

closed
02-64-000206

*Re scored due to
surface water contamination
3-1-93*

D. # 206

District: NCD County: Vilas Co.
Site Name: C.M. Christiansen #2
1/4 Mile NE of Hwy 17 E
Address: Phelps WI 54554
Legal Municipality: _____
(T) V C

Case No.: 8908206 PMN: _____
FID: _____
Proj. Mgr: _____
Support Person: _____
Legal Desc: SE 1/4 SW 1/4 Sec 35, T 42N, R 11E
Lat: N _____ Long: W _____

Date of Discovery: 08129189

Date of RP Contact: 1 1

PRIORITY SCREENING:
 1 = High
 3 = Low
 4 = Unknown
RE-SCORE
22 40

FUNDING SOURCE:
 1 = RP
 2 = LTF
 3 = EF
 4 = SF
 5 = None
 6 = Other (Describe in Comments)
 7 = EPA Emergency Resp.

ENFORCEMENT AUTHORITY:
 1 = Spill Law s. 144.76, Wis. Stats.
 2 = Envir Repair Law s. 144.442, Wis. Stats.
 3 = Hazardous Waste Rules NR 600 Series
 4 = Solid Waste Rules NR 500 Series
 5 = CERCLA
 6 = Abandoned Container s. 144.77, Wis. Stat.
 7 = Other (Describe in Comments)

PROGRAMS INVOLVED: (L - LEAD S - SUPPORT)
 Aban Containers NR 500 Solid Waste Water Supply
 Lust Spills Water Resources Mgt
 NR 600 Hazardous Waste Superfund Env. Repair

RESPONSIBLE PARTY:
Business Name: C.M. Christiansen
Owner/Mgr.: P.C. Christiansen
Address: P.O. Box 100
Phelps WI 54554
Phone: 715 1 545-2333
Contact Person: _____

Business Name: _____
Owner/Mgr.: _____
Address: _____
Phone: _____
Contact Person: _____

	KNOWN IMPACTS (X)	POTENTIAL IMPACTS (X)
Threat		
Fire/Explosion threat (1)	_____	_____
Contaminated Private Well (2)	_____	_____
Contaminated Public Well (3)	_____	_____
Groundwater Contamination (4)	_____	_____
Soil Contamination (5)	<u>X</u>	_____
Direct Contact (10)	_____	_____
Contaminated Surface Water (7)	<u>X</u>	_____
Contaminated Air (8)	_____	_____
Other (6)	_____	_____

CONSULTANT INFORMATION:
Company: White Water Assoc
Contact Person: _____
Address: P.O. Box 27
Amasa, MI 49903
Phone: 906 822-7889
(at additional on separate sheet & attach)

Company: _____
Contact Person: _____
Address: _____
Phone: _____

GROUNDWATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).	0 45	1		45	sub. (1)
(2) Route Characteristics					sub. (2)
Depth to Groundwater	0 1 2 3	2	6	6	
Infiltration Potential	0 1 2 3	1	3	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	3	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			14	15	
(3) Containment	0 1 2 3	1	3	3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1	10	10	
Waste Quantity/Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics Score			14	26	
(5) Potential Impacts					sub. (5)
Groundwater Use	0 1 2 3	3	2	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 38 40	1	30	40	
Total Potential Impacts			32	49	
(6) If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)			21168	57330	
(7) Divide line (6) by 57,330 and multiply by 100			S _{gw} = 36.92		

SURFACE WATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).	0 45	1	45	45	sub. (1)
(2) Route Characteristics					sub. (2)
Facility Slope and Intervening Terrain	0 1 2 3	1	3	3	
Run-off Potential	0 1 2 3	1	3	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			15	15	
(3) Containment	0 1 2 3	1	3	3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1	10	10	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Waste Characteristics Score			14	26	
(5) Potential Impacts					sub. (5)
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	6	6	
Population Served/Distance to Water	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	40	40	
Intake Downstream	24 30 32 35 40				
Total Potential Impacts			12	55	
(6) If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)			7560	64350	
(7) Divide line (6) by 64,350 and multiply by 100			S _{sw} = 11.75		

