CORRESPONDENCE/MEMORANDUM ·

DATE: December 11, 2019	·
TO: Chris Saari-Ashland Mar Antigo	k Pauli-Rhinelander John Sager -Superior Kathleen Shafel -
FROM: Carrie Stoltz-Rhinelander	
SUBJECT: Former Dry Cleaner (#02-Consultant: None of record	35-560159) DISCUSSION ONLY
Recommendation:	Continuing Obligations (56):
Approval	Soil at Industrial Use (220)
Not Ready for Closure Pause for Corrections	Maintain Cap (222)
	Structural Impediment (224)
	Vapor Intrusion (226) Option(s)
Yet to be Completed:	Site Specific Condition (228)
Enforcement	Maintain LGU Exemption (230)
Permits	Maintenance/Inspection Report Required (238)
	Residual Soil Exceeds Standards (232)
Closure Conditions (84):	Residual GW Exceeds Standards (236)
Monitoring Well Abandonment	MW Needs Abandonment (234) Option
Removal of Soil Piles/Purge Water	

Recommendation Summary:

I am bringing this Site to the Closure Committee because it has been stalled since 2013. I would like the Committee to determine if a cost recovery letter, lien or deed notice is appropriate. The RP, Michael Chelf has no monies for an investigation.

The Site was home to a dry- cleaning business approximately 30+ years ago. The 2-story building was converted into a 2- bedroom apartment until the building was destroyed by a fire in 2002. Currently, the lot is vacant.

The Department was notified in 2013 after a soil boring investigation performed by MSA for a DOT road project, detected PCE (0.32 mg/kg) in soil boring B-12 at 10 to 12 feet bgs. A GW sample was obtained from B-11 but was only tested for PVOCs-no detects were noted. No other GW samples were collected.

A Phase 2 was performed in 1996 by Drake Environmental, but the Department did not receive a copy of this report until April 1st, 2013. Drake's borings were installed behind and to the side of the former drycleaning building-not close to the more recent MSA borings. Mr. Chelf was sent an RP letter on April 25, 2013, because staff determined the sampling results and boring locations in the Phase 2 investigation was insufficient to support the conclusion that the Site was not the source of PCE. Also, the Phase 2 was performed in the winter in snow covered conditions, so it is unknown if there were spills or stressed vegetation.

According to the Phase 2 report (Drake) GW was encountered at 10 feet bgs. Groundwater flow is unknown, but maybe to the northwest towards Lake Mohawksin.



UNITED STATES ROSTAL SERVICE

WI 532 05 SEP '15



First-Class Mail Postage & Fees Paid USPS Permit No. G-10

• Sender Please print your name, address, and ZIP+4® in this box•

State Of Wisconsin
Department of Natural Resources
107 Sutliff Ave.
Rhinelander, WI 54501-3349
(C. Stolte)

Ումուինիւերաինինինունարկինինիրարկունա

ENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ('N DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: Michael Y Dicinne Chelf N7498 CTH H 	A. Signature X B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? Yes If YES, enter delivery address below:
IRMa, 54442	3. Service Type Certified Mail® ☐ Priority Mail Express™ ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label)	2 1010 0001 7359 8128
PS Form 3811, July 2013 Domestic Re	turn Receipt

U.S. Postal Service TM CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) 8 띰 For delivery information visit our website at www.usps.com@ 中 5 Postage m Certified Fee 1000 Postmark Return Receipt Fee Here (Endorsement Required) Restricted Delivery Fee (Endorsement Required) 1010 Total Postage & Fees Michael Chelf Sent To 7012 Street, Apt. No.: or PO Box No. City, State, ZIP+4 TMMY WI

See Reverse for Instructions

PS Form 3800. August 2006

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail® or Priority Mail®.
- Certified Mail is not available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a Return Receipt may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS_® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement "Restricted Delivery".
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047

State of Wisconsin DEPARTMENT OF NATURAL RESOURCES Northern Region Headquarters 107 Sutliff Ave Rhinelander, WI 54501

Scott Walker, Governor Cathy Stepp, Secretary Telephone 715-365-8900 FAX 715-365-8932 TTY Access via relay - 711



CERTIFIED MAIL/RETURN RECEIPT REQUESTED

September 3, 2015

Michael & Dianne Chelf N7498 CTH H Irma, WI 54442

Re: Status update request for the Former Dry Cleaners, 114 N 4th Street, Tomahawk, WI WDNR BRRTS #02-35-560159

Dear Mr. and Mrs. Chelf:

The WI Department of Natural Resources (DNR) - Remediation and Redevelopment Program in the Northern Region is undergoing some changes to the distribution of workload among our staff. This letter is to introduce myself as the new project manager for the above mentioned case and to update the status of the case.

This letter is to request an update as to the progress being made toward the investigation and clean-up of known tetrachloroethene (PCE) from the former dry cleaning business located at 114 North 4th Street, Tomahawk, The Department has not heard from you since 2013.

Be advised; Section 292.11(3) Wisconsin Stats. (known as the hazardous substance spill law) requires a responsible party to investigate and take appropriate remedial action to restoring the environment. Wisconsin Administrative Code NR 700 through NR 749 further establishes guidelines and time frames for moving the sites toward closure and a lack of response to this letter may result in our recommendation for enforcement action.

Please contact me by October 3, 2015 with your plans to remedy this situation.

I can be reached at (715) 365-8942, email: Carrie.Stoltz@wisconsin.gov or you may send an update in writing to my attention at the address listed above. Thank you for your cooperation in this matter.

Sincerely,

Carrie Stoltz Hydrogeologist

Remediation & Redevelopment Program

Air, Waste, and Remediation & Redevelopment Division (AWaRe)

/cs



State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Antigo Service Center
223 E Steinfest Rd
Antigo WI 54409

Scott Walker, Governor Cathy Stepp, Secretary John Gozdzialski, Regional Director Telephone 715-365-8900 FAX 715-365-8932 TTY Access via relay - 711



April 16, 2014

Michael & Dianne Chelf N7498 CTH H Irma WI 54442

SUBJECT:

Transfer of Project Management

FMR DRY CLEANER, 114 N 4TH ST, TOMAHAWK, WI

WDNR BRRTS # BRRTS #02-35-560159

Greetings.

The WI Department of Natural Resources - Remediation and Redevelopment Program in the Northern Region is undergoing some changes to the distribution of workload among our staff.

This letter is to inform you that a new project manager has been assigned to the above mentioned case.

The new Project Manager for your case is:

Gena Larson WI DNR 101 S Webster St PO Box 7921 Madison, WI 53707-7921 (608) 261-5404 Gena.Larson@wisconsin.gov

Please inform your consultant of this change and direct all future submittals and/or inquiries regarding your case to your new project manager.

The Department appreciates your effort at cleaning up the environment at your site.

CC:

File



Sager, John E - DNR

From:

Christopher Rog <christopher.rog@sand-creek.com>

Sent:

Wednesday, November 06, 2013 10:16

To:

Sager, John E - DNR

Subject:

RE: Chefl Property, 4th St., Tomahawk

Attachments:

20130311 WDNR PRP Letter.PDF

John:

See attached, and this is the header. It is misspelled in my email. Should have been CHELF

March 11, 2013

Mr. and Mrs. Michael Chelf N7498 County Rd H Irma, WI 54442

Subject:

Former Dry Cleaner, 114 N. 4th Street, Tomahawk, WI

WDNR BRRTS #01-35-560159

Regards,

Christopher J. Rog, P.G. CPG, Sr. Project Manager, Principal

Sand Creek Consultants, Inc. I 108 E. Davenport St. I Rhinelander, WI 54501 main 715.365.1818 I direct 715.365.1828 I cell 715.360.1827 I fax 866.608.6473

www.sand-creek.com | christopher.rog@sand-creek.com

From: Sager, John E - DNR [mailto:John.Sager@wisconsin.gov]

Sent: Wednesday, November 06, 2013 10:12 AM

To: Christopher Rog

Subject: RE: Chefl Property, 4th St., Tomahawk

Do you happen to have the BRRTs # for this site handy? I am having trouble finding it.

From: Christopher Rog [mailto:christopher.rog@sand-creek.com]

Sent: Wednesday, November 06, 2013 09:54

To: Sager, John E - DNR

Subject: Chefl Property, 4th St., Tomahawk

lohn

We have not heard anything from the above RP for months now. If we don't hear before long, we will be closing the project out.

Recall he was issued an RP letter for DOT work on 4th street. There was talk of some borings, but that has faded. Last I heard he was going to do the borings himself somehow.

No response needed. I just don't like having Sand Creeks name on BRRTS when there is a possible NOV associated with the project.

Regards,

Christopher J. Rog, P.G. CPG, Sr. Project Manager, Principal
Sand Creek Consultants, Inc. | 108 E. Davenport St. | Rhinelander, WI 54501
main 715.365.1818 | direct 715.365.1828 | cell 715.360.1827 | fax 866.608.6473
www.sand-creek.com | christopher.rog@sand-creek.com

Sand Creek Consultants, Inc. I Environmental and Geological Scientists and Engineers Solutions in Green Site Remediation, Sustainability, and Phytoremediation since 1995

Sager, John E - DNR

From:

Christopher Rog <christopher.rog@sand-creek.com>

Sent:

Wednesday, June 12, 2013 3:28 PM

To:

Sager, John E - DNR

Subject:

RE: 114 N 4th St, Tomahawk, PRP=Mike Chelf

John – Are we on for tomorrow at 3? If not, some other time? Thanks!

