 3 listed above. The Department suggests you hire an environmental consultant to assist in conducting the site assessment.

Within 14 days of the receipt of this letter, a Scope of Work, describing how you will implement the activities listed above, should be submitted to the

Department for approval.

Written correspondence on this matter should be sent to: Wisconsin Department of Natural Resources, 5301 Rib Mountain Drive, Wausau, WI 54401. If you have any questions regarding this letter or any analytical results, or if you need additional information, please contact me at (715) 359-4522.

Sincerely,
NORTH CENTRAL DISTRICT

Richard L. Brown

Richard L. Brown
Hazardous Waste Specialist

RLB:so

cc: Laurie Groskopf, Rhinelander
Tom Jerow, Rhinelander
Michelle Owens, Rhinelander
Bob Gutknecht, Wausau
PSS, SW/3
Ron Jones, Metro Valley Realty, Inc., 3303 Terrace Ct., Wausau, WI 54401
Pat Bresahan, Wausau Fire Department

PHONE CONVERSATION RECORD

DATE: 12-9-91
TIME: 8:30Am

CONVERSED WITH: Perry Schuette
Northwest Petroleum Service, Inc.
715/675-2084

SUBJECT/PROJECT: Kraft Cleaners

UNIQUE ID#.: 697

Schuette called regarding what analyses needed to be performed on soil at the tank closure at Wausau Cleaners (Kraft Cleaners) on Second Ave., in Wausau. Schuette said that 2 of the tanks contained Stoddard Solvent - one possibly contained spent stoddard solvent - 2 tanks contained gasoline and one tank contained an unknown substance - total number of tanks is 5. I asked Schuette how he knew the tanks contained the products he told me that they contained. Schuette said that Kraft told him what was in the tanks. I explained to Schuette that a determination must be made as to what is actually in the USTs. I explained to Schuette that if excavation takes place before a determination is made as to contaminants in the soil and product in the USTs, the excavated soil may be determined to be Hazardous waste and potentially large sums of money will need to be expended to dispose of the waste. Schuette said that borings could be completed in the area but it may be difficult because they don't know where the tanks are. I told Schuette that the location of the tanks would need to be determined. I told Schuette that I'd call back with the analyses requirements.

Signature: Bob Fruhauf
(please write legibly)

PHONE CONVERSATION RECORD

DATE: 12-6-91
TIME: 10:45AM

CONVERSED WITH: Ron Jones, Realtor
Metro Valley Realty
(Wausau)
842-2147

SUBJECT/PROJECT: Kraft Cleaners - Wausau

UNIQUE ID#.: 697

12-6-91: Cindy Aitkee spoke with Ron Jones, Realtor of Metro Valley Realty. He is handling the sale of Kraft Cleaners.
Owner is Sophia Marschall - widow.
Per Mr. Jones, Sophia's # is 842-1106.
At this point, Mr. Jones was told that there are 5 UST's (2 with stoddard solvent, 3 with possibly Gasoline?) They have not been used since probably 1960's.
Sophia and husband (John Marschall) operated Wausau Trophy out of the location since 1978 and purchased it in 1982 from James ~~Silverwood~~ Silverwood. Mr. (John) Marschall has since passed away. Wausau Trophy relocated and Tom Passow is owner/operator.
Kraft Cleaners does not use any UST's as all cleaning is shipped out. Roger Kraft formerly worked for James R. Silverwood, who

Signature: _____
(please write legibly)

(cont'd)

PHONE CONVERSATION RECORD

(p. 2 of 2)

DATE: 12-6-91
TIME:

CONVERSED WITH: Ron Jones, Metro Valley Realty

SUBJECT/PROJECT: Kraft Cleaners

UNIQUE ID#.:

operated Wausau Cleaners years ago. Per Roger Kraft, at least 3 tanks contain stoddard solvent. This information was gotten from ~~the~~ a past/former supplier, which he spoke with.

Also - per Ron Jones - Sophia Marshall says that James Silverwood knows nothing about any UST's. At this point, it is unknown where the UST's are located. Mr. Silverwood formerly owned adjacent property (Domino's Pizza etc.) - tanks may be on this site. Mr. Silverwood currently resides in Chicago area. Ron Jones is working with Northwest Petroleum and Watt's Petroleum waiting for an estimate to remove tanks - but currently at a standstill!

Signature: Cindy Artibee
(please write legibly)

PHONE CONVERSATION RECORD

DATE: 12-2-91
TIME: 8:30 Am

CONVERSED WITH: Ron Jones
Mohr Valley Realty

SUBJECT/PROJECT: Kraft Cleaners.

UNIQUE ID#.: 697

I spoke with Ron Jones re. above site. Jones told me that according to Roger Kraft (who worked at Larson Cleaners, same location different name) 5 underground storage tanks are present at the location. Jones said that dry cleaning solvent was stored in the UST's based on information he received from Kraft.
Two fill pipes are visible, the other fill pipes/vent pipes may have been broken off and paved over.
Sofie Marshal purchased property about 10 years ago, according to Jones. Marshal has about $50,000 to spend toward cleanup if needed.
I advised Jones of Hazardous Waste Concerns and the need to perform an investigation prior to tank removal. (we briefly discussed consultant selection. Jones said he'd stop at the DNR office to obtain what information we have. I provided:

1) How to choose a consultant
2) NCN packet re performing an investigation
3) How to manage tank sludge.

Signature: Bob Nuelle
(please write legibly)

PHONE CONVERSATION RECORD

DATE: 11-20-91
TIME: 4:40 pm

CONVERSED WITH: Col Colbertson
Metro Valley Realty
842-2147

SUBJECT/PROJECT: Kraft Cleaners

UNIQUE ID#.: 697

Spoke with Colbertson of Metro Valley Realty. Jones was not available.

