

Weyerhaeuser NR Company – Longview Lumber • 2901 Industrial Way • Longview, WA 98632

May 23, 2024

Ms. Kelsey Brotherton, PE  
Industrial Section  
Solid Waste Management Program  
Washington State Department of Ecology  
P.O. Box 47600  
Olympia, WA 98504-7600

Subject: Request for Permit Modification to Eliminate Klebsiella Bacteria Monitoring  
Weyerhaeuser NR Company – Longview Lumber  
NPDES Permit No. WA0991014

Dear Ms. Brotherton:

Weyerhaeuser NR Company (Weyerhaeuser) has prepared this letter to request a permit modification for NPDES Permit No. WA0991014 (permit) issued by Washington State Department of Ecology (Ecology) to Weyerhaeuser on July 17, 2019, and modified on February 14, 2022. Specifically, Weyerhaeuser is seeking elimination of the permit requirement for sampling and analysis of Klebsiella bacteria in stormwater discharge.

## Rationale for Requested Permit Modification

Weyerhaeuser is required to monitor fecal coliform, E. coli, and Klebsiella bacteria in stormwater discharge from its Longview facility, in accordance with the conditions of its permit. The bacteria monitoring locations and frequency are as follows:

- Stormwater Discharge to CDID Ditch #3 – Outfall 003B (East Pond) – Weekly
- Stormwater Discharge to CDID Ditch #3 – Outfall 004B – Monthly

A technical memorandum dated January 10, 2023 was previously prepared (Attachment 1), which documented a technical basis for eliminating Klebsiella bacteria sampling and analysis as a permit requirement. The primary justifications for eliminating Klebsiella monitoring included that it is unnecessarily duplicative of E. coli and fecal coliform monitoring requirements, there is no applicable regulatory guidance that Klebsiella analysis is required, and that the long laboratory analysis interferes with Weyerhaeuser's ability to submit monthly Discharge Monitoring Reports (DMRs) by the permit deadline. This request for reduction in monitoring is also consistent with permit condition S2.E., as more than twelve (12) months of monitoring for this parameter has been completed.

Weyerhaeuser provided a copy of the January 2023 technical memorandum to Ecology after it was prepared, but Ecology has not acted on that request to modify the permit to eliminate the Klebsiella bacteria monitoring requirement. During a more recent meeting between representatives of Weyerhaeuser and Ecology on April 29, 2024, Weyerhaeuser inquired again about this request. Ecology stated that a future reissuance of Weyerhaeuser's permit would limit bacteria monitoring to E. coli and would eliminate requirements for fecal coliform and Klebsiella monitoring. However, despite the upcoming July 31, 2024 expiration of the permit, Weyerhaeuser understands that Ecology is not in position to be able to reissue the permit at that time and that the permit may need to be administratively extended for a potentially significant duration. It would be a waste of resources for Weyerhaeuser to continue Klebsiella monitoring. Therefore, Weyerhaeuser plans to proceed with a public notice to start the process of this permit modification request. For reference, the specific permit text requested to be removed from the permit is provided on the permit markup pages provided in Attachment 2.

## Public Notice

Weyerhaeuser is aware that facilities seeking to modify NPDES permit coverage must publish a public notice at least once a week for two consecutive weeks with seven days in between publications, in a single newspaper of general circulation in the county in which the facility is located and that Ecology cannot grant permit coverage sooner than the end of the 30-day public comment period, which begins on the date of the second public notice.

The planned date of the first public notice is 5/28/2024 and of the second public notice is 6/4/2024. The newspaper that will be used to publish the public notices is the Longview Daily News. The planned language for the public notice is:

Weyerhaeuser NR Company, 2901 Industrial Way, Longview, Washington, is seeking modification of coverage under the Washington Department of Ecology's NPDES Permit No. WA0991014 for stormwater discharges associated with industrial activities at the industrial site, known as Longview Lumber located at 2901 Industrial Way in Longview, Washington.

The change requiring permit modification is eliminating obsolete stormwater discharge monitoring for Klebsiella bacteria.

Any person desiring to present their views to the Department of Ecology concerning this application may notify Ecology in writing within 30 days of the last date of publication of this notice. Comments may be submitted to:

Washington Dept of Ecology  
Industrial Section  
PO Box 47600  
Olympia, WA 98504-7600

If you have questions about this permit modification request, please contact one of us or Christine Yanik, Regional Environmental Manager, at 541-409-7770 or email at [Christine.Yanik@weyerhaeuser.com](mailto:Christine.Yanik@weyerhaeuser.com).

*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 gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete and I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Sincerely,

Brian Hamilton  
Operations Manager Longview Log Sort Yard Operation Manager

Brian Phipps  
Longview Lumber Plant Manager

Attachments:

1. Technical Memorandum Regarding Elimination of Klebsiella Bacteria Monitoring, January 10, 2023
2. Specific Requested Changes to NPDES Permit Special Conditions

**Technical Memorandum Regarding  
Elimination of Klebsiella Bacteria Monitoring  
January 10, 2023**

# Technical Memorandum

---

**TO:** Angela Cameron, Weyerhaeuser NR Company  
**FROM:** Joe Kalmar, PE  
**DATE:** January 10, 2023  
**RE:** **Recommendation for Elimination of Klebsiella Bacteria Monitoring**  
**Weyerhaeuser NR Company NPDES Permit No. 0991014**  
**Longview, Washington**

## Introduction

Landau Associates, Inc. (Landau) prepared this technical memorandum based on a review of stormwater monitoring data provided by the Weyerhaeuser NR Company (Weyerhaeuser) for its Longview, Washington facility. Weyerhaeuser requested that Landau assess whether monitoring of Klebsiella bacteria could be discontinued at this facility.

## Background

Weyerhaeuser is required to monitor fecal coliform, E. coli, and Klebsiella bacteria in stormwater discharge from its Longview facility, in accordance with the conditions of its National Pollutant Discharge Elimination System (NPDES) discharge Permit No. 0991014 (permit) issued by Washington State Department of Ecology (Ecology) and effective as of August 1, 2019. The bacteria monitoring locations and frequency are as follows:

- Stormwater Discharge to CDID Ditch #3 – Outfall 003B (East Pond) – Weekly
- Stormwater Discharge to CDID Ditch #3 – Outfall 004B – Monthly.

A footnote to the bacteria monitoring requirement states to report a numerical value for fecal coliforms following the procedures in Ecology's *Information Manual for Wastewater Treatment Plant Operators*.

After reviewing the monitoring data, relevant regulatory documents, and the facility's permit, Landau identified three primary reasons to propose to Ecology that sampling and analysis of Klebsiella bacteria be removed as a permit requirement:

- The laboratory at times requires three weeks (21 days) to complete Klebsiella analysis and analytical reporting, which can cause a permit violation given the requirement to submit each discharge monitoring report (DMR) by the 15<sup>th</sup> day of the following month.
- There is no applicable regulatory guidance that Klebsiella is a required surface water monitoring parameter.
- Analysis of Klebsiella is unnecessarily duplicative, as Klebsiella and E. coli are each a subset of fecal coliform, and monitoring at Weyerhaeuser for more than a 3-year period has demonstrated that Klebsiella is equivalent to the fecal coliform result minus the E. coli result (i.e., the amount of Klebsiella plus E. coli equals the amount of fecal coliform).

Further background on regulatory guidance and details of historical bacteria monitoring results are provided in the following sections of this memorandum, to provide the rationale for this proposed discontinuation of *Klebsiella* monitoring.