Regards,

Christopher J. Rog, P.G. CPG, Sr. Project Manager, Principal Sand Creek Consultants, Inc. | 108 E. Davenport St. | Rhinelander, WI 54501 main 715.365.1818 | direct 715.365.1828 | cell 715.360.1827 | fax 866.608.6473 www.sand-creek.com | christopher.rog@sand-creek.com

From: Christopher Rog

Sent: Tuesday, June 11, 2013 9:08 AM

To: 'Sager, John E - DNR'

Cc: Hollie DePuydt

Subject: 114 N 4th St, Tomahawk, PRP=Mike Chelf

Hi John; (requested action items are in red)

As you may know, Mike Chelf owns the above ERP site, which was identified in the 2009 MSA corridor borings in Downtown Tomahawk with PCE in soils.

Mike has retained Sand Creek to take the next steps and respond to the PRP letter. We would like to discuss our proposed approach with you, which we tentatively suggest will be 4 to 6 Geoprobe borings, onsite and off, testing groundwater.

We would like to send you a map of what we have proposed and discuss it on a brief phone call. Can we schedule a call for this Thursday 6/13, at 3PM? If this is not a good time, let me know a better one and I'll get it arranged.

On the call would be Mike (owner), Hollie and I from Sand Creek, and you I would guess. I know Brenda signed some of the early letters and we don't know if she is still involved.

Please advise on the availability for the call time. Thanks.

Regards,

Christopher J. Rog, P.G. CPG, Sr. Project Manager, Principal
Sand Creek Consultants, Inc. | 108 E. Davenport St. | Rhinelander, WI 54501
main 715.365.1818 | direct 715.365.1828 | cell 715.360.1827 | fax 866.608.6473
www.sand-creek.com | christopher.rog@sand-creek.com

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
107 Sutliff Avenue
Rhinelander WI 54501-3349

Scott Walker, Governor Cathy Stepp, Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



file copy

April 25, 2013

Mr. and Mrs. Michael Chelf N7498 County Rd H Irma, WI 54442

Subject:

Reported Contamination at Former Dry Cleaner, 114 N. 4th St., Tomahawk, WI

WDNR BRRTS #02-35-560159

Dear Mr. and Mrs. Chelf:

Thank you for responding to my letter to you dated March 11, 2013. You confirmed that the property you own, located at 114 N. 4th Street in Tomahawk, was used as a dry cleaning facility in the past. You also sent me a Phase II Environmental Assessment report prepared by Drake Environmental (Drake) detailing activities conducted at the site in 1996. I am returning that original report to you with this letter. I have made a copy for the file.

The Wisconsin Department of Natural Resources (WDNR) has reviewed the Phase II report, and has determined that the sampling conducted in 1996 is insufficient to support the conclusion that your property is not the source of the tetrachloroethene (PCE) detected in a soil sample collected from boring B-12 installed in the right-of-way adjacent to your property. The assessment conducted by Drake in 1996 is described as a "limited Phase II Environmental Assessment." The report indicated that "a thorough evaluation of the ground surface was hindered by the presence of snow and ice. Normally, areas of stained soil or stressed vegetation are noted." In addition, no reasoning was presented as to why the two soil borings were installed in the particular locations shown on Figure 2. It is therefore impossible to determine if the borings were installed in areas likely to have been impacted from a release of PCE at the site.

Based on the information that has been submitted to the WDNR regarding this site, we believe you are responsible for investigating and restoring the environment at the above-described site under Section 292.11, Wisconsin Statutes, known as the hazardous substances spills law.

This letter describes the legal responsibilities of a person who is responsible under section 292.11, Wis. Stats., explains what you need to do to investigate and clean up the contamination, and provides you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the WDNR, Department of Safety and Professional Services (DSPS) or the Department of Agriculture, Trade and Consumer Protection (DATCP).

Legal Responsibilities:

Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, states:

RESPONSIBILITY. A person who possesses or controls a hazardous substance which
is discharged or who causes the discharge of a hazardous substance shall take the
actions necessary to restore the environment to the extent practicable and minimize the
harmful effects from the discharge to the air, lands, or waters of the state.



Wisconsin Administrative Code chapters NR 700 through NR 749 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:

The longer contamination is left in the environment, the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the <u>first</u> steps to take:

- 1. Within the next **30 days**, by May 25, 2013, you should submit <u>written</u> verification (such as a letter from the consultant) that you have hired an environmental consultant. If you do not take action within this time frame, the WDNR may initiate enforcement action against you.
- 2. Within the next **60 days,** by June 25, 2013, your consultant should submit a work plan and schedule for the investigation. The consultant must comply with the requirements in the NR 700 Wis. Adm. Code rule series and should adhere to current WDNR technical guidance documents.

In addition, within 30 days of completion of the site investigation, your consultant should submit a Site Investigation Report to the WDNR.

Sites where discharges to the environment have been reported are entered into the Bureau for Remediation and Redevelopment Tracking System ("BRRTS"), a version of which appears on the WDNR's internet site. You may view the information related to your site at any time (http://dnr.wi.gov/botw/SetUpBasicSearchForm.do) and use the feedback system to alert us to any errors in the data.

If you want a formal written response from the Department on a specific submittal, please be aware that a review fee is required in accordance with ch. NR 749, Wis. Adm. Code. If a fee is not submitted with your reports, you should proceed under the advice of your consultant to complete the site investigation and cleanup to maintain your compliance with the spills law and chapters NR 700 through NR 749. **Do not delay the investigation of your site by waiting for an agency response.** We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative rules and should be able to answer your questions on meeting cleanup requirements.

All correspondence regarding this site should be sent to:

Brenda S. Halminiak
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, WI 54501
Brenda.Halminiak@Wisconsin.gov

Unless otherwise requested, please send only one copy of plans and reports. In addition to the paper copy, an electronic copy may also be submitted. To speed processing, correspondence should reference the BRRTS and FID numbers (if assigned) shown at the top of this letter.

Site Investigation and Vapor Pathway Analysis

As you develop the site investigation work plan, we want to remind you to include an assessment of the vapor intrusion pathway. Chapter NR 716, Wisconsin Administrative Code outlines the requirements for investigation of contamination in the environment. Specifically, s. NR 716.11(3)(a) requires that the field investigation determine the "nature, degree and extent, both areal and vertical, of the hazardous substances or environmental pollution in all affected media". In addition, section NR 716.11(5) specifies that the field investigation include an evaluation of the "pathways for migration of the contamination, including drainage improvements, utility corridors, bedrock and permeable material or soil along which vapors, free product or contaminated water may flow".

You will need to include documentation with the Site Investigation Report that explains how the assessment was done. If the pathway is being ruled out, then the report needs to provide the appropriate justification for reaching this conclusion. If the pathway cannot be ruled out, then investigation and, if appropriate, remedial action must be taken to address the risk presented prior to submitting the site for closure. The WDNR has developed guidance to help responsible parties and their consultants comply with the requirements described above. The guidance includes a detailed explanation of how to assess the vapor intrusion pathway and provides criteria which identify when an investigation is necessary. The guidance is available at: http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf.

Additional Information for Site Owners

We encourage you to visit our website at http://dnr.wi.gov/topic/Brownfields/, where you can find information on selecting a consultant, financial assistance and understanding the cleanup process. You will also find information there about liability clarification letters, post-cleanup liability and more.

If you have questions, call the DNR Project Manager, Brenda Halminiak, at 715-365-8929 for more information or visit the RR web site at the address above.

Thank you for your cooperation.

Sincerely,

Brenda S. Halminiak, P.G.

Hydrogeologist

Remediation & Redevelopment Program

3/19/13

Dear Brenda,

We bought the property that is
question on 4/6/1996. We bought
The property from George Youtsos, his
address at that time was PO Box 506,
Lake Geneva, WI 53147.

When we bought the property there
was a 2BR apartment on the slab
you mentioned. There were no chemicals
stored there, The boilding burnt down
around 2002. There was a dry cleaning
facility in the past before someone,
else converted if to a rental unit.

If you need to know past owners
you might want to call harry Jacobson,
he was the compensations please
with, His number is (715)-453-3733.

If you have further questions please
call me at (715)-612-8034.

Sincerely, May

MIKE & DIANE CHELF CHELF'S MINK RANCH N7498 CO PD H IRMA, WI 54442 State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
107 Sutliff Avenue
Rhinelander WI 54501-3349

Scott Walker, Governor Cathy Stepp, Secretary Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711

filecopy



March 11, 2013

Mr. and Mrs. Michael Chelf N7498 County Rd H Irma, WI 54442

Subject:

Former Dry Cleaner, 114 N. 4th Street, Tomahawk, WI

WDNR BRRTS #01-35-560159

Dear Mr. and Mrs. Chelf:

Prior to the planned utility work and pavement project on 4th Street in Tomahawk, the City of Tomahawk hired MSA Professional Services to perform a subsurface investigation in the right-of-way of the project area. Two soil borings (B-11 and B-12) were installed adjacent to property you own located at 114 N. 4th Street (which is currently a vacant lot). Soil samples were analyzed for volatile organic compounds (VOCs). The sample collected from boring B-12 at 10 to 12 feet below ground surface exhibited a detection of tetrachloroethene (PCE) of 0.32 mg/kg. PCE is a chemical commonly used at dry cleaning facilities.

The attached Figure 3 prepared by MSA shows the locations of borings B-11 and B-12. Table 1, also attached, provides the soil sample analytical results, and Table 2 provides the groundwater results for the sample collected from B-11. The groundwater sample was only analyzed for petroleum volatile organic compounds (PVOCs), which does not include PCE.