I advised Colbertson of the hazardous waste issues.

1) Can't just remove the tanks as in a typical petroleum UST closure.

2) Any soil generated as part of the UST closure may need to be handled as a hazardous waste.

3) An investigation to determine tank contents and whether or not a release from the tanks should be performed before UST removal.

Colbertson said that Jones will be available on Monday 12-2-91.

Signature: Bob Neubert
(please write legibly)

PHONE CONVERSATION RECORD

DATE: 11-20-91
TIME: 4:35 pm

CONVERSED WITH: Scott Watson WDNR

SUBJECT/PROJECT: Kraft Cleaners

UNIQUE ID#.: 697

I advised Watson of the concern at Kraft Cleaners.
Any soils excavated and contaminated with dry cleaning solvent would be a hazardous waste.

Perform an investigation before pulling the tanks
1) Determine release to environment.
2) What is in tanks

Signature: Bob [illegible]
(please write legibly)

Copy to Richard Brown - 12/5/91

PHONE CONVERSATION RECORD

DATE: 11-20-91
TIME: 4:25 PM

CONVERSED WITH: Pat Bresnahan
Wausau Fire Department.
843-1400

SUBJECT/PROJECT: UST's possibly containing Dry cleaning Solvent.
Kraft Cleaners.

UNIQUE ID#.: 697

Bresnahan reported that through an inspection performed by the Wausau Fire Dept., possibly 5 USTs have been located at a dry cleaning establishment at 303 or 305 south Second Ave., in Wausau. Bresnahan said that the largest of the tanks is believed to be 2000 gallons and may contain pure dry cleaning solvent - the other tanks may contain waste solvent. All that is visible is fill pipes, the tanks have been paved over, according to Bresnahan. Name of the Dry Cleaner is Kraft Cleaners, 303 S. 2nd Ave., Wausau, Wisconsin 845-4415. Bresnahan said that the owner is "Sofie" (Sp?) an older woman who is selling the property and is close to retirement. Bresnahan said that according to information he's obtained, there is a buyer for the property and the closing date is the first week of December.

I explained to Bresnahan that the product in the tank is potentially a hazardous waste and that different closure procedures are needed. Bresnahan said that Northwest Petroleum had been contacted and Bresnahan said that he's requiring the 15 day advance notification. Bresnahan said that Perry Schwette of Northwest Petroleum would be calling me.

Signature: Bob Nuttall
(please write legibly)

Page 1 of

PHONE CONVERSATION RECORD

DATE: 11-20-91
TIME: 4:25-91

CONVERSED WITH: Bert Bresnahan

SUBJECT/PROJECT: Kraft Cleaners.

UNIQUE ID#.:

Bresnahan gave me the name of the realtor handling the property:
Ron Jones
Metro Valley Realty
Office 842-2147
Home 359-7416

Signature: Bob Smith
(please write legibly)

Page 2 of 2

697

917747

STATE BAR OF WISCONSIN FORM No. 3-1980

PERSONAL REPRESENTATIVE'S DEED

VOL 521 PAGE 278

Sophie Marschall

as Personal Representative of the estate of

John J. Marschall

("Decedent"),

for a valuable consideration conveys, without warranty, to

Sophie Marschall

Grantee,

the following described real estate in Marathon County,

State of Wisconsin (hereinafter called the "Property"):

521 MICRO-278

Patrick D. Braatz
REGISTER OF DEEDS

4.00 Hd 1594 0

BACHHUBER LAW OFFICES
606 JACKSON ST.
WAUSAU, WI 54401

The 50% share of John Marschall in
The South fifty-two (52) feet of Lots five (5) Tax Parcel No: and six (6) in Block two (2) of A. Stewart's Addition to Wausau, except that portion of said Lot six (6) in Block two (2), beginning at a point on the East Line thereof, 60 feet South of the Northeast corner of said Lot 6; thence running South 10 feet; thence West 23 feet, thence North 10 feet; and thence East 23 feet to the point of beginning, in A. Stewart's Addition in the City of Wausau, Wisconsin, more particularly in Volume 11 of Certified Survey Maps on Page 262 which is more particularly described as follows:

A parcel of land being a part of Lots 5 and 6, Block 2, A. Stewart's Addition, City of Wausau, Marathon County, Wisconsin, more particularly described as follows: Commencing at the NW Corner of Block 2, of said Addition; thence S 0° 02' 00" E, along the East R/W Line of Second Avenue, 60.00 feet to the point of beginning of the following described parcel: Thence N 89° 08' 30" E, 97.20 feet; thence S 0° 00' 42" W, 10.00 feet; thence N 89° 08' 30" E, 23.00 feet thence S 0° 00' 42" W, 42.57 feet; thence S 89° 01' 03" W, 120.14 feet to the East R/W Line of Second Avenue; thence N 0° 02' 00" W, along the East R/W Line of said Avenue, 52.83 feet to the point of beginning.

FLE

#7725 (4)
EXEMPT

Personal Representative by this deed does convey to Grantee all of the estate and interest in the Property which the Decedent had immediately prior to Decedent's death, and all of the estate and interest in the Property which the Personal Representative has since acquired.

Dated this 18th day of January, 19 90.

(SEAL) Sophie Marschall (SEAL)

Personal Representative

Sophie Marschall
Personal Representative

AUTHENTICATION

Signature(s) of Sophie Marschall

authenticated this 18th day of January, 19 90

LeAnn R. Prock
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
LeAnn R. Prock, Attorney at Law
Wausau, Wisconsin

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN }
County, } ss.
Personally came before me this day of , 19 the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

JAN 19 1990
PATRICK D. BRAATZ
REGISTER OF DEEDS

Notary Public County, Wis.
My Commission is permanent. (If not, state expiration date: , 19 .)

