



Raymond Lumber • 51 Ellis Street • Raymond, WA 98577

April 9, 2024

Kamren Moen
Permit Manager
Water Quality Program, Industrial Unit
Southwest Regional Office
Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Subject: Weyerhaeuser NR Company – Raymond Lumber Permit ST6167
Written Report for Outfall 003: Exceedance of Flow and Temperature

Dear Mr. Moen:

This letter is to provide written follow-up information specified in permit condition S2.A. for flow and temperature permit exceedances at Weyerhaeuser's Outfall 003 on April 3, 2024 and flow on April 4, 2024. The temperature was elevated on April 3, 2024, at 4:54 am. Within one hour the temperature was back within permit limits. We investigated and are taking necessary steps, so this doesn't occur in the future.

Date	Location	Parameter	Result	Permit limit	Comments:
April 3, 2024	003	Flow Temperature	60,289.2 GPD 156.8°F	40,000 GPD 150°F	Email notification sent to Ecology and City of Raymond April 4, 2024.
April 4, 2024	003	Flow	45,481.8 GPD	40,000 GPD	Email notification sent to Ecology and City of Raymond April 5, 2024.

Causes of Exceedance:

On April 3, 2024, at 3:00 am the powerhouse noticed that there was a decrease in condensate return water from the dry kilns. The maintenance team discovered that a pump failure had occurred to the west condensate pump and the secondary pump was not able to keep up. This resulted in condensate water being sent to the wastewater treatment system through the condensate tank overflow pipe. The west condensate pump was replaced and went back into service on April 3, 2024, at 7:30 am.

The maintenance team noticed that there was still excess water in the system. The output valve on the east condensate pump was slowly closing and the team observed no backpressure. This meant that no flow was coming from the east pump. The east condensate pump was then taken out of service. The east condensate pump was disassembled, and it was discovered that the stainless-steel pump impeller fins had all been sheared off. The pump had only been in service for six weeks after the last rebuild. Our spare condensate pump had not been rebuilt yet as the parts were still on order.

On April 4, 2024, the site machinist attempted to temporarily repair the damaged pump impeller to get a pump into service until a new one could be installed. At 3:00 pm the pump was installed; however, it did not produce any flow as it couldn't be properly sealed. At 8:00 pm the powerhouse and kilns were taken down to stop the excess flow of condensate water, give the system time to cool, and give maintenance an opportunity to check for leaks in the condensate system.

The new condensate pump arrived on April 5, 2024, and was commissioned at 3:15 pm. The kilns and powerhouse were brought back online at that time. Wastewater flow returned to normal limits.

Steps to Reduce, Eliminate, and Prevent Recurrence:

The operations and maintenance teams are taking the following actions to eliminate and prevent reoccurrence in the following manner:

1. Stock pump rebuild kits so a failed pump can be rebuilt immediately if required.
2. Complete internal root cause investigation with PumpTech to understand why the pump impellers are failing and how to prevent this from occurring in the future.
3. Maintain a second spare condensate pump as a redundant back up in case the main spare pump is off site for rebuild or has a catastrophic failure and cannot be rebuilt.

If you have any questions regarding this matter, please contact me, or our Environmental Manager, Christine Yanik at Christine.yanik@weyerhaeuser.com or 541-409-7770.

In accordance with Permit Condition G1.4, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

DocuSigned by:


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Spencer Headley

Weyerhaeuser Raymond Lumber Unit Manager