Information provided in the Phase 2 report indicates that a dry cleaning business was operated on your property approximately 30 years ago. The existing concrete slab apparently outlines the footprint of the former building. As part of the on-going investigation of the PCE contamination, the Department is looking for potential sources of this contamination, of which your property at 114 N. 4th Street has been identified, due to its proximity to borings B-11 and B-12 and its historical use as a dry cleaning business.

The Department is investigating whether you and any past owners or occupants of your property may potentially be responsible for causing or contributing to the PCE contamination. The Department is sending this letter to request any information that you can provide regarding the use or storage of PCE by yourself or other past owners or occupants of your property.

The Department also requests that you provide us with a history of the owners, occupants and land uses of your property. Please provide any information that you may have as to any manufacturing that occurred on your property in the past and the years of its operation. Also include a description of any documented hazardous substance spills, groundwater or surface water contamination, and any environmental investigation or remediation efforts that have occurred on your property. Please provide any additional information that may aid in determining the source of contamination of the above-referenced site.

Within 45 days of receipt of this notice, please provide me with a <u>letter</u> containing the information requested above. This information is requested by the Department under the authority of s. 292.11(7) (a) and s. 292.11(8), Wis. Stats.



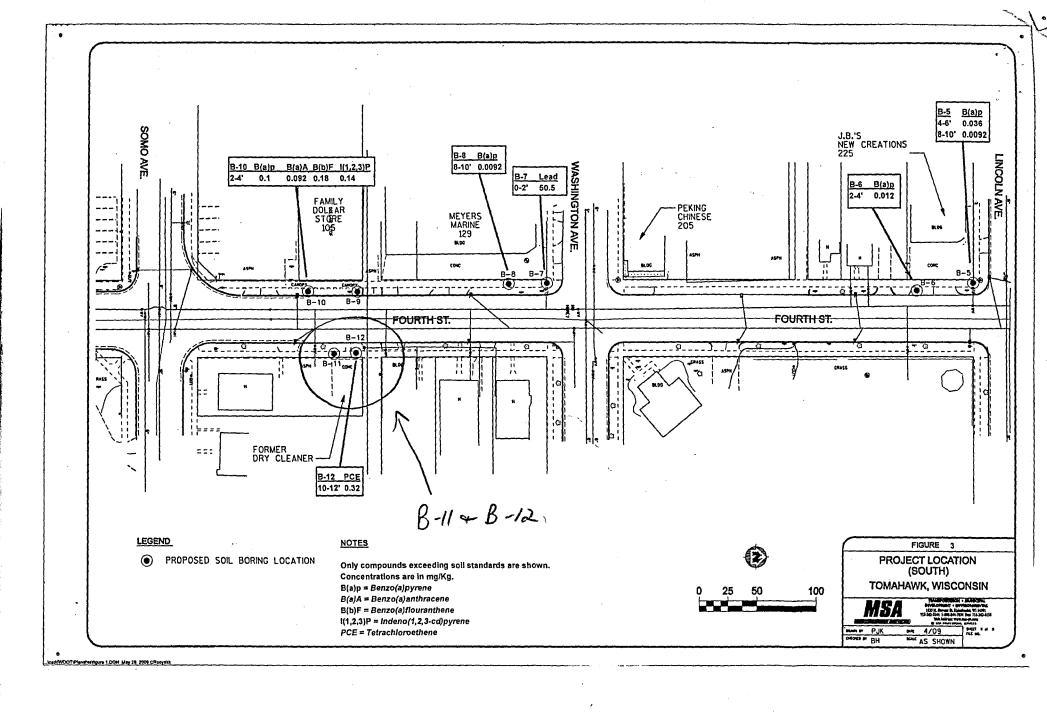


TABLE 1 Soil Sample Analytical Results 4th Street, Somo Avenue to River Street Tomahawk, WI

	Sample Depth (Feet)		ds (PVOCs), Benzene	Ethyl- benzene	Methyl- tert- butyl ether	Toluene	1,2,4- Tri- methyl- benzene	1,3,5- Tri- methyl- benzene	M&P Xylene	O Xylene	Naph- thalene	Tetra-chloro- ethene	DRO	GRO	Lead	PID Readings
R 746 Table		Date	8.5	4.6	outy i ether	38	83	11	42*	42*	2.7	cuicic	DAO	UKU	Licau	readings
NR 746 Table NR 746 Table		J.	1.10	4.0		20	8.5	11	42	42*	2.1					
IR 720 GRC		ı	0.0055	2.9	•	1.5			4.1*	4.1*	0.4		100	100	500/50	
110 010			0.0055													
B-1	4-6	4/30/2009	<0.025	< 0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	< 0.025	0.037		<1.0	<1.5	1.2	
B-1	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	<0.025	< 0.025	0.028		<1.0	<1.2	8.30	
B-2	4-6	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025		<1.0	<1.2	1.2	
B-2	8-10	4/30/2009	<0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		7.3	<1.2	2.6	
B-3	4-6	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025	<0.025		<1.0	<1.2	2.2	
B-3	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025		<1.1	<1.3	3.6	
B-4	0-2	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.053	0.035		24	<1.3	188	
B-4	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	<0.025	< 0.025		<1.0	<1.2	2.9	
B-5	4-6	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		<1.1	<1.3	5.4	
B-5	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025		<1.0	<1.3	13.8	
B-6	2-4	4/30/2009	<0.025	<0.025	<0.025	< 0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.025		<1.1	<1.3	2.5	
B-6	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	< 0.025		<1.0	<1.3	5.8	
B-7	0-2	4/30/2009	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	< 0.025		<1.1	<1.3	50.5	
B-7	8-10	4/30/2009	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025		<1.0	<1.2	1.7	
B-8	4-6	4/30/2009	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025		<1.0	<1.3	1.5	
B-8	8-10	4/30/2009	<0.025	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	<0.025	<0.025	< 0.025		<1.2	<1.4	2	
B-9	4-6	4/30/2009	< 0.025	< 0.025	< 0.025	<0.025	<0.025	<0.025	< 0.025	< 0.025	<0.025		<1.1			
B-9	8-10	4/30/2009	<0.025	< 0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.025	< 0.025	<0.025 、		<1.0		•	
B-10	2-4	4/30/2009	<0.025	<0.025	< 0.025	<0.025	<0.025	< 0.025	< 0.025	<0.025	<0.025 √		<1.1			
B-10	8-10	4/30/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	≤0.025	<0.025	<u> </u>	باللكب			
B-11	4-6	5/1/2009	<0.007	<0.007	<0.009	< 0.009	<0.006	<0.007	<0.015	<0.013	<0.025	<0.009	- 1			
B-11	8-10	5/1/2009	<0.007	<0.007	<0.009	<0.009	<0.006	<0.007	<0.015	<0.013	<0.025	<0.009	1			
B-12	8-10	5/1/2009	<0.007	<0.007	<0.009	<0.009	<0.006	<0.007	<0.015	<0.013	<0.025	<0.009	- 1			
B-12	10-12	5/1/2009	<0.0078	<0.0078	<0.01	<0.01	<0.0067	<0.0078	<0.017	<0.014	<0.028	0.32				
B-13	4-6	5/1/2009	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.035		<1.1	<1.3	95.4	
B-13	8-10	5/1/2009	<0.025	0.55	<0.034	<0.03	2.5	1.2	1.2	0.43	0.99		<1.2	96	94.3	
B-14	2-4	5/1/2009	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	0.03		<1.1	<1.3	11.3	
B-14	8-10	5/1/2009	< 0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.025	< 0.025		<1.0	<1.3	2.2	*

TABLE 2

Soll Sample Analytical Results

4th Street, Somo Avenue to River Street

Tomahawk, WI

Petroleum Volatile Organic Compounds (PVOCs)

Location	Date	Benzene	Ethyl- benzene	Methyl- tert- butyl ether	Toluene	1,2,4- Tri- methyl- benzene	1,3,5- Tri- methyl- benzene	M&P Xylene	O Xylene	Naph- thalene	Lead
NR 140 ES NR 140 PAL		5 0.50	700 140	60 · 12	1000 2 0 0	480* 96	480* 96	10000* 1000	10000* 1000	100 10	15 1.5
B-1	4/30/2009	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5	<1.0	<2.8	11.4
B-3	4/30/2009	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5	<1.0	<2.8	4.3
B-6	4/30/2009	<0.5	<0.5	< 0.5	< 0.5	<0.4	<0.5	<0.5	<1.0	<2.8	<1.5
B-8	4/30/2009	<0.5	< 0.5	<0.5	<0.5	<0.4	< 0.5	<0.5	<1.0	<2.8	18.4
B-9	4/30/2009	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5	<1.0	<2.8	31
B-II	5/1/2009	<0.5	<0.5	< 0.5	<0.5	<0.4	<0.5	<0.5	<1.0	<2.8	
B-13	5/1/2009	5.8	42	<2.5	16	160	51	130	46	29	
B-14	5/1/2009	<0.5	<0.5	<0.5	<0.5	<0.4	<0.5	<0.5	<1.0	<2.8	<1.5

Notes:

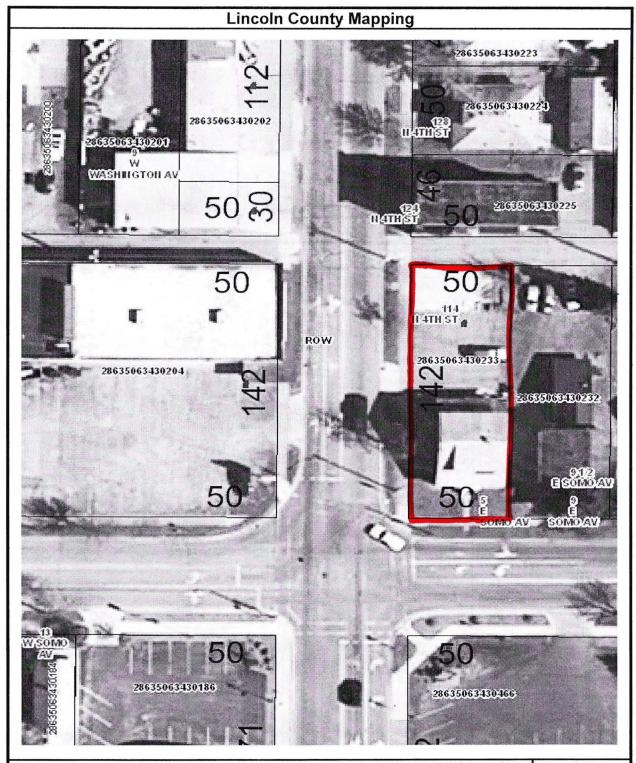
ES = NR 140 Enforcement Standard

PAL = NR 140 Preventive Action Limit

Concentrations are in ug/L.