*Names of persons signing in any capacity should be typed or printed below their signatures.

697

DOCUMENT NO.

VOL. 443 PAGE 1087

WARRANTY DEED
STATE BAR OF WISCONSIN FORM 2 — 1982

862373

THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
Marathon County, WI
'86 DEC 31 AM 9 42

Volume 443 of MICRO-RECORDS on page 1087
REGISTRAR

862373

John Marschall and Sophie Marschall a/k/a Sophia Marschall

conveys and warrants to John Marschall and Sophie Marschall, his wife, to each a 50% share herein to hold as individual property

the following described real estate in Marathon County, State of Wisconsin:

Tax Parcel No:

The South Fifty-two (52) feet of Lots Five (5) and Six (6) in Block Two (2) of A. Stewart's Addition to Wausau; except that portion of said Lot Six (6) in Block Two (2); beginning at a point on the East Line thereof, 60 feet South of the Northeast corner of said Lot 6; thence running South 10 feet; thence West 23 feet; thence North 10 feet; and thence East 23 feet to the point of beginning, in A. Stewart's Addition in the City of Wausau, Wisconsin, more particularly in Volume 11 of Certified Survey Maps on Page 262 which is more particularly described as follows:

A parcel of land being a part of Lots 5 and 6, Block 2, A. Stewart's Addition, City of Wausau, Marathon County, Wisconsin, more particularly described as follows: Commencing at the NW Corner of Block 2, of said Addition; thence S 0° 02' 00" E, along the East R/W Line of Second Avenue, 60.00 feet to the point of beginning of the following described parcel: Thence N 89° 08' 30" E, 97.20 feet; thence S. 0° 00' 42" W, 10.00 feet; thence N 89° 08' 30" E, 23.00 feet thence S 0° 00' 42" W, 42.57 feet; thence S 89° 01' 03" W, 120.14 feet to the East R/W Line of Second Avenue; thence N 0° 02' 00" W, along the East R/W Line of said Avenue, 52.83 feet to the point of beginning.

The purpose of this conveyance is to sever the existing joint tenancy and to create individual property shown in the premises.

This is not (is) (is not) homestead property.

CLD
§77.25 (8)(a)
EXEMPT

Exception to warranties:

Dated this 23rd day of December, 1986.

John Marschall (SEAL)
John Marschall

Sophia Marschall (SEAL)
Sophie Marschall

(SEAL)

(SEAL)

AUTHENTICATION

Signature(s)

authenticated this day of, 19

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
F. E. Bachhuber, Jr., Attorney
Wausau, Wisconsin

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
Marathon County.

Personally came before me this 23rd day of December, 1986 the above named John Marschall and Sophie Marschall

to me known to be the persons who executed the foregoing instrument and acknowledge the same.

Angeline G. Ravanelli
Angeline G. Ravanelli
Notary Public Marathon County, Wis.
My Commission is permanent (If not, state expiration date: 6/04, 1989)

REC'D FOR RECORD
AT 9:42AM
DEC 31 1986
ROBERT G. GRANEZKE
Register of Deeds, Marathon County, Wis.

*Names of persons signing in any capacity should be typed or printed below their signatures.

WARRANTY DEED

STATE BAR OF WISCONSIN FORM No 2 — 1982

Wisconsin Legal Blank Co., Inc.

826553

697

TAX DRAFT NO. STATE BAR OF WISCONSIN FORM 3—1982

PERSONAL REPRESENTATIVE'S DEED

Document Number

394 PAGE 372
REGISTER'S OFFICE
Marathon County, WI } ss.

Received for Record
Volume 394 of MICRO-RECORDS on page 372
REGISTER

Minnie Larson

, as Personal Representative of the estate of

Ralph E. Larson

("Decedent"),

for a valuable consideration conveys, without warranty, to

James Silverwood

, Grantee,

the following described real estate in Marathon County, State of Wisconsin (hereinafter called the "Property"):

Tax Parcel No:

The North sixty (60) feet of Lot five (5) and the North sixty (60) feet of the West one-half (W½) of Lot six (6), all in Block two (2) of A. Stewart's Addition to Wausau.

Said parcel being more particularly described by that certain Certified Survey Map recorded in Volume 2 of Certified Survey Maps on page 237 as document #740217.

This deed is given in full and complete satisfaction of the land contract between decedent and James Silverwood dated September 15, 1978 and recorded October 31, 1978 in Volume 284 of Micro-Records, page 1183 as document #742636, Marathon County Register of Deeds office, and is subject to all taxes, liens, transfers, assignments, claims and encumbrances of whatsoever nature or form made or permitted by the grantee, his heirs or assigns, since September 15, 1978.

TRANSFER FEE $ 33.50

James Silverwood is also known as James F. Silverwood.

Personal Representative by this deed does convey to Grantee all of the estate and interest in the Property which the Decedent had immediately prior to Decedent's death, and all of the estate and interest in the Property which the Personal Representative has since acquired.

Dated this 1st day of December, 19 84

Witness:

Pauline Dresten (SEAL)

Minnie Larson (SEAL)
Minnie Larson
Personal Representative

XXXXXXXXXXXXX

AUTHENTICATION

Signature(s)

authenticated this day of, 19

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
William B. Hess, Attorney at Law
Wausau, WI
(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF ~~WISCONSIN~~ PENNSYLVANIA } ss.
Allegheny County.