## Regulatory Guidance

A relevant document that provides background on this subject was prepared by the United States Environmental Protection Agency (EPA) titled *Volunteer Stream Monitoring: A Methods Manual*, dated November 1997, publication number EPA 841-B-97-003. This document discusses monitoring and assessing water quality of surface water. Section 5.11 specifically discusses fecal bacteria and associated monitoring, with an excerpt below.

*The most commonly tested fecal bacteria indicators are total coliforms, fecal coliforms, Escherichia coli, fecal streptococci, and enterococci. All but E. coli are composed of a number of species of bacteria that share common characteristics such as shape, habitat, or behavior; E. coli is a single species in the fecal coliform group.*

*Total coliforms are a group of bacteria that are widespread in nature. All members of the total coliform group can occur in human feces, but some can also be present in animal manure, soil, and submerged wood and in other places outside the human body. Thus, the usefulness of total coliforms as an indicator of fecal contamination depends on the extent to which the bacteria species found are fecal and human in origin. For recreational waters, total coliforms are no longer recommended as an indicator. For drinking water, total coliforms are still the standard test because their presence indicates contamination of a water supply by an outside source.*

*Fecal coliforms, a subset of total coliform bacteria, are more fecal-specific in origin. However, even this group contains a genus, Klebsiella, with species that are not necessarily fecal in origin. Klebsiella are commonly associated with textile and pulp and paper mill wastes. Therefore, if these sources discharge to your stream, you might wish to consider monitoring more fecal and human-specific bacteria. For recreational waters, this group was the primary bacteria indicator until relatively recently, when EPA began recommending E. coli and enterococci as better indicators of health risk from water contact. Fecal coliforms are still being used in many states as the indicator bacteria.*

*E. coli is a species of fecal coliform bacteria that is specific to fecal material from humans and other warm-blooded animals. EPA recommends E. coli as the best indicator of health risk from water contact in recreational waters; some states have changed their water quality standards and are monitoring accordingly.*

As indicated by the document, *E. coli* is the recommended species of fecal coliform bacteria for health risk analysis. Based on Landau's review of publicly available documents, EPA does not appear to list *Klebsiella* in any subsequent surface water monitoring guidance documents or manuals.

It is also worth noting that Ecology's *Water Quality Program Permit Writer's Manual* (Revised July 2018, Publication No. 92-109) discusses Ecology's use of fecal coliform as an indicator organism for

the control of pathogenic bacteria in wastewater effluent, and it discusses EPA's recommended recreational criteria based on *E. coli*. However, the Permit Writer's Manual does not include *Klebsiella* as a monitoring parameter.

## **Bacteria Monitoring History**

In addition to the risk of violations due to delayed analysis and the lack of a regulatory driver for the analysis of *Klebsiella* that were discussed above, the other primary reason to propose to Ecology that sampling and analysis of *Klebsiella* bacteria be removed as a permit requirement for the Weyerhaeuser Longview facility is that it is unnecessarily duplicative of the other bacteria monitoring required in the permit. As noted above, both *E. coli* and *Klebsiella* bacteria are each a subset of the fecal coliform analysis. Weyerhaeuser has over 3 years of facility stormwater discharge monitoring data at both Outfall 003B and Outfall 004B (see Attachment 1) that demonstrate a fairly consistent condition of *Klebsiella* being equal to the difference of *E. coli* from fecal coliform (i.e., the amount of *Klebsiella* plus *E. coli* equals the amount of fecal coliform).

For the Weyerhaeuser facility: *Klebsiella* + *E. coli* = fecal coliform

If we include the bacteria non-detect occasions and instances with a difference of less than 10 per 100 milliliters (#/100 mL), which is often the practical quantitation limit from the laboratory analysis, then that condition is found to be the case for 98% of the sampling events at Outfall 003B and 95 percent of the sampling events at Outfall 004B. Tables of the bacteria monitoring data at Outfall 003B and Outfall 004B for the period September 2019 through November 2022 are provided in Attachment 1 as Table A-1 and Table A-2, respectively.

In addition to the primary reasons for discontinuing *Klebsiella* monitoring, there are also difficulties specifically with the analysis of *Klebsiella*, in that the only regional laboratory identified to be certified by Washington State for its analysis is Water Management Laboratories, Inc. in Tacoma, Washington. The separate shipment of samples to this facility requires extra labor and cost to complete, with no apparent benefit of relevant information.

## **Summary Recommendation**

Given the analysis of this issue above, Landau recommends that Ecology remove the requirement to monitor *Klebsiella* in all stormwater discharge from the facility. The remaining requirements to

monitor discharge for fecal coliform and E. coli provide the applicable bacteria characterization data and will support Weyerhaeuser's ability to provide timely DMR submittals.

LANDAU ASSOCIATES, INC.



Joseph (Joe) Kalmar, PE  
Principal

JAK/KMS/tac

[\\EDMDATA01\PROJECTS\157\023\R\BACTERIA ANALYSIS TECH MEMO\KLEBSIELLA\_ANALYSIS\_TM\_1-10-23.DOCX]