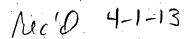
Bold numbers indicated concentrations exceeding the ES. *Italic* numbers indicated concentrations exceeding the PAL.

[&]quot; * " indicates groundwater standards are for total comound concentrations.



The information depicted on this map is a compilation of public record information including aerial photography and other base maps. No warranty is made, express or implied, as to the accuracy of the information used. The data layers are a representation of current data to the best of our knowledge and may contain errors. It is not a legally recorded map and cannot be substituted for field-verified information. Map may be reproduced with permission of the Lincoln County Land Information and Conservation Department. Errors should be reported to the Land Information and Conservation Department, 801 North Sales Street, Merrill, WI 54452. Phone (715) 539-1049. Copyright © 2012







April 3, 1996

Mr. D.C. Schulz Town & Country Realty P.O. Box 375 Tomahawk, WI 54487

RE: Phase II Environmental Assessment at the Former Tomahawk Cleaners Property in Tomahawk, Wisconsin — Drake Project No. B96011

Dear Mr. Schulz:

Drake Environmental, Inc. has completed a limited Phase II Environmental Assessment at the above-referenced property, located at 114 North 4th Street in Tomahawk, Wisconsin. The site is located in the NE ¼ of the SW ¼ of Section 34, Township 35 North, Range 6 East (reference 1). The attached Figure 1 illustrates the location of the site.

This letter presents the results of field testing and laboratory analysis completed for the project. Also provided are Drake's conclusions and recommendations based on the results.

Existing Site Conditions

A dry cleaning facility was formerly operated at the subject property. A two-story, approximately 925-square foot in plan view size building is located at the property. The building is currently utilized as an apartment complex. The area of the property to the south of the building consists of an asphalt paved parking lot. The existing site features are illustrated on the attached Figure 2.

The site is bordered on the north by an alleyway, on the west by North 4th Street, and on the south and east by residential properties.

P. O. Box 610 Minocqua, WI 54548 Phone: (715) 358-7018 Fax: (715) 358-7612

Scope of Work

Drake was retained to conduct a limited Phase II Environmental Assessment for the former Tomahawk Cleaners property to evaluate subsurface soils for the presence or absence of volatile organic compound (VOC) contamination associated with dry cleaning solvents formerly utilized at the site. The following list presents the services Drake provided.

- Conducted a visual reconnaissance of the property for indications of potential contamination.
- Drilled two soil borings with a hammer drill and flighted auger sampling system.
- Collected representative soil samples from the borings.
- Field screened the soil samples.
- Submitted one soil sample from each boring for laboratory analysis.

Investigation Procedures and Results

No visual indications of the presence of underground storage tanks (USTs) were observed. However, a thorough evaluation of the ground surface was hindered by the presence of snow and ice. Normally, areas of stained soils or stressed vegetation are noted.

On March 5, 1996, Drake drilled two soil borings (designated nos. B-1 and B-2) with a hand-operated electric, flighted-stem auger system. The boring locations are illustrated on the attached Figure 2. The borings were drilled on the east and south sides of the existing building at the property to depths of 10 feet. A description of the flighted auger system sampling procedure is attached.

Drake collected a total of twelve soil samples from the borings. Each sample was transferred to four separate containers: an 8-ounce glass jar and three 2-ounce glass jars. Drake filled the 8-ounce jars approximately halfway, and filled the 2-ounce jars completely. The 2-ounce jars were placed in a cooler filled with ice for possible submittal to an independent DNR-certified laboratory for analytical testing. Drake followed Chain of Custody procedures as outlined in the DNR's LUST guidance

(PUBL-SW-130 93) dated July 1993 throughout sample handling and laboratory submittal. A copy of the Chain of Custody record is attached.

Drake evaluated the 8-ounce samples to identify the general soil types and presence or absence of solvent odors and/or staining in the soils. The fill materials and natural soils encountered in the borings consisted of fine sand with a trace to some fine and coarse gravel. Chemical odors or staining were not noted in the samples collected from the two borings. Groundwater was encountered in the borings at 10 feet. Based upon the elevation of the subject site in relation to Lake Mohawksin, the depth to groundwater at the site is estimated to be within 10 to 15 feet of the ground surface. Lake Mohawksin is located approximately 2,500 feet northwest of the property.

Following completion of drilling and soil sampling, the boreholes were backfilled with bentonite and capped with sand and gravel. Copies of the boring logs and borehole abandonment forms are attached.

Drake personnel screened the 8-ounce samples with a photoionization detector (PID) to evaluate the presence of petroleum contamination. A description of the PID screening procedure is also attached. PID screening provides a qualitative measurement of volatile organic vapors which suggest the presence of VOCs with ionization potentials equal to or less than 10.6 electron volts (eV). VOCs include compounds commonly present in dry cleaning solvents. One soil sample collected at the groundwater table from each boring was submitted to a laboratory for analysis to confirm the presence or absence of contamination. Soil sample nos. B-1:S-6 and B-2:S-6 (collected at depths of 9.5 to 10 feet) were submitted to U. S. Oil Company, Inc., a certified analytical laboratory in Kimberly, Wisconsin for analysis. U.S. Oil analyzed the samples for VOCs following EPA Method 8021.

Table 1 presents the results of the PID field screening and analytical testing of the samples.

TABLE 1
PID Field Screening and Laboratory Analysis Results
Former Tomahawk Cleaners Property
Tomahawk, Wisconsin
Drake Project No. B96011

			PID Reading	
Sample No.	Sample Interval (ft.)	Time Collected	(instrument units)	VOCs (ppb)
B-1:S-1	1-1.5	0950	1.7	NA
B-1:S-2	3-3.5	1000	<1	, NA
B-1:S-3	5-5.5	1016	<1	NA
B-1:S-4	6.5-7	1200	<1	NA
B-1:S-5	8.5-9	1230	<1	NA
B-1:S-6*	9.5-10	1300	<1	ND**
				• • • • • • • • • • • • • • • • • • • •
B-2:S-1	1-1.5	1320	<1	NA
B-2:S-2	3-3.5	1345	<1	NA
B-2:S-3	5-5.5	1357	<1	NA
B-2:S-4	6.5-7	1442	<1	NA
B-2:S-5	8.5-9	1451	<1	NA
B-2:S-6*	9.5-10	1500	<1	ND**

ppb = parts per billion

To evaluate the significance of the PID screening, we compared the results to 10, a guideline limit frequently used by the DNR to identify the presence of contamination.

The PID was calibrated with isobutylene to benzene equivalents and the results are expressed in instrument units (iu). All field screened soil samples produced PID responses of less than 2 iu. These results suggest that contaminated soil did not exist in any of the borings.

The laboratory analysis results indicated no detectable concentrations of VOCs above the laboratory method detection limits. The U.S. Oil laboratory report is attached.

Conclusions and Recommendations

Based on the results of the PID field screening and laboratory results, soil contamination due to dry cleaning solvents does not exist at the locations and depths of the borings drilled during this limited Phase II Environmental Assessment. Due to the

NA = not analyzed

^{*}Sample submitted for laboratory analysis.

^{**}None detected above laboratory method detection limits. See attached laboratory reports for a list of the VOC parameters and their respective detection limits.

lack of indications of soil contamination at the groundwater table, groundwater contamination does not likely exist at the site. Therefore, it is Drake's opinion that no further investigation or remediation is warranted at the former Tomahawk Cleaners property at this time.

General Qualifications

Drake conducts their services with that degree of care and skill ordinarily exercised by members of the environmental consulting community practicing under similar conditions at the same time in the same or similar locality.

The field procedures Drake followed in completing this limited Phase II Environmental Assessment are in general accordance with applicable regulations of the Wisconsin DNR at the time the work was conducted.

The results and conclusions presented in this letter are based on the data obtained from the specific sampling locations at the time and under the conditions stated in this letter. Variations in soil conditions typically exist at most sites. If variations are noted in the future, Drake should be informed. It may be necessary to conduct additional explorations and observations to determine the characteristics of these variations, and provide a re-evaluation of the conclusions in this letter.