Personally came before me this 1 day of December, 19 84, the above named Minnie Larson

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Agnes E. Kerschner
Notary Public Allegheny County, ~~WIS~~ PA
My Commission is permanent. (If not, state expiration date: Dec. 1, 1984.)

NOTARIAL SEAL
UPPER ST. CLAIR TWP., ALLEGHENY COUNTY
MY COMMISSION EXPIRES AUG. 17, 1987
Member, Pennsylvania Association of Notaries

REC'D FOR RECORD DEC 6 1984 8:58 AM ROBERT E. GRENTZKY Register of Deeds

*Names of persons signing in any capacity should be typed or printed below their signatures.

PERSONAL REPRESENTATIVE'S DEED

STATE BAR OF WISCONSIN FORM No. 3—1982

Wisconsin Legal Blank Co., Inc. Milwaukee, Wis.

other lot of Norton

697

DOCUMENT NO. 826553

826553

Vol. 394 PAGE 373

WARRANTY DEED
STATE OF WISCONSIN FORM 9

REGISTER'S OFFICE
Marathon County, WI } ss

Volume 394 of MICRO-
FILMED on page 373

REGISTRAR

139.50 TT Rec'd
4.00 Cy

THIS INDENTURE, Made by James R. Silverwood, a married man

grantor of Cook County, Illinois
hereby conveys and warrants to

Lynn Vandevort

grantee of MARATHON County, Wisconsin for the sum of
One dollar and other good and valuable consideration

the following tract of land in Marathon County,
Wisconsin:

Return to Peter Hittner
1155 Grand Avenue
Schofield, WI. 54476.

The North Sixty (60) feet of Lot five (5) and the North Sixty (60) feet of the West one-half (W 1/2) of Lot six (6), all in Block two (2) of A. Stewart's Addition to Wausau. Said parcel being more particularly described by that certain Certified Survey Map recorded in Vol. 7 of Certified Survey Maps at page 237 as document #740317.

TRANSFER
$ 139.50
FEE

This is not homestead property

In Witness Whereof, the said grantor has hereunto set his hand and seal this 6th day of December, A. D., 1984.

SIGNED AND SEALED IN PRESENCE OF

James R. Silverwood (SEAL)

(SEAL)

(SEAL)

(SEAL)

State of Wisconsin,
Marathon County. } Personally came before me, this 6th day of December, A. D., 1984, the above named James R. Silverwood

to me known to be the person who executed the foregoing instrument and acknowledged the same.

REC'D FOR RECORD
DEC 6 1984
4:00PM
ROBERT O. GERNETZKY
Register of Deeds

THIS INSTRUMENT WAS DRAFTED BY

Jeffery J. Drach

NOTARY SEAL

Notary Public, State of Wisconsin, County, Wis.

My commission (expires) (is)

(Section 59.31 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have printed or typewritten thereon the names of the grantors, grantees, witnesses and notary. Section [illegible] usually requires that the [illegible] of the [illegible] mental agency which, drafted such instrument, shall be printed, typewritten, stamped or written thereon [illegible]

WARRANTY DEED STATE OF WISCONSIN FORM No. 9 [illegible]

DOCUMENT NO.

351 PAGE 687

STATE BAR OF WISCONSIN FORM 1 — 1982
WARRANTY DEED

THIS SPACE RESERVED FOR RECORDING DATA

697

793861

793861

REGISTER'S OFFICE
Marathon County, WI } ss
'82 SEP 20 PM 3 35
Volume 351 of MICRO-FILM on page 687
Robert Gernetzky
REGISTRAR

Recording & Charge (BY MAIL) 4.00
Jeffery J. Drach, 114 Grand Ave., Wausau, WI 54401 pd. 240.00 ck

Tax Parcel No:

TRANSFER
$ 240.00
FEE

This Deed, made between James R. Silverwood, a married man, Grantor, and John Marschall and Sophia Marschall, his wife, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration, conveys to Grantee the following described real estate in Marathon County, State of Wisconsin:

The South Fifty-two (52) feet of Lots Five (5) and Six (6) in Block Two (2) of A. Stewart's Addition to Wausau; except that portion of said Lot Six (6) in Block Two (2); beginning at a point on the East Line thereof, 60 feet South of the Northeast corner of said Lot 6; thence running South 10 feet; thence West 23 feet; thence North 10 feet; and thence East 23 feet to the point of beginning, in A. Stewart's Addition in the City of Wausau, Wisconsin, more particularly in Volume 11 of Certified Survey Maps on Page 262 which is more particularly described as follows:

A parcel of land being a part of Lots 5 and 6, Block 2, A. Stewart's Addition, City of Wausau, Marathon County, Wisconsin, more particularly described as follows: Commencing at the NW Corner of Block 2, of said Addition; thence S 0° 02' 00" E, along the East R/W Line of Second Avenue, 60.00 feet to the point of beginning of the following described parcel: Thence N 89° 08' 30" E, 97.20 feet; thence S 0° 00' 42" W, 10.00 feet; thence N 89° 08' 30" E, 23.00 feet thence S 0° 00' 42" W, 42.57 feet; thence S 89° 01' 03" W, 120.14 feet to the East R/W Line of Second Avenue; thence N 0° 02' 00" W, along the East R/W Line of said Avenue, 52.83 feet to the point of beginning.

This is not (is) (is not) homestead property.

Together with all and singular the hereditaments and appurtenances thereunto belonging.

And James R. Silverwood warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements, restrictions, and covenants of record and except encroachments shown on the above referenced Certified Survey Map.

and will warrant and defend the same.