### **Attachments**

Attachment 1 – Bacteria Monitoring Results

# **Bacteria Monitoring Results**

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
9/3/2019	Escherichia coli (Not Applicable)	#/100ml		0		
9/3/2019	Fecal Coliform (Not Applicable)	#/100ml		140		
9/3/2019	Klebsiella (Not Applicable)	#/100ml		140	0	0
9/10/2019	Escherichia coli (Not Applicable)	#/100ml		0		
9/10/2019	Fecal Coliform (Not Applicable)	#/100ml		1200		
9/10/2019	Klebsiella (Not Applicable)	#/100ml		1200	0	0
9/17/2019	Escherichia coli (Not Applicable)	#/100ml		200		
9/17/2019	Fecal Coliform (Not Applicable)	#/100ml		600		
9/17/2019	Klebsiella (Not Applicable)	#/100ml		400	0	0
9/24/2019	Escherichia coli (Not Applicable)	#/100ml		0		
9/24/2019	Fecal Coliform (Not Applicable)	#/100ml		433		
9/24/2019	Klebsiella (Not Applicable)	#/100ml		433	0	0
10/1/2019	Escherichia coli (Not Applicable)	#/100ml		150		
10/1/2019	Fecal Coliform (Not Applicable)	#/100ml		300		
10/1/2019	Klebsiella (Not Applicable)	#/100ml		150	0	0
10/8/2019	Escherichia coli (Not Applicable)	#/100ml		400		
10/8/2019	Fecal Coliform (Not Applicable)	#/100ml		1675		
10/8/2019	Klebsiella (Not Applicable)	#/100ml		1275	0	0
10/15/2019	Escherichia coli (Not Applicable)	#/100ml		20		
10/15/2019	Fecal Coliform (Not Applicable)	#/100ml		200		
10/15/2019	Klebsiella (Not Applicable)	#/100ml		180	0	0
10/22/2019	Escherichia coli (Not Applicable)	#/100ml		550		
10/22/2019	Fecal Coliform (Not Applicable)	#/100ml		1150		
10/22/2019	Klebsiella (Not Applicable)	#/100ml		600	0	0
10/29/2019	Escherichia coli (Not Applicable)	#/100ml		0		
10/29/2019	Fecal Coliform (Not Applicable)	#/100ml		30		
10/29/2019	Klebsiella (Not Applicable)	#/100ml		30	0	0
11/5/2019	Escherichia coli (Not Applicable)	#/100ml		15		
11/5/2019	Fecal Coliform (Not Applicable)	#/100ml		15		
11/5/2019	Klebsiella (Not Applicable)	#/100ml		0	0	0
11/12/2019	Escherichia coli (Not Applicable)	#/100ml		15		
11/12/2019	Fecal Coliform (Not Applicable)	#/100ml		40		
11/12/2019	Klebsiella (Not Applicable)	#/100ml		25	0	0
11/19/2019	Escherichia coli (Not Applicable)	#/100ml		733		
11/19/2019	Fecal Coliform (Not Applicable)	#/100ml		1100		
11/19/2019	Klebsiella (Not Applicable)	#/100ml		367	0	0
11/26/2019	Escherichia coli (Not Applicable)	#/100ml		300		
11/26/2019	Fecal Coliform (Not Applicable)	#/100ml		400		
11/26/2019	Klebsiella (Not Applicable)	#/100ml		100	0	0
12/3/2019	Escherichia coli (Not Applicable)	#/100ml		46		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
12/3/2019	Fecal Coliform (Not Applicable)	#/100ml		61		
12/3/2019	Klebsiella (Not Applicable)	#/100ml		15	0	0
12/10/2019	Escherichia coli (Not Applicable)	#/100ml		10		
12/10/2019	Fecal Coliform (Not Applicable)	#/100ml		40		
12/10/2019	Klebsiella (Not Applicable)	#/100ml		30	0	0
12/17/2019	Escherichia coli (Not Applicable)	#/100ml		10		
12/17/2019	Fecal Coliform (Not Applicable)	#/100ml		40		
12/17/2019	Klebsiella (Not Applicable)	#/100ml		30	0	0
12/23/2019	Escherichia coli (Not Applicable)	#/100ml		405		
12/23/2019	Fecal Coliform (Not Applicable)	#/100ml		420		
12/23/2019	Klebsiella (Not Applicable)	#/100ml		15	0	0
12/30/2019	Escherichia coli (Not Applicable)	#/100ml		25		
12/30/2019	Fecal Coliform (Not Applicable)	#/100ml		40		
12/30/2019	Klebsiella (Not Applicable)	#/100ml		15	0	0
1/7/2020	Escherichia coli (Not Applicable)	#/100ml		133		
1/7/2020	Fecal Coliform (Not Applicable)	#/100ml		1400		
1/7/2020	Klebsiella (Not Applicable)	#/100ml		1267	0	0
1/14/2020	Escherichia coli (Not Applicable)	#/100ml		820		
1/14/2020	Fecal Coliform (Not Applicable)	#/100ml		885		
1/14/2020	Klebsiella (Not Applicable)	#/100ml		65	0	0
1/21/2020	Escherichia coli (Not Applicable)	#/100ml		49		
1/21/2020	Fecal Coliform (Not Applicable)	#/100ml		49		
1/21/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/28/2020	Escherichia coli (Not Applicable)	#/100ml		190		
1/28/2020	Fecal Coliform (Not Applicable)	#/100ml		290		
1/28/2020	Klebsiella (Not Applicable)	#/100ml		100	0	0
2/4/2020	Escherichia coli (Not Applicable)	#/100ml	<	10		
2/4/2020	Fecal Coliform (Not Applicable)	#/100ml	<	10		
2/4/2020	Klebsiella (Not Applicable)	#/100ml	<	10	0	0
2/11/2020	Escherichia coli (Not Applicable)	#/100ml		40		
2/11/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
2/11/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/18/2020	Escherichia coli (Not Applicable)	#/100ml		50		
2/18/2020	Fecal Coliform (Not Applicable)	#/100ml		66		
2/18/2020	Klebsiella (Not Applicable)	#/100ml		16	0	0
2/25/2020	Escherichia coli (Not Applicable)	#/100ml		82		
2/25/2020	Fecal Coliform (Not Applicable)	#/100ml		82		
2/25/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/3/2020	Escherichia coli (Not Applicable)	#/100ml		30		
3/3/2020	Fecal Coliform (Not Applicable)	#/100ml		40		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
3/3/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/10/2020	Escherichia coli (Not Applicable)	#/100ml		0		
3/10/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
3/10/2020	Klebsiella (Not Applicable)	#/100ml		40	0	0
3/17/2020	Escherichia coli (Not Applicable)	#/100ml		20		
3/17/2020	Fecal Coliform (Not Applicable)	#/100ml		50		
3/17/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
3/24/2020	Escherichia coli (Not Applicable)	#/100ml		690		
3/24/2020	Fecal Coliform (Not Applicable)	#/100ml		690		
3/24/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/31/2020	Escherichia coli (Not Applicable)	#/100ml		0		
3/31/2020	Fecal Coliform (Not Applicable)	#/100ml		167		
3/31/2020	Klebsiella (Not Applicable)	#/100ml		167	0	0
4/7/2020	Escherichia coli (Not Applicable)	#/100ml		20		
4/7/2020	Fecal Coliform (Not Applicable)	#/100ml		90		
4/7/2020	Klebsiella (Not Applicable)	#/100ml		70	0	0
4/14/2020	Escherichia coli (Not Applicable)	#/100ml		10		
4/14/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
4/14/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/21/2020	Escherichia coli (Not Applicable)	#/100ml		40		
4/21/2020	Fecal Coliform (Not Applicable)	#/100ml		50		
4/21/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
4/28/2020	Escherichia coli (Not Applicable)	#/100ml		70		
4/28/2020	Fecal Coliform (Not Applicable)	#/100ml		100		
4/28/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
5/5/2020	Escherichia coli (Not Applicable)	#/100ml		200		
5/5/2020	Fecal Coliform (Not Applicable)	#/100ml		410		
5/5/2020	Klebsiella (Not Applicable)	#/100ml		210	0	0
5/12/2020	Escherichia coli (Not Applicable)	#/100ml		90		
5/12/2020	Fecal Coliform (Not Applicable)	#/100ml		150		
5/12/2020	Klebsiella (Not Applicable)	#/100ml		60	0	0
5/19/2020	Escherichia coli (Not Applicable)	#/100ml		140		
5/19/2020	Fecal Coliform (Not Applicable)	#/100ml		240		
5/19/2020	Klebsiella (Not Applicable)	#/100ml		100	0	0
5/26/2020	Escherichia coli (Not Applicable)	#/100ml		46		
5/26/2020	Fecal Coliform (Not Applicable)	#/100ml		64		
5/26/2020	Klebsiella (Not Applicable)	#/100ml		18	0	0
6/2/2020	Escherichia coli (Not Applicable)	#/100ml		91		
6/2/2020	Fecal Coliform (Not Applicable)	#/100ml		127		
6/2/2020	Klebsiella (Not Applicable)	#/100ml		36	0	0