AIR ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release Date and Location: Sampling Procedures: If line (1) is 0, then S _a = 0, Enter on line (5). If line (1) is 45, then proceed to line (2).	0 45	1		45	sub. (1)
(2) Waste Characteristics					sub. (2)
Reactivity and Incompatibility	0 1 2 3	1	3	3	
Toxicity	0 1 2 3	3	9	9	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1	8	8	
Total Route Characteristics Score			20	20	
(3) Potential Impacts					sub. (3)
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1	30	30	
Distance to Sensitive Environment	0 1 2 3	2	6	6	
Land Use	0 1 2 3	1	3	3	
Total Potential Impact Score			39	39	
(4) Multiply (1) X (2) X (3)				35,100	
(5) Divide line (4) by 35,100 and multiply by 100			S _a = 0		

$$S_M = \frac{1}{1.73} (S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5}$$

where: S_{gw} = groundwater route score
S_{sw} = surface water route score
S_a = air route score

SCORE 22.40

ERP MIGRATION SCORE

Site or Facility Name: C.M. Christiansen #2 (barrels)

Location: 1/4 Mile NE of Hwy 17 on Hwy E, Phelps, WI 54554

DNR District: NCD

Person(s) in charge of the site or facility: P.C. Christiansen, P.O. Box 100,
Phelps, WI 54554 (715) 545-2333

Name of Reviewer: Joan Loduha

Date: March 1, 1993

General description of the site or facility:

(For example: landfill, surface impoundment, waste pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Re-scored 3/1/93 due to information of surface water contamination.

On Aug. 29, 1989 an anonymous caller complains of drums spillage. DNR employees inspect on Aug. 31, 1989. 33 unlabeled drums were found. Some drums containing liquid were observed as damaged, rusted and leaking. Letter sent to Christiansen to secure area, sample and repack drums and store in a safe location until disposal. Also requests additional site study and if necessary, remediation. On Sept. 19, 1989 DNR sampled. On Oct. 11, 1989 DNR request Christiansen to hire consultant and study site. White Water Assoc. tests all barrels; found two compounds, these two being stain and varnish. Tested for total VOCs, PCBs and EP tox metals. Detects of: Methylene chloride, Ethylbenzene, Toluene, m-xylene, O & P xylene and lead.

Site is approximately 120 feet from stream and wetland area.

Phelps population = 1200.

Per water resources of Upper WI River Basin: Thin lenses of sand and gravel within are beneath till or clay. Area is mostly rolling ground moraine but includes one area of hilly terrain.

SCORES: Sm = 22.40 (Sgw = 36.92 Ssw = 11.75 Sa = 0)

EF COVER SHEET

WORKSHEET FOR COMPUTING
THE MIGRATION SCORE, S_m

	<u>S</u>	<u>S²</u>
GROUNDWATER ROUTE SCORE (S_{gw})		
	36.92	1363.09
SURFACE WATER ROUTE SCORE (S_{sw})		
	11.75	138.96
AIR ROUTE SCORE (S_a)		
	0	
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1501.15
$(S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5}$	38.74467705	
$(S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5} / 1.73$	$S_m = 22.40$	

WISCONSIN ENVIRONMENTAL FUNDING
REFERENCE SUMMARY

Site or Facility Name: C.M. Christiansen #2
Location: City Phelps County Vilas DNR District NCD

Reference Identification Number	Description of Reference
<u>#1</u>	<u>WDNR Rhinelander & Wausau Files</u>
<u>#2</u>	<u>Quad TOPO Map Phelps</u>
<u>#3</u>	<u>Population list of Recycling Grants 7/90</u>
<u>#4</u>	<u>State Natural Areas by County</u>
<u>#5</u>	<u>Chapter NR 26 Fish Refuges</u>
<u>#6</u>	<u>Water Resources of WI Upper WI River Basin</u>
<u>#7</u>	<u>State Lab of Hygiene (Surface Water Info)</u>

State Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director

S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790
Organic chemistry (#1 of 4 on 01/27/93, unseen)

Id: 643404 Point/Well/...: Field #: G-3-92 Route: WR70
Collection Date: 09/28/92 Time: 11:05 County: 64 (Vilas)
From: MILITARY CREEK, DOWNSTREAM OF HWY E BELOW POLE YD., DRYING AREA
Description: EAST SIDE OF STREAM - IMPACT SAMPLE
To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166

Collected by: JIM KREITLOW

Date Received: 11/18/92

Labslip #: OD001743

Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	+ 0.64	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	C	
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+ 126000.	UG/G, DRY
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY - PREP	C	

--- Footnotes ---

+: Positive results are prefixed by a plus sign.

State Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790
Organic chemistry (#2 of 4 on 01/27/93, unseen)

Id: 643405 Point/Well/...: Field #: G-2-92 Route: WR70
Collection Date: 09/28/92 Time: 10:20 County: 64 (Vilas)
From: MILITARY CR, DOWNSTREAM OF FOOTBRIDGE BELOW POLE YD DRYING AREA
Description: NORTHSIDE OF CREEK ABOVE HWY E - IMPACT SAMPLE

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166

Collected by: JIM KREITLOW

Date Received: 11/18/92

Labslip #: OD001744

Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	+ 0.05	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	C	
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+ 11400.	UG/G, DRY
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY - PREP	C	

--- Footnotes ---

+: Positive results are prefixed by a plus sign.

State Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director

S.L. Inhorn, M.D., Medical Director

Environmental Science Section (608) 262-2797 DNR LAB ID 113133790
Organic chemistry (#3 of 4 on 01/27/93, unseen)

Id: 643406 Point/Well/...: Field #: G-1-92 Route: WR70

Collection Date: 09/28/92 Time: 10:00 County: 64 (Vilas)

From: MILITARY CR, UP GRADIENT OF POLE YD. DRYING AREA

Description: NATURAL BACKGROUND SAMPLE - SOUTHSIDE OF STREAM

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166

Collected by: JIM KREITLOW

Date Received: 11/18/92

Labslip #: OD001745

Reported: 01/26/93

---- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL <0.10 UG/G, DRY

2,4,5-TRICHLOROPHENOL <0.10 UG/G, DRY

PENTACHLOROPHENOL (PCP) <0.02 UG/G, DRY

PHENOLS EXTRACTION/DERIVATIZATION C

TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD + 224000. UG/G, DRY

TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY - PREP C

--- Footnotes ---

+: Positive results are prefixed by a plus sign.

State Laboratory of Hygiene
University of Wisconsin Center for Health Sciences
465 Henry Mall, Madison, WI 53706

R.H. Laessig, Ph.D., Director

S.L. Inhorn, M.D., Medical Director

Environmental Science Section

(608) 262-2797

DNR LAB ID 113133790

Organic chemistry (#4 of 4 on 01/27/93, unseen)

Id: 643403 Point/Well/...: Field #: G-4-92 Route: WR70

Collection Date: 09/28/92 Time: 11:40 County: 64 (Vilas)

From: MILITARY CREEK, 100 FEET ABOVE CONFLUENCE WITH N. TWIN LAKE - BELOW

Description: WATERBODY 1623900

To: LINDA TALBOT

WR/2

Source: Sediment

MADISON, WI

Account number: WR166

Collected by: JIM KREITLOW

Date Received: 11/18/92

Labslip #: OD001746

Reported: 01/26/93

----- test: CHLOROPHENOLS IN SOILS - 1540

2,4,6-TRICHLOROPHENOL	<0.10	UG/G, DRY
2,4,5-TRICHLOROPHENOL	<0.10	UG/G, DRY
PENTACHLOROPHENOL (PCP)	+ 0.03	UG/G, DRY
PHENOLS EXTRACTION/DERIVATIZATION	C	
TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY METHOD	+ 13700.	UG/G, DRY

TOTAL ORGANIC CARBON IN SEDIMENT BY SLURRY - PREP C

--- Footnotes ---

+: Positive results are prefixed by a plus sign.