Dated this 15th day of September, 19 82

James R. Silverwood (SEAL)

James R. Silverwood

(SEAL)

(SEAL)

(SEAL)

AUTHENTICATION

Signature(s)

authenticated this day of, 19

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Jeffery J. Drach
Juneau, Johnston, Drach & Minder, S.C.
114 Grand Avenue, Wausau, WI 54401

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
Marathon County.

Personally came before me this 15th day of September, 19 82, the above named James R. Silverwood

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public, Marathon County, Wis.
My Commission is permanent. (If not, state expiration date: , 19)

RECD FOR RECORD
SEP 20 1982
3:35 PM
ROBERT J. GERNETZKY
Register of Deeds

*Names of persons signing in any capacity should be typed or printed below their signatures.

DOCUMENT NO. STATE BAR OF WISCONSIN FORM 1 — 1982 THIS SPACE RESERVED FOR RECORDING DATA

351 REC 686

WARRANTY DEED

793860

793860

'82 SEP 20 PM 3 29

351 MICRO-
REC 686
REGISTER

697

This Deed, made between Wausau Cleaners & Laundry, Inc., Grantor,

and James R. Silverwood, a married man, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration

conveys to Grantee the following described real estate in County, State of Wisconsin:

Recorder & Charge (BY MAIL) Jeffery J. Drach, 114 Grand Ave., Wausau, WI 54401

Tax Parcel No:

The South Fifty-two (52) feet of Lots Five (5) and Six (6) in Block Two (2) of A. Stewart's Addition to Wausau except that portion of said Lot Six (6) in Block Two (2); beginning at a point on the East line thereof, 60 feet South of the Northeast corner of said Lot 6; thence running South 10 feet; thence West 23 feet; thence North 10 feet; and thence East 23 feet to the point of beginning, in A. Stewart's Addition in the City of Wausau, Wisconsin, more particularly in Volume 11 of Certified Survey Maps on Page 262 which is more particularly described as follows:

A parcel of land being a part of Lots 5 and 6, Block 2, A. Stewart's Addition, City of Wausau, Marathon County, Wisconsin, more particularly described as follows: Commencing at the NW corner of Block 2, of said Addition; thence S 0° 02' 00" E, along the East R/W Line of Second Avenue, 60.00 feet to the point of beginning of the following described parcel: Thence N 89° 08' 30" E, 97.20 feet; thence S 0° 00' 42" W, 10.00 feet; thence N 89° 08' 30" E, 23.00 feet; thence S 0° 00' 42" W, 42.57 feet; thence S 89° 01' 03" W, 120.14 feet to the East R/W Line of Second Avenue; thence N 0° 02' 00" W, along the East R/W Line of said Avenue, 52.83 feet to the point of beginning.

This deed is given in satisfaction of that certain Land Contract dated December 27, 1979 and recorded December 28, 1979 in Micro-Record 3[illegible] on Page 064; said Land Contract was re-recorded on February 7, 1980 in Micro-Record [illegible], Page [illegible].

TRANSFER 7

This is not (is) (is not) homestead property.

75.00

Together with all and singular the hereditaments and appurtenances thereunto belonging;

And Wausau Cleaners & Laundry, Inc. warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements, restrictions and covenants of record and except encroachments shown on the above referenced Certified Survey Map.

and will warrant and defend the same.

Dated this 13th day of August, 19 82

Wausau Cleaners & Laundry, Inc.

(SEAL) By: (SEAL)
James R. Silverwood, President

(SEAL) (SEAL)
Marie Silverwood, Secretary

AUTHENTICATION

Signature(s)

authenticated this day of, 19

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Jeffery J. Drach
Bumeau, Johnston, Drach & Minder, S.C.
114 Grand Avenue, Wausau, WI 54401

(Signatures may be authenticated or acknowledged. Both are not necessary.)

RECEIVED FOR RECORD SEP 20 1982 ROBERT E. GERNETZKY Register of Deeds

ACKNOWLEDGMENT

STATE OF WISCONSIN
Marathon County. } ss.

Personally came before me this 13th day of August, 1982 the above named

James R. Silverwood and Marie Silverwood

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public, County, Wis.
My Commission is permanent (If not, state expiration date: , 19)

*Names of persons signing in any capacity should be typed or printed below their signatures.

DOCUMENT NO. VOL. 309 PAGE 525 761057

VOL. 307 PAGE 964 Rec 762317

STATE BAR OF WISCONSIN — FORM 11
LAND CONTRACT — Individual and Corporate

THIS SPACE RESERVED FOR RECORDING DATA

REGISTER'S OFFICE
Marathon County, WI } ss

Volume 307 of MICRO-RECORDS on page 964-965

Robert L. Barnetty
REGISTRAR

RETURN TO 300 cy.
DRACH LAW FIRM
Wausau, WI 54401

Tax Key No.

Contract, by and between Wausau Laundry & Larson's Cleaners, Inc. g.m. ("Vendor", whether one or more) and James R. Silverwood ("Purchaser", whether one or more). Vendor sells and agrees to convey to Purchaser, upon the prompt and full performance of this contract by Purchaser, the following property, together with the rents, profits, fixtures and other appurtenant interests (all called the "Property"), in Marathon County, State of Wisconsin:

The South Fifty-two (52) feet of Lots five (5) and six (6) in Block two (2) of A. Stewart's Addition to Wausau; except that portion of said Lot six (6) in Block two (2), beginning at a point on the East Line thereof, 60 feet South of the Northeast corner of said Lot 6; thence running South 10 feet; thence West 23 feet; thence North 10 feet; and thence East 23 feet to the point of beginning.