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
6/9/2020	Escherichia coli (Not Applicable)	#/100ml		1611		
6/9/2020	Fecal Coliform (Not Applicable)	#/100ml		2361		
6/9/2020	Klebsiella (Not Applicable)	#/100ml		750	0	0
6/16/2020	Escherichia coli (Not Applicable)	#/100ml		562		
6/16/2020	Fecal Coliform (Not Applicable)	#/100ml		1125		
6/16/2020	Klebsiella (Not Applicable)	#/100ml		563	0	0
6/23/2020	Escherichia coli (Not Applicable)	#/100ml		100		
6/23/2020	Fecal Coliform (Not Applicable)	#/100ml		150		
6/23/2020	Klebsiella (Not Applicable)	#/100ml		50	0	0
6/30/2020	Escherichia coli (Not Applicable)	#/100ml		40		
6/30/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
6/30/2020	Klebsiella (Not Applicable)	#/100ml		10	-10	0
7/7/2020	Escherichia coli (Not Applicable)	#/100ml		30		
7/7/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
7/7/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
7/14/2020	Escherichia coli (Not Applicable)	#/100ml		5		
7/14/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
7/14/2020	Klebsiella (Not Applicable)	#/100ml		5	0	0
7/21/2020	Escherichia coli (Not Applicable)	#/100ml		35		
7/21/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
7/21/2020	Klebsiella (Not Applicable)	#/100ml		5	0	0
7/28/2020	Escherichia coli (Not Applicable)	#/100ml		20		
7/28/2020	Fecal Coliform (Not Applicable)	#/100ml		260		
7/28/2020	Klebsiella (Not Applicable)	#/100ml		240	0	0
8/4/2020	Escherichia coli (Not Applicable)	#/100ml		5		
8/4/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
8/4/2020	Klebsiella (Not Applicable)	#/100ml		5	0	0
8/11/2020	Escherichia coli (Not Applicable)	#/100ml		20		
8/11/2020	Fecal Coliform (Not Applicable)	#/100ml		105		
8/11/2020	Klebsiella (Not Applicable)	#/100ml		85	0	0
8/18/2020	Escherichia coli (Not Applicable)	#/100ml		10		
8/18/2020	Fecal Coliform (Not Applicable)	#/100ml		65		
8/18/2020	Klebsiella (Not Applicable)	#/100ml		55	0	0
8/25/2020	Escherichia coli (Not Applicable)	#/100ml		27		
8/25/2020	Fecal Coliform (Not Applicable)	#/100ml		775		
8/25/2020	Klebsiella (Not Applicable)	#/100ml		746	2	0
9/1/2020	Escherichia coli (Not Applicable)	#/100ml		480		
9/1/2020	Fecal Coliform (Not Applicable)	#/100ml		490		
9/1/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
9/8/2020	Escherichia coli (Not Applicable)	#/100ml		60		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
9/8/2020	Fecal Coliform (Not Applicable)	#/100ml		240		
9/8/2020	Klebsiella (Not Applicable)	#/100ml		180	0	0
9/15/2020	Escherichia coli (Not Applicable)	#/100ml		35		
9/15/2020	Fecal Coliform (Not Applicable)	#/100ml		95		
9/15/2020	Klebsiella (Not Applicable)	#/100ml		60	0	0
9/22/2020	Escherichia coli (Not Applicable)	#/100ml		400		
9/22/2020	Fecal Coliform (Not Applicable)	#/100ml		1300		
9/22/2020	Klebsiella (Not Applicable)	#/100ml		900	0	0
9/29/2020	Escherichia coli (Not Applicable)	#/100ml		700		
9/29/2020	Fecal Coliform (Not Applicable)	#/100ml		1450		
9/29/2020	Klebsiella (Not Applicable)	#/100ml		750	0	0
10/6/2020	Escherichia coli (Not Applicable)	#/100ml		45		
10/6/2020	Fecal Coliform (Not Applicable)	#/100ml		100		
10/6/2020	Klebsiella (Not Applicable)	#/100ml		55	0	0
10/13/2020	Escherichia coli (Not Applicable)	#/100ml		500		
10/13/2020	Fecal Coliform (Not Applicable)	#/100ml		4500		
10/13/2020	Klebsiella (Not Applicable)	#/100ml		4000	0	0
10/20/2020	Escherichia coli (Not Applicable)	#/100ml		0		
10/20/2020	Fecal Coliform (Not Applicable)	#/100ml		1200		
10/20/2020	Klebsiella (Not Applicable)	#/100ml		1200	0	0
10/27/2020	Escherichia coli (Not Applicable)	#/100ml		0		
10/27/2020	Fecal Coliform (Not Applicable)	#/100ml		36		
10/27/2020	Klebsiella (Not Applicable)	#/100ml		36	0	0
11/3/2020	Escherichia coli (Not Applicable)	#/100ml		46		
11/3/2020	Fecal Coliform (Not Applicable)	#/100ml		61		
11/3/2020	Klebsiella (Not Applicable)	#/100ml		15	0	0
11/10/2020	Escherichia coli (Not Applicable)	#/100ml		100		
11/10/2020	Fecal Coliform (Not Applicable)	#/100ml		225		
11/10/2020	Klebsiella (Not Applicable)	#/100ml		125	0	0
11/17/2020	Escherichia coli (Not Applicable)	#/100ml		28		
11/17/2020	Fecal Coliform (Not Applicable)	#/100ml		56		
11/17/2020	Klebsiella (Not Applicable)	#/100ml		28	0	0
11/24/2020	Escherichia coli (Not Applicable)	#/100ml		15		
11/24/2020	Fecal Coliform (Not Applicable)	#/100ml		15		
11/24/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/1/2020	Escherichia coli (Not Applicable)	#/100ml		80		
12/1/2020	Fecal Coliform (Not Applicable)	#/100ml		100		
12/1/2020	Klebsiella (Not Applicable)	#/100ml		20	0	0
12/8/2020	Escherichia coli (Not Applicable)	#/100ml		10		
12/8/2020	Fecal Coliform (Not Applicable)	#/100ml		10		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
12/8/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/15/2020	Escherichia coli (Not Applicable)	#/100ml		16		
12/15/2020	Fecal Coliform (Not Applicable)	#/100ml		16		
12/15/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/22/2020	Escherichia coli (Not Applicable)	#/100ml		15		
12/22/2020	Fecal Coliform (Not Applicable)	#/100ml		15		
12/22/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/29/2020	Escherichia coli (Not Applicable)	#/100ml		18		
12/29/2020	Fecal Coliform (Not Applicable)	#/100ml		18		
12/29/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/5/2021	Escherichia coli (Not Applicable)	#/100ml		100		
1/5/2021	Fecal Coliform (Not Applicable)	#/100ml		160		
1/5/2021	Klebsiella (Not Applicable)	#/100ml		60	0	0
1/12/2021	Escherichia coli (Not Applicable)	#/100ml		91		
1/12/2021	Fecal Coliform (Not Applicable)	#/100ml		91		
1/12/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/19/2021	Escherichia coli (Not Applicable)	#/100ml	<	9		
1/19/2021	Fecal Coliform (Not Applicable)	#/100ml	<	9		
1/19/2021	Klebsiella (Not Applicable)	#/100ml	<	9	0	0
1/26/2021	Escherichia coli (Not Applicable)	#/100ml		13		
1/26/2021	Fecal Coliform (Not Applicable)	#/100ml		13		
1/26/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/2/2021	Escherichia coli (Not Applicable)	#/100ml		150		
2/2/2021	Fecal Coliform (Not Applicable)	#/100ml		150		
2/2/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/9/2021	Escherichia coli (Not Applicable)	#/100ml		300		
2/9/2021	Fecal Coliform (Not Applicable)	#/100ml		300		
2/9/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/16/2021	Escherichia coli (Not Applicable)	#/100ml		400		
2/16/2021	Fecal Coliform (Not Applicable)	#/100ml		600		
2/16/2021	Klebsiella (Not Applicable)	#/100ml		200	0	0
2/23/2021	Escherichia coli (Not Applicable)	#/100ml		154		
2/23/2021	Fecal Coliform (Not Applicable)	#/100ml		200		
2/23/2021	Klebsiella (Not Applicable)	#/100ml		0	46	1
3/2/2021	Escherichia coli (Not Applicable)	#/100ml	<	11		
3/2/2021	Fecal Coliform (Not Applicable)	#/100ml	<	11		
3/2/2021	Klebsiella (Not Applicable)	#/100ml	<	11	0	0
3/9/2021	Escherichia coli (Not Applicable)	#/100ml	<	20		
3/9/2021	Fecal Coliform (Not Applicable)	#/100ml	<	20		
3/9/2021	Klebsiella (Not Applicable)	#/100ml	<	20	0	0