ERP MIGRATION SCORE

Site or Facility Name: C.M. Christiansen #2 (barrels)

Location: 1/4 Mile NE of Hwy 17 on Hwy E, Phelps, WI 54554

DNR District: NCD

Person(s) in charge of the site or facility: P.C. Christiansen, P.O. Box 100, Phelps, WI 54554 (715) 545-2333

Name of Reviewer: Joan Loduha

Date: January 8, 1992

General description of the site or facility:

(For example: landfill, surface impoundment, waste pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

On Aug. 29, 1989 an anonymous caller complains of drums spillage. DNR employees inspect on Aug. 31, 1989. 33 unlabeled drums were found. Some drums containing liquid were observed as damaged, rusted and leaking. Letter sent to Christiansen to secure area, sample and repack drums and store in a safe location until disposal. Also requests additional site study and if necessary, remediation. On Sept. 19, 1989 DNR sampled. On Oct. 11, 1989 DNR request Christiansen to hire consultant and study site. White Water Assoc. tests all barrels; found two compounds, these two being stain and varnish. Tested for total VOCs, PCBs and EP tox metals. Detects of: Methylene chloride, Ethylbenzene, Toluene, m-xylene, O & P xylene and lead.

Site is approximately 120 feet from stream and wetland area.

Phelps population = 1200.

Per water resources of Upper WI River Basin: Thin lenses of sand and gravel within are beneath till or clay. Area is mostly rolling ground moraine but includes one area of hilly terrain.

SCORES: Sm = 21.91 (Sgw = 36.92 Ssw = 8.62 Sa = 0)

EF COVER SHEET

WORKSHEET FOR COMPUTING
THE MIGRATION SCORE, S_m

	<u>S</u>	<u>S²</u>
GROUNDWATER ROUTE SCORE (S_{gw})		
	36.92	1363.09
SURFACE WATER ROUTE SCORE (S_{sw})		
	8.62	74.30
AIR ROUTE SCORE (S_a)		
	0	
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1437.39
$(S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5}$	37.91292656	
$(S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5} / 1.73$		$S_m = 21.91$

WISCONSIN ENVIRONMENTAL FUNDING
REFERENCE SUMMARY

Site or Facility Name: C.M. Christiansen #2

Location: City Phelps County Vilas DNR District NCD

Reference Identification Number	Description of Reference
<u>#1</u>	<u>WDNR Rhinelander & Wausau Files</u>
<u>#2</u>	<u>Quad TOPO Map Phelps</u>
<u>#3</u>	<u>Population list of Recycling Grants 7/90</u>
<u>#4</u>	<u>State Natural Areas by County</u>
<u>#5</u>	<u>Chapter NR 26 Fish Refuges</u>
<u>#6</u>	<u>Water Resources of WI Upper WI River Basin</u>

Unq.
I.B. # 206

1/8/92

District: <u>NED</u> County: <u>Vilas Co</u>	Case No.: _____ PMN: _____
Site Name: <u>C.M. Christiansen #2</u>	FID: _____
<u>1/4 mile NE of HWY 17 on HWY E</u>	Proj. Mgr: <u>ERP</u>
Address: <u>Phelps WI 54554</u>	Support Person: _____
Legal Municipality: _____	Legal Desc: <u>SE 1/4 SW 1/4 Sec 35, T 42, R 11 (EW)</u>
(T) V C	Lat: N _____ Long: W _____
Date of Discovery: <u>8/29/89</u>	Date of RP Contact: <u>9/1/89</u>

PRIORITY SCREENING: <input checked="" type="checkbox"/> 1 = High <input type="checkbox"/> 3 = Low <input type="checkbox"/> 4 = Unknown	FUNDING SOURCE: <input checked="" type="checkbox"/> 1 = RP <input type="checkbox"/> 2 = LTF <input type="checkbox"/> 3 = EF <input type="checkbox"/> 4 = SF <input type="checkbox"/> 5 = None <input type="checkbox"/> 6 = Other (Describe in Comments) <input type="checkbox"/> 7 = EPA Emergency Resp.	ENFORCEMENT AUTHORITY: <input checked="" type="checkbox"/> 1 = Spill Law s. 144.76, Wis. Stats. <input type="checkbox"/> 2 = Envir Repair Law s. 144.442, Wis. Stats. <input type="checkbox"/> 3 = Hazardous Waste Rules NR 600 Series <input type="checkbox"/> 4 = Solid Waste Rules NR 500 Series <input type="checkbox"/> 5 = CERCLA <input type="checkbox"/> 6 = Abandoned Container s. 144.77, Wis. Stat. <input type="checkbox"/> 7 = Other (Describe in Comments)
PRE-SCORE <u>21</u> <u>91</u>		