REGISTER'S OFFICE
Marathon County, WI } ss
'80 FEB 7 PM 2 51

FEE
$77.22(2)
EXEMPT

FEE
$77.25 (3)
EXEMPT

Volume 309 of MICRO-RECORDS on page 525-526

Robert L. Barnetty
REGISTRAR

This is not homestead property.
(is) (is not)

Purchaser agrees to purchase the Property, and to pay to Vendor at the sum of $ 75,000.00 in the following manner: $ 5,238.03 at the execution of this Contract, and the balance of $ 69,761.97 together with interest from date hereof on such portions as remain from time to time unpaid, at the rate of per cent per annum, until paid in full, as follows:

Buyer to assume two existing mortgages between Vendor and Citizens State Bank and Trust. Principle and interest of said mortgages shall be payable in monthly installments of not less than $601.65 per month, beginning on December 27, 1979, provided the entire purchase money and interest shall be fully paid by June 30, 1981.
The balance owing on the two existing mortgages which buyer agrees to assume is $69,761.97 as of the date of this land contract.

Purchaser, unless excused by Vendor, agrees to pay monthly to Vendor payments sufficient reasonably to anticipate the payment of taxes, special assessments, fire and required insurance premiums. To the extent received by Vendor, Vendor agrees to apply payments to these obligations when due. Such amounts received by the Vendor for payment of taxes, assessments and insurance will be deposited into an escrow fund or trustee account, but shall not bear interest unless otherwise required by law.

Payments shall be applied first to interest on the unpaid balance at the rate specified and then to principal. Any amount may be prepaid without premium or fee upon principal at any time after January 1, 19 80.

In the event of any prepayment, this contract shall not be treated as in default with respect to payment so long as the unpaid balance of principal, and interest (and in such case accruing interest from month to month shall be treated as unpaid principal) is less than the amount that said indebtedness would have been had the monthly payments been made as first specified above; provided that monthly payments shall be continued in the event of credit of any proceeds of insurance or condemnation, the condemned premises being thereafter excluded herefrom.

~~Vendor states that Purchaser is satisfied with the title as shown by the title evidence submitted to Purchaser:~~

Purchaser agrees to pay the cost of future title evidence. If title evidence is in the form of an abstract, it shall be retained by Vendor until the full purchase price is paid.

Purchaser shall be entitle to take possession of the Property on December 30, 19 79.

*Cross Out One. (TO BE USED IN NON-CONSUMER ACT TRANSACTIONS)

Purchaser promises to pay when due all taxes and assessments levied on the Property or upon Vendor's interest in it and to deliver to Vendor on demand receipts showing such payment.

Purchaser shall keep the improvements on the Property insured against loss or damage occasioned by fire, extended coverage perils and such other hazards as Vendor may require, without co-insurance, through insurers approved by Vendor, in the sum of $ 55,000.00, but Vendor shall not require coverage in an amount more than the balance owed under this Contract. Purchaser shall pay the insurance premiums when due. The policies shall contain the standard clause in favor of the Vendor's interest and, unless Vendor otherwise agrees in writing, the original of all policies covering the Property shall be deposited with Vendor. Purchaser shall promptly give notice of loss to insurance companies and Vendor. Unless Purchaser and Vendor otherwise agree in writing, insurance proceeds shall be applied to restoration or repair of the Property damaged, provided the Vendor deems the restoration or repair to be economically feasible.

Purchaser covenants not to commit waste nor allow waste to be committed on the Property, to keep the Property in good tenantable condition and repair, to keep the Property free from liens superior to the lien of this Contract, and to comply with all laws, ordinances and regulations affecting the Property.

Vendor agrees that in case the purchase price with interest and other moneys shall be fully paid and all conditions shall be fully performed at the times and in the manner above specified, Vendor will on demand, execute and deliver to the Purchaser, a Warranty Deed, in fee simple, of the Property, free and clear of all liens and encumbrances, except any liens or encumbrances created by the act or default of Purchaser, and except: None

Purchaser agrees that time is of the essence and in case of default in the payment of any principal or interest when due, or in the performance of any of the conditions, covenants, or promises of Purchaser, and such default shall continue for a period of 60 days, then Vendor may, at Vendor's option, declare the contract at an end, all rights of the Purchaser under this agreement cancelled, and the amounts paid by Purchaser hereunder forfeited, the same to remain Vendor's property as rental of said premises and as liquidated damages for the failure completely to fulfill this agreement; and Vendor shall forthwith and without notice have the right of re-entry; or, at the option of Vendor and without notice to Purchaser, notice being hereby expressly waived, the whole amount of unpaid principal shall be deemed to have become due and payable, in case such option shall be exercised, the unpaid principal and interest together with all sums which may be or have been paid by Vendor as herein authorized with interest on such disbursements at the rate aforesaid shall be collectible in a suit of law, or by foreclosure of this contract in the same manner as if the whole of unpaid principal had been due at the time when any such default occurred, and the indebtedness shall embrace, with unpaid principal and interest, all the sums so disbursed with interest as aforesaid. In case of legal proceedings to enforce any remedy hereunder, whether abated or not, all expenses, including reasonable attorney's fees, shall be added to the principal, become due as incurred, and in case of judgment shall be included therein.

Upon the commencement or during the pendency of any action of foreclosure of this Contract, Purchaser consents to the appointment of a receiver of the Property, including homestead interest, to collect the rents, issues, and profits of the Property, during the pendency of such action, and such rents, issues, and profits when so collected shall be held and applied as the court shall direct.

All terms of this Contract shall be binding upon and inure to the benefits of the heirs, legal representatives, successors and assigns of Vendor and Purchaser. (If not an owner of the Property the spouse of Vendor for a valuable consideration joins herein to release homestead rights in the subject Property and agrees to join in the execution of the deed to be made in fulfillment hereof.)