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
3/16/2021	Escherichia coli (Not Applicable)	#/100ml	<	5		
3/16/2021	Fecal Coliform (Not Applicable)	#/100ml	<	5		
3/16/2021	Klebsiella (Not Applicable)	#/100ml	<	5	0	0
3/23/2021	Escherichia coli (Not Applicable)	#/100ml		25		
3/23/2021	Fecal Coliform (Not Applicable)	#/100ml		125		
3/23/2021	Klebsiella (Not Applicable)	#/100ml		100	0	0
3/30/2021	Escherichia coli (Not Applicable)	#/100ml		20		
3/30/2021	Fecal Coliform (Not Applicable)	#/100ml		60		
3/30/2021	Klebsiella (Not Applicable)	#/100ml		40	0	0
4/6/2021	Escherichia coli (Not Applicable)	#/100ml		5		
4/6/2021	Fecal Coliform (Not Applicable)	#/100ml		5		
4/6/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/13/2021	Escherichia coli (Not Applicable)	#/100ml		20		
4/13/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
4/13/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/20/2021	Escherichia coli (Not Applicable)	#/100ml		0		
4/20/2021	Fecal Coliform (Not Applicable)	#/100ml		5		
4/20/2021	Klebsiella (Not Applicable)	#/100ml		5	0	0
4/27/2021	Escherichia coli (Not Applicable)	#/100ml		30		
4/27/2021	Fecal Coliform (Not Applicable)	#/100ml		30		
4/27/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/4/2021	Escherichia coli (Not Applicable)	#/100ml		45		
5/4/2021	Fecal Coliform (Not Applicable)	#/100ml		45		
5/4/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/11/2021	Escherichia coli (Not Applicable)	#/100ml		50		
5/11/2021	Fecal Coliform (Not Applicable)	#/100ml		50		
5/11/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/18/2021	Escherichia coli (Not Applicable)	#/100ml		10		
5/18/2021	Fecal Coliform (Not Applicable)	#/100ml		10		
5/18/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/25/2021	Escherichia coli (Not Applicable)	#/100ml		0		
5/25/2021	Fecal Coliform (Not Applicable)	#/100ml		200		
5/25/2021	Klebsiella (Not Applicable)	#/100ml		200	0	0
6/1/2021	Escherichia coli (Not Applicable)	#/100ml		210		
6/1/2021	Fecal Coliform (Not Applicable)	#/100ml		240		
6/1/2021	Klebsiella (Not Applicable)	#/100ml		30	0	0
6/8/2021	Escherichia coli (Not Applicable)	#/100ml		200		
6/8/2021	Fecal Coliform (Not Applicable)	#/100ml		4500		
6/8/2021	Klebsiella (Not Applicable)	#/100ml		4300	0	0
6/15/2021	Escherichia coli (Not Applicable)	#/100ml		3600		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
6/15/2021	Fecal Coliform (Not Applicable)	#/100ml		3600		
6/15/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
6/22/2021	Escherichia coli (Not Applicable)	#/100ml		110		
6/22/2021	Fecal Coliform (Not Applicable)	#/100ml		370		
6/22/2021	Klebsiella (Not Applicable)	#/100ml		260	0	0
6/29/2021	Escherichia coli (Not Applicable)	#/100ml		107		
6/29/2021	Fecal Coliform (Not Applicable)	#/100ml		107		
6/29/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
7/6/2021	Escherichia coli (Not Applicable)	#/100ml		10		
7/6/2021	Fecal Coliform (Not Applicable)	#/100ml		90		
7/6/2021	Klebsiella (Not Applicable)	#/100ml		80	0	0
7/13/2021	Escherichia coli (Not Applicable)	#/100ml		91		
7/13/2021	Fecal Coliform (Not Applicable)	#/100ml		1363		
7/13/2021	Klebsiella (Not Applicable)	#/100ml		1075	197	1
7/20/2021	Escherichia coli (Not Applicable)	#/100ml		150		
7/20/2021	Fecal Coliform (Not Applicable)	#/100ml		775		
7/20/2021	Klebsiella (Not Applicable)	#/100ml		325	300	1
7/27/2021	Escherichia coli (Not Applicable)	#/100ml		20		
7/27/2021	Fecal Coliform (Not Applicable)	#/100ml		90		
7/27/2021	Klebsiella (Not Applicable)	#/100ml		70	0	0
8/3/2021	Escherichia coli (Not Applicable)	#/100ml		30		
8/3/2021	Fecal Coliform (Not Applicable)	#/100ml		30		
8/3/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/10/2021	Escherichia coli (Not Applicable)	#/100ml		50		
8/10/2021	Fecal Coliform (Not Applicable)	#/100ml		50		
8/10/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/17/2021	Escherichia coli (Not Applicable)	#/100ml		70		
8/17/2021	Fecal Coliform (Not Applicable)	#/100ml		880		
8/17/2021	Klebsiella (Not Applicable)	#/100ml		810	0	0
8/24/2021	Escherichia coli (Not Applicable)	#/100ml		0		
8/24/2021	Fecal Coliform (Not Applicable)	#/100ml		160		
8/24/2021	Klebsiella (Not Applicable)	#/100ml		160	0	0
8/31/2021	Escherichia coli (Not Applicable)	#/100ml		10		
8/31/2021	Fecal Coliform (Not Applicable)	#/100ml		150		
8/31/2021	Klebsiella (Not Applicable)	#/100ml		140	0	0
9/7/2021	Escherichia coli (Not Applicable)	#/100ml		50		
9/7/2021	Fecal Coliform (Not Applicable)	#/100ml		300		
9/7/2021	Klebsiella (Not Applicable)	#/100ml		250	0	0
9/14/2021	Escherichia coli (Not Applicable)	#/100ml		10		
9/14/2021	Fecal Coliform (Not Applicable)	#/100ml		40		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
9/14/2021	Klebsiella (Not Applicable)	#/100ml		30	0	0
9/21/2021	Escherichia coli (Not Applicable)	#/100ml		0		
9/21/2021	Fecal Coliform (Not Applicable)	#/100ml		46000		
9/21/2021	Klebsiella (Not Applicable)	#/100ml		46000	0	0
9/28/2021	Escherichia coli (Not Applicable)	#/100ml		1500		
9/28/2021	Fecal Coliform (Not Applicable)	#/100ml		3667		
9/28/2021	Klebsiella (Not Applicable)	#/100ml		2167	0	0
10/5/2021	Escherichia coli (Not Applicable)	#/100ml		1600		
10/5/2021	Fecal Coliform (Not Applicable)	#/100ml		6600		
10/5/2021	Klebsiella (Not Applicable)	#/100ml		5000	0	0
10/12/2021	Escherichia coli (Not Applicable)	#/100ml		91		
10/12/2021	Fecal Coliform (Not Applicable)	#/100ml		1091		
10/12/2021	Klebsiella (Not Applicable)	#/100ml		1000	0	0
10/19/2021	Escherichia coli (Not Applicable)	#/100ml		0		
10/19/2021	Fecal Coliform (Not Applicable)	#/100ml		400		
10/19/2021	Klebsiella (Not Applicable)	#/100ml		400	0	0
10/26/2021	Escherichia coli (Not Applicable)	#/100ml		700		
10/26/2021	Fecal Coliform (Not Applicable)	#/100ml		1500		
10/26/2021	Klebsiella (Not Applicable)	#/100ml		800	0	0
11/2/2021	Escherichia coli (Not Applicable)	#/100ml		67		
11/2/2021	Fecal Coliform (Not Applicable)	#/100ml		467		
11/2/2021	Klebsiella (Not Applicable)	#/100ml		400	0	0
11/9/2021	Escherichia coli (Not Applicable)	#/100ml		267		
11/9/2021	Fecal Coliform (Not Applicable)	#/100ml		267		
11/9/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
11/16/2021	Escherichia coli (Not Applicable)	#/100ml		800		
11/16/2021	Fecal Coliform (Not Applicable)	#/100ml		1200		
11/16/2021	Klebsiella (Not Applicable)	#/100ml		400	0	0
11/22/2021	Escherichia coli (Not Applicable)	#/100ml		0		
11/22/2021	Fecal Coliform (Not Applicable)	#/100ml		400		
11/22/2021	Klebsiella (Not Applicable)	#/100ml		400	0	0
11/30/2021	Escherichia coli (Not Applicable)	#/100ml		300		
11/30/2021	Fecal Coliform (Not Applicable)	#/100ml		300		
11/30/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/7/2021	Escherichia coli (Not Applicable)	#/100ml		800		
12/7/2021	Fecal Coliform (Not Applicable)	#/100ml		1000		
12/7/2021	Klebsiella (Not Applicable)	#/100ml		200	0	0
12/14/2021	Escherichia coli (Not Applicable)	#/100ml		600		
12/14/2021	Fecal Coliform (Not Applicable)	#/100ml		1000		
12/14/2021	Klebsiella (Not Applicable)	#/100ml		400	0	0