This study was also completed to identify potential environmental liabilities. Drake assumes no responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with the recommendations and/or suggestions contained in this letter in no way assures elimination of hazards or a fulfillment of a property owner's obligation under local, state, or federal laws. It is the responsibility of the property owner to notify authorities of any conditions that are in violation of the current legal standards.

The findings and conclusions contained in this letter are based on various factors as they existed at the time of this study. Changes or modifications to the site and/or facilities made after the site visit are not included.

Drake prepared this letter at the request of their client. Drake assumes responsibility for the accuracy of the contents of this letter subject to what is stated elsewhere in this

section, but recommends the letter be used only for the purpose intended by the client and Drake when the letter was prepared. Drake accepts no responsibility for application or interpretation of the results by anyone other than the client

We appreciate the opportunity to provide environmental consulting services.

If you have any questions regarding this letter, please feel free to call Todd Troskey at 1-800-358-7018.

Respectfully,

DRAKE ENVIRONMENTAL, INC.

Todd D. Troskey

Associate Project Manager

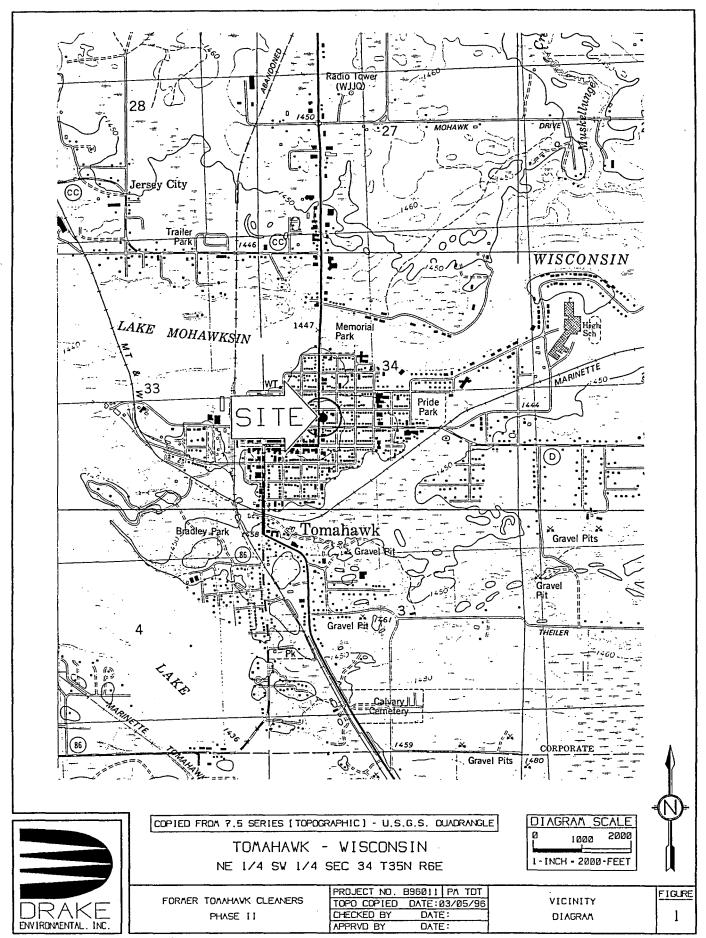
Jim P. Erickson

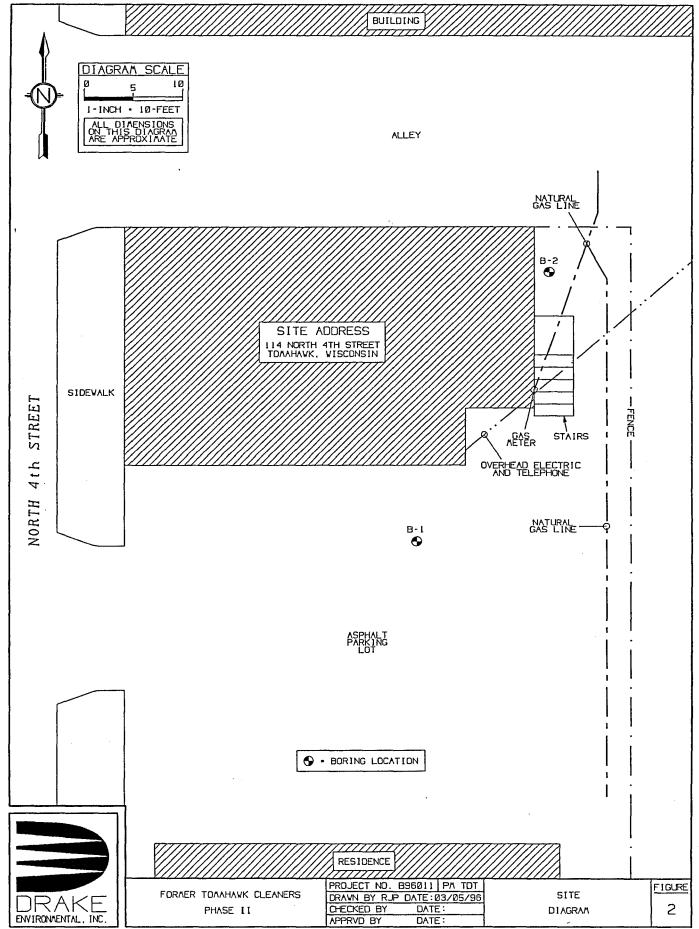
Branch Director

Attachments 10/B96002A

References

1) United States Geological Survey, Tomahawk, Wisconsin, 7.5 Minute Quadrangle Topographic Map, 1982.





SOIL SAMPLING AND SCREENING PROCEDURES

Hand-Operated Flighted-Stem Auger System Sampling Method

The hand-operated flighted-stem auger system uses a Bosch electromechanical rotary hammer, 3-foot sections of 2-inch outside diameter (OD) flighted augers, 4-foot sections of 1-inch OD sampling rods, one 6-inch long, 1.5-inch OD core sampler, and a 15-pound hammer attachment.

The flighted auger sections are advanced into the ground to the top of the desired sampling depth. The augers are then extracted from the boring. The required length of sampling rod and the core sampler are assembled and inserted into the boring. The hammer attachment is threaded onto the top of the sampling rod apparatus. The sampling rod apparatus is then driven into the ground approximately 6 inches (the length of the core sampler). The core sampler is then extracted from the boring. An aluminum retaining cylinder is withdrawn from inside the core sampler and the required samples can be collected. Following sample collection, the core sampler and retaining cylinder are decontaminated with an Alconox detergent/water wash and a double-rinse in potable water. All sampling rods and auger sections are decontaminated with an Alconox detergent/water wash and a double-rinse in potable water.

PID SCREENING PROCEDURE

To evaluate soils for the presence of volatile organic compounds (VOCs), soil samples are screened with an OVM Model 580B photoionization detector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated to isobutylene. The PID provides a qualitative measure of VOCs with ionization potentials less than 10.6 eV, which include those present in the more volatile petroleum fuels and solvents.

A representative portion of soil is placed in an 8-ounce glass jar and sealed with an air tight (inner lined) metal lid. The jar is filled about half full. The sealed jar is allowed to warm to approximately 70°F for a minimum period of 15 minutes, dependent on the ambient air temperature. The actual time period the samples are allowed to warm is in general accordance with the Wisconsin Department of Natural Resources (DNR) guidelines set forth in "LUST Field Screening Procedures," PUBL-SW-176, September 1992. Following agitation of the container for 60 seconds, the lid of the jar is slightly opened, the PID probe tip is inserted into the headspace (area in the jar above the soil), and the highest reading on the meter is recorded.

The DNR considers PID readings greater than 10 an indication of contamination by VOCs. However, lower readings do not necessarily indicate the absence of contamination, because nonvolatile contaminants may be present. PID readings are not as meaningful in such cases. In addition, the PID does not identify the types of chemicals present. All results should be evaluated by considering the contaminants present and the limitations of the PID meter.



PROJECT NAME FORMER TOMAHAWK CLEANERS PHASE II		FIELD TEC TDT	DRAWN BY	BORING NUMBER
CLIENT TOWN & COUNTRY REALTY		PROJECT B96	NUMBER 011	B-1
LOCATION 114 NORTH 4th STREET, TOMAHAWK, WISCONSIN	LOCATION DES		C 34 T35	N R6E

DEPTH	SAMPLE	TYPE	N	QP	DESCRIPTION	uscs	PID	GRAPHIC
o —					4-INCHES ASPHALT			
, =					FILL: FINE SAND WITH FINE TO COARSE GRAVEL - DARK BROWN (10YR 2/2) - MOIST	SP		
1 — 2 —	1				FILL: FINE SAND WITH FINE TO COARSE GRAVEL, TRACE PIECES OF BUILDING STYROFOAM - YELLOW BROWN (10YR 5/6) - MOIST	SP	1.7	
3 — 4 — 4 —	2				FILL: FINE SAND WITH FINE GRAVEL - BROWN YELLOW (10YR 6/6) - MOIST	SP	<1	
5 — 6 —	3						<1	
7 —	4				FINE SAND WITH FINE GRAVEL - LIGHT YELLOW BROWN (10YR 6/4) - MOIST TO 10 FEET, WET BELOW 10 FEET	SP	<1	
8 	5						<1	
10 —	6						<1	
11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 19 — 19 — 120 — 121					BORING TERMINATED AT 10 FEET			

