## Saari, Christopher A - DNR

From:

Gozdzialski, John F

Sent:

Thursday, July 27, 2006 7:39 AM

To:

Saari, Christopher A. Robinson, John H.

Cc: Subject:

RE: Meeting With C.M. Christiansen Company

Thanks Chris...appreciate the summary....sounds like the meeting went very well! Will be sharing this with the Secretary as an FYI. Take care....

From:

Saari, Christopher A.

Sent:

Tuesday, July 25, 2006 8:25 AM

To: Cc: Gozdzialski, John F

Robinson, John H.

Subject:

Meeting With C.M. Christiansen Company

Hi John:

As you requested on Thursday, here's a brief summary of our Friday meeting with the company:

Department staff (John Robinson, Chris Saari and Tom Janisch, Remediation & Redevelopment Program, and Jim Killian, Watershed Management Program) met with Eric Christiansen of the C.M. Christiansen Co., Inc., and Christiansen's environmental consultants on July 21 in Rhinelander. The meeting focused on re-starting the sediment investigation on Military Creek, adjacent to the former C.M. Christiansen Co. Pole Yard site in Phelos, Vilas County. The company treated wooden power poles at the site with a solution of fuel oil and pentachlorophenol (PCP) until 1981. The stretch of the creek adjacent to the site is a Class I trout stream, and this stream flows into North Twin Lake, which is classified as an Outstanding Resource Water. Previous investigations by DNR have encountered dioxin and furan concentrations in the creek sediments that are higher than at any other site in the state. The dioxins and furans are a manufacturing byproduct of the PCP treatment chemical.

The meeting resulted in agreement on a conceptual framework for an investigation work plan for the creek. The work plan should help bring the company back into compliance with a Spill Response Agreement signed by the company and the Department in April 1998.

Please let me know if you have any questions about the meeting or the site.

Chris Saari Hydrogeologist, Remediation & Redevelopment Program Wisconsin Department of Natural Resources Telephone: 715-685-2920

E-mail: Christopher.Saari@Wisconsin.gov

## Saari, Christopher A.

From:

Charles Warzecha [warzecj@dhfs.state.wi.us]

Sent:

Wednesday, July 26, 2006 2:09 PM

To:

Saari, Christopher A.

Cc:

Nehls-Lowe, Henry; Robinson, John H.

Subject:

Re: CM Christiansen

Sure Chris,

I am currently available the 4th thru the 14th of September but then I'm tied up on the 15th thru the 22nd. Otherwise, pretty much all of October is still unspoken for. Glad to hear things are again moving on this project. I'll talk to you when I receive a workplan so I'm sure to turn it around in the timeframe you need.

I hope you are doing well these days. Did you get much rain over the past week? Probably not enough to put a dent in water levels. Chuck

Chuck Warzecha Health Hazard Evaluation Wisconsin Department of Health and Family Services (608) 267-3732

Check out our website at: www.dhfs.state.wi.us/eh \* \* \* \* \* \* \* \*

NOTICE: This E-mail and any attachments may contain confidential information. Use and further disclosure of the information by the recipient must be consistent with applicable laws, regulations and agreements. If you received this E-mail in error, please notify the sender; delete the E-mail; and do not use, disclose or store the information it contains.

>>> "Saari, Christopher A." <Christopher.Saari@dnr.state.wi.us>
07/26/06 1:56 PM >>>
Hi Chuck:

I didn't get a chance to talk to you too much in Wisconsin Rapids earlier this month, hope your summer is going well. I think I did mention that we were meeting with Eric Christiansen of CM Christiansen Co. and his consultants (NRT) on July 21st. Well, we did meet with them and hopefully got the project back on track, or at least pointed at the track.

NRT indicated that they intend to do a site-specific risk assessment for the dioxins/furans in the sediment. During the next couple months, NRT is going to prepare a work plan for additional investigation. They hope to get input and agreement with minimal back-and-forth discussion, so I was wondering if you would have time to review the draft work plan when it becomes available. We tentatively set a date of around September 15th for a conference call between Christiansen, NRT, DNR and you, if you're available, to discuss the draft, which would be sent out prior to the call. The intent would then be to have the work plan finalized around October 15th.

Let me know if you'll have time to work on this, or if you have any questions. Thanks

Chris Saari

Hydrogeologist, Remediation & Redevelopment Program Wisconsin Department of Natural Resources

Telephone: 715-685-2920

E-mail: Christopher.Saari@Wisconsin.gov



CERCLIS Database Site Documents Data Element Dictionary (DED) Order Superfund

**Products** 

# U.S. Environmental Protection Agency

# **Superfund Information Systems**

Recent Additions | Contact Us | Print Version

Search:

<u>EPA Home</u> > <u>Superfund</u> > <u>Sites</u> > <u>Superfund Information Systems</u> > <u>Search CERCLIS</u> > <u>Search Results</u> > C.M. CHRISTIANSEN-POLE YARD

## **CERCLIS Database**

## C.M. CHRISTIANSEN-POLE YARD

#### Site Information

Site Info | Aliases | Operable Units | Contacts
Actions | Contaminants | Site-Specific Documents

Site Name: C.M. CHRISTIANSEN-POLE YARD

Street: COUNTY E (LAKE ST.)

City / State / ZIP: PHELPS, WI 54554

NPL Status: Not on the NPL

Non-NPL Status: Other Cleanup Activity: State-Lead Cleanup

ERS Exclusion: An Eligible Response Site (ERS) Exclusion decision has been

made at this site.

**EPA ID**: WID988639035

EPA Region: 05 County: VILAS

Federal Facility Flag: Not a Federal Facility

#### **Return to Search Results**

**Return to Search CERCLIS** 

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

OSWER Home | Superfund Home

EPA Home | Privacy and Security Notice | Contact Us

URL: http://cfpub.epa.gov/supercpad/cursites/csitinfo.cfm
This page design was last updated on Wednesday, June 28, 2006
Content is dynamically generated by ColdFusion



CERCLIS Database Site Documents Data Element

Dictionary (DED)

Order Superfund Products

# U.S. Environmental Protection Agency

# **Superfund Information Systems**

Recent Additions | Contact Us | Print Version

GO

EPA Home > Superfund > Sites > Superfund Information Systems > Search CERCLIS > Search Results > C.M. CHRISTIANSEN-POLE YARD

Search:

# **CERCLIS Database**

### C.M. CHRISTIANSEN-POLE YARD

### **Actions**

Site Info | Aliases | Operable Units | Contacts Actions | Contaminants | Site-Specific Documents

OU	Action Name	Qualifier	Lead	<b>Actual Start</b>	<u>Actual</u>
					<b>Completion</b>
. 00	DISCOVERY		S		04/09/1993
00	PRELIMINARY ASSESSMENT	Н	S		08/26/1993
00	SITE INSPECTION	L	S	09/21/1993	09/26/1995
00	EXPANDED SITE INSPECTION	L	S	08/11/2003	09/28/2004

#### **Return to Search Results**

#### **Return to Search CERCLIS**

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

OSWER Home | Superfund Home

EPA Home | Privacy and Security Notice | Contact Us

URL: http://cfpub.epa.gov/supercpad/cursites/cactinfo.cfm
This page design was last updated on Wednesday, June 28, 2006
Content is dynamically generated by ColdFusion

H21/06 CM Christiansen metg. Eric Christiansen Laurte Parsons Rock Fox Fone Jamesch Im Killian

Went to insurance company after Edgerton decision,
suit & counter-suit, now in mediation. Tasurance
company is now paying for some limited work
(recent GW sampling, Institut sed work)
Another me diation session in was be works,
hopefully with he settled a that time; hope this
will alow them to do what is needed (Min coverage
limits)
- Ahilty to pay not an option a flas time
Reviewed EST, hove some concerns but agree risk
assessment work is needed

Stallase of HP

As have questions about ranking Escore, wight be
gromane to their discussions wit insurance company
- Get actual lab data to lawie (all results)
- Do have some issues at down data, much of
it unusable. Also high Detect in make pop
much PAH data useless

- Cocus on COPCs (dioxins), four on puthways

- NRT would prefer to focus on CoPCs (dioxirs), focus on pathways that are realistic & - Agrament that downs will be driver - Need to document retionale for elenandthy exposure pathways - NET wants to focus on sote specific risk assess now, Fall-blown, basically follow EPA guidance - What about SW? Upland & GW contributions night be propobly are tomoted - Rich recommended cont call to descus screening justification (for much? too lottle?) so they know Abegine not missing the book Need to include A Check Warzecha carry - Laurie had question about DRO apolyses (Still need 177) Probably not - They'll wood to do more discrete interval sampling to 6 broactore some, the greater depth interval will be collected, too - Determining presson levels based on rick - might not for instance, excavate to act ron level. Leaving some contain bekind then relates to sed stability A money, could come from & over to DNR and have us do the work? Probably not but well deeck

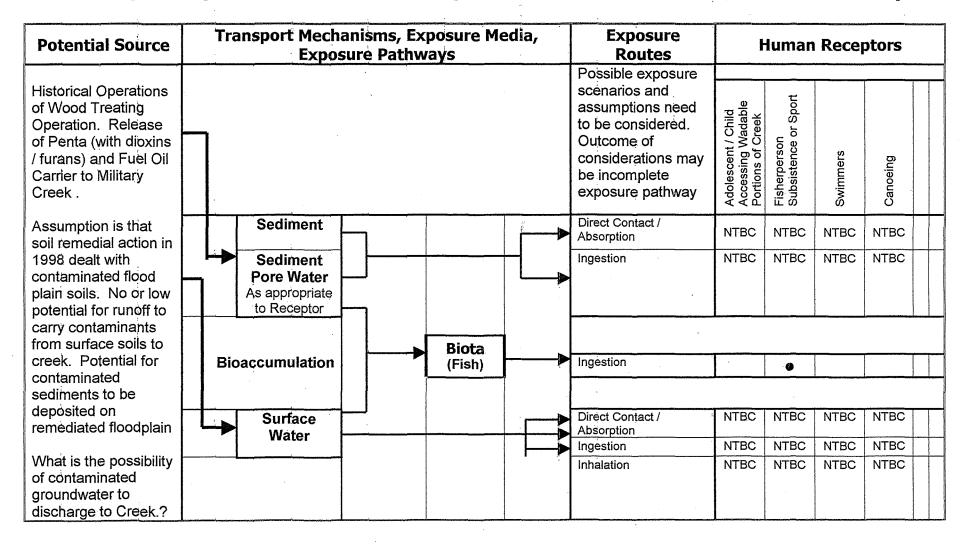
- Procline ~ 10/15/06 try to do cont. coll ~ 9/15

# Preliminary Conceptual Site Model for Military Creek Media, Contaminants, and Ecological Receptors

Potential Source	Transport Mechanisms, Exposure Media, Exposure Pathways	Exposure Routes		Ecolo	gical	Rece	ptoı	s
			Pr	teliminar	y, needs	to be	determ	ined
Historical Operations of Wood Treating Operation. Release of Penta (with dioxins / furans) and Fuel Oil Carrier to Military Creek			Plankton	Aquatic Vegetation Macroinvertebrates/	Melotauna / Microbes Fish	Reptiles/Amphibians	Insectivorous	Piscivorous Picivorous Mammals
Assumption is that soil remedial action in	Sediment	Direct Contact / Absorption	<b>\Q</b>	<b>♦</b> •	•	?	<b>◊</b>	<b>⋄</b> ⋄
1998 dealt with contaminated flood plain soils. No or low potential for runoff to	Sediment Pore Water As appropriate to Receptor	Ingestion		•	•	?	<b>♦</b>	<b>♦</b>
carry contaminants from surface soils to								
creek. Potential for	Bioaccumulation Biota	Ingestion			•	?	•	• •
contaminated sediments to be				···		<del></del>		
deposited on remediated floodplain	Surface Water	Direct Contact / Absorption	, <b>♦</b>	<b>\ \</b>	<b>♦</b>	?		
		Ingestion	<b>\Q</b>	_   ◊	<b>♦</b>	?	<b>♦</b>	<b>♦ ♦</b>
What is the possibility of contaminated groundwater to discharge to Creek.?		Inhalation						

- - Potentially Important Exposure Route
- ♦ Minor Exposure Route
- ? Exposure route needs to be determined Blank Incomplete Exposure Route

# Preliminary Conceptual Site Model for Military Creek Media, Contaminants, and Human Receptors



- Potentially Important Exposure Route
- ♦ Minor Exposure Route
- ? Exposure route needs to be determined Blank Incomplete Exposure Route

NTBC - Needs To Be Considered

## Saari, Christopher A.

From:

Laurie L. Parsons [lparsons@naturalrt.com]

Sent:

Thursday, July 20, 2006 11:10 AM

To:

Saari, Christopher A.