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
12/21/2021	Escherichia coli (Not Applicable)	#/100ml		200		
12/21/2021	Fecal Coliform (Not Applicable)	#/100ml		800		
12/21/2021	Klebsiella (Not Applicable)	#/100ml		600	0	0
12/28/2021	Escherichia coli (Not Applicable)	#/100ml		100		
12/28/2021	Fecal Coliform (Not Applicable)	#/100ml		100		
12/28/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/4/2022	Escherichia coli (Not Applicable)	#/100ml		113		
1/4/2022	Fecal Coliform (Not Applicable)	#/100ml		238		
1/4/2022	Klebsiella (Not Applicable)	#/100ml		125	0	0
1/11/2022	Escherichia coli (Not Applicable)	#/100ml		150		
1/11/2022	Fecal Coliform (Not Applicable)	#/100ml		150		
1/11/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/18/2022	Escherichia coli (Not Applicable)	#/100ml		67		
1/18/2022	Fecal Coliform (Not Applicable)	#/100ml		67		
1/18/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
1/25/2022	Escherichia coli (Not Applicable)	#/100ml		225		
1/25/2022	Fecal Coliform (Not Applicable)	#/100ml		275		
1/25/2022	Klebsiella (Not Applicable)	#/100ml		50	0	0
2/1/2022	Escherichia coli (Not Applicable)	#/100ml		0		
2/1/2022	Fecal Coliform (Not Applicable)	#/100ml		150		
2/1/2022	Klebsiella (Not Applicable)	#/100ml		150	0	0
2/8/2022	Escherichia coli (Not Applicable)	#/100ml	<	15		
2/8/2022	Fecal Coliform (Not Applicable)	#/100ml	<	15		
2/8/2022	Klebsiella (Not Applicable)	#/100ml	<	15	0	0
2/15/2022	Escherichia coli (Not Applicable)	#/100ml		10		
2/15/2022	Fecal Coliform (Not Applicable)	#/100ml		10		
2/15/2022	Klebsiella (Not Applicable)	#/100ml		10	-10	0
2/22/2022	Escherichia coli (Not Applicable)	#/100ml		100		
2/22/2022	Fecal Coliform (Not Applicable)	#/100ml		133		
2/22/2022	Klebsiella (Not Applicable)	#/100ml		33	0	0
3/1/2022	Escherichia coli (Not Applicable)	#/100ml		30		
3/1/2022	Fecal Coliform (Not Applicable)	#/100ml		40		
3/1/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/8/2022	Escherichia coli (Not Applicable)	#/100ml		160		
3/8/2022	Fecal Coliform (Not Applicable)	#/100ml		160		
3/8/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/15/2022	Escherichia coli (Not Applicable)	#/100ml		150		
3/15/2022	Fecal Coliform (Not Applicable)	#/100ml		175		
3/15/2022	Klebsiella (Not Applicable)	#/100ml		25	0	0
3/22/2022	Escherichia coli (Not Applicable)	#/100ml		75		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
3/22/2022	Fecal Coliform (Not Applicable)	#/100ml		300		
3/22/2022	Klebsiella (Not Applicable)	#/100ml		225	0	0
3/29/2022	Escherichia coli (Not Applicable)	#/100ml		25		
3/29/2022	Fecal Coliform (Not Applicable)	#/100ml		25		
3/29/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/5/2022	Escherichia coli (Not Applicable)	#/100ml		500		
4/5/2022	Fecal Coliform (Not Applicable)	#/100ml		500		
4/5/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/12/2022	Escherichia coli (Not Applicable)	#/100ml		14		
4/12/2022	Fecal Coliform (Not Applicable)	#/100ml		43		
4/12/2022	Klebsiella (Not Applicable)	#/100ml		29	0	0
4/19/2022	Escherichia coli (Not Applicable)	#/100ml		454		
4/19/2022	Fecal Coliform (Not Applicable)	#/100ml		636		
4/19/2022	Klebsiella (Not Applicable)	#/100ml		182	0	0
4/26/2022	Escherichia coli (Not Applicable)	#/100ml		100		
4/26/2022	Fecal Coliform (Not Applicable)	#/100ml		300		
4/26/2022	Klebsiella (Not Applicable)	#/100ml		200	0	0
5/3/2022	Escherichia coli (Not Applicable)	#/100ml		1125		
5/3/2022	Fecal Coliform (Not Applicable)	#/100ml		2000		
5/3/2022	Klebsiella (Not Applicable)	#/100ml		875	0	0
5/10/2022	Escherichia coli (Not Applicable)	#/100ml		400		
5/10/2022	Fecal Coliform (Not Applicable)	#/100ml		500		
5/10/2022	Klebsiella (Not Applicable)	#/100ml		100	0	0
5/17/2022	Escherichia coli (Not Applicable)	#/100ml		700		
5/17/2022	Fecal Coliform (Not Applicable)	#/100ml		1000		
5/17/2022	Klebsiella (Not Applicable)	#/100ml		300	0	0
5/24/2022	Escherichia coli (Not Applicable)	#/100ml		100		
5/24/2022	Fecal Coliform (Not Applicable)	#/100ml		200		
5/24/2022	Klebsiella (Not Applicable)	#/100ml		100	0	0
5/31/2022	Escherichia coli (Not Applicable)	#/100ml		300		
5/31/2022	Fecal Coliform (Not Applicable)	#/100ml		900		
5/31/2022	Klebsiella (Not Applicable)	#/100ml		600	0	0
6/7/2022	Escherichia coli (Not Applicable)	#/100ml		0		
6/7/2022	Fecal Coliform (Not Applicable)	#/100ml		700		
6/7/2022	Klebsiella (Not Applicable)	#/100ml		700	0	0
6/14/2022	Escherichia coli (Not Applicable)	#/100ml		500		
6/14/2022	Fecal Coliform (Not Applicable)	#/100ml		700		
6/14/2022	Klebsiella (Not Applicable)	#/100ml		200	0	0
6/21/2022	Escherichia coli (Not Applicable)	#/100ml		28		
6/21/2022	Fecal Coliform (Not Applicable)	#/100ml		114		