NOTE: THE STRATIFICA	TION LINES ARE APPROXIMATE BOUND	IDARIES. ACTUAL TRANSITION MAY BE GRADUAL.				
DRILLING DATE: 3/5/96	DRILL RIG: BOSCH HAMMER	NOTES				
DRILLED BY: DRAKE ENVIR	ONMENTAL, INC.					
BORING DRILLED WITH 2 IN	. O.D. SOLID STEM AUGERS					
BOREHOLE ABANDONED WI	TH GRANULAR BENTONITE					
GROUND SURFACE AT N/A						
GROUNDWATER AT 10 FEET DURING DRILLING						



PROJECT NAME FORMER TOMAHAWK CLEANERS PHASE II		FIELD TEC TDT	DRAWN BY	BORING NUMBER
CLIENT TOWN & COUNTRY REALTY		PROJECT B96	NUMBER 011	B-2
LOCATION 114 NORTH 4th STREET, TOMAHAWK, WISCONSIN	LOCATION DES		С 34 Т35	N R6E

DEPTH	SAMPLE	TYPE	N	QP	DESCRIPTION	USCS	PID	GRAPHIC
0 =					FILL: ORGANIC SILT (TOPSOIL), TRACE FINE GRAVEL - BLACK (10YR 2/1) - MOIST	SP		
1 -=	1				FILL: FINE SAND WITH FINE GRAVEL, TRACE COARSE GRAVEL - YELLOW BROWN (10YR 5/6) - MOIST	SP	<1	
2 — = 3 —								
4 —	2				·		<1	
5 —	3						<1	
6 =					FINE SAND, TRACE FINE GRAVEL - YELLOW BROWN (10YR 5/6) - MOIST TO 10 FEET, WET BELOW 10 FEET	SP	\1	
7 -=	4				MOIST TO 10 FEET, WET BELOW 10 FEET	•	<1	
8 —	5				•		<1	
9 —	6						<1	
10 —		7			BORING TERMINATED AT 10 FEET		1	
11 -=							-	
12 —								
13 —					·			
14 —								
15 —								
16 —=							1	
17 —								
_								
18 ==								
19 —=								
20 -=							:	
21 —]				

NOTE: THE STRATIFICAT	TION LINES ARE APPROXIMATE BOUND	NDARIES. ACTUAL TRANSITION MAY BE GRADUAL.			
DRILLING DATE: 3/5/96	DRILL RIG: BOSCH HAMMER	NOTES			
DRILLED BY: DRAKE ENVIRO	NMENTAL, INC.				
BORING DRILLED WITH 2 IN	. O.D. SOLID STEM AUGERS				
BOREHOLE ABANDONED WIT	TH GRANULAR BENTONITE				
GROUND SURFACE AT N/A I	DURING DRILLING				
GROUNDWATER AT 10 FEET DURING DRILLING					

WELL/DRILLHO	LE/BOREHOLE	ABANDONMENT
Form 3300-5B		Rev. 7:39

All abandonment work shall be performed in accordance with Admin. Code, whichever is applicable. Also, see instructions	on back.		ors NR 111, N	IR 112 or NR 141, Wis.
(I) GENERAL INFORMATION	(2) FACILII			
Well/Drillhole/Borehole County Location LNCCLN		Well Owner	(If Known)	
NE 1/4 of SW 1/4 of Sec. 34; T. 35 N; R. 6	พ	Well Owner		
(If applicable) Gov't Lot Grid Number				
Grid Location	City, Sta	ate, Zip Cod	e	
^^^	W.	Wall Marcon	da Nama (IF A	- Walland Wall No.
Civil Town Name	1 .	WELL INO. AIR	yor Name (II A	pplicable) WI Unique Well No.
Street Address of Well	Reason	For Abandor	nment	
114 N. 4 DE STREET			Y BELLA	Y
City, Village	Date of	Abandonmer	nt	<u> </u>
TOMAHAUK	3/5/			
WELL/DRILLHOLE/BOREHOLE INFORMATION				
(3) Original Well/Drillhole/Borehole Construction Completed On	(4) Depth to	Water (Feet	0,01	
(Date) 3/5/96	Pump &	Piping Rem	oved?	es No Not Applicable
(500)	Liner(s)	Removed?		Yes No Not Applicable
Monitoring Well Construction Report Available?	1	lemoved?		les No No Not Applicable
☐ Water Well ☐ Yes ☐ No	_	eft in Place	[?] \Box 3	(es 🔲 No いみ
Drillhole	If No. E	xplain		
X Borehole			5. 6. 6	V
		-	Below Surface?	Yes No
Construction Type:	3	_	Rise to Surface After 24 Hours?	? Yes No
Driven (Sandpoint)		Was Hole R		☐ Yes ☐ No
Other (Specify)				
Formation Type:	1		Placing Sealing	
Unconsolidated Formation Bedrock		luctor Pipe-(Conductor Pipe-Pumped
4		p Bailer		Other (Explain)
Total Well Depth (ft.) 10,0 Casing Diameter (ins.)	(6) Sealing	Cement Gro	aut.	For monitoring wells and
(From groundsurface)	. —		oncrete) Grout	monitoring well boreholes only
Casing Depth (ft.)	Conc	•	-	Bentonite Pellets
Casing Deput (it.)	1 ==	-Sand Slurry		Granular Bentonite
Was Well Annular Space Grouted? Yes No Unkn		onite-Sand S		JAK CHAMMA DOMONIC
If Yes, To What Depth?	. —	ped Benton		i
		*		
(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
NATIVE SOIL	Surface	.2		
		10	2	
GRANULAR BENTONITE	-2	10	2 ars.	
(8) Comments:			<u> </u>	
(9) Name of Person or Firm Doing Sealing Work	(10)			UNTY USE ONLY
DRAKE EULIRONMENTAL	Date	Received/In	spected	District/County
Signature of Person Doing Work Date Signed				
1. Trospey 3/5/96	Kevi	ewer/Inspec	iof .	
Street or Route Telephoné Number P.O. Box 610 (15) 358 - 7018				
P.O. Box 610 (718) 3-8-7018 City, State, Zip Code	Follo	w-up Neces	sary	
. A				
MINUCCIUM WI S4548				

State-	f-Wiscon	sin
Department		

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5B Rev. 7-89

		WON CACTUR	73 / h /		B-2
I) GENERAL INFORMATION		(2) FACILI		AC IV	
Well/Drillhole/Borehole Location	County	Original	Well Owner	(II Known)	
NE 1/4 of Sw 1/4 of Sec.	34; r. 35 n; r. 6 🛚		Well Owner		
(If applicable) Gov't Lot	Grid Number	Street or	r Route		
Grid Location		City, St	ate, Zip Cod	e	
ft. N. S.	., ft E W.	racuity	Well No. and	Vor Name (lf A	ppiicanie) WI Unique Well No.
TOMA HAWK		B-2	,		
Street Address of Well 114 W. 474 STA	Acres -	1	For Abandon	ument Zy BuZi	uK
City, Village	· · · · · · · · · · · · · · · · · · ·	Date of	Abandonme		····
TOMAHAWK VELL/DRILLHOLE/BOREHOL	E INCODMATION] -3,	15/96	·	•
Original Well/Drilfhole/Borehol		(4) Depth to	Water (Feet	0 10.0	
(Date) $3/5/96$			Piping Rem	_	es 🗌 No 🔯 Not Applicabl
Marianian Wall	Construction Report Available?	(Removed? Removed?		es No karplicables Not Applicables No karplicables
☐ Monitoring Well ☐ Water Well	Yes No	ŀ	Left in Place	: 남 t	≈ No No Applicable
Drillhole	110	If No, E			
Borehole	1	Was Car	in a Con Off	D. J C	
Consequation Types		1	-	Below Surface? Rise to Surface	Yes No Yes No
Construction Type: Drilled Drive	en (Sandpoint) 🔲 Dug			After 24 Hours?	Yes No NA
Other (Specify)	Saldponk)		. Was Hole R		Yes No
Formation Type:	•			Placing Seating	Maierial
Unconsolidated Formation	☐ Bedrock		ductor Pipe(p Bailer		onductor Pipe-Pumped Other (Explain)
Total Well Depth (ft.) 10	Casing Diameter (ins.)	(6) Sealing	Materials		For monitoring wells and
(From groundsurface)			Cement Gro		monitoring well boreholes of
G : D (5)				oncrete) Grout	
Casing Depth (ft.)		. —	crete -Sand Slurry		Bentonite Pellets Granular Bentonite
Was Well Annular Space Groute	d? Yes No Unknown		conite-Sand S		Granuta Demoinis
If Yes, To What Depth?	Feet	. =	oped Benton		·
Sealing Ma	terial Used	From (FL)	To (FL)	No. Yaros, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	NATIVE SOIL	Surface	4.3		
GR4,	NATIVE SOIL NULAR BENTONITE	.3	10.0		
			·		·
	·				
B) Comments:					
Name of Person or Firm Doing S	Sealing Work	(10)	FOR	DNR ORGO	UNTY USE ONLY
DRAKE ENVIRON	MENTAL		Received/In		District/County
Signature of Person Doing World	Date Signed				
Street or Route	3/5/96 Telephone Number	Revi	ewer/Inspect	OT	
P.O. Box Gro		000000 000000			
	1820 358-7018 10 6419 1 - 5715749	1 \$100000.000	w-up Necess		