Cc:

Robinson, John H.; Eric R. Christiansen; erich@rich-law.com; Richard G. Fox

Subject:

RE: CMC Co. Meeting Agenda

Attachments: 1226CMCSedimentPathwayDraft.pdf

Chris, Confirming that we are still on for our meeting at DNR's Rhinelander office tomorrow at 10:30 am. Cell phone numbers for Rick Fox (traveling from near Iron Mountain) and myself (traveling from Hartford, Wis.) are below, should anyone need to reach us while in transit Friday morning. I believe Eric C. will be coming from Phelps. Also, for convenience, I am re-sending the agenda (below) and attachment for discussion at our meeting.

Laurie Parsons Natural Resource Technology, Inc. 262.522.1193 Direct Dial 262.523.9000 General Number 262-719-4502 cell

Rick Fox

262-719-4503 cell

From: Laurie L. Parsons

Sent: Wednesday, June 21, 2006 3:37 PM

To: Saari, Christopher A.

Cc: Robinson, John H.; 'Eric R. Christiansen'; Elizabeth Rich (erich@rich-law.com); Richard G. Fox

Subject: FW: CMC Co. Meeting Agenda

Chris,

This is to confirm that our meeting for tomorrow on the CM Christiansen Co. site will be postponed and to relay an agenda for the meeting.

We understand that Tom Janisch will not be available. Given his significant involvement on the ESI supplement, we will postpone and re-establish available meeting times. Unfortunately Eric Christiansen is essentially not available in July, which is why he was hoping to get this in before then. He will be out of state except weekends from June 26 through August 3. We tried calling you by phone earlier today (easier to schedule), but were not able to reach you.

In short, August 7<sup>th</sup> through 25<sup>th</sup> is fairly open for NRT/CMC. Eric indicated he can try to make July 21<sup>st</sup> in Rhinelander work, but would have to juggle a few things to make it up to Rhinelander in time. Rick would have to cancel another commitment, but may be able to do it. Please call or email on re-scheduling this meeting.

Below is the agenda we envisioned for our meeting. Please add any items you have, we can review & revise prior. Also attached is a Conceptual Site Model graphic for discussion under Item 2.

- 1. Overview of ESI Results
  - a. PCP data
  - b. ESI Dioxin data interpretation
- 2. Draft Conceptual Site Model for discussion
  - a. Purpose
  - b. Pathways of concern
- 3. Site Specific Risk Assessment



Mr. Eric Christiansen C.M. Christiansen Co., Inc. 5501 N. Santa Monica Milwaukee, Wisconsin 53217



July 10, 2006 (1226/7.1)

RE:

Groundwater Sampling Results-May 2006 Former Poleyard Property, Phelps, Wisconsin

BRRTS#02-64-000068

#### Dear Mr. Christiansen:

Enclosed are results of the most recent round of groundwater sampling for the Phelps property. The sampling was completed on May 30<sup>th</sup>, 2006 by Northern Lake Services of Crandon, WI including measurement of water levels at 13 wells and sampling of five wells for Pentachlorophenol (PCP). Following is a brief summary of the results, with figures, tables, lab reports and field notes attached.

#### RESULTS

Groundwater elevations observed on the site are summarized on Table 1 and are within the range of previous water level measurements. Five monitoring wells were sampled for PCP. The results are tabulated below and shown with historic data on Figure 2.

Monitoring Well	PCP Concentration (μg/L)
MW-4	ND
MW-6	1.7
MW-10	0.92
PMW-11	99
PMW-11B	<u>0.10</u>

All sample locations had lower PCP concentrations compared to the previous sampling round conducted in September of 2003. Two wells, MW-6 and PMW-11 continue to exceed the NR 140 Enforcement Standard (ES) of 1  $\mu$ g/L. Two wells, MW-10 and PMW-11B are below the ES but above the NR 140 Preventive Action Limit (PAL) of 0.1  $\mu$ g/L. One well, MW-4 had no detection of PCPs in groundwater. The reported concentration for PMW-11B was flagged on the lab report for being between the limit of detection and limit of quantification. Of note the PCP concentration at PMW-11B is significantly lower than reported by WDNR on September 20, 2003 (well was installed September 8, 2003).

Additional data will need to be collected before any conclusion can be drawn about the observed reduction in PCP concentrations during this round of sampling. The next round of groundwater sampling is scheduled for October 2006, pending CMC approval.

C.M. Christiansen, Co. July 10, 2006 Page 2

We appreciate the opportunity to provide continued services to C.M. Christiansen Co., Inc. Please do not hesitate to contact Richard Sawall (262-522-1226) or Laurie Parsons (262-522-1193) if any questions arise during your review of this letter.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Richard H. Sawall PE

Geological Engineer

Laurie L. Parsons PE

Enc: Ta

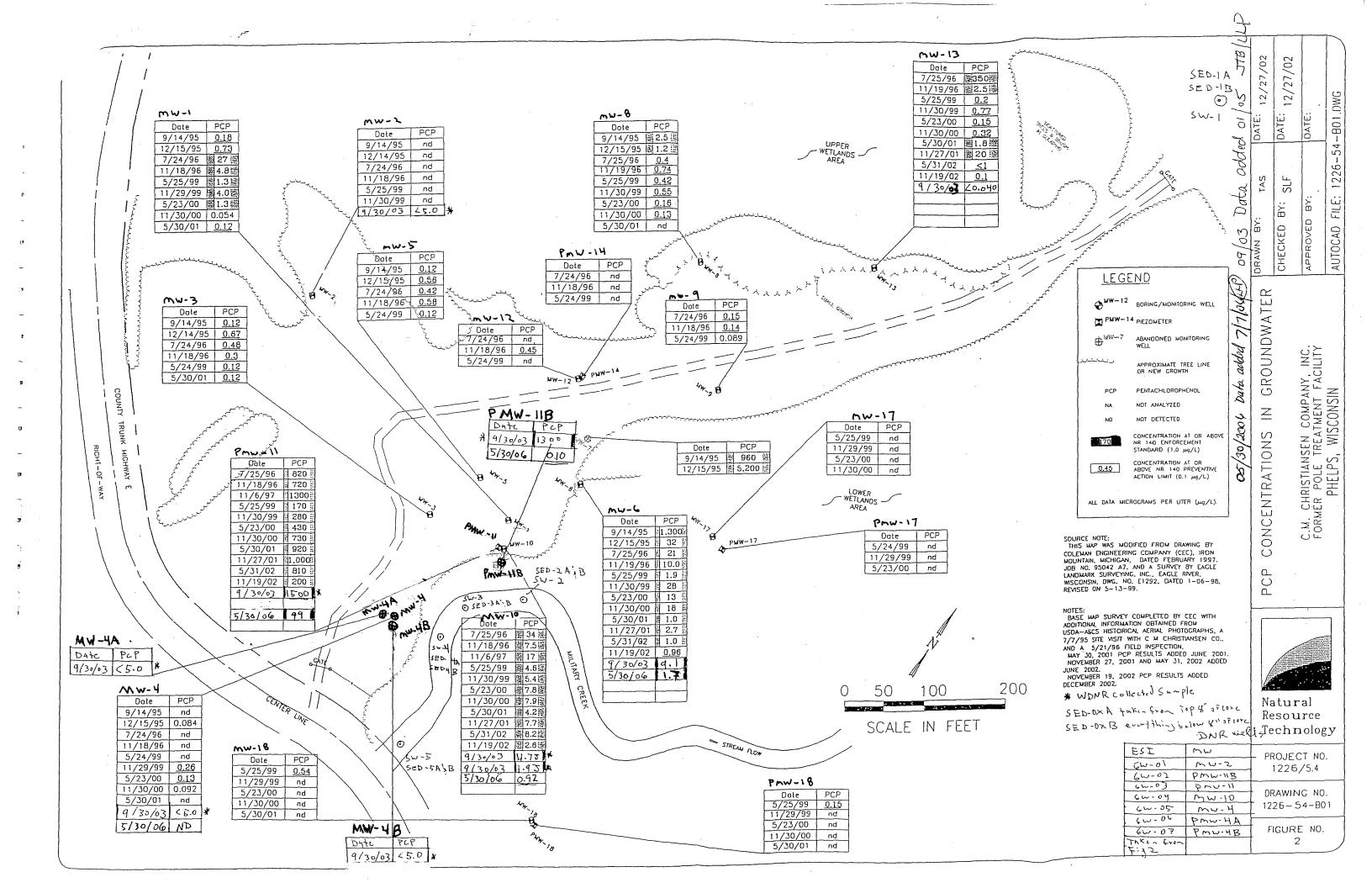
Table 1- Groundwater Elevation Summary

Figure 2- PCP Concentration in Groundwater

Laboratory Report with field notes

P:\1226\CMC groundwater results 060706







# NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

June 23, 2006

Natural Resources Technology, Inc. Attn: Richard H. Sawall 23713 West Paul Road (Suite D) Pewaukee, WI 53072

Hi Hardy,

Enclosed is the Analytical Report for the May 30<sup>th</sup>, 2006 Northern Lake Service sampling of the C.M. Christiansen Company site in Phelps Wisconsin.

If you have any questions or comments concerning the enclosed data, please call Andy Ostrowski or myself at your convenience.

Sincerely,

Steve Macauley

Field Operations Coordinator Northern Lake Service, Inc.

## **ANALYTICAL REPORT**

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520

Ph: (715)-478-2777 Fax: (715)-478-3060

Client:

Natural Resource Technology Inc

Attn: Richard H. Sawall 23713 West Paul Road (Suite D)

Pewaukee,WI 53072

Project: C.M. Christiansen Company May 2006

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/07/06 Code: S

Page 1 of 3

**NLS Project: NLS Customer:** 

98506 84233

Fax: 262 523 9001 Phone: 262 523 9000

PMW-18 NLS ID: 406990  Ref. Line COC PMW-18 Matrix: GW Collected: 05/30/06 09:46 Received: 05/30/06 Parameter Could not sample	<b>Result</b> key broken off	<b>Units</b> in lock:	Dilution	LOD	LOQ	<b>Analyzed</b> 05/30/06		<b>Lab</b> 721026460
MW-18 NLS ID: 406991								
Ref. Line COC MW-18 Matrix: GW Collected: 05/30/06 09:59 Received: 05/30/06								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed		Lab
Field static water level	1684.01	ft, NGVD	1		i i	05/30/06	NA	721026460
MW-2 NLS ID: 406992  Ref. Line COC MW-2 Matrix: GW								
Collected: 05/30/06 10:26 Received: 05/30/06								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed		Lab
Field static water level	1684.86	ft, NGVD	1	:		05/30/06	NA	721026460
MW-4 NLS ID: 406993								
Ref. Line COC MW-4 Matrix: GW Collected: 05/30/06 11:38 Received: 05/30/06								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Field static water level	1683.82	ft, NGVD	.1			05/30/06	NA	721026460
Chlorinated Herbicides (water) by EPA 8151	see attached	Davy Laboratories.				06/08/06	SW846 8151	632021390
Organics Extraction (Herbicides)	yes	Davy Laboratories.				06/06/06	EPA 8151A	632021390
PMW-17 NLS ID: 406994								
Ref. Line COC PMW-17 Matrix: GW								
Collected: 05/30/06 10:51 Received: 05/30/06 Parameter	Result	Units	Dilution	LOD	LOQ	Analymad	Mathad	Lab
Field static water level	1684.60	ft, NGVD	1	LOD	LOQ	Analyzed 05/30/06		<b>Lab</b> 721026460
MW-17 NLS ID: 406995					i:	, , , , , , , , , , , , , , , , , , , ,		, _ , _ , _ , _ , _ , _ ,
Ref. Line COC MW-17 Matrix: GW								
Collected: 05/30/06 10:54 Received: 05/30/06								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Field static water level	1683.44	ft, NGVD	1	·		05/30/06	NA	721026460
PMW-14 NLS ID: 406996  Ref. Line COC PMW-14 Matrix; GW								
Collected: 05/30/06 12:06 Received: 05/30/06								
Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Field static water level	1684.94	ft, NGVD	1		:	05/30/06		721026460
MW-12 NLS ID: 406997								
Ref. Line COC MW-12 Matrix: GW								
Collected: 05/30/06 12:09 Received: 05/30/06 Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Field static water level	1684.93	ft, NGVD	1			05/30/06		721026460

## **ANALYTICAL REPORT**

NORTHERN LAKE SERVICE, INC. **Analytical Laboratory and Environmental Services** 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

Natural Resource Technology Inc Client:

Attn: Richard H. Sawall 23713 West Paul Road (Suite D)