PROGRAMS INVOLVED: (L - LEAD S - SUPPORT)

<input type="checkbox"/> Aban Containers	<input type="checkbox"/> NR 500 Solid Waste	<input type="checkbox"/> Water Supply
<input type="checkbox"/> Lust	<input type="checkbox"/> Spills	<input type="checkbox"/> Water Resources Mgt
<input type="checkbox"/> NR 600 Hazardous Waste	<input type="checkbox"/> Superfund	<input type="checkbox"/> Env. Repair

RESPONSIBLE PARTY:

Business Name: <u>C.M. Christiansen</u>	Business Name: _____
Owner/Mgr.: <u>P.C. Christiansen</u>	Owner/Mgr.: _____
Address: <u>PO Box 100</u>	Address: _____
<u>Phelps, WI 54554</u>	
Phone: <u>715 / 545-2333</u>	Phone: _____ / _____
Contact Person: _____	Contact Person: _____

	KNOWN IMPACTS (X)	POTENTIAL IMPACTS (X)
No Threat	_____	_____
Fire/Explosion threat (1)	_____	_____
Contaminated Private Well (2)	_____	_____
Contaminated Public Well (3)	_____	_____
Groundwater Contamination (4)	_____	_____
Soil Contamination (5)	<u>X</u>	<u>X</u>
Direct Contact (10)	_____	_____
Contaminated Surface Water (7)	_____	<u>X</u>
Contaminated Air (8)	_____	_____
Other (6)	_____	_____

CONSULTANT INFORMATION:

Company: <u>White Water Assoc.</u>	Company: _____
Contact Person: _____	Contact Person: _____
Address: <u>PO Box 27</u>	Address: _____
<u>Amasa, WI 49903</u>	
Phone: <u>906 / 822-7889</u>	Phone: _____ / _____

(List additional on separate sheet & attach.)

GROUNDWATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).	0	1	0	45	sub. (1)
(2) Route Characteristics					sub. (2)
Depth to Groundwater	0 1 2 3	2	6	6	
Infiltration Potential	0 1 2 3	1	3	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	2	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score				14	
(3) Containment	0 1 2 3	1	3	3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1		10	
Waste Quantity/Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score				14	
(5) Potential Impacts					sub. (5)
Groundwater Use	0 1 2 3	3	6	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 38 40	1		40	
Total Potential Impacts				30	
If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)				2168 ÷ 57,330 = 57,330	
(7) Divide line (6) by 57,330 and multiply by 100				S _{gw} = 36.92	

SURFACE WATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).	0	1		45	sub. (1)
(2) Route Characteristics					sub. (2)
Facility Slope and Intervening Terrain	0 1 2 3	1	1	3	
Run-off Potential	0 1 2 3	1	1	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score				11	
(3) Containment	0 1 2 3	1	3	3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1		10	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score				14	
(5) Potential Impacts					sub. (5)
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	6	6	
Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40	
Total Potential Impacts				12	
If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)				5544 ÷ 64,350	
(7) Divide line (6) by 64,350 and multiply by 100				S _{sw} = 8.62	

AIR ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release Date and Location: Sampling Procedures: If line (1) is 0, then S _a = 0, Enter on line (5). If line (1) is 45, then proceed to line (2).	0	1		45	sub. (1)
(2) Waste Characteristics					sub. (2)
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Route Characteristics Score				20	
(3) Potential Impacts					sub. (3)
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Potential Impact Score				39	
(4) Multiply (1) X (2) X (3)				35,100	
(5) Divide line (4) by 35,100 and multiply by 100				S _a = 0	

$$S_M = \frac{1}{1.73} (S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5}$$

where: S_{gw} = groundwater route score
S_{sw} = surface water route score
S_a = air route score