Dated this 27th day of December, 19 79

This instrument re-recorded to show correct corporate name.

(SEAL) James R. Silverwood (SEAL)

James R. Silverwood

(SEAL) James R. Silverwood President (SEAL)

Wausau Laundry & Larson's Cleaners Inc.

AUTHENTICATION

Signatures authenticated this 27th day of December, 1979.

Jeffery J. Drach

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Jeffery J. Drach
Attorney at Law
Wausau, WI 54401

(Signatures may be authenticated or acknowledged. Both are not necessary.)
The use of witnesses is optional.

RE REC'D FOR RECORD FEB 7 1980 2:51 PM ROBERT G. GERNETZKY Register of Deeds

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
County.

Personally came before me, this day of the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Notary Public County, Wis.
My Commission is permanent. (If not, state expiration date: , 19.)

REC'D FOR RECORD DEC 28 1979 3:05 PM ROBERT G. GERNETZKY Register of Deeds

*Names of persons signing in any capacity should be typed or printed below their signatures.

Questions for Ron Jones of Metro Valley Realty. 842-2147

1) Who is the current owner of Kroot cleaners? (Sofie Mrachel)

2) How do you spell Sofie's name?

3) What is Sofies address & phone number?

4) How long has she owned the property?

5) Who did she purchase the property from?

6) How long did Larson Dry Cleaning operate out of the location?

7) How long did Wenser Trophy operate out of the location.

8) Rich Brown, Hazardous Waste Specialist is aware of case. Please contact Rich Brown re. questions related to haz waste.

Property Search 303 2nd Ave.

go back ~~to 19~~ to 1980 on →

get copies

Write vol & page

$2.00 each 2.

1. Treasurer Office

① Owner now long when

② Copy of Deed

Report I.D. 37-291-4-2907-264-0174

Kraft Cleaners 303 S. 2nd Ave.

597005 , 2. 5. .

Sophie Marschall 2907.264.0174

M351-687
M443-1087
M521-278

Report Date 2/27/91

A Stewart's Ad BLK 2

S 52' of Lot 5 & 6
Ex Com 60' S of NE Cor of Lot 6 S 10' W

23' N 10' E 23' to Beg
A/D/A CSM VOL 11 page 262

LC MR 309-525
307-964
351-686
687
394-372
373

697

Questions for Ron Jones of Metro Valley Realty. 842-2147

1) Who is the current owner of Kroft cleaners? (Sofie Marshal)

2) How do you spell Sofia's name? Sophia Marschall

3) What is Sofia's address & phone number?

4) How long has she owned the property?

5) Who did she purchase the property from? On 9-15-82 Sophia and her husband John Marschall, purchased property from

6) How long did Larson Dry Cleaning operate out of the location?

7) How long did Lawson Trophy operate out of the location.

8) Rich Brown, Hazardous Waste Specialist is aware of case. Please contact Rich Brown re. questions related to haz waste.

5) cont'd James R. Silverwood.

6) Minnie Larson, personal rep. of Ralph E. Larson conveys property to James R. Silverwood on 12-1-84

~~and on 12-6-84 James R. Silverwood has indenture to Lynn Vandevort for $1.00.~~

(697)

Department of Natural Resources

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 3-91

Site Name: Kraft Cleaners

PMN: _____ FID: _____

Proj Mgr: _____

Support Person: _____

District: NCD County: Marathon

Address: 303 S. 2nd Ave.
Wausau, WI 54401

Legal Municipality: _____

Legal Desc: NW 1/4 ____ 1/4 Sec ____ T ____ R ____ E/W

Date of Initial Contact: 11/20/91 Date of Letter: 12/9/91 Date Site Closure Approved: ___/___/___

Status
- ___ 1 = State Lead
- X 2 = RP Lead

Priority Screening
- ___ 1 = High
- ___ 2 = Medium
- ___ 3 = Low
- X 4 = Unknown

Score: ____ . ____

Funding Source
- X 1 = RP
- ___ 2 = LTF
- ___ 3 = EF
- ___ 4 = SF
- ___ 5 = None
- ___ 6 = Other (Describe In Comments)
- ___ 7 = EPA (Emergency Resp)

from Rich Brown Haz. Waste

PECFA Review Requested
(√) ___ Yes ___ No

Date PECFA Request Received
(mm/dd/yy) ___/___/___

Lust Trust Eligible
- ___ 1 = Federal
- ___ 2 = Non-Federal

CASE STATUS

(√) As Appropriate	Date Initiated (mm/dd/yy)	Date Completed (mm/dd/yy)	Comments
X No Action Taken (N)			
___ Emergency (E)	___/___/___	___/___/___	(tanks not pulled yet!)
___ Emergency Response (R)	___/___/___	___/___/___	
X Field Investigation (I)	___/___/___	___/___/___	
___ Remedial Action (C)	___/___/___	___/___/___	
___ Long Term Monitoring (L)	___/___/___	___/___/___	

(√) All Appropriate	Known Impacts (√)	Potential Impacts (√)
___ Fire/Explosion Threat (1)	___	___
___ Contaminated Private Well (2)	___	___
___ Contaminated Public Well (3)	___	___
___ Groundwater Contamination (4)	___	X
___ Soil Contamination (5)	___	X
___ Other: (6) _____	___	___

Substances (√)
- ___ Leaded Gas(1)
- ___ Unleaded Gas (2)
- ___ Diesel (3)
- ___ Fuel Oil (4)
- ___ Unknown Hydrocarbons (5)
- X Other (8) Dry cleaning solvents
- ___ VOCS (6)
- ___ Pesticide (7)

(5 tanks total)

Quantity Discharged _____

Responsible party
Name: Sophia Marschall
Address: 1127 E. Wausau Ave.
Wausau WI 54401
Telephone: 715 / 842-1106
(list additional on separate list and attach.)

cc: James P. Lonsdorf
610 Jackson St.
P.O. Box

Consultant: CWE
Contact: George Peterson
Address: 903 Grand Ave.
Rothschild WI 54474
Telephone: 715 / 359-9400

Amount Committed: $_____ . ____

Amount Spent: $_____ . ____
(list additional on separate list and attach.)