Pewaukee,WI 53072

Project: C.M. Christiansen Company May 2006

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/07/06 Code: S

Page 2 of 3

**NLS Project:** 

98506

**NLS Customer:** 

84233

Fax: 262 523 9001 Phone: 262 523 9000

MW-13 NLS ID: 406998  Ref. Line COC MW-13 Matrix: GW  Collected: 05/30/06 11:49 Received: 05/30/06  Parameter  Field static water level	<b>Result</b> 1695.85	<b>Units</b> ft, NGVD	Dilution 1	"L <sub>O</sub> D"	LOQ	<b>Analyzed</b> 05/30/06		<b>Lab</b> 721026460
MW-8 NLS ID: 406999  Ref. Line COC MW-8 Matrix: GW  Collected: 05/30/06 11:58 Received: 05/30/06  Parameter  Field static water level	<b>Result</b> 1687.16	<b>Units</b> ft, NGVD	Dilution 1	LOD	LOQ	<b>Analyzed</b> 05/30/06		L <b>ab</b> 721026460
MW-3 NLS ID: 407000  Ref. Line COC MW-3 Matrix: GW  Collected: 05/30/06 10:14 Received: 05/30/06  Parameter  Field static water level	<b>Result</b> 1685.49	<b>Units</b> ft, NGVD	Dilution 1	LOD	LOQ	<b>Analyzed</b> 05/30/06		<b>Lab</b> 721026460
MW-6 NLS ID: 407001  Ref. Line COC MW-6 Matrix: GW Collected: 05/30/06 12:18 Received: 05/30/06 Parameter Field static water level Chlorinated Herbicides (water) by EPA 8151	<b>Result</b> 1685.01 see attached Analyzed at Davy	<b>Units</b> ft, NGVD Laboratories.	Dilution	- <b>LOD</b>	LOQ	<b>Analyzed</b> 05/30/06 06/09/06	Method NA SW846 8151	<b>Lab</b> 721026460 632021390
Organics Extraction (Herbicides)	yes				1	06/06/06	EPA 8151A	632021390
Ref. Line COC MW-10 Matrix: GW Collected: 05/30/06 13:08 Received: 05/30/06 Parameter Field static water level Chlorinated Herbicides (water) by EPA 8151	Result 1683.71 see attached Analyzed at Davy	<b>Units</b> ft, NGVD Laboratories.	Dilution 1	LOD :	LOQ	Analyzed 05/30/06 06/09/06	Method NA SW846 8151 EPA 8151A	Lab 721026460 632021390 632021390
Organics Extraction (Herbicides)	yes	<u> </u>		:	- 1	06/06/06	EPA 0151A	032021390
PMW-11 NLS ID: 407003  Ref. Line COC PMW-11 Matrix: GW Collected: 05/30/06 13:43 Received: 05/30/06 Parameter Field static water level Chlorinated Herbicides (water) by EPA 8151	<b>Result</b> 1683.71 see attached Analyzed at Davy	Units ft, NGVD Laboratories.	Dilution	LOD :	LOQ	<b>Analyzed</b> 05/30/06 06/09/06	Method NA SW846 8151	Lab 721026460 632021390
Organics Extraction (Herbicides)	yes		:	:	Ė	06/06/06	EPA 8151A	632021390
PMW-11B NLS ID: 407004  Ref. Line COC PMW-11B Matrix: GW Collected: 05/30/06 14:47 Received: 05/30/06 Parameter Field depth to water Chlorinated Herbicides (water) by EPA 8151	<b>Result</b> 4.47 see attached Analyzed at Davy	<b>Units</b> ft. Laboratories.	Dilution 1	LOD	LOQ	<b>Analyzed</b> 05/30/06 06/09/06	Method NA SW846 8151	<b>Lab</b> 721026460 632021390
Organics Extraction (Herbicides)	yes		* *** *		1	06/06/06	EPA 8151A	632021390

#### NORTHERN LAKE SERVICE, INC.

**Analytical Laboratory and Environmental Services** 400 North Lake Avenue - Crandon, WI 54520

Ph: (715)-478-2777 Fax: (715)-478-3060

Client:

Natural Resource Technology Inc

Attn: Richard H. Sawall 23713 West Paul Road (Suite D)

Pewaukee,WI 53072

C.M. Christiansen Company May 2006 Project:

ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/07/06 Code: S

Page 3 of 3

**NLS Project:** 

98506

**NLS Customer:** 

84233

Fax: 262 523 9001

Phone: 262 523 9000

Effluent NLS ID: 407005

Ref. Line COC Effluent Matrix: GW

Collected: 05/30/06 15:05 Received: 05/30/06

Parameter Could not sample

Units pump or generator malfunction Dilution

LOD

LOQ

Analyzed Method 05/30/06 NA

Lab 721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not Detected

Result

1000 ug/L = 1 mg/L

Authorized by:

DWB = Dry Weight Basis

NA = Not Applicable

%DWB = (mg/kg DWB) / 10000

Reviewed by: -

R. T. Krueger

MCL = Maximum Contaminant Levels for Drinking Water Samples

President

<b>Customer: Natural Resource Techno</b>		•	70101			Page 1 of 1	
Project Description: C.M. Christians Project Title: May 2006	en Company Template: DAV8151V	V Printed: 07/07/	<u>/2006</u> 13:19	9			
Sample: 406993 MW-4	Collected: 05/30/06	Analyzed: 06/08/06 -					
ANALYTE NAME	RES	ULT UNITS	DIL	LOD	LOQ		
Pentachlorophenol DCAA (SURR**)	NI 119		1	0.070	0.24		
Sample: 407001 MW-6	Collected: 05/30/06	Analyzed: 06/09/06 -					
ANALYTE NAME	RES	ULT UNITS	DIL	LOD	LOQ		
Pentachlorophenol DCAA (SURR**)	1. <sup>7</sup> 85.7		1	0.070	0.24		
Sample: 407002 MW-10	Collected: 05/30/06	Analyzed: 06/09/06 -		<del></del>			
ANALYTE NAME	RES	ULT UNITS	DIL	LOD	LOQ		
Pentachlorophenol DCAA (SURR**)	0.9 109		1	0.070	0.24		
Sample: 407003 PMW-11	Collected: 05/30/06	Analyzed: 06/09/06 -	-				
ANALYTE NAME	RES	ULT UNITS	DIL	LOD	LOQ		
Pentachlorophenol DCAA (SURR**)	99 91.6	- 3. –	1	1.4	4.8	**************************************	
Sample: 407004 PMW-11B	Collected: 05/30/06	Analyzed: 06/09/06	) <b>-</b>				
ANALYTE NAME	RES	ULT UNITS	DIL	LOD	LOQ		
Pentachlorophenol DCAA (SURR**) ** Surrogates are used to evaluate a me	[0.1 97.8 ethod's Quality Control.		1	0.070	24		

Page 1 of 1

ANALYTICAL RESULTS: Chlorinated Herbicides by EPA 8151

NORTHERN LAKE SE	RVICE, INC.	FIELD	GROUNDWATER	MONITORING	RECORD
------------------	-------------	-------	-------------	------------	--------

NLS Laboratory Number	406,990	4010991	406992	40693	40694	404995	400996	406997	404998	406999	407000	407001
Facility: Natural Resource Technology	PMW-18	MW-18	MW-2	MW - 4	PMW-17	MW-17	PMW-14	MW-12	MW-13	MW-8	MW-3	MW-6
C M Christensen Co. pg 1 of 2										·		
DNR ID#												
Well Condition (see key)	sequil	oK	See OK	See if	OK	OK	N'EX	NEW	heaved NL	hos/	Lock	oK
Pipetop Elevation (ft. NGVD)	1690.68	1690.74	1714.54	1689.63	1686.68	1686.98	1712.40	1711.09	1703.06	1703.50	1692.87	1691.52
Depth to Water (ft.)		63	29.68	5.81	2,08	3,54	27.46	2616	7.21	1634	7.38	6.51
STATIC WATER ELEVATION		168401	1684.86	1683 82	168460	168344	1684.94	168493	1695.85	_	1685.40	1685.01
Depth to Well Bottom (ft.)	37.7	15.9	37.3	253	36.7	16.1	47.1	31.7	21.2	23.3	20.1	15.1
Standing Water Column (ft.)				19.49								8.59
Standing Water Volume (gal.)				3.33								1.46
Purging Methods (see key)				HB								HB
Purge Info. (see key) (4 Vol.)				Pyx								P004
Volume Purged (gal.)				133								2.7
Appearance During Purging				3/t. Silly								Sitty
FIELD COLOR (describe)				NV								NO
FIELD CONDUCTIVITY (umho @ 25C)												
Field Filtered (Y/N describe)				МО								NO
FIELD ODOR (describe)				ND								ND
FIELD pH (standard units)												
FIELD TEMPERATURE (degree C)												
FIELD TURBIDITY Quantity				Fixt.								not
Texture				f.he								Fire
Color			,	yerown								tan brown
Purge Time-if not immed.												
TIME SAMPLED	946	959	1626	1138	1051	1054	1206	1209	1149	1158	1014	1318
DATE SAMPLED	[\30\d											- 1

rhe follow	ing int	formation appli	es to samp	les on	the re	verse side of this s	heet.
Date	/30	106		Date_			
Crew Chief	Ro	n Smit	L	Crew	Chief_		
Crew				Crew_			
Weather/Co	mments	: DUCTC	45t				
M	Ed 7	13-603					
		24 DTB	- 45.7				
			SAMPLE CO	LLECT	ION CO	MMENTS	
PMW	18 -	- akey	is brok		0 F4	inside loc	K
		COSTANT					
mw 2	- 7	Vew lock.	big site	ice 1	naste	clock which	Ihalas
	a de	mmer +	wouldn	ed,	uh ven.	Toied agai	it will
mwy-	2	-well's a	nlabeled	110	rpp.	area both	A ver 20 ATA
m	WWZ	1772 = 160	$\alpha / l = 1$	o Ho		S. left mos	
11 0	WAR	1/10/15 /0/17	- Chiled		i ay	N, TETT MES	sege 9+104)
maray c	valled	back - d	SAM:	PLE CU	, N D	JANR - MW4 gon	cs sample shallow
RELINQUIS	HED BY	(signature)	RECEIVED BY	(signature)		DATE/TIME	,
RECEIVED	//	<b>/</b>				CONDITION	TEMP.
REMARKS &	NU	INFORMATION	5/30/06/	1680		Gosp	on ice y
& CANAMAN	OIIIER	INFORMATION					
			KEY OF	ABBRI	EVIATI	ONS	
Purging Method:	HB PB	power bailer	Purging Info:	P-X	purged (X)	purged dry	
	DP PP	deep well pump peristaltic pump			DD(x) O	level drew down; purged (x) volume of other (explain)	remaining column
Well Condition:	WD NL	well damaged (explain) well not locked					
	NC SD O	no cap on inner casing seal damaged (explain) other problems (i.e. ben	t casing, ants in well)				
Purging Appearance	OK es: descripti	well in good condition ion (i.e. sandy, cloudy, clear,	dark, red. etc)				
Filtered: Y or N			1 1				
illereu. I UI N							

Filterability: G=good, M=moderately good, P=poor, D=difficult, special procedures (explain)

		GROUNDWATER	

NLS Laboratory Number	407002	407003	457004	407005			
Facility: Natural Resource Technology	MW-10	PMW-11	PMW-11B	Effluent			
C M Christensen Co. pg 2 of 2		-					
DNR ID#							
Well Condition (see key)	OK	ok	OK				
Pipetop Elevation (ft. NGVD)	1689.13	1689.25				-	
Depth to Water (ft.)	5.42	5.St.	4.47				
STATIC WATER ELEVATION	168371	1683.71		6			
Depth to Well Bottom (ft.)	15.2	30.0	48.5	-3			
Standing Water Column (ft.)	9.78	24.46	44.03	0			
Standing Water Volume (gal.)	1.67	4.18	7.52	Z			
Purging Methods (see key)	H-B	9 XB	HB	3			
Purge Info. (see key) (4 vol.)	PHX	PODY	PF	3			
Volume Purged (gal.)	6.6	8.7	30.11	7			
Appearance During Purging	13 mile		Silly	\$2			
FIELD COLOR (describe)	or on t	NP	Jan				
FIELD CONDUCTIVITY (umho @ 25C)				2000			
Field Filtered (Y/N describe)	NO	МО	NO	O NO			
FIELD ODOR (describe)	NI	NB	NO	ζ			
FIELD pH (standard units)							
FIELD TEMPERATURE (degree C)							
FIELD TURBIDITY Quantity	EX	5 CK	Ext	1		-	
Texture	Anc.	(he	Are				
Color	Scarpe	ton	brown	4			
Purge Time-if not immed.	,		,				
TIME SAMPLED	1308	1343	1447	1505			
DATE SAMPLED	5 30lot		$\rightarrow$	5(3000 abbreviat			

The followi Date	ing in	formation appli $\partial/\partial b$	es to sam.						
Crew Chief	R	Pon Sn	1142						
Crew				Crew					
Weather/Com	nments	: 50n1	29						
8		÷1	2						
	)	3			***				
					*****		,		
		Ç	SAMPLE C	OLLECT	ION CO	OMMENTS			XX
		•	•		-				
			SA	MPLE C	USTODY	7			
RELINQUISE	HED BY	(eignature)	RECEIVED I				E/TIME		·
		(signacure,		(Signacure					
RECEIVED A	) ~	SY(signature) INFORMATION	5/80/0		30	CONI	SOUD	) 1	on ('cc
			KEY O	F. ABBR	EVIATI	ONS			
Purging Method:	HB PB DP PP	hand bailed power bailer deep well pump peristaltic pump	Purging Info:	P-X	purged (X Dry DD(x) O	purged dry		lume of remaining	column
Well Condition:.	WD NL NC SD O OK	well damaged (explain) well not locked no cap on inner casing seal damaged (explain) other problems (i.e. bent well in good condition	casing, ants in we	il)		1			
Purging Appearance	s: descripti	on (i.e. sandy, cloudy, clear, o	dark, red, etc)						
Filtered: Y or N						MASTE	ER FILE	COPY	
Filterability: G=good		alely good, P=poor, D=difficul procedures (explain)	t,		PR CC	OJECT	# 12/6 (grand	nter)	<b>-</b>

### Saari, Christopher A.

From: Saari, C

Saari, Christopher A.

