

State of Wisconsin - Department of Natural Resources  
 Substance Release Notification Report (SERTS)  
 Report created on 05/13/2011

SPILL ID# 20110418NE38-1 BRRTS# 04-38-557048

840655-83-04

Incident Date & Time: 04/18/2011 0945	Reported Date & Time: 04/18/2011 1145	BRRTS No: 04-38-557048	Spill ID: 20110418NE38-1
DATCP Reported? No DATCP Transferred? No	NFA Letter Sent? No	ERP Transferred? No	Incident Closed? Yes : 04/29/2011

Location			
Region: NE	County: Marinette	Municipality: MARINETTE, CITY OF	
Facility/Property Name and Street Address: THYSSENKRUPP WAUPACA PLANT 4 MARINETTE 805 OGDEN ST		Description: OUTFALL 001, NONCONTACT COOLING WATER TO MENOMINEE RIVER	
Facility Type: Paper Mill			
Lat/Long:	PLSS:	WTM: X 708877 Y 516337	

Weather Conditions: *add to SOE-MGS-7/12/11*

Responsible Parties			
Name/Address (1): THYSSENKRUPP WAUPACA 1955 BRUNNER DR WAUPACA, WI 54981- (715) 258-6611 x Primary	Contact: JAMES LAWATSCH ENVIRONMENTAL ENGINEER (715) 735-4970 x primary	Other Contact:	Spill Packet:

**Cause**

A DAMAGED HEAT EXCHANGER ALLOWED ABOUT 5 GALLONS OF OIL TO BE RELEASED INTO THE NON-CONTACT COOLING WATER SYSTEM, OF THAT ONLY ABOUT 1.5 GALLONS OF OIL MADE IT TO THE WEIR TO OUTFALL 001 WERE MOST OF IT WAS CONTAINED AND RECOVERED, SO ONLY A SHEEN ENDED UP GETTING INTO THE RIVER

Cause Type: Equipment Failure

Substances						
Name	Other / Comments	Amt Released	Amt Recovered	Type	Color	Odor
Hydraulic Oil		5.0 Gal	5.0 Gal	LIQUID		

Environmental Impacts / Damages			
Environmental Impacts: STORM SEWER SURFACE WATER - Name : MENOMINEE RIVER	Resource Damages: No	Injuries: No	Evacuation: No

Cleanup Actions	
Method	Description
Boom	BOOM IN THE RIVER & WEIR
Shut-down System	SHUT DOWN WATER SYSTEM
Repairs Made	HEAT EXCHANGER REPLACED
Other	SKIMMER

**Cleanup Action Comments**

BOOMS WERE PLACED IN THE OUTFALL WEIR AND RIVER TO CONTAIN THE OIL. MOST OF THE OIL WAS RECOVERED IN THE WEIR, ONLY A SMALL OIL SHEEN MADE IT INTO THE RIVER. THE SYSTEM WAS SHUT DOWN AND REPAIRED.

Contractors Hired	
Name	Description

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Waste Destinations				
Location		Description		
<b>Agencies Notified / On Scene</b>				
Agency		Notified	On Scene	
DNR		X	X	
<b>Additional Comments</b>				
04-29-2011, DNR RECEIVED THE SPILL FOLLOW UP REPORT FROM JAMES LAWATSCH - THYSSENKRUPP. THE SPILL WAS PROPERLY CLEANED UP AND NO FURTHER CLEAN UP IS NEEDED.				
<b>Enforcement Action/Citation</b>				
Enforcement Action/Citation? No				
Case Activity Reports:				
<b>Person Reporting</b>				
Name	Representing / Address	Primary Phone	Secondary Phone	
JAMES LAWATSCH	THYSSENKRUPP WAUPACA	(715) 735-4970 x	JAMES LAWATSCH	
<b>Contractors Hired</b>				
Name / Address			Zone Contractor Hired by DNR?	
			No	
<b>Contacts</b>				
Role	Name	Office Phone	Date	Time
Prepared By:	JASON MOELLER	(920) 662-5492 x	04/18/2011	
Person Notified:	GREG SEVENER	(715) 582-5013 x	04/18/2011	
Investigated By:	GREG SEVENER	(715) 582-5013 x	04/18/2011	
Incident Commander:				
Spill Coordinator:	JASON MOELLER, NE Region <i>Jason Moeller</i>	(920) 662-5492 x	04/29/2011	
<b>Electronic Attachments (list)</b>				
Name		Type		
20110418NE381_RP_Documentation.pdf		Portable Document Format		