ENFORCEMENT ACTION TAKEN

01 = Inf. Contact, Resp Initiated	08 = Adequate Response	15 = Formal Enf Conf	22 = Draft Referral
02 = RP Letter, Resp Initiated	09 = Progress Being Made	16 = Enf Conf. Letter	23 = Referral to DOJ
03 = NTC of Non Compliance	10 = Defer Enforcement	17 = Admin. Order Proposed	24 = Referral to DA
04 = Inf. Enf. Conf, Resp Initiated	11 = Close Out	18 = Admin. Order Final	25 = Referral to EPA
05 = Follow-up Enf. Conf, Resp Initated	12 = Recommend NFA	19 = Admin. Order Modified	26 = Continuing Violation
06 = Inspection Letter	13 = FWD to Secondary Enf	20 = Admin. Order Cancelled	27 = See Next Violation
07 = Response Received	14 = Notice of Violation	21 = Contest Case Hearing	28 = Site Inspection

99 = Other Action: _____

ACTION (code from above)	DATE (mm/dd/yy)	COMMENT
___	___/___/___	
___	___/___/___	

(list additional on separate list and attach.)

LUST CASE PRIORITY SCREENING WORKSHEET

HIGH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil waters and air of the State of Wisconsin.)

____ Contaminated private or public well >NR140 enf. std.
____ Explosive or toxic vapors in structures
____ Threat of fire

HIGH OR MEDIUM FACTORS: (write in choice of high or medium)
____ Floating product (medium if no receptors within 1 mile)
____ Known gw contamination (private or public well <140 enf. std.)
____ Impacted surface water - -wetland, trout stream, etc. impacted
____ Saturated soil contamination

MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

____ Moderate (e.g. 100 - 500 ppm TPH) soil contamination with moderate potential for impacting groundwater.
____ Impacted surface water - - no critical habitat threats.

LOW FACTORS: DEFINITION: Any case where contamination has been documented, but which presents limited potential for any immediate threat to human health and vital natural resources.)

____ Soil contamination (e.g. less than 100 ppm TPH) which appears to have a limited potential for impacting groundwater.
____ Initial remedial action has substantially reduced environmental threat.

UNKNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

____ Inadequate information to assign a high, medium, or low ranking.

OVERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional information is received. Special circumstances for a particular case may be taken into account in the comment section. The District LUST coordinator may independently set the ranking of a site based upon "special circumstances."

Circle one & date, indicate in priority screening box opposite side _____ HIGH _____ MEDIUM _____ LOW _____ UNKNOWN

Overall Site Comment: _____

NUMERICAL LUST SCORING WORKSHEET (Complete for LUST cases ranked HIGH)

1. GROUNDWATER & SOILS: (circle one)

POINTS	
20	Municipal Well
18	>5 private wells
16	4 - 6 private wells
14	2 - 3 private wells
12	1 private well

_____ SCORE

POINTS	
8	Soil & gw within 1200' of a public well
6	Soil & gw within 1200' of one or more private wells
4	GW contamination, no wells within 1200'
2	Soil contamination

*For purposes of this scoring, private well includes any non-municipal water supply system.

2. EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
	8	Explosive levels in a sewer or structure
12	6	Toxic levels in a residence or building

NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

_____ SCORE

3. HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10	Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
8	Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface .
6	Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
4	Impermeable stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2	Impermeable stratigraphy and groundwater greater than 25 feet below ground surface.

_____ SCORE

4. TYPE OF PRODUCT: (circle one)

POINTS	
8	Gasoline, mixture of gasoline and other products, other light petroleum products.
6	Diesel, fuel oil.
2	Bunker oil, other heavy oils or crude fractions.

_____ SCORE

List Additional Responsible Party Names Here:

Responsible Party Name: _____
Address: _____
_____
Phone: ____/_____

Responsible Party Name: _____
Address: _____
_____
Phone: ____/_____

Responsible Party Name: _____
Address: _____
_____
Phone: ____/_____

Responsible Party Name: _____
Address: _____
_____
Phone: ____/_____

List Additional Consultants Here:

Consultant: _____
Contact: _____
Address: _____
_____
Phone: ____/_____
Amount Committed: $_____.____ Amount Spent: $_____.____

Consultant: _____
Contact: _____
Address: _____
_____
Phone: ____/_____
Amount Committed: $_____.____ Amount Spent: $_____.____

List Additional Enforcement Actions Here:

Action Code	Date (mo/day/yr)	Comment
____	____ / ____ / ____	_____
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Additional Site Comments:

11-20-91: Bresnahan of Wausau Fire Dept. reported possibly 5 UST's at site (to BOB G.) Only the fill pipes are visible and tanks are probably paved over. The tanks are believed to contain dry cleaning solvents — in which case — are considered "hazardous waste."
Before pulling the tanks, an investigation must be performed to (1) determine any release to the environment, (2) what is in the tanks.
Ron Jones is the Realtor of Metro Valley Realty who is currently representing Sophia Marschall, the owner.
(Ron Jones phone # is 715-842-2147)