Sent:

Monday, July 10, 2006 1:11 PM

To:

'Laurie L. Parsons'

Cc:

erc@wi.rr.com; Richard G. Fox

Subject: RE: CMC Co. Groundwater Results

Laurie, could you send me the site map as a hard copy? I don't have the ability to print 11x17 sheets here in my office, and shrinking the map makes it a little hard to read. Thanks.

From: Laurie L. Parsons [mailto:lparsons@naturalrt.com]

Sent: Monday, July 10, 2006 12:56 PM

To: Saari, Christopher A.

**Cc:** erc@wi.rr.com; Richard G. Fox **Subject:** CMC Co. Groundwater Results

Chris,

On behalf of CM Christiansen Co. Inc. attached for your file is updated groundwater sampling information for their former poleyard property in Phelps. Groundwater sampling occurred in May 2006. Please let us know if you prefer a hard copy via mail.

Thank you,

Laurie L. Parsons, PE
Natural Resource Technology, Inc.
23713 W. Paul Road, Suite D
Pewaukee, WI 53072
262.522.1193 Direct Dial
262.523.9000 General Number
lparsons@naturalrt.com
www.naturalrt.com



Mr. Eric Christiansen C.M. Christiansen Co., Inc. 5501 N. Santa Monica Milwaukee, Wisconsin 53217 July 10, 2006 (1226/7.1)

RE:

Groundwater Sampling Results-May 2006 Former Poleyard Property, Phelps, Wisconsin BRRTS#02-64-000068

Dear Mr. Christiansen:

Enclosed are results of the most recent round of groundwater sampling for the Phelps property. The sampling was completed on May 30<sup>th</sup>, 2006 by Northern Lake Services of Crandon, WI including measurement of water levels at 13 wells and sampling of five wells for Pentachlorophenol (PCP). Following is a brief summary of the results, with figures, tables, lab reports and field notes attached.

#### RESULTS

Groundwater elevations observed on the site are summarized on Table 1 and are within the range of previous water level measurements. Five monitoring wells were sampled for PCP. The results are tabulated below and shown with historic data on Figure 2.

Monttonig Well	PEP Concentration (up/L)
MW-4	ND
MW-6	1.7
MW-10	0.92
PMW-11	99
PMW-11B	0.10

All sample locations had lower PCP concentrations compared to the previous sampling round conducted in September of 2003. Two wells, MW-6 and PMW-11 continue to exceed the NR 140 Enforcement Standard (ES) of 1  $\mu$ g/L. Two wells, MW-10 and PMW-11B are below the ES but above the NR 140 Preventive Action Limit (PAL) of 0.1  $\mu$ g/L. One well, MW-4 had no detection of PCPs in groundwater. The reported concentration for PMW-11B was flagged on the lab report for being between the limit of detection and limit of quantification. Of note the PCP concentration at PMW-11B is significantly lower than reported by WDNR on September 20, 2003 (well was installed September 8, 2003).

Additional data will need to be collected before any conclusion can be drawn about the observed reduction in PCP concentrations during this round of sampling. The next round of groundwater sampling is scheduled for October 2006, pending CMC approval.

C.M. Christiansen, Co. July 10, 2006 Page 2

We appreciate the opportunity to provide continued services to C.M. Christiansen Co., Inc. Please do not hesitate to contact Richard Sawall (262-522-1226) or Laurie Parsons (262-522-1193) if any questions arise during your review of this letter.

Principal Engineer

Sincerely,

Enc:

NATURAL RESOURCE TECHNOLOGY, INC.

Richard H. Sawall PE

Geological Engineer

Table 1- Groundwater Elevation Summary

Figure 2- PCP Concentration in Groundwater

Laboratory Report with field notes

P:\1226\CMC groundwater results 060706

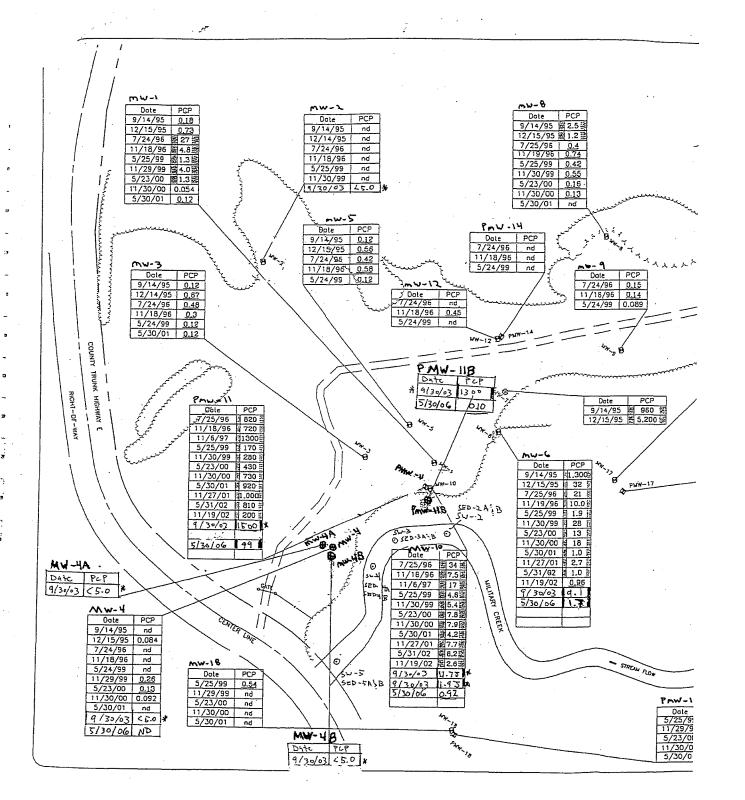


Table 1 - Groundwater Elevation Summary CM Christiansen - Phelps, WI

Monito	oring Point	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	PMW-11	PMW-11B	MW-12	PMW-14	MW-13
Top of Casi	ng Elevation	1690.29	1714.54	1692.87	1689.63	1696.03	1691.52	1700.80	1703.50	1706.63	1689.13	1689.25	Well	1711.09	1712.40	1703.06
Ground Sur	ace Elevation	1688.1	1712.7	1690.8	1687.8	1693.5	1689.2	1698.5	1700.5	1704.2	1686.4	1686.5	Installed	1709.0	1709.5	1700.1
Top of Scree	n Elev.	1680.1	1687.1	1682.8	1682.8	1689.5	1686.7	1688.5	1690.0	1689.1	1683.9	1664.0	by by	1689.0	1670.0	1690.1
Bottom of S	creen Elev.	1675.1	1677.4	1672.8	1672.8	1679.5	1676.7	1678.5	1680.0	1679.1	1673.9	1659.0	Boart	1679.0	1665.0	1680.1
						Ground	water Elevat	ion (ft NGVD)					Longyear			
DATE	9/14/1995	1683.79	1685.27	1685.04	1683.42	1685.15	1685.23	1685.25	1685.94	nm	nm	nm	for	nm	nm	nm
	12/15/1995	1684.28	1685.20	1686.23	1684.09	1685.48	1685.12	1685.17	1687.01	nm	nm	nm	WDNR	nm	nm	nm
	7/3/1996	1684.58	1685.83	1686.38	1684.00	1686.13	1685.70	1685.56*	1688.00	1685.70	1683.89	1685.09	on.	1685.71	1685.73	1695.50
	7/11/1996	1684.29	1685.74	1686.39	1684.05	1685.96	1685.56	1685.57*	1687.90	1685.60	1683.68	1684.89	9/8/2003	1685.61	1685.62	1695.60
	7/24-25/96	1684.52	1685.78	1686.68	1683.77	1686.23	1685.55	1685.48*	1686.93	1685.65	1683.75	1685.00		1685.64	1685.59	1695.42
	8/6/1996	1684.61	1685.75	1686.40	1684.29	1686.48	1685.62	1685.59*	1687.51	1685.09	1684.21	1685.04	TOC	1685.67	1685.68	1694.84
	8/7/1996	1684.76	1685.78	1686.52	1684.66	1686.17	1685.73	nm	1687.74	1685.12	1684.30	1685.12	46 ft	1685.69	1685.70	1697.31
1	8/27/1996	1684.25	1685.68	1685.17	1683.68	1685.95	1685.50	1685.57*	1686.84	1685.59	1683.79	1684.87		1685.59	1685.61	1696.71
	9/4/1996	1684.33	1685.70	1685.99	1683.78	1685.84	1685.54	1685.65*	1686.51	1685.65	1684.18	1684.90	ili senta	1685.62	1685.64	1696.57
1 (	11/18/1996	1685.20	1685.62	1686.28	1684.56	1686.18	1685.74	1685.62	1686.43	1685.67	1684.45	1685.28		1685.61	1685.65	1697.19
]	5/24/1999	1685.12	1685.28	1686.53	1684.56	1686.27	1685.50	1685.43	1686.66	1685.42	1684.31	1685.18		1685.37	1685.38	1698.18
1 [	11/29-30/99	1683.93	1684.90	nm	1684.24	nm	1684.90	nm	1684.85	nm	1683.59	1684.24		nm	nm	1697.13
	5/23/2000	1683.86	1684.83	1685.25	1684.63	1685.14	1684.78	nm	1685.52	1684.90	1683.41	1684.22	Philipadikongo Minungolapid	1684.87	1684.87	1696.73
	11/30/2000	1683.82	1684.65	1684.56	1684.06	1684.68	1684.67	nm	1685.79	1684.73	1683.45	1684.06	ELANCE.	1684.69	1684.72	1694.62
1 . [	5/30/2001	nm	1685.11	1686.02	1684.39	nm	1685.09	nm	1686.37	nm	1683.52	1684.60		1685.12	1685.14	1695,12
	11/27/2001	nm	1685.01	1685.17	1684.63	nm	1685.05	nm	1686.24	nm	1683.91	1684.27		1685.03	1685.05	1694.68
	5/31/2002	nm	1685.93	1686.84	1684.44	nm	1685.68	nm	1687.47	nm	1683.54	1684.63		1685.78	1685.79	1693.81
1 {	11/19/2002	nm	1685.31	1685.64	1684.28	nm	1685.19	nm	1686.77	nm	1683.58	1684.55	F. Hilliams	1685.26	1685.28	1694.87
	9/9/2003 <sup>A</sup>	nm	nm	πm	nm	nm	nm	nm	nm	nm	nm	nm	2.00	nm	nm	nm
	9/30/2003	1683.75	nm <sup>B</sup>	1684.55	nm <sup>B</sup>	1684.74	1684.85	Well Abandoned	nm <sup>C</sup>	1685.01	nm <sup>B</sup>	nm <sup>B</sup>	nm <sup>B</sup>	1685.00	1685.04	1693.87
<u></u>	5/30/2006	nm	1684.86	1685.49	1683.82	nm	1685.01	nm	1687.16	nm	1683.71	1683.71	nm	1684.93	1684.94	1695.85

	oring Point	MW-17	PMW-17	MW-18	PMW-18	PMW-4A	PMW-4B	Military Crk
Top of Cas	ng Elevation	1686.98	1686.68	1690.74	1690.68	Well	Well	1685.92
Ground Surface Elevation		1684.8	1684.5	1688.3	1688.1	Installed	Installed	
Top of Scre	en Elev.	1681.1	1654.2	1684.8	1658.1	by -	by.	
Bottom of S	Screen Elev.	1671.1	1649.2	1674.8	1653.1	Boart	Boart	
		Grou	ındwater Ele	vation (ft NO	GVD)	Longyear	Longyear	
DATE	8/6/1996	nm	nm	nm	nm	for	for	1684.00
Ì	8/7/1996	nm	nm	nm	nm	WDNR	WDNR	1684.06
	8/27/1996	nm	nm	nm	nm	on	On-	nm
[	9/4/1996	nm	nm	nm	nm	9/8/2003	9/8/2003	1684.27
	11/18/1996	nm	nm	nm	nm			1684.14
l	5/24/1999	1684.01	1685.26	1684.38	1684.55	TOC	TOC	nm
ł	11/29-30/99	1683.55	1684.79	1683.69	1683.83	29.80 ft	44.00 ft	nm
	5/23/2000	1683.43	1684.69	1683.54	1683.67		skesped endig Respublikations	nm
	11/30/2000	1683.39	nm**	1683.48	1683.59	RT: 4.444E	Toy are i	nm
1	5/30/2001	1683.52	1685.82	1683.76	1683.60		ianun ya	nm
	11/27/2001	1683.66	1684.24	1683.89	1684.01			nm
ĺ	5/31/2002	1683.53	1685.54	1683.84	1684.02	in i sastuália		nm
	11/19/2002	1683.42	nm**	1683.69	1683.86			nm
	9/9/2003 <sup>A</sup>	nm	nm	nm	nm	6.5	7.1	nm
	9/30/2003	1683.2	1684.7	nm	nm	nm <sup>B</sup>	nm <sup>B</sup>	nm
	5/30/2006	1683.44	1684.60	1684.01	nm	nm	nm	nm