## Moeller, Jason W - DNR

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**From:** Sevener, Gregory A - DNR  
**Sent:** Tuesday, April 19, 2011 2:32 PM  
**To:** Moeller, Jason W - DNR  
**Subject:** RE: Small Release of Oil Sheen from ThyssenKrupp - Waupaca cooling water into Menominee R just above Ogden St. bridge

Thanks Jason,

I told them to send me a written response. They sent an email yesterday after I visited the facility to see what occurred and The problem had been corrected. I can send you a copy of the contact I wrote which includes the email they sent as follows:

I received a call at around 1145am from Bryant Esch with Jim Lawatsch also on the line from Thyssenkrupp-Waupaca in Marinette. They noticed at around 1100 am a sheen of oil was discharging into the Menominee River through Outfall 001(noncontact cooling water) discharge point. They investigated and allegedly found a small heat exchanger( about 1 foot long by 4 inches in diameter) which cooled mineral lubricating oil had sprung a leak discharging oil into the stream of once through noncontact cooling water. Bryant indicated during the call they may have lost very roughly 1/2 gallon of oil just judging from the accumulation in the discharge weir box. The oil reservoir for the particular location of the heat exchanger in the plant is about 60 gallons. Jim L. said there was little oil gone from this reservoir. I stopped by the plant at around 230 pm and met Jim Lawatsch who showed me the weir outside the plant. There was just a slight light sheen in back of a couple small absorbent booms in the stilling well. They tried to place a couple small booms in the river below the discharge but they were not effective because of current and their discharge volume. There was no sheen discharging from Outfall 001 into the river at 245. They had supposedly skimmed the oil out of the stilling well behind the booms. I told Jim they definitely should inform employees to be vigil of the discharge to catch occurrences such as this event. Jim L. sent the following email and will follow up with a written letter of the spill:

Dear Mr. Sevener:

This email is being sent as a follow up to the phone conversation Bryant Esch, and I had with you at approximately 11:45 am this morning, April 18th, 2011. Our conversation was to advise you we had a leak in a hydraulic system equipped with a heat exchanger cooled with city water as part of our once through cooling water system that discharges through outfall 001 into the Menominee River. The leak was found and the hydraulic system shut down for repair shortly after a slight bloom of oil was noticed in the weir leading to outfall 001. The amount of hydraulic oil that leaked from the system into the cooling water is very difficult to determine at this time, and I will make a more extensive report after a thorough investigation. Foundry personnel used absorbent booms and absorbent skimmers to remove the visible sheen from the outfall weir and the water and dock wall surrounding outfall 001. As we discussed earlier, I will make a full written report to you and provide more detail at that time. If more information is required prior to that time, please contact me by email or call my desk phone at 715-735-4970.

Sincerely,  
Jim Lawatsch

I told Jim they should always report a spill even if small as soon as known. We did get an anonymous call concerning the discharge from a company person informing of the oil escaping to the river. The person said the company was not responding to stop the discharge. I also got a call from a citizen of the discharge of a sheen.

James Lawatsch  
Environmental Department  
ThyssenKrupp Waupaca  
Marinette Plant 4  
715-735-4970

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**From:** Moeller, Jason W - DNR  
**Sent:** Tuesday, April 19, 2011 11:46 AM  
**To:** Sevener, Gregory A - DNR  
**Subject:** RE: Small Release of Oil Sheen from ThyssenKrupp - Waupaca cooling water into Menominee R just above Ogden St. bridge

Hi Greg,

Yes, even though it was a small amount we should record it as a spill. I will complete the spill report, just send me the information. Will you be getting a written response from the company? If so, please forward a copy to me. Thanks, Jason.

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**From:** Sevener, Gregory A - DNR  
**Sent:** Monday, April 18, 2011 12:23 PM  
**To:** Goerlinger, Robert J - DNR  
**Cc:** Moeller, Jason W - DNR  
**Subject:** Small Release of Oil Sheen from ThyssenKrupp - Waupaca cooling water into Menominee R just above Ogden St. bridge

Hello Bob,

Representatives just called me from this facility and notified they had a release of oil from a belt driven heat exchanger lubricant reservoir which got down to the weir box just above their cooling water outfall and resulted in releasing a light sheen by spilling over the weir used to measure flow from their cooling water discharge into the Menominee River. They noticed the release had occurred around 11 am today. They have boomed the weir and are skimming the oil out of the weir box at this time. They estimate possibly 1/2 gallon was released into the cooling water stream. I told them to email me information with a written follow-up on the occurrence. Not sure if we need to complete a spill report with this small amount. The oil may be either biodegradable peanut oil based or possibly mineral based which I told them to let me know in communication.