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
6/21/2022	Klebsiella (Not Applicable)	#/100ml		86	0	0
6/28/2022	Escherichia coli (Not Applicable)	#/100ml		120		
6/28/2022	Fecal Coliform (Not Applicable)	#/100ml		160		
6/28/2022	Klebsiella (Not Applicable)	#/100ml		120	-80	1
8/2/2022	Escherichia coli (Not Applicable)	#/100ml		30		
8/2/2022	Fecal Coliform (Not Applicable)	#/100ml		270		
8/2/2022	Klebsiella (Not Applicable)	#/100ml		240	0	0
8/9/2022	Escherichia coli (Not Applicable)	#/100ml		10		
8/9/2022	Fecal Coliform (Not Applicable)	#/100ml		80		
8/9/2022	Klebsiella (Not Applicable)	#/100ml		70	0	0
8/16/2022	Escherichia coli (Not Applicable)	#/100ml		20		
8/16/2022	Fecal Coliform (Not Applicable)	#/100ml		100		
8/16/2022	Klebsiella (Not Applicable)	#/100ml		80	0	0
8/23/2022	Escherichia coli (Not Applicable)	#/100ml		0		
8/23/2022	Fecal Coliform (Not Applicable)	#/100ml		50		
8/23/2022	Klebsiella (Not Applicable)	#/100ml		50	0	0
8/30/2022	Escherichia coli (Not Applicable)	#/100ml		60		
8/30/2022	Fecal Coliform (Not Applicable)	#/100ml		150		
8/30/2022	Klebsiella (Not Applicable)	#/100ml		90	0	0
9/6/2022	Escherichia coli (Not Applicable)	#/100ml		10		
9/6/2022	Fecal Coliform (Not Applicable)	#/100ml		30		
9/6/2022	Klebsiella (Not Applicable)	#/100ml		20	0	0
9/15/2022	Escherichia coli (Not Applicable)	#/100ml		50000		
9/15/2022	Fecal Coliform (Not Applicable)	#/100ml		150000		
9/15/2022	Klebsiella (Not Applicable)	#/100ml		100000	0	0
9/22/2022	Escherichia coli (Not Applicable)	#/100ml		49		
9/22/2022	Fecal Coliform (Not Applicable)	#/100ml		49		
9/22/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
9/27/2022	Escherichia coli (Not Applicable)	#/100ml		0		
9/27/2022	Fecal Coliform (Not Applicable)	#/100ml		16		
9/27/2022	Klebsiella (Not Applicable)	#/100ml		16	0	0
10/4/2022	Escherichia coli (Not Applicable)	#/100ml		70		
10/4/2022	Fecal Coliform (Not Applicable)	#/100ml		130		
10/4/2022	Klebsiella (Not Applicable)	#/100ml		60	0	0
10/11/2022	Escherichia coli (Not Applicable)	#/100ml		20		
10/11/2022	Fecal Coliform (Not Applicable)	#/100ml		70		
10/11/2022	Klebsiella (Not Applicable)	#/100ml		50	0	0
10/18/2022	Escherichia coli (Not Applicable)	#/100ml		60		
10/18/2022	Fecal Coliform (Not Applicable)	#/100ml		280		
10/18/2022	Klebsiella (Not Applicable)	#/100ml		220	0	0

**TABLE A-1**  
**OUTFALL 003B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
10/25/2022	Escherichia coli (Not Applicable)	#/100ml		133		
10/25/2022	Fecal Coliform (Not Applicable)	#/100ml		600		
10/25/2022	Klebsiella (Not Applicable)	#/100ml		467	0	0
11/1/2022	Escherichia coli (Not Applicable)	#/100ml		133		
11/1/2022	Fecal Coliform (Not Applicable)	#/100ml		933		
11/1/2022	Klebsiella (Not Applicable)	#/100ml		800	0	0
11/8/2022	Escherichia coli (Not Applicable)	#/100ml		63		
11/8/2022	Fecal Coliform (Not Applicable)	#/100ml		63		
11/8/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
11/15/2022	Escherichia coli (Not Applicable)	#/100ml		22		
11/15/2022	Fecal Coliform (Not Applicable)	#/100ml		89		
11/15/2022	Klebsiella (Not Applicable)	#/100ml		67	0	0
11/22/2022	Escherichia coli (Not Applicable)	#/100ml		36		
11/22/2022	Fecal Coliform (Not Applicable)	#/100ml		291		
11/22/2022	Klebsiella (Not Applicable)	#/100ml		255	0	0
11/29/2022	Escherichia coli (Not Applicable)	#/100ml		111		
11/29/2022	Fecal Coliform (Not Applicable)	#/100ml		139		
11/29/2022	Klebsiella (Not Applicable)	#/100ml		28	0	0
				Count:	166	4

Percent where difference of E. coli from fecal coliform is within 10 units of Klebsiella 98%

Notes:

FC = Fecal coliform

EC = Escherichia coli (E. coli)

At the times no bacteria was detected, difference between Klebsiella and FC - E. coli is taken as zero