(R-HMS 6/27/01, C-JTB 6/28/01)
(R-JTB 12/11/01, C-AAS 12/12/01)
(R-BGH 9/16/02,C-SAS 9/17/02)
(R-SLF 12/13/02,C-MIR 12/13/02)
(R-JTB01/18/05,C-EPK 1/19/05)
(R-RHS 06/05/06,C-JTB 06/05/06)

#### Notes:

NGVD = elevation with respect to National Vertical Geodetic Datum. Military Crk = creek elevation measured at stream gauge.

\* Elevation of free product.

nm = elevation not measured.

\*\* well frozen

A: Wells Installed by Boart Longyear on August 8 & 9, 2003 for WDNR, currently no survey information available, water elevation is groundwater depth from top of casing (TOC.)

B: Wisconsin Department of Natural Resources (WDNR) took groundwater levels for these specific wells, no information provided.

C: Depth to groundwater not measured in monitoring well MW-8 on 9/30/2003 because well could not be opened due to rusted lock.



## NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services

June 23, 2006

Natural Resources Technology, Inc. Attn: Richard H. Sawall 23713 West Paul Road (Suite D) Pewaukee, WI 53072

Hi Hardy,

Enclosed is the Analytical Report for the May 30<sup>th</sup>, 2006 Northern Lake Service sampling of the C.M. Christiansen Company site in Phelps Wisconsin.

If you have any questions or comments concerning the enclosed data, please call Andy Ostrowski or myself at your convenience.

Sincerely,

Steve Macauley

Field Operations Coordinator

Northern Lake Service, Inc.

## **ANALYTICAL REPORT**

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

Client:

Natural Resource Technology Inc Attn: Richard H. Sawall 23713 West Paul Road (Suite D) Pewaukee,WI 53072

Project: C.M. Christiansen Company May 2006

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/07/06 Code: S

Page 1 of 3

**NLS Project:** 

98506 84233

**NLS Customer:** 

Fax: 262 523 9001 Phone: 262 523 9000

PMW-18 NLS 1D: 406990  Ref. Line COC PMW-18 Matrix: GW  Collected: 05/30/06 09:46 Received: 05/30/06  Parameter  Could not sample	Result key broken off in loc	Units	Dilution	LOD	LOQ	<b>Analyzed</b> 05/30/06		<b>Lab</b> 721026460
MW-18 NLS ID: 406991  Ref. Line COC MW-18 Matrix: GW  Collected: 05/30/06 09:59 Received: 05/30/06  Parameter  Field static water level	Result  1684.01	Units ft, NGVD	Dilution	LOD	LOQ	Analyzed 05/30/06		Lab ::::::::::::::::::::::::::::::::::::
MW-2 NLS ID: 406992  Ref. Line COC MW-2 Matrix: GW  Collected: 05/30/06 10:26 Received: 05/30/06  Parameter  Field static water level	Result 1684.86	<b>Units</b> ft, NGVD	Dilution	LOD	LOQ	Analyzed 05/30/06	Method H. A.	<b>Lab</b> 721026460
MW-4 NLS ID: 406993  Ref. Line COC MW-4 Matrix: GW Collected: 05/30/06 11:38 Received: 05/30/06 Parameter Field static water level Chlorinated Herbicides (water) by EPA 8151  Organics Extraction (Herbicides)	Result 1683.82 see attached Analyzed at Davy	Units ft, NGVD Laboratories.	Dilution 1	LOD	LOQ			Lab 721026460 632021390 632021390
PMW-17 NLS ID: 406994    Ref. Line COC PMW-17 Matrix: GW  Collected: 05/30/06 10:51 Received: 05/30/06  Parameter  Field static water level	yes  Result 1684.60	Units ft, NGVD	Dilution:	LOD	Log		Method	Lab 721026460
Ref. Line COC MW-17 Matrix: GW Collected: 05/30/06 10:54 Received: 05/30/06 Parameter Field static water level	Resült 1683.44	Units ft, NGVD	Dilution	LOD	LOQ	Analyzed 05/30/06	Method NA	Lab 721026460
PMW-14 NLS ID: 406996  Ref. Line COC PMW-14 Matrix: GW  Collected: 05/30/06 12:06 Received: 05/30/06  Parameter  Field static water level	Result 1684.94	Units ft, NGVD	Dilution 1	LOD	LOQ	Analyzed 05/30/06		<b>Lab</b> 721026460
MW-12 NLS ID: 406997  Ref. Line COC MW-12 Matrix: GW  Collected: 05/30/06 12:09 Received: 05/30/06  Parameter  Field static water level	Result  1684.93	Units ft, NGVD	Dilution 1	LOD	LOQ	Analyzed 05/30/06	Method NA	<b>Lab</b> 721026460

## **ANALYTICAL REPORT**

NORTHERN LAKE SERVICE, INC. Analytical Laboratory and Environmental Services 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

Natural Resource Technology Inc Client:

Attn: Richard H. Sawall 23713 West Paul Road (Suite D) Pewaukee,WI 53072

Project: C.M. Christiansen Company May 2006

WDNR Laboratory ID No. 721026460 WDATCP Laboratory Certification No. 105-330 EPA Laboratory ID No. WI00034

Printed: 07/07/06 Code: S

Page 2 of 3

**NLS Project:** 

98506

**NLS Customer:** 

84233

Fax: 262 523 9001 Phone: 262 523 9000

MW-13 NLS ID: 406998								
Ref. Line COC MW-13 Matrix: GW								
Collected: 05/30/06 11:49 Received: 05/30/06					one consumer the con-			
Parameter	Result	Units	Dilution	LOD	LOQ	05/30/06	l Method	Lab
Field static water level	1695.85	ft, NGVD	<u> </u>		<u> </u>	05/30/06	NA	721026460
MW-8 NLS ID: 406999								
Ref. Line COC MW-8 Matrix: GW Collected: 05/30/06 11:58 Received: 05/30/06								
Parameter:	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab.
Field static water level	1687.16	ft, NGVD	1			05/30/06	NA	721026460
MW-3 NLS ID: 407000								
Ref. Line COC MW-3 Matrix: GW								
Collected: 05/30/06 10:14 Received: 05/30/06 Parameter	Result	Units	Dilution	LOD	LOQ	Analüzec	Method	Lab
Field static water level	1685.49	ft. NGVD	1	LOD	LOU	05/30/06	NA	721026460
MW-6 NLS ID: 407001						, , , , , , , , , , , , , , , , , , ,		
Ref. Line COC MW-6 Matrix; GW								
Collected: 05/30/06 12:18 Received: 05/30/06								
Parameter	Result 1685.01	Units ft. NGVD	Dilution	LOD	LOQ	05/30/06	l∷Method NA	Lab 721026460
Field static water level Chlorinated Herbicides (water) by EPA 8151	see attached	II, NGVD				06/09/06		632021390
	Analyzed at Dav	y Laboratories.						F*****
Organics Extraction (Herbicides)	yes			i		06/06/06	EPA 8151A	632021390
MW-10 NLS ID: 407002								
Ref. Line COC MW-10 Matrix: GW								
Collected: 05/30/06 13:08 Received: 05/30/06 Parameter	Result	Units	Dilution	LOD	LOQ	Analyzen	Method	Lab
Field static water level	1683.71	ft, NGVD	1	J. J. Cob.		05/30/06		721026460
Chlorinated Herbicides (water) by EPA 8151	see attached	1				06/09/06		632021390
to the control of the	Analyzed at Dav	y Laboratories.					The second section is a second section of	*******
Organics Extraction (Herbicides)	yes					06/06/06	EPA 8151A	632021390
PMW-11 NLS ID: 407003			*					
Ref. Line COC PMW-11 Matrix: GW								
Collected: 05/30/06 13:43 Received: 05/30/06 Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Field static water level	1683.71	ft, NGVD	1	nii ee See Toombaa T		05/30/06	NA	721026460
Chlorinated Herbicides (water) by EPA 8151	see attached				1	06/09/06	SW846 8151	632021390
Organics Extraction (Herbicides)	Analyzed at Dav	/ Laboratories.			'IC	06/06/06	EPA 8151A	632021390
	yes		the manner of the		<u> </u>	00/00/00	FLYOLIN	032021330
PMW-11B NLS ID: 407004  Ref, Line COC PMW-11B Matrix; GW								
Collected: 05/30/06 14:47 Received: 05/30/06								
Parameter 2	Result	Units	Dilution	LOD	LOQ		Method	Lab
Field depth to water Chlorinated Herbicides (water) by EPA 8151	4.47	π.			- #	05/30/06		721026460 632021390
Childrinated Herbicides (Water) by EFA 0131	see attached Analyzed at Dav	/ Laboratories			. 11	เกอเกลเกอ	SW846 8151	p32021390
Organics Extraction (Herbicides)	yes		4.60.1999.91999	***************************************	1	06/06/06	EPA 8151A	632021390

#### NORTHERN LAKE SERVICE, INC.

**Analytical Laboratory and Environmental Services** 400 North Lake Avenue - Crandon, WI 54520 Ph: (715)-478-2777 Fax: (715)-478-3060

> Attn: Richard H. Sawall 23713 West Paul Road (Suite D)

Natural Resource Technology Inc

### ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460

WDATCP Laboratory Certification No. 105-330 **EPA Laboratory ID No. WI00034** 

Printed: 07/07/06 Code: S

Page 3 of 3

**NLS Project:** 

98506

**NLS Customer:** 

84233

Fax: 262 523 9001

Phone: 262 523 9000

Pewaukee,WI 53072 C.M. Christiansen Company May 2006 Project:

Effluent NLS ID: 407005

Ref. Line COC Effluent Matrix: GW

Collected: 05/30/06 15:05 Received: 05/30/06

Parameter: Could not sample

Client:

Units Result pump or generator malfunction

%DWB = (mg/kg DWB) / 10000

Dilution LOD LOQ Analyzed Method 05/30/06 NA

Lab 721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(") are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not Detected

1000 ug/L = 1 mg/L

Reviewed by: -

Authorized by: R. T. Krueger

DWB = Dry Weight Basis NA = Not Applicable MCL = Maximum Contaminant Levels for Drinking Water Samples

President

	ANALYTICAL RESULTS: Chloric		cides by EP	A 8151			Page 1 of 1
Customer: Natural Resou		ct: 98506					
Project Description: C.M.					_		
Project Title: May 2006	Template: DAV	8151W Pr	inted: 07/07/	2006 13:19	9		
Sample: 406993 MW-4	Collected: 05/30/06	S Analyze	ed: 06/08/06 -				
ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ	
Pentachlorophenol		ND	ug/L	1	0.070	0.24	· · · · · · · · · · · · · · · · · · ·
DCAA (SURR**)		119%					
Sample: 407001 MW-6	Collected: 05/30/06	Analyze	ed: 06/09/06 -				
ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ	
Pentachlorophenol		1.7	ug/L	1 "	0.070	0.24	
DCAA (SURR**)		85.7%					
Sample: 407002 MW-10	Collected: 05/30/0	6 Analyz	ed: 06/09/06 -				
ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ	
Pentachlorophenol	A CONTRACTOR OF THE STATE OF TH	0.92	ug/L	1	0.070	0.24	· · · · · · · · · · · · · · · · · · ·
DCAA (SURR**)		109%	u9/_		0.070	0.27	
				***************************************			and the second s
Sample: 407003 PMW-11	Collected: 05/30	/06 Analy	/zed: 06/09/06 -	<del></del>			
ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ	
Pentachlorophenol		99	ug/L	1	1.4	4.8	
DCAA (SURR**)		91.6%					
ample: 407004 PMW-11B	Collected: 05/3	0/06 Ana	lyzed: 06/09/06	-			
ANALYTE NAME		RESULT	UNITS	DIL	LOD	LOQ	
Pentachlorophenol		[0.10]	ug/L	1	0.070	24	
DCAA (SURR**)		97.8%					· · · · · · · · · · · · · · · · · ·
** Surrogates are used to	o evaluate a method's Quality Control.		•				•