I will forward the email when I receive it concerning the incident in case someone calls. I was planning to go over to that bridge to sample water today and may stop by the plant for them to show me more what happened. They said the slight sheen seemed to follow the bulkhead wall downstream with the current flowing now.

**Jason would this need a spill report completed for this quantity?**

Bob not sure who else to contact with Mike K. retired.

Gregory A. Sevener

WI DNR Peshtigo Service Center  
Attn: Gregory A. Sevener  
101 N.Ogden Road Suite A  
Peshtigo, WI. 54157  
Phone: 715-582-5013  
Fax: 715-582-5005  
gregory.sevener@wisconsin.gov



**ThyssenKrupp Waupaca**

April 21, 2011

Mr. Gregory Sevener  
Wisconsin Department of Natural Resources  
101 N. Ogden Rd.  
Peshtigo, WI. 54157

**SUBJECT: Follow-up Report on Non-Contact Cooling System Oil Leak, April 18, 2011  
Thyssenkrupp Waupaca Plant 4, Marinette, WI**

Dear Mr. Sevener:

This report is submitted as a follow-up to TKW's April 18, 2011 phone notification to your office (and your subsequent onsite visit) regarding an oil leak in the non-contact cooling system and TKW's corrective actions to eliminate the leak.

At approximately 9:45 AM on Monday April 18, TKW maintenance personnel identified that an oil sheen was evident in the weir leading to Outfall 001 (non-contact cooling water discharge to the Menominee River). A troubleshooting investigation was immediately conducted to determine the source of the oil. By 10:15 AM, the outfall's weir was outfitted with additional oil absorbent booms to supplement the existing booms that are left in place as a preventative measure. An additional absorbent boom was put into the river outside the outfall to soak up and contain any oil sheen escaping the weir area.

At approximately 10:30 AM, a maintenance belt system mechanic found the hydraulic oil reservoir for # 10 sand belt was completely full of milky fluid indicating that cooling water had entered the system through a damaged heat exchanger. The water supply was immediately shut off to the belt heat exchanger to eliminate the source of the leak (which effectively resulted in a shutdown of the east side of the facility). During the shutdown, repairs were made to the heat exchanger, and skimming and capturing of the oil in the outfall weir continued.

The damaged heat exchanger serviced a hydraulic system with a 55 gallon oil reservoir capacity. Approximately 60 gallons of fluid was drained from the system as the heat exchanger was replaced. This is an expected occurrence as the heat exchangers are designed to exhibit a positive pressure on the water side that results in water entering the oil in lieu of significant oil being released into the non-contact cooling water.

Based on the results of this repair, it is estimated that approximately 4 to 5 gallons of oil escaped the oil reservoir and entered the non-contact cooling water system. Since TKW currently recirculates approximately 400 gallons of water per minute from the outfall system back into the cooling water system, approximately 65 percent of the oil laden cooling water was returned to other plant systems. Therefore, approximately 1.5 gallons of oil is expected to have reached the weir to Outfall 001. Of this quantity, a significant amount was recovered within the weir, resulting in only a brief period of time in which a minor visible sheen was visible on the Menominee River. During the incident, there was no time in which free oil was observed entering the river.

Corrective actions to prevent a reoccurrence include a review of TKW's preventative maintenance program for such equipment, as well as ongoing efforts to design and install an expanded water reuse system at Outfall 001 that would reduce or eliminate the requirement to discharge non-contact cooling water to the Menominee River.



Such a system would result in a nearly closed loop system where any unlikely future oil leaks would be captured within the plant and isolated from the river.

If you have any additional questions regarding this information, please feel free to call me at 715-735-4970.

Sincerely,



James Lawatsch  
Environmental Engineer  
Thyssenkrupp Waupaca

Cc: T. Allen - TKW  
M. Wellner - TKW  
R. Jezwinski - TKW  
B. Esch - TKW