CHAIN C. CUSTODY RECORD

5012668

Lab I.D.#



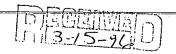
Arralytical Lab

425 S. Washington St., P.O. Box 25
Combined Locks, WI 54113 (414) 735-8295

Chain #	Nº	2958
---------	----	------

Account No. :		Quote No	o.: هناه	CTE		Comb	iiiea L	.UCKS, VVI	54113 (414) 73:	o-029	J			I	ag	e	<i>!</i> 01	f			
Project #: B90	0011			•	Sample Integr	•		` •	eiving lab. Temp. of Te	-m- '	210-	ılı		۰۰ ۵			_/				
Sampler: (signature)		rospe	مردد		Sample Cond	ition/good	g crac	kad/hraka	n bottle, improper	•				_			K Hac	4			
Project (Name / L	ocation):	MER T	TOMAH	16WK/114	N. 4TH	STR	EET											ested			
Reports To: (5)	O TROSKE	ا ب	nvoice T	0: D.C.	SCHULZ				e Handling						Ī		<u> </u>	Other	Anal	ysis	
Company DRA EUV Address P. C.	KE IRANIMENT	44.	Company	TOWN	it count	72-4			equest												
Address P.C.	ිපිං	1	Address	P.O. 30	× 375		_	Rush /													
City State Zip	10000UA 5454	e (City State	e Zip TOMA	HAUK CC 54467	五	6		Required	PH)	E	8020	8020 3021)	413.	3310						
Phone (7/5) 3	58-7018	F	hone (715) 45	3 - 3733	3		Norma	al Turn Around	VpoV	/pol/	(EPA	PA	PA	PA	Point					
Lab I.D.	Sample I.D.	Colle Date	ection Time	į.	Containers and Type	ì	escrip	otion Other (specify)	Preservation	DRO (A	GRO (1	PVOC PTEV /	VOC (EPA 8021)	O&G (E	PAH (E	Pb Flash P				PI FI	
5012668 A	B-1; S-6	3/5	13co	3- ನಿಂಜ	glass		X						X								
1 B	B-2; S-6	3/5	1500	3-908	Glass		X						X								
																	Ш				ļ
										_ _											ļ
																	\coprod	11			
		 				-							_		\perp		igspace	11	<u> </u>	ļ	
		-				_			<u> </u>	_		_						++	-	-	
	<u> </u>	 			· · · · · · · · · · · · · · · · · · ·	_				-		_	-			<u> </u>	$\vdash \vdash$	++	-		_
		<u></u>					<u> </u>			_l_	Ļ		Ţ	Щ			Ш		Ļ		!
•	partment Use O	-	NI.	Commer	nts/ Special In:	structions	s Vác	c Presi	ened in Lat	oorc	c+c	ادم) · †	くく	^ :	S.	~©α	ライナい	ed (000 566	
Split Samples: C	mered ? Y cepted? Y			1					•)	∞0 54	
Accepted By:	• -	C3																		3-7-	1
	se Optional for	r Soil Sa	mples	Relinqui	shed By: (sign)		Time	Date Rece	eiyed	Ву	: (sig	gn)					Time	 e	Date	
Disposition of unu	used portion of s	sample		-/00		Lu			3/6 1.	H.		•	<u> </u>	_				12:		- 1	1
Lab Should:				,		8			5	et	\mathcal{D}°	2/1	ua	in	<u></u>			9:20	<u> 2</u>	3-7.	76
Dispose		ain for	_ days		***		<u>. </u>			·		<u> </u>									ς_
Return	Othe	ਤ। ———		Receive	d in Laborator	y By: ౖ≤	≥ia:	a D.	quain		Dat	e:	3.	7-	76	····-		Time:	97	20	
								-	<i>[]</i>												





1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

Method 8021 Volatile Organic Compounds (Methanol Preserved in Laboratory)

Todd Trosky Drake Environmental 8554 Hwy. 51 North Minocqua, WI 54548-0610

Report Date:

12-Mar-96 C. Rotar

Analyzed By:

ANALYTE	RESULT			CONFIRMED
	UG/KG	UG/KG	UG/KG	METHOD
Benzene	< 25	5	14	
Bromobenzene	< 25	4	11	
Bromodichloromethane	< 25	2	7	
n-Butylbenzene	< 25	5	17	
sec-Butylbenzene	< 25	5	15	
tert-Butylbenzene	< 25	6	19	
Carbon Tetrachloride	< 25	6	20	
Chlorobenzene	< 25	3	9	
Chloroethane	< 25	6	19	
Chloroform	< 25	3	10	
Chloromethane	< 25	8	24	
2-Chlorotoluene	< 25	4	13	
4-Chlorotoluene	< 25	4	12	
1,2-Dibromo-3-Chloropropane	< 25	9	30	
Dibromochloromethane	< 25	5	15	
1,2-Dichlorobenzene	< 25	5	15	'
1,3-Dichlorobenzene	< 25	4	11	ĺ
1,4-Dichlorobenzene	< 25	4	11	
Dichlorodifluoromethane	< 25	3	10	
1,1-Dichloroethane	< 25	3	10	
1,2-Dichloroethane	< 25	3	11	
1,1-Dichloroethene	< 25	5	15	
cis-1,2-Dichloroethene	< 25	2	6	
trans-1,2-Dichloroethene	< 25	4	13	
1,2-Dichloropropane	< 25	3	9	1
1,3-Dichloropropane	< 25	7.9	25	

Fluorobenzene Surrogate	107	% Rec.
1,4-Dichlorobutane Surrogate	105	% Rec.
Total % Solids	96.4	%

Project #: Project:

B96011

Former Tomahawk Cleaners

Sample ID: Lab Code:

B-1; S-6 5012668A

Sample Type:

Soil 05-Mar-96

Sample Date: Date Analyzed:

07-Mar-96

ANALYTE	RESULT	MDL	PQL	CONFIRMED
	UG/KG	UG/KG	UG/KG	METHOD
2,2-DCP, cis-1,2-Dichloroethene	< 25	7	22	
Di-Isopropyl Ether	< 25	6	18	
Ethylbenzene	< 25	4	14	
EDB (1,2-Dibromoethane)	< 25	8	24	
Hexachlorobutadiene	< 25	3	. 11	
Isopropylbenzene	< 25	5	14	
p-Isopropyltoluene	< 25	5	15	
Methylene Chloride	< 100	5	17	
MTBE	< 25	5	15	;
Naphthalene	< 25	13	41	
n-Propylbenzene	< 25	7	22	
1,1,2,2-Tetrachloroethane	< 25	14	43	
Tetrachloroethene	< 25	3	9	
Toluene	< 25	11	35	1
1,2,3-Trichlorobenzene	< 25	8	24	
1,2,4-Trichlorobenzene	< 25	6	20	
1,1,1-Trichloroethane	< 25	8	26	
1,1,2-Trichloroethane	< 25	8	24	
Trichloroethene	< 25	2	7	
Trichlorofluoromethane	< 25	22	71	
1,2,4-Trimethylbenzene	< 25	5	14	
1,3,5-Trimethylbenzene	< 25	4	14	
Vinyl Chloride	< 25	5	16	
m & p-Xylene	< 50	9	28]
o-Xylene	< 25	4	11	

ND = Compound Not Detected MDL = Method Detection Limit PQL = Practical Quantitation Limit C = Confirmed NC = Not Confirmed NA = Not Applicable

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

QC Summary

Method 8021 Volatile Organic Compounds

Project #: Sample ID: B96011

B-1; S-6 Lab Code:

Report Date: 11-N

11-Mar-96 5012668A

Benzene Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroform	CALIBRATION P P P P P P P P P P P P P P P P P P	STANDARD P P P P P P P P P P P P P P P P P P P	SPIKE P P P P	SPIKE P P P P	P P P	SURROGATE P P P P	SURROGATE P P P
Bromobenzene Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P P P	P P P P	P P P P	P P P	P P P	P P P	P P
Bromodichloromethane n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P P P	P P P	P P	P P	P P	Р	
n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P P	P P P	P P	P	P		P
sec-Butylbenzene tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P P	P P P	Р				
tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P	P P		p			P
tert-Butylbenzene Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P P	P	Р		Р	P	P
Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform	P P			P	Р	P	P
Chloroethane Chloroform	P	Р	P	P	P	l P	P
Chloroform	1 .		P	P	P	P	P
	P	P	Р	P	Р	l p	P
		P	P	Р	P	P	P
Chloromethane	P	F	P	P	P	l P	P
2-Chlorotoluene	P	Р	Р	P	P	P	P
4-Chlorotoluene	P	P	Р	P	P	P	P
1,2-Dibromo-3-Chloropropane	P	F	P	P	P	Р	P
Dibromochloromethane	P	F	P	P	P	P	ı, p
1,2-Dichlorobenzene	P	P	P	P	P	l P	P
1,3-Dichlorobenzene	Р	Р	P	P	P	l P	P
1.4-Dichlorobenzene	P	P	l P	P	P	P	P
Dichlorodifluoromethane	l P	F	P	P	P	þ	P
1.1-Dichloroethane	P	P	P	P	P	P	P
1,2-Dichloroethane	P	P	P	P	P	P	P
1,1-Dichloroethene	P	l P	l P	P	P	P	P
cis-1,2-Dichloroethene	P	P	P	P	l è	P	P
trans-1,2-Dichloroethene	P	P	l P	P	P	P	P
1,2-Dichloropropane	P	P	P P	P	P	i P	P
1,3-Dichloropropane	P	P	P	P	P	P	P
2,2-Dichloropropane, cis-1,2-Dichloroethene	P	P	l p	P	l è	l 'e	P
Di-Isopropyl Ether	P	P	P	P	P	l p	;
Ethylbenzene	P	P	P	P P	P	l p	P
EDB (1,2-Dibromoethane)	P		l e	P	P	P	P
Hexachlorobutadiene	P	P	P	P	l è		P
Isopropylbenzene	P	P	l P	P P	P	P	P
p-Isopropyltoluene	P	۾ ا	P	P	P	P	P
Methylene Chloride	P	P	l è	P	P	P	P
MTBE	p	P	P	P	P	'p	P
Naphthalene	P	P	P	P	<u>'</u> P	P	l 'P
n-Propylbenzene	P	P	l è	P	P	P	P
1.1.2.2-Tetrachloroethane	P	F	ΙP	P	P	P	l 'p
Tetrachloroethene	P	P	l P	P	P	P	P
Toluene	P	P	l P	P	P		P
1,2,3-Trichlorobenzene	P	F	ŀĖ	p	P	ءُ ا	, F
1,2,4-Trichlorobenzene	P	P	i è	P	P	i p	P
1,1,1-Trichloroethane	P	P	P	P	P	i 'P	P
1,1,2-Trichloroethane	P	P	l P	P P	P	l 'P	P
Trichloroethene	P	P	l P	P	P	, P	P
Trichlorofluoromethane	P	Ė	l è	P	P	þ	P
1,2,4-Trimethylbenzene	P	P	l P	P	P	l 'p	P
1,3,5-Trimethylbenzene	P	P	P	P	P	P	6
Vinyl Chloride	P	F	l 'p	P	P	, , ,	
m & p-Xylene	P	P	F	P	P	P	P
o-Xylene	P	, ,	P	P	P	P	P