	NORTHER	N LAKE S	ERVICE,	INC. FIE	LD GROUN	DWATER M	ONITORIN	G RECORD	)			
NLS Laboratory Number	404990	401.991	406992	401993	40694	404995	400996	406997	404998	404999	407000	407001
Facility: Natural Resource Technology	PMW-18	MW-18	MW-2	MW-4	PMW-17	MW-17	PMW-14	MW-12	MW-13	/ MW-8	MW-3	MW-6
C M Christensen Co. pg 1 of 2												
DNR: ID#										_		
Well Condition (see key)	serbut	oK	See OK	See if	OK	OK	W. a.K	Nonc	hewed	broky hus/	Lock	oK
Pipetop Elevation (ft. MGVD)	1690.68	1690.74	1714.54	1689.63	1686.68	1686.98	1712.40	1711.09	1703.06	1703.50	1692.87	1691.52
Depth to Water (ft.)		63	29.68	5.81	208	3,54	27.46	2616	7.21	1634	7.38	6.51
STATIC WATER ELEVATION		168401	1684.86	1683.82	168460	168344	1684.94	1684.93	1695.85	168716	1685.40	1685.01
Depth to Well Bottom (££.)	37.7	15.9	37.3	35.3	36.7	16.1	47.1	31.7	21.2	23.3	20.1.	15.1
Standing Water Column (ft.)				19.49								8.59
Standing Water Volume (gal.)				3.33								1.46
Purging Methods (see key)				HB								HB
Purge Info. (see key) (4 Vol.)				Pulse			·					PD04
Volume Purged (gal.)				133								2.7
Appearance During Purging				3/t. Silly								Sitty
FIELD COLOR (describe)				NV								NO
FIELD CONDUCTIVITY (umho @ 25C)							'		·			
Field Filtered (Y/N describe)				ио								ио
FIELD ODOR (describe)				ND								ND
FIELD pH (standard units)												
FIELD TEMPERATURE (degree C)												
FIELD TURBIDITY Quantity				Fixt.		~						not
Texture				Pine								fine
Color				Jan Brown								tan brown
Purge Time-if not immed.					-				·			
TIME SAMPLED	946	959.	1626	1138	1051	1054	1206	1209	1149	1158	1014	1318
DATE SAMPLED	[30ld											-

The following	ng into	ormation applies to	samples on	the re	verse side of this s	neet.
Date 5	1/22	lac	* -			
Date	1001	0	Date			
	P	n Smith		o) :		
Crew Chief_		Coming	Crew-	Chief_		
Crew			Crew			
Weather/Com	ments:	DUCTCES	<i>T</i>			
m s	d 70	3-40 803				
			157			
	PMU	04 DTB-4	J. /			
					•	
	77		E COLLECT			
PMW	18 -	akey is	broken	a for	- inside loc	. 1
		coolant o		O y 1	17. 5. 6 76(	
10	~ .4	2007WICE D	pen,	•		
nw 2	- 7	rew lock - big	Silver	mast.	clock which	Idal
	at 1	ey for it, it	torned	-1.1	ule hillian	in a cid
	har	Mer + wo	DIDA'T	77	Tois	15 with
So. 111				peni	Tried agai	n - Succeeded
1 MW4 -	2	-wells unlab	eled in	a P.D.	area both	1 2120 000
					7 00/4	Q 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
かり	WYD	TB is 16.9 - Ca	Med H	ardy	S. left mes	5594c at 1041
Harda	-/\= 0	half = 2 New	wells pot	الم كري	a ANR - MW4 an	1 5 64 de 54 de
P	avien		SAMPLE C	USTODY	g DNR - MW4 gon	or south statusion
RELINQUISH	ED BY	imature) RECET	VED BY(signature	1	DATE/TIME	
			(	•		
RECEDVED A	TNLS	BY(signature) 7 D	ATE/TIME		CONDITION	TEMP.
Van D		1 5/2N	06 /630		Gosp	1
REMARKS &	OTHER	INFORMATION 7/04	00 7.0			Un re
			•			
		·	· · · · · · · · · · · · · · · · · · ·	*****		
		KE	Y OF ABBR	EVIATI	CONS	1
Purging Method:	НВ	hand bailed Purging In	fo: P-X	purged (X	() volumes	
	PB	power bailer		Dry	purged dry	
	DP PP	deep well pump peristallic pump		DD(x) O	level drew down; purged (x) volume of other (explain)	remaining column
					(,,	
Well Condition:	WD NL	well damaged (explain) well not locked				
	NC	no cap on inner casing			•	
	SD - O	seal damaged (explain) other problems (i.e. bent casing, ar	nts in well)			
•	OK	well in good condition	····		···•	
Puroino Annearances	s: descriptio	n (i.e. sandy, cloudy, clear, dark, red, e	etc)			
<b>.</b> .	2300npilo		,			
Filtered: Y or N						

Filterability: G=good, M=moderately good, P=poor, D=difficult, special procedures (explain)

	NORTH	ERN LAKE	SERVICE,	INC. FIELD GROUNDWATE	ER MONITORING RE	CORD		
NLS Laboratory Number	407002	407003	487004	467005				
Facility: Natural Resource Technology	MW-10	PMW-11	PMW-11B	Effluent				
C M Christénsen Co. pg 2 of 2								
DNR ID# .								
Well Condition (see key)	OK	OK	OK	3 .				
Pipetop Elevation (£t. MGVD)	1689.13	1689.25						
Depth to Water (ft.)	5.42	5.54	4.47				·	
STATIC WATER ELEVATION	168371	1683.71		0				
Depth to Well Bottom (ft.)	15.2	30.0	48.5					
Standing Water Column (ft.)	9.78	24.46	4403				-	
Standing Water Volume (901.)	1.67	4.18	7.52					
Purging Methods (see key)	H-B	1 B	HB					
Purge Info. (see key) (4 Vol.)	PHX	PODY	PE	2				
Volume Purged (gal.)	6.6	8.7	30.11	103				
Appearance During Purging	Clory Grande		5:11g	\$0				
FIELD COLOR (describe)	Draw?	NP	Jan	2			·	
FIELD CONDUCTIVITY (umho @ 25C)				2 8 2 8			·	
Field Filtered (Y/N describe)	NO	NO	ио	OM C				
FIELD ODOR (describe)	NI	NB	NO	2				
FIELD pH (standard units)								
FIELD TEMPERATURE (degree C)								
FIELD TURBIDITY Quantity	EX	50	Exh	1.				
Texture	An	the	Ane					
. Color	8 congre	tan	brown					
Purge Time-if not immed.	,					-		
TIME SAMPLED	1308	1343	1447	1505				
DATE SAMPLED	5 30lob		<b>&gt;</b>	5(300) ustody, abbreviation k				

	$\frac{1}{5}$	ormation applie $\partial/\partial b$	es to sar			everse side	of this sh	ieet.	
Date		1		_ Dat	e				
Crew Chief_	R	on SN	1142	_ Cre	w Chief				
Crew				Cre	W				
Weather/Com	ments:	5.0 n 1	V4						
8	00/	1	2						
			,						
*		-						· .	
		S	AMPLE (	COLLEC	TION C	OMMENTS			
							•		
									·
								•	
,									
RELINQUISE	HED BY	signatuxe) I	S <i>I</i> RECEIVED		CUSTOD	Y DATE/T	IME		
RECEIVED A	) _{	EX(signature) INFORMATION	5/80/c	TIME	(30	CONDIT	ion ood	on ice	ر سن در ` ر
			KEY (	OF ABB	REVIAT	IONS			
Purging Method:	HB PB OP PP	hand bailed F power bailer deep well pump perislaltic pump	Purging Info:	P-X	purged () Dry DD(x) O	X) volumes purged dry level drew down; other (explain)	purged (x) volume of r	emaining column	
Well Condition:	WD NL NC SD O OK	well damaged (explain) well not locked no cap on inner casing seal damaged (explain) other problems (i.e. bent well in good condition	casing, ants in w	veli)					
Purging Appearance	s: descriptio	n (i.e. sandy, cloudy, clear, d	lark, red, etc)						
Filtered: Y or N						MASTER	FILE COP	Υ	
Filterability: G=good,		ely good, P=poor, D=difficult rocedures (explain)			PF C(	O: data	FILE COP 1226 granduster)		*

From:

Laurie L. Parsons [lparsons@naturalrt.com]

Sent:

Wednesday, June 21, 2006 3:37 PM

To:

Saari, Christopher A.

Cc:

Robinson, John H.; Eric R. Christiansen; erich@rich-law.com; Richard G. Fox

Subject:

FW: CMC Co. Meeting Agenda

Attachments: 1226CMCSedimentPathwayDraft.pdf

Chris,

This is to confirm that our meeting for tomorrow on the CM Christiansen Co. site will be postponed and to relay an agenda for the meeting.

We understand that Tom Janisch will not be available. Given his significant involvement on the ESI supplement, we will postpone and re-establish available meeting times. Unfortunately Eric Christiansen is essentially not available in July, which is why he was hoping to get this in before then. He will be out of state except weekends from June 26 through August 3. We tried calling you by phone earlier today (easier to schedule), but were not able to reach you.

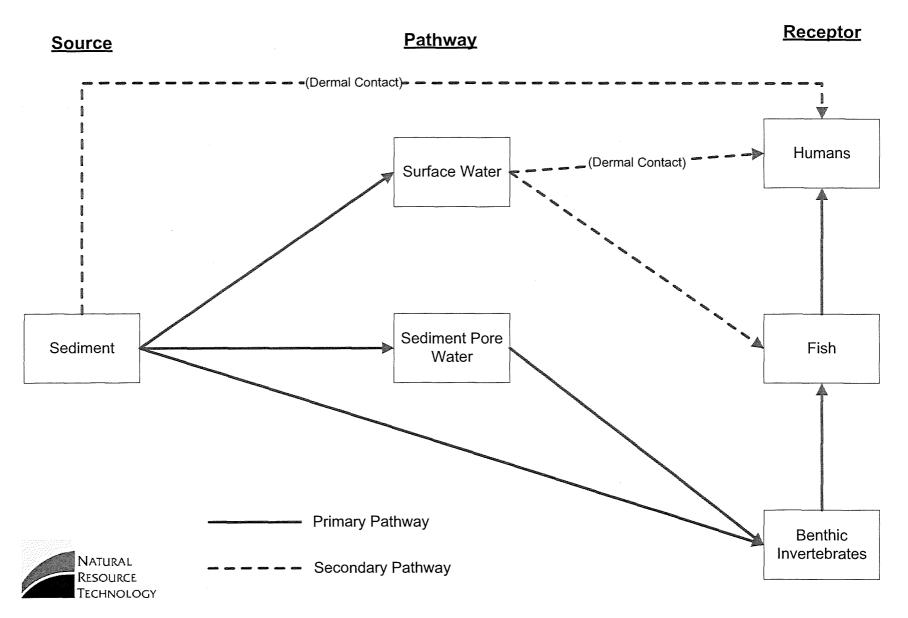
In short, August 7<sup>th</sup> through 25<sup>th</sup> is fairly open for NRT/CMC. Eric indicated he can try to make July 21<sup>st</sup> in Rhinelander work, but would have to juggle a few things to make it up to Rhinelander in time. Rick would have to cancel another commitment, but may be able to do it. Please call or email on re-scheduling this meeting.

Below is the agenda we envisioned for our meeting. Please add any items you have, we can review & revise prior. Also attached is a Conceptual Site Model graphic for discussion under Item 2.

- 1. Overview of ESI Results
  - a. PCP data
  - b. ESI Dioxin data interpretation
- 2. Draft Conceptual Site Model for discussion
  - a. Purpose
  - b. Pathways of concern
- 3. Site Specific Risk Assessment
  - a. Chemicals of concern
  - b. Other anticipated elements
- 4. Work Plan

Laurie L. Parsons, PE
Natural Resource Technology, Inc.
23713 W. Paul Road, Suite D
Pewaukee, WI 53072
262.522.1193 Direct Dial
262.523.9000 General Number
lparsons@naturalrt.com
www.naturalrt.com

# Current CSM for Military Creek Sediments Draft for Discussion



From:

Saari, Christopher A.