SCORE 21 . 91

Spill ID Number
02-64-000206 closed
Y Y M M D D 0-99

Date of Incident <u>8-24-89</u>	Day of Week <u>Tues</u>	Time of Incident <u>10:15 AM</u>	<input type="checkbox"/> A.M. <input type="checkbox"/> P.M.	Reported By (Name) <u>Arny Maly</u>	Telephone Number <u>() - () - ()</u>
Date Reported <u>8-29-89</u>	Day of Week <u>Tues</u>	Time Reported <u>3 PM</u>	<input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.	Agency or Firm Reporting <u>---</u>	Reported thru Div. Emergen. Gov't. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Substance Involved <u>White man</u>	Quantity <u>31</u>	Units <u>drums</u>	Person or Firm Responsible <u>C.M. Christiansen Co.</u>		
Substance Involved	Quantity	Units	Contact Name <u>P.C. Christiansen</u>	Telephone Number <u>(715) 545-2333</u>	
Physical Characteristics <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Semisolid <input type="checkbox"/> Gas			Address - Street or Route <u>P.O. Box 100</u>		
Color _____ Odor _____			City, State, Zip Code <u>Phillips, WI 54554</u>		
Cause of Incident <u>Leaking Drums</u>			Action Taken By Spiller		
Exact Location-Description (intersection, mileage, etc.) <u>1/4 mile NE of intersection of E 617 on E</u>			<input type="checkbox"/> No Action Taken <input type="checkbox"/> No Notification <input type="checkbox"/> Investigate		
County Location <u>Vilas</u>			<input type="checkbox"/> Containment; Type _____		
<u>SE, SW, 35, T 43 N, R 11 E</u>			<input type="checkbox"/> Cleanup; Method _____		
DNR Dist <u>NCD</u>	DNR Area <u>Woodr</u>	Groundwaters Affected <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential			
Surface Waters Affected <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Potential		Name of Surface Water <u>Military Creek</u>			
Date District Notified <u>8-29-89</u>	Day of Week <u>Tues</u>	Time District Notified <u>3</u> <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M.			
District Person Notified <u>Tom Jerow</u>		Telephone Number <u>(715) 369-8110</u>			
Date Investigated <u>8-31-89</u>	Day of Week <u>Thurs</u>	Time Investigated <u>9:30</u> <input checked="" type="checkbox"/> A.M. <input type="checkbox"/> P.M.			
Person Investigating <u>Tom Jerow</u>		Telephone Number <u>(715) 369-8110</u>			
Action Taken By DNR <input type="checkbox"/> No Action Taken <input checked="" type="checkbox"/> Investigation <input type="checkbox"/> Supervise/Conduct Cleanup					
<input checked="" type="checkbox"/> Spiller Required To Take Action; Type <u>repackage drums</u>					
<input type="checkbox"/> Contractor Hired By DNR; Name _____					
<input type="checkbox"/> Amount Recovered _____					
<input type="checkbox"/> 29.29 Enforcement					
Other Agencies on Scene					
Local <u>Wausau</u>					
State _____					
Federal _____					
Person Filing This Report (print name) <u>Tom Jerow</u>					
Signature <u>Tom Jerow</u>					Date Signed <u>8-31-89</u>

Additional Comments:
Material appears to be some type of solvent or paint. I obtained 150 to 200 ppm (meter units) on the Hwy.

02-64-000206

closed

Re-scored due to

surface water contamination 3-1-93

I.D. # 206

District: NCD County: Vilas Co.
Site Name: C.M. Christiansen #2
1/4 Mile NE of Hwy 17 E
Address: Phelps WI 54554
Legal Municipality: _____
(T V C)
Date of Discovery: 08/29/89

Case No.: 8908206 PMN: _____
FID: _____
Proj. Mgr: _____
Support Person: _____
Legal Desc: SE 1/4 SW 1/4 Sec 35, T 42N, R 11E/W
Lat: N _____ Long: W _____
Date of RP Contact: 1/1/93

PRIORITY SCREENING:
 1 = High
 3 = Low
 4 = Unknown
PRE-SCORE
22 40

FUNDING SOURCE:
 1 = RP
 2 = LTF
 3 = EF
 4 = SF
 5 = None
 6 = Other (Describe in Comments)
 7 = EPA Emergency Resp.