NA = Not Applicable

P = Passed QC Limits. F = Failed QC Limits.

VOC analysis detected unidentified peaks.

VOC data generated from an unmodified sample.



1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

Method 8021 Volatile Organic Compounds (Methanol Preserved in Laboratory)

Todd Trosky **Drake Environmental** 8554 Hwy. 51 North Minocqua, WI 54548-0610

Report Date:

12-Mar-96 C. Rotar

Analyzed By:

ANALYTE	RESULT			CONFIRMED
	UG/KG	UG/KG	UG/KG	METHOD
Benzene	< 25	5	14	
Bromobenzene	< 25	4	11	
Bromodichloromethane	< 25	2	7	1
n-Butylbenzene	< 25	5	17	
sec-Butylbenzene	< 25	5	15	
tert-Butylbenzene	< 25	6	19	
Carbon Tetrachloride	< 25	6	20	
Chlorobenzene	< 25	3	9	
Chloroethane	< 25	6	19	
Chloroform	< 25	3	10	
Chloromethane	< 25	8	24	
2-Chlorotoluene	< 25	4	13	
4-Chlorotoluene	< 25	4	12	
1,2-Dibromo-3-Chloropropane	< 25	9	30	
Dibromochloromethane	< 25	5	15	
1,2-Dichlorobenzene	< 25	5	15	
1,3-Dichlorobenzene	< 25	4	11	
1,4-Dichlorobenzene	< 25	4	11	
Dichlorodifluoromethane	< 25	3	10	
1,1-Dichloroethane	< 25	3	10	
1,2-Dichloroethane	< 25	3	11	
1,1-Dichloroethene	< 25	5	15	
cis-1,2-Dichloroethene	< 25	2	6	
trans-1,2-Dichloroethene	< 25	4	13	
1,2-Dichloropropane	< 25	3	9	
1,3-Dichloropropane	< 25	7.9	25	

Fluorobenzene Surrogate	105	% Rec.
1,4-Dichlorobutane Surrogate	106	% Rec.
Total % Solids	95.4	%

Project #: Project:

B96011

Former Tomahawk Cleaners

Sample ID: Lab Code:

B-2; S-6 5012668B

Sample Type: Sample Date: Soil 05-Mar-96

Date Analyzed:

08-Mar-96

ANALYTE	RESULT	MDL	PQL	CONFIRMED
	UG/KG	UG/KG	UG/KG	METHOD
2,2-DCP, cis-1,2-Dichloroethene	< 25	7	22	
Di-Isopropyl Ether	< 25	6	18	
Ethylbenzene	< 25	4	14	
EDB (1,2-Dibromoethane)	< 25	8	24	
Hexachlorobutadiene	< 25	3	11	
Isopropylbenzene	< 25	5	14	
p-lsopropyltoluene	< 25	5	15	
Methylene Chloride	< 100	5	17	
МТВЕ	< 25	5	15	
Naphthalene	< 25	13	41	
n-Propylbenzene	< 25	7	22	
1,1,2,2-Tetrachioroethane	< 25	14	43	
Tetrachloroethene	< 25	3	9	
Toluene	< 25	11	35	
1,2,3-Trichlorobenzene	< 25	8	24	
1,2,4-Trichlorobenzene	< 25	6	20	
1,1,1-Trichloroethane	< 25	8	26	
1,1,2-Trichloroethane	< 25	8	24	
Trichloroethene	< 25	2	7	
Trichlorofluoromethane	< 25	22	71	
1,2,4-Trimethylbenzene	< 25	5	14	
1,3,5-Trimethylbenzene	< 25	4	14	
Vinyl Chloride	< 25	5	16	
m & p-Xylene	< 50	9	28	
o-Xylene	< 25	4	11	

ND = Compound Not Detected MDL = Method Detection Limit PQL = Practical Quantitation Limit C = Confirmed NC = Not Confirmed NA = Not Applicable

1090 Kennedy Ave. Kimberly, WI 54136 414-735-8295

WI DNR Certified Lab #445027660

QC Summary

Method 8021 Volatile Organic Compounds

Project #: Sample ID: B96011

Report Date:

11-Mar-96 5012668B

mple ID: B-2; S-6 Lab Code:

ANALYTE	INITIAL	KNOWN	MATRIX	REPLICATE	BLANK	PID	HALL
	CALIBRATION	STANDARD	SPIKE	SPIKE		SURROGATE	SURROGATE
Benzene	Р	P	Р	Р	P	P	P
Bromobenzene	P	P	P	P	P	P	' _P
Bromodichloromethane	P	P	l P	P	P	P .	P
n-Butylbenzene	Р	P	P	P	P	P	اعا
sec-Butylbenzene	P	P	P	P	P	P) P
tert-Butylbenzene	P	P	P	P	P	è	P
Carbon Tetrachloride	P	P	P	P	P	P	l P
Chlorobenzene	, P	P	l p	P	P	, P	l P
Chloroethane	P	P	l P	þ	P	P	P
Chloroform	'P	P	P	P	P	P	-
Chloromethane	'p	<u>;</u>	P	P	l e	P	F
2-Chlorotoluene	P	ءَ ا	·	P		P	P
4-Chlorotoluene	P	F .	P	P	P	P	P
	P	F	P	P	P	P	
1,2-Dibromo-3-Chloropropane Dibromochloromethane	P		P	P	P	P	P
1		P	P				P
1,2-Dichlorobenzene				P	, ,	P	P
1,3-Dichlorobenzene	P	P	P	P	P	P	P
1,4-Dichlorobenzene	P	P	P	P	Р	Р	P
Dichlorodifluoromethane	Р	F	P	P	P	Р	P
1,1-Dichloroethane	Р	Р	P	P	P	Р	P
1,2-Dichloroethane	Р	P	P	Р	P	Р	P
1,1-Dichloroethene	P	Р	P	P	P	Р	P
cls-1,2-Dichloroethene	Ρ.	Р	P	P	P	Р	P
trans-1,2-Dichloroethene	P	P	P	P	P	P	P
1,2-Dichloropropane	P	P	P	P	P	P	P
1,3-Dichloropropane	P	P	P	P	P	P	P
2,2-Dichloropropane, cis-1,2-Dichloroethene	P	P	P	Р	P	P	P
Di-Isopropyl Ether	P	P	P	Р	P	P	P
Ethylbenzene	l P	P	P	P	P	P	P
EDB (1,2-Dibromoethane)) P	F	P	P	P	P	P
Hexachlorobutadiene	P	P	P	P	P	P	P
Isopropylbenzene	P	Р	P	Р	P	P	P
p-Isopropyltoluene	P	P	P	P	P	Р	P
Methylene Chloride	P	P	P	Р	P	Р	p
MTBE	P	P	P	Р	P	P	P
Naphthalene	P	P	P	P	P	P	P
n-Propylbenzene	P	P	P	P	P	P	P
1,1,2,2-Tetrachloroethane	P	F	P	Р	P	P	P
Tetrachloroethene	l p	ĺР	P	P	P	P	P
Toluene	P	P	P	P	P	P	P
1,2,3-Trichlorobenzene	Р	F	F	P	P	P	P
1,2,4-Trichlorobenzene	P	i P	P	P	P	P	P
1,1,1-Trichloroethane	P	<u> </u>	P	P	P	P	P
1.1.2-Trichloroethane	P	i è	P	P	P	P	F
Trichloroethene	P	'p	P	P	P	P	P
Trichlorofluoromethane	P	<u>;</u>	P	P	P	P	P
1,2,4-Trimethylbenzene	P	P	P	P	P	P	
1,3,5-Trimethylbenzene	P	P	P	P	P	P	
	P	F	P				P
Vinyl Chloride				P	P	P	P
m & p-Xylene	P	P	P	Р.	P	P	P
o-Xylene	Р Р	Р	P	Р	Р	Р	P

NA = Not Applicable

P = Passed QC Limits. F = Failed QC Limits.

VOC analysis detected unidentified peaks.

VOC data generated from an unmodified sample.