Sent:

Friday, May 19, 2006 1:26 PM

To:

Robinson, John H.; Debrock Owens, Michelle

Subject:

CM Christiansen

FYI - I just talked with Laurie Parsons of NRT regarding their proposed meeting. She asked first about this being feebased, and I said it would probably not require a fee because of the Haz Waste Grant commitments. We then agreed that this should be a technical meeting, hence no attorneys, but she will need to discuss this point with Eric Christiansen first to make sure.

Parsons said that they would like to use this meeting to figure out where we left off at our last meeting, and then try to fill in the blanks as far as starting to reach compliance with the Spill Response Agreement. She also said they would like to reach consensus on a work plan approval format so that there will be few, if any, revisions needed to the document. Parsons requested that anyone who might be involved in the sediment portion of the site be present at the meeting, so we are all talking about the same things at the same time. I said that we would like to have Tom Janisch assisting with the reviews, etc., and Parsons thought it important that Janisch be present at our discussion. Parsons also said that they will do a review of existing data as discussed in their letter and get something to us prior to the meeting.

Based on John's and my schedules, I gave her some potential meeting dates (June 21, 22, 23?, 28, 29, 30?) and possible meeting locations (Rhinelander, Wausau, Green Bay, Madison). She will check with Christiansen to find out if any of these dates/places work for him. I expect to hear from her some time early next week.

Chris Saari
Hydrogeologist, Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Telephone: 715-685-2920



Mr. Christopher Saari Wisconsin Department of Natural Resources 2501 Golf Course Road Ashland, WI 54806



May 15, 2006 (1226)

RE: C.M. Christiansen Co., Inc. (CMC), Former Utility Pole Treating Facility, Phelps, Wisconsin

Dear Mr. Saari:

On behalf of C.M. Christiansen Co., Inc. (CMC), Natural Resource Technology, Inc. (NRT) is responding to the February 24, 2006 letter from WDNR regarding the former Poleyard Property in Phelps, Wisconsin. The referenced WDNR letter is a response to CMC's earlier correspondence from June 10, 2005 and asks for a timeline for completion of the following provisions of the April 1998 Spill Response Agreement:

Item No. 4: Military Creek Sampling Start

Item No. 9: Submittal of Military Creek Investigation Report

Item No. 10: Submittal of a Military Creek Remedial Action Options Report

Considering the history of this project and complex technical issues that can face sediment projects, NRT recommends that to the extent possible, further investigation of sediment conditions be performed with collaborative agreement on technical scope and major milestones. With clear understanding of process, objectives and goals upfront in the project planning process, we can then re-establish agreement on technical interpretation of assessments performed to date, and proceed under a WDNR-approved work plan designed to address open items of the Spill Response Agreement. To begin this process, we propose the following:

- 1. Project Re-Start Meeting with WDNR (June/July 2006). Prior to the meeting CMC's technical team will complete their review of available information, and develop an outline of technical discussion points and conceptual content for a Work Plan that supplements the Expanded Site Inspection (ESI) performed by WDNR. The outline will be provided no later than one week in advance of the meeting along with a site conceptual model (CSM) designed to help the team focus on critical pathways of concern, and to establish a framework under which a site-specific risk assessment can be performed. Specifically, we are interested in discussing the conclusions from the ESI Report and concur that further work is necessary to determine whether dioxins in the sediment of Military Creek pose a risk to human health or the environment.
- 2. Supplemental Work Plan (60 days following concurrence on approach). On behalf of CMC, NRT will prepare a Supplemental Work Plan. This plan will be tailored to address the exposure pathways mutually agreed to. The Work Plan will contain a proposed sampling and analysis plan, and schedule for moving the project through the milestones anticipated by Items 4, 9 and 10 of the Spill Response Agreement. Expected scheduling for this work can be discussed in our meeting.

Mr. Christopher Saari, WDNR May 15, 2006 Page 2

We believe that re-establishing project goals in this manner will lead to a more efficient process and proactive decision-making as to how the sediment related concerns at the site should be addressed. We look forward to your response and working with you on the CMC site. Please do not hesitate to contact Eric Christiansen or NRT should you have any questions on our proposed approach for this project.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

Richard G. Fox

**Managing Scientist** 

Laurie L. Parsons, PE

Principal Engineer

Cc:

Ms. Michelle DeBrock-Owens, WDNR-Northeast Region, Rhinelander, Wisconsin

Mr. Eric R. Christiansen, C. M. Christiansen Co., Inc.

Ms. Elizabeth Gamsky Rich

[P:\1200\1226\Corres\WDNR\CMC 051506 WDNR Letter rev.doc]







### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Scott Hassett, Secretary John Gozdzialski, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-3349 Telephone 715-365-8900 FAX 715-365-8932 TTY Access via relay - 711

March 24, 2006

File Ref.: 4190

CASETRACK #: 2005-NOEE-029

Mr. Eric R. Christiansen 5501 N. Santa Monica Blvd. Milwaukee, WI 53217

Subject: Extension Request

Dear Mr. Christiansen:

The Department is willing to grant your extension request. Please respond to the Department's February 24, 2006 letter by May 15, 2006.

If you have any questions, please call me at 715-365-8935. If you have any technical questions concerning the case, please contact Chris Saari at 715-685-2920.

Sincerely,

Michelle DeBrock-Owens

**Environmental Enforcement Specialist** 

c: Enforcement File, Rhinelander CASETRACK File, Rhinelander Chris Saari, Ashland

John Robinson, Rhinelander

Deb Johnson, LS/5



### C.M. CHRISTIANSEN CO., INC.

MILWAUKEE.

5501 NORTH SANTA MONICA BLVD.

MILWAUKEE, WI 53217

TEL: (414) 963-9211

EMAIL: erc@execpc.com

PHELPS:

1 LAKE STREET

P.O. Box 100

PHELPS, WI 54554

TEL:

(715) 545-2333

FAX:

(715) 545-2334

SENT BY FAX & REGULAR MAIL

March 19, 2006

Ms. Michelle DeBrock-Owens Wisconsin Dept. of Natural Resources 107 Sutliff Avenue Rhinelander, WI 54501-3349

Re:

Your February 24, 2006 letter

Dear Ms. DeBrock-Owens:

We have received your February 24, 2006 letter. We respectfully request an extension of the time you have given us to respond, until May 15, 2006.

We are currently in litigation with our insurance company, which has denied coverage relating to environmental claims related to the Poleyard. Our suit against them, filed last fall, demanded they assume the defense of this action and requested reimbursement for prior expenses incurred. This has been met by their countersuit seeking declaratory relief. Since last November, we have been attempting to schedule a mediation hearing on these actions.

Our environmental consultants have not been paid for some time and are naturally reluctant to proceed without some assurance that past-due invoices will be paid and that future work will be compensated. We cannot respond to your letter without significant assistance from them. If we resolve (one way or the other) issues with our insurance company, we will be able to address not only the substance of WDNR's environmental concerns but also specifically respond to your comment that WDNR might consider taking on this case as a state lead project.

We believe we are close to reaching an accommodation with the insurance company, and respectfully request this extension to enable us to complete that effort.

If you have any questions, please don't hesitate to contact me.

Very truly yours,

C.M. CHRISTIANSEN CO., INC.

Eric R. Christiansen, President

CC:

P.C. Christiansen
Laurie Parsons, NRT
Elizabeth Gamsky Rich, Esq.
Jeffrey O. Davis, Esq.
Chris Saari, WDNR

Mar 19 06 09:43p

Christiansen

C.M. CHRISTIANSEN CO., INC.

MILWAUKEE.

5501 North Santa Monica Blvd.

MILWAUKEE, WI 53217

Tel: (414) 963-9211

EMAIL: erc@execpc.com

PHELPS.

1 LAKE STREET

P.O. Box 100

PHELPS, WI 54554

(715) 545-2333 TEL:

(715) 545-2334 FAX:

SENT BY FAX & REGULAR MAIL

March 19, 2006

Ms. Michelle DeBrock-Owens Wisconsin Dept. of Natural Resources 107 Sutliff Avenue Rhinelander, WI 54501-3349

Your February 24, 2006 letter

7671 Post-it\* Fax Note Phone # Fax # Fax #

Dear Ms. DeBrock-Owens:

We have received your February 24, 2006 letter. We respectfully request an extension of the time you have given us to respond, until May 15, 2006.

We are currently in litigation with our insurance company, which has denied coverage relating to environmental claims related to the Polevard. Our suit against them, filed last fall, demanded they assume the defense of this action and requested reimbursement for prior expenses incurred. This has been met by their countersuit seeking declaratory relief. Since last November, we have been attempting to schedule a mediation hearing on these actions.

Our environmental consultants have not been paid for some time and are naturally reluctant to proceed without some assurance that past-due invoices will be paid and that future work will be compensated. We cannot respond to your letter without significant assistance from them. If we resolve (one way or the other) issues with our insurance company, we will be able to address not only the substance of WDNR's environmental concerns but also specifically respond to your comment that WDNR might consider taking on this case as a state lead project.

We believe we are close to reaching an accommodation with the insurance company, and respectfully request this extension to enable us to complete that effort.

If you have any questions, please don't hesitate to contact me.

Very truly yours,

CHRISTIANSEN CO., INC.

Eric R. Christiansen, President

CCI

P.C. Christiansen Leurie Parsons, NRT Elizabeth Gamsky Rich, Esq.

Jeffrey O. Davis, Esq. Chris Saari, WDNR



### State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor Scott Hassett, Secretary John Gozdzialski, Regional Director Northern Region Headquarters 107 Sutliff Ave. Rhinelander, Wisconsin 54501-3349 Telephone 715-365-8900 FAX 715-365-8932 TTY Access via relay - 711

February 24, 2006

File Ref.: 4190

CASETRACK #: 2005-NOEE-029

Mr. Eric R. Christiansen 5501 N. Santa Monica Blvd. Milwaukee, WI 53217

Subject: Remedial Alternatives for Dioxin and April 1998 Spill Response Agreement Activities

Dear Mr. Christiansen:

The Department is writing today in response to some of the issues raised in your letter of June 10, 2005. This is not intended to be a point-by-point response to your letter, but we believe that it does address the issues that you raised.

The first issue in your letter relates to the Expanded Site Inspection Report prepared by the Department, and that report's lack of recommendations. To respond to this issue, you must first understand the purpose of that report, which was "to collect information concerning conditions at the C.M. Christiansen - Pole Yard sufficient to assess the threat posed to human health and the environment, and to determine the need for additional investigation under CERCLA or other authority, and if appropriate, support site evaluation using the Hazard Ranking System (HRS) for proposal to the National Priorities List (NPL)." The Department's intent in conducting the Expanded Site Inspection (ESI) was not to come up with a listing of specific investigative or remedial actions needed at the site, but rather to determine the types of threats posed by site contaminants, to determine whether further investigation is needed, and to determine if the site scored high enough to be included on the NPL as a potential Superfund site. Appendix D of the report describes the Department's findings of the high risk posed to the environment by the contaminated sediments. Furthermore, based on your discussions with Department staff at the offices of Natural Resource Technology on February 15, 2005, it should be apparent that the Department believes that additional investigation and remedial evaluation of Military Creek sediments are needed. It is not the Department's role under the ch. NR 700, Wis. Adm. Code process to recommend or require specific investigative or remedial actions; that role falls to the party or parties responsible for the contamination.

As was agreed to at the February 15, 2005 meeting, the Department has done some research into remedial alternatives for dioxins, and we have found that there may indeed be feasible alternatives available. We have discussed this site in general terms with the following individuals, and they have indicated, at least conceptually, that remedial options for dioxins do exist. These individuals would be willing to share their knowledge of different remedial approaches to this class of contaminants.

- Bill Lundy DeepEarth Technologies, Inc., 12635 Kroll Dr., Alsip, IL 60803, telephone (708) 396-0100, e-mail <u>wlundy@cool-ox.com</u>
- Ian T. Osgerby, Ph. D., PE US Army Corps of Engineers, telephone (978) 318-8631, e-mail ian.t.osgerby@usace.army.mil
- H. Eric Nuttall, Ph. D. University of New Mexico, telephone (505) 277-6112, e-mail <u>nuttall@unm.edu</u>



In addition, we shared the ESI sediment dioxin results with Rick Pager of Waste Management, Inc., and discussed the potential for landfill disposal of dredged sediments. Mr. Pager indicated that, based on his comparison of the dioxin results with Michigan Department of Environmental Quality regulations, the reported dioxin concentrations would not preclude these sediments from being disposed of in Waste Management's K&W Landfill. Mr. Pager can be reached at telephone (262) 250-8386 if you would like to discuss this issue directly with him.