ENFORCEMENT AUTHORITY:
 1 = Spill Law s. 144.76, Wis. Stats.
 2 = Envir Repair Law s. 144.442, Wis. Stats.
 3 = Hazardous Waste Rules NR 600 Series
 4 = Solid Waste Rules NR 500 Series
 5 = CERCLA
 6 = Abandoned Container s. 144.77, Wis. Stat.
 7 = Other (Describe in Comments)

PROGRAMS INVOLVED: (L - LEAD S - SUPPORT)
 Aban Containers NR 500 Solid Waste Water Supply
 Lust Spills Water Resources Mgt
 NR 600 Hazardous Waste Superfund Env. Repair

RESPONSIBLE PARTY:
Business Name: C.M. Christiansen
Owner/Mgr.: P.C. Christiansen
Address: P.O. Box 100
Phelps WI 54554
Phone: 715 / 545-2333
Contact Person: _____

Business Name: _____
Owner/Mgr.: _____
Address: _____
Phone: _____ / _____
Contact Person: _____

	KNOWN IMPACTS (X)	POTENTIAL IMPACTS (X)
No Threat	_____	_____
Fire/Explosion threat (1)	_____	_____
Contaminated Private Well (2)	_____	_____
Contaminated Public Well (3)	_____	_____
Groundwater Contamination (4)	_____	<u>X</u>
Soil Contamination (5)	<u>X</u>	_____
Direct Contact (10)	_____	_____
Contaminated Surface Water (7)	<u>X</u>	_____
Contaminated Air (8)	_____	_____
Other (6)	_____	_____

CONSULTANT INFORMATION:
Company: White Water Assoc
Contact Person: _____
Address: P.O. Box 27
Amasa, WI 49903
Phone: 906 / 822-2889
(If additional on separate sheet & attach)

Company: _____
Contact Person: _____
Address: _____
Phone: _____ / _____

GROUNDWATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release	0 45	1		45	sub. (1)
If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).					
(2) Route Characteristics					sub. (2)
Depth to Groundwater	0 1 2 3	2	6	6	
Infiltration Potential	0 1 2 3	1	3	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	3	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			14	15	
(3) Containment	0 1 2 3	1	3	3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1		10	
Waste Quantity/Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score			14	26	
(5) Potential Impacts					sub. (5)
Groundwater Use	0 1 2 3	3	2	9	
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 30 32 35 38 40	1	30	40	
Total Potential Impacts			32	49	
(6) If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)					
(7) Divide line (6) by 57,330 and multiply by 100			2168 ÷ 57,330 S _{gw} = 36.92		

SURFACE WATER ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release	0 45	1	45	45	sub. (1)
If observed release is given a score of 45, proceed to line (4). If observed release is given a score of 0, proceed to line (2).					
(2) Route Characteristics					sub. (2)
Facility Slope and Intervening Terrain	0 1 2 3	1		3	
Run-off Potential	0 1 2 3	1		3	
Distance to Nearest Surface Water	0 1 2 3	2		6	
Physical State	0 1 2 3	1		3	
Total Route Characteristics Score				15	
(3) Containment	0 1 2 3	1		3	sub. (3)
(4) Waste Characteristics					sub. (4)
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Leachate Strength	0 2 4 6 8 10	1		10	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1	2	8	
Total Waste Characteristics Score			14	26	
(5) Potential Impacts					sub. (5)
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	6	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1		40	
Total Potential Impacts			12	55	
(6) If line (1) is 45, multiply (1) X (4) X (5) If line (1) is 0, multiply (2) X (3) X (4) X (5)					
(7) Divide line (6) by 64,350 and multiply by 100			7560 ÷ 64,350 S _{sw} = 11.75		

AIR ROUTE WORKSHEET

Rating Factor	Assigned Value (circle one)	Multiplier	Score	Max. Score	Ref. Section
(1) Observed Release	0 45	1		45	sub. (1)
Date and Location: Sampling Procedures: If line (1) is 0, then S _a = 0, Enter on line (5). If line (1) is 45, then proceed to line (2).					
(2) Waste Characteristics					sub. (2)
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity/Total Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Route Characteristics Score				20	
(3) Potential Impacts					sub. (3)
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Potential Impact Score				39	
(4) Multiply (1) X (2) X (3)			S _a = 0		
(5) Divide line (4) by 35,100 and multiply by 100			S _M = 0		

$$S_M = \frac{1}{1.73} (S_{gw}^2 + S_{sw}^2 + S_a^2)^{0.5}$$

where: S_{gw} = groundwater route score
S_{sw} = surface water route score
S_a = air route score

SCORE 22 . 40