Based on the above discussions, the Department believes that there are potentially viable remedial options to address the contaminated sediments. Consequently, we feel that the Military Creek investigation and remedial action options analysis required in the April 1998 Spill Response Agreement need to be completed. Specifically, complete the investigation of Military Creek (the Department only completed a screening and not a complete extent and degree investigation) as required in number 4 and 9 of the agreement and submit a completed Remedial Actions Option Report as required in number 10 of the agreement. Please respond to the Department within 30 days, indicating when the C. M. Christiansen Company can follow through and complete items 4, 9, and 10 of the Spill Response Agreement.

The Department is still willing to follow through with the ability-to-pay procedures as outlined in Chris Saari's March 24, 2005 letter to you, if you feel the Company cannot pay for the remaining work as outlined in 4, 9, and 10 of the Spill Response Agreement. If the C.M. Christiansen Company is unable or unwilling to complete the remaining work, the Department will consider taking on this case as a state lead project. The Department does pursue cost recovery, where warranted, on state lead projects. As mentioned in my May 13, 2005 letter, the Department will consider the C.M. Christiansen Company to be in violation of the Spill Response Agreement if items 4, 9, and 10 are not completed and the Company is unable to show inability to pay.

If you have any questions concerning this letter, please call me at 715-365-8935. If you have any technical questions concerning this case, please contact Chris Saari at 715-685-2920.

Sincerely,

Michelle DeBrock-Owens

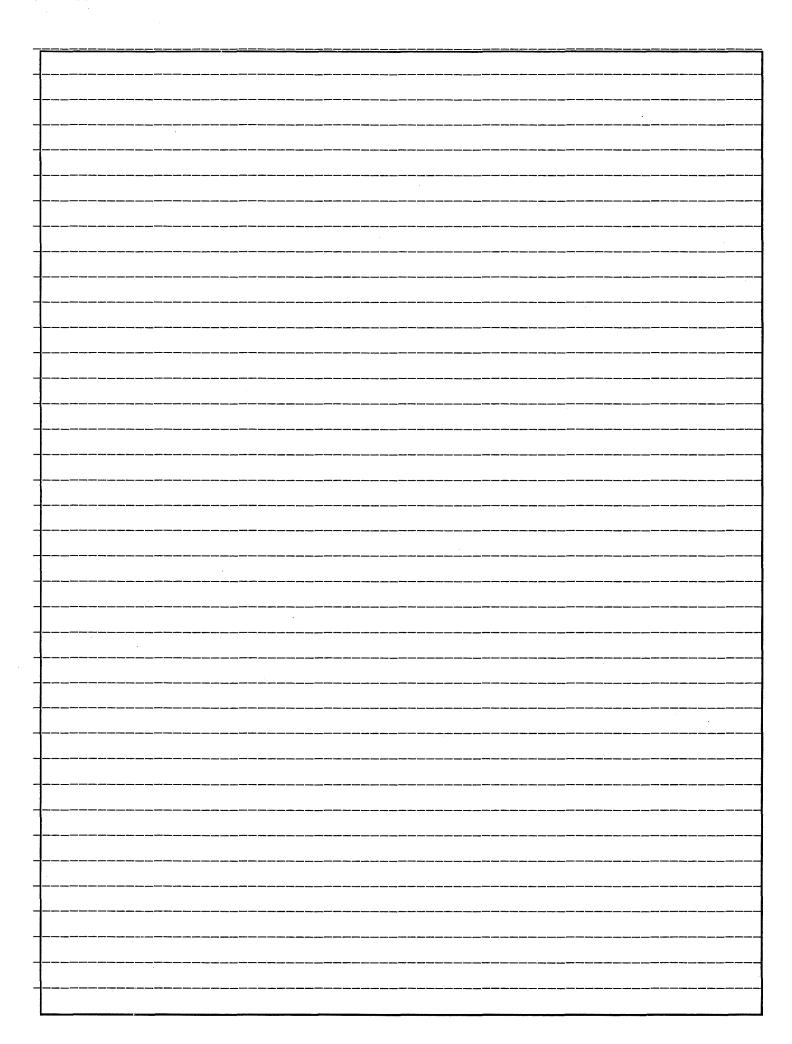
Environmental Enforcement Specialist

c: Enforcement File, Rhinelander CASETRACK File, Rhinelander Chris Saari, Ashland John Robinson, Rhinelander Deb Johnson, LS/5



## PHONE CONVERSATION RECORD

DATE:2/3/06 TIME:0949 hrs
CONVERSED WITH: Kick Pager Waste Management itnc. 262/250-8386
262/250-8386 888/964-4700x104
SUBJECT/PROJECT: CM Chry's transen
UNIQUE ID#.: 02-64-000068
Pager called to discuss the sediment dioxin results from DNR's Expanded Sote Inspection, which I had e-mailed to
DNR's Expanded Sote Inspection, which I had e-maded to
Pager yesterday Pager had questions about the meaning of the TCE column on the tobles Texplained that TEF was a toxicity normalization in relation to 23,7,8-TCDD form of dioxin.
The 10th collemn on the to bles & explained that 16th loas a to xreity
Morma litation in relation to 43, t, 8-TCDD form of dioxin
I then explained to Pager why I was looking at potential landfill
disposal of these sediments, and the fact that the CM Christianson
Co. said disposal was not an option. Pager suid that the Michigan
Dept- of Environmental Quality has a state-only hazardous waste
listing for 2,37,8-TODD (0025) which prohibits disposal of waste
with greater than Ippm. Pager said the results I emaded to him are
nowhere close (pot vs. ppm) to the limit, so lagor did not think these seediment would be excluded for land till disposal
schiment would be excluded for tond "I'M disposar
I told Pager that DNR would be willing to conthristiansen, and asked if Pager would mind DNR in cluding this discussion in our letter. Pager said that was OK with him.
if Pager would mind DNR in cluding this discussion in our letter.
pager said that was OK with him.
Signature:
(please write legibly)



From:

Saari, Christopher A.

Sent:

Wednesday, January 11, 2006 11:16 AM

To:

'ian.t.osgerby@usace.army.mil'; 'nuttall@unm.edu'; 'dcassidy@ggl.ulaval.ca';

'tddgator@aol.com'

Cc:

Robinson, John H.

Subject:

Remedial Options for Dioxins

### Good Morning:

I was provided with your names during a December phone conversation with Bill Lundy of DeepEarth Technologies, Inc.; I believe that Mr. Lundy also included you on an electronic summary of that conversation back to me and my supervisor. What I spoke with Mr. Lundy about in December, and the issue on which I was hoping to gain some insight from you, is as follows:

I am overseeing the investigation and cleanup of a former wood treating facility in northern Wisconsin. The facility treated power poles with a 5% pentachlorophenol - 95% fuel oil solution. The facility was located adjacent to a stream classified by Wisconsin DNR as a trout stream; approximately 1,400 feet downstream of the facility, the stream discharges to a lake classified as an Outstanding Resource Water (i.e., no contaminant discharges are allowed). WDNR is for the most part satisfied with the investigation and cleanup of the soil and groundwater pathways, but only limited information is available on sediment/surface water quality in the stream.

The sediment data we do have available (collected by WDNR as part of a Superfund Expanded Site Inspection) indicates the presence of dioxins. In terms of TCDD -TEQ, the dioxin concentrations exceed Highly Probably Risk and/or Probable Risk criteria for adverse impacts on benthic macroinvertebrates, and WDNR has asked the responsible party to conduct further investigation of the stream and evaluate potential remedial options. The responsible party has replied that, because there are no disposal sites available for dioxin-contaminated sediments, there is no reason why they even need to define the extent of sediment contamination. In sort of a circular argument, WDNR has responded that a "do nothing" approach may well be the ultimate solution here, but we cannot know that that would be an acceptable approach until the extent of contamination is known and possible remedial options have been explored. The bottom line for WDNR is it would not be possible for us to, in essence, write off contamination in this stream without the supporting technical background for making that decision.

Mr. Lundy provided me with some useful information about remedial technologies to address dioxins, and he suggested that I discuss with you your experience in dealing with these contaminants. I would be very interested in either speaking with you directly or corresponding by e-mail to gain your insight on potential remedial options, so that I could then share this information with the responsible party and hopefully move us beyond the point at which we are now stalled. If you would have some time available to discuss this issue with me, please either give me a call or reply by e-mail with a time that would be convenient for me to call you. Thank you in advance for your assistance!

Chris Saari

Hydrogeologist, Remediation & Redevelopment Program

Wisconsin Department of Natural Resources

Telephone: 715-685-2920

E-mail: Christopher.Saari@dnr.state.wi.us

From: William Lundy [wlundy@cool-ox.com]

Tom: William Earlay [Wallay @ 0001 0x.0011]

Sent: Tuesday, December 27, 2005 11:17 AM

To: Robinson, John H.

Cc: Saari, Christopher A.; reed.t@comcast.net; robin@cool-ox.com;

ian.t.osgerby@usace.army.mil; nuttall@unm.edu; 'Daniel P. Cassidy Ph. D.';

tddgator@aol.com; wwiley@cool-ox.com

Subject: Abstract of 12-19-05 telecon

Attachments: Telecon John Robertson 12-19-05.doc

#### John/Chris:

I trust this finds you well after the Christmas rush. Attached please find a quick synopsis of the points I covered during our telecon on 12/19. The people I have listed as contacts are very knowledgeable and have a superior understanding of not only what can be done to mitigate a variety of contaminant situations but, are "field schooled" in the applied aspects of what works. Tom Douglas has had 14 years of experience as a regulator with the Florida DEP and has used us on at least twenty sites. He can relate to the circumstances you are faced with. Thank you again for your time and for giving us the opportunity to help. Please keep us in mind and informed as the work continues at CPY and other sites in Northern Wisconsin. I am very interested in tracking the Railroad tie grinding sites and other wood treating sites. We can address chlorophenolic and creosote compounds more affectively than any other technology that I know of to date. Have a happy, safe and prosperous new year,

Bill Lundy

DeepEarth Technologies, Inc.
12635 Kroll Dr.
Alsip, IL 60803
ofc. (708)396-0100 - fax(708)396-0111
cell (312)909-3667
w.lundy@comcast.net
www.deepearthtech.com

### Abstract of Telecon

John/Chris:

Thank you for taking the time to discuss the CM Christianson Pole Yard (CPY) site and relating the dilemma you face with the ongoing forensic study. It was very nice to hear that Jim Cummings had referred me to you as an expert in the remediation of PCP and dioxins. He may have overstated my abilities and experience but, it was very kind of him.

May I assure you that the principals at the CPY site are not the only ones that are attempting to use the argument that; "since there is no technology available to mitigate dioxins, therefore, there is no good reason to continue to assess the extent of the problem." This argument is not quite legitimate. In reality, there are technologies (incineration) that can deal with dioxins however, the expense of such an undertaking is usually so overwhelming the solution is not economically practical.

As an example, in 2000, I was called upon to attempt to remediate (in-situ) a small site in Indiana. The contaminants were the herbicides 2,4-D; 2,4-DP; 2,4,5-T as well as a number of single and double ring (ether linked) chloro-phenolic manufacturing by-products. These compounds were land banned and therefore, incineration or land-fill in Canada were the only disposal options. The least expensive price of disposal was circa \$350,000. Our price at the time was approximately \$50,000. This did not nearly cover our total costs but, the project was very worth while because it provided a small scale field opportunity to test the evolution of our chemox technology to that point. A NFA letter was issued by the State and the site closed. The point being is that there was technology available and now it is available at a reasonable price. As I mentioned on the phone, we also just received word that the large site we treated in California two years ago has been issued a NFA letter by the California Regional Water Quality Control Board, North Coast Region.

The point that Chris made; that you are obligated to investigate the environmental circumstances remaining at the CPY site and attempt to assess their affect on public health is well taken. I believe that from the regulatory standpoint, this is imperative. However, as I stated, even though you find contaminants at high enough concentrations to be measured, it may not be practical to pursue an ISCO remedy. If the concentrations are extremely low, we would have to inject a higher volume of oxidizer simply to increase the probability of molecular contact. I am sure that at the California site we achieved success through a combination of chemox and bio attrition. Cassidy has demonstrated in the laboratory that after (and even during) our Cool- $Ox^{TM}$  oxidation reaction phase of treatment, bio factors become very evident.

The contact people I mentioned that have a high degree of understanding and are field results oriented are:

Ian T. Osgerby, Ph. D., PE – USACE - (978) 318-8631 - <u>ian.t.osgerby@usace.army.mil</u> H. Eric Nuttall, Ph. D., U. of New Mexico - (505) 277-6112 - <u>nuttall@unm.edu</u> Dan Cassidy, Ph. D., U. of Laval, Canada - (418) 656-2131 ex 8720 - <u>dcassidy@ggl.ulaval.ca</u> Tom Douglas, PE, In-Situ Scientific Inc., - 850-712-1811- <u>tddgator@aol.com</u>