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
9/3/2019	Escherichia coli (Not Applicable)	#/100ml		120		
9/3/2019	Fecal Coliform (Not Applicable)	#/100ml		130		
9/3/2019	Klebsiella (Not Applicable)	#/100ml		0	10	0
9/10/2019	Escherichia coli (Not Applicable)	#/100ml		100		
9/10/2019	Fecal Coliform (Not Applicable)	#/100ml		1300		
9/10/2019	Klebsiella (Not Applicable)	#/100ml		1200	0	0
9/17/2019	Escherichia coli (Not Applicable)	#/100ml		1300		
9/17/2019	Fecal Coliform (Not Applicable)	#/100ml		2800		
9/17/2019	Klebsiella (Not Applicable)	#/100ml		1500	0	0
9/24/2019	Escherichia coli (Not Applicable)	#/100ml		33		
9/24/2019	Fecal Coliform (Not Applicable)	#/100ml		233		
9/24/2019	Klebsiella (Not Applicable)	#/100ml		200	0	0
10/1/2019	Escherichia coli (Not Applicable)	#/100ml		50		
10/1/2019	Fecal Coliform (Not Applicable)	#/100ml		125		
10/1/2019	Klebsiella (Not Applicable)	#/100ml		75	0	0
10/8/2019	Escherichia coli (Not Applicable)	#/100ml		300		
10/8/2019	Fecal Coliform (Not Applicable)	#/100ml		475		
10/8/2019	Klebsiella (Not Applicable)	#/100ml		175	0	0
10/15/2019	Escherichia coli (Not Applicable)	#/100ml		30		
10/15/2019	Fecal Coliform (Not Applicable)	#/100ml		210		
10/15/2019	Klebsiella (Not Applicable)	#/100ml		180	0	0
10/22/2019	Escherichia coli (Not Applicable)	#/100ml		340		
10/22/2019	Fecal Coliform (Not Applicable)	#/100ml		480		
10/22/2019	Klebsiella (Not Applicable)	#/100ml		140	0	0
10/29/2019	Escherichia coli (Not Applicable)	#/100ml		40		
10/29/2019	Fecal Coliform (Not Applicable)	#/100ml		50		
10/29/2019	Klebsiella (Not Applicable)	#/100ml		10	0	0
11/5/2019	Escherichia coli (Not Applicable)	#/100ml		20		
11/5/2019	Fecal Coliform (Not Applicable)	#/100ml		20		
11/5/2019	Klebsiella (Not Applicable)	#/100ml		0	0	0
11/12/2019	Escherichia coli (Not Applicable)	#/100ml		1200		
11/12/2019	Fecal Coliform (Not Applicable)	#/100ml		11400		
11/12/2019	Klebsiella (Not Applicable)	#/100ml		10200	0	0
11/19/2019	Escherichia coli (Not Applicable)	#/100ml		700		
11/19/2019	Fecal Coliform (Not Applicable)	#/100ml		1800		
11/19/2019	Klebsiella (Not Applicable)	#/100ml		1100	0	0
11/26/2019	Escherichia coli (Not Applicable)	#/100ml		700		
11/26/2019	Fecal Coliform (Not Applicable)	#/100ml		800		
11/26/2019	Klebsiella (Not Applicable)	#/100ml		100	0	0
12/3/2019	Escherichia coli (Not Applicable)	#/100ml		12666		
12/3/2019	Fecal Coliform (Not Applicable)	#/100ml		22666		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
12/3/2019	Klebsiella (Not Applicable)	#/100ml		10000	0	0
12/10/2019	Escherichia coli (Not Applicable)	#/100ml		200		
12/10/2019	Fecal Coliform (Not Applicable)	#/100ml		1000		
12/10/2019	Klebsiella (Not Applicable)	#/100ml		800	0	0
12/17/2019	Escherichia coli (Not Applicable)	#/100ml		50		
12/17/2019	Fecal Coliform (Not Applicable)	#/100ml		200		
12/17/2019	Klebsiella (Not Applicable)	#/100ml		150	0	0
12/23/2019	Escherichia coli (Not Applicable)	#/100ml		840		
12/23/2019	Fecal Coliform (Not Applicable)	#/100ml		950		
12/23/2019	Klebsiella (Not Applicable)	#/100ml		110	0	0
12/30/2019	Escherichia coli (Not Applicable)	#/100ml		360		
12/30/2019	Fecal Coliform (Not Applicable)	#/100ml		740		
12/30/2019	Klebsiella (Not Applicable)	#/100ml		380	0	0
1/7/2020	Escherichia coli (Not Applicable)	#/100ml		1307		
1/7/2020	Fecal Coliform (Not Applicable)	#/100ml		1369		
1/7/2020	Klebsiella (Not Applicable)	#/100ml		62	0	0
1/14/2020	Escherichia coli (Not Applicable)	#/100ml		50		
1/14/2020	Fecal Coliform (Not Applicable)	#/100ml		260		
1/14/2020	Klebsiella (Not Applicable)	#/100ml		210	0	0
1/21/2020	Escherichia coli (Not Applicable)	#/100ml		130		
1/21/2020	Fecal Coliform (Not Applicable)	#/100ml		530		
1/21/2020	Klebsiella (Not Applicable)	#/100ml		400	0	0
1/28/2020	Escherichia coli (Not Applicable)	#/100ml		133		
1/28/2020	Fecal Coliform (Not Applicable)	#/100ml		333		
1/28/2020	Klebsiella (Not Applicable)	#/100ml		200	0	0
2/4/2020	Escherichia coli (Not Applicable)	#/100ml		30		
2/4/2020	Fecal Coliform (Not Applicable)	#/100ml		60		
2/4/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
2/11/2020	Escherichia coli (Not Applicable)	#/100ml		70		
2/11/2020	Fecal Coliform (Not Applicable)	#/100ml		70		
2/11/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/18/2020	Escherichia coli (Not Applicable)	#/100ml		30		
2/18/2020	Fecal Coliform (Not Applicable)	#/100ml		70		
2/18/2020	Klebsiella (Not Applicable)	#/100ml		10	30	1
2/25/2020	Escherichia coli (Not Applicable)	#/100ml		20		
2/25/2020	Fecal Coliform (Not Applicable)	#/100ml		30		
2/25/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/3/2020	Escherichia coli (Not Applicable)	#/100ml		50		
3/3/2020	Fecal Coliform (Not Applicable)	#/100ml		50		
3/3/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/10/2020	Escherichia coli (Not Applicable)	#/100ml		10		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
3/10/2020	Fecal Coliform (Not Applicable)	#/100ml		20		
3/10/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/17/2020	Escherichia coli (Not Applicable)	#/100ml	<	5		
3/17/2020	Fecal Coliform (Not Applicable)	#/100ml	<	5		
3/17/2020	Klebsiella (Not Applicable)	#/100ml	<	5	0	0
3/24/2020	Escherichia coli (Not Applicable)	#/100ml		390		
3/24/2020	Fecal Coliform (Not Applicable)	#/100ml		500		
3/24/2020	Klebsiella (Not Applicable)	#/100ml		110	0	0
3/31/2020	Escherichia coli (Not Applicable)	#/100ml		5		
3/31/2020	Fecal Coliform (Not Applicable)	#/100ml		5		
3/31/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/7/2020	Escherichia coli (Not Applicable)	#/100ml		200		
4/7/2020	Fecal Coliform (Not Applicable)	#/100ml		200		
4/7/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/14/2020	Escherichia coli (Not Applicable)	#/100ml		70		
4/14/2020	Fecal Coliform (Not Applicable)	#/100ml		70		
4/14/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/21/2020	Escherichia coli (Not Applicable)	#/100ml		110		
4/21/2020	Fecal Coliform (Not Applicable)	#/100ml		130		
4/21/2020	Klebsiella (Not Applicable)	#/100ml		20	0	0
4/28/2020	Escherichia coli (Not Applicable)	#/100ml		150		
4/28/2020	Fecal Coliform (Not Applicable)	#/100ml		180		
4/28/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
5/5/2020	Escherichia coli (Not Applicable)	#/100ml		160		
5/5/2020	Fecal Coliform (Not Applicable)	#/100ml		190		
5/5/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
5/12/2020	Escherichia coli (Not Applicable)	#/100ml		110		
5/12/2020	Fecal Coliform (Not Applicable)	#/100ml		130		
5/12/2020	Klebsiella (Not Applicable)	#/100ml		20	0	0
5/19/2020	Escherichia coli (Not Applicable)	#/100ml		40		
5/19/2020	Fecal Coliform (Not Applicable)	#/100ml		50		
5/19/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
5/26/2020	Escherichia coli (Not Applicable)	#/100ml		118		
5/26/2020	Fecal Coliform (Not Applicable)	#/100ml		118		
5/26/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
6/2/2020	Escherichia coli (Not Applicable)	#/100ml		55		
6/2/2020	Fecal Coliform (Not Applicable)	#/100ml		73		
6/2/2020	Klebsiella (Not Applicable)	#/100ml		18	0	0
6/9/2020	Escherichia coli (Not Applicable)	#/100ml		100		
6/9/2020	Fecal Coliform (Not Applicable)	#/100ml		250		
6/9/2020	Klebsiella (Not Applicable)	#/100ml		150	0	0

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
6/16/2020	Escherichia coli (Not Applicable)	#/100ml		200		
6/16/2020	Fecal Coliform (Not Applicable)	#/100ml		233		
6/16/2020	Klebsiella (Not Applicable)	#/100ml		33	0	0
7/7/2020	Escherichia coli (Not Applicable)	#/100ml		40		
7/7/2020	Fecal Coliform (Not Applicable)	#/100ml		60		
7/7/2020	Klebsiella (Not Applicable)	#/100ml		20	0	0
7/14/2020	Escherichia coli (Not Applicable)	#/100ml		185		
7/14/2020	Fecal Coliform (Not Applicable)	#/100ml		185		
7/14/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
7/21/2020	Escherichia coli (Not Applicable)	#/100ml		5		
7/21/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
7/21/2020	Klebsiella (Not Applicable)	#/100ml		5	0	0
7/28/2020	Escherichia coli (Not Applicable)	#/100ml		35		
7/28/2020	Fecal Coliform (Not Applicable)	#/100ml		40		
7/28/2020	Klebsiella (Not Applicable)	#/100ml		5	0	0
8/4/2020	Escherichia coli (Not Applicable)	#/100ml		5		
8/4/2020	Fecal Coliform (Not Applicable)	#/100ml		5		
8/4/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/11/2020	Escherichia coli (Not Applicable)	#/100ml		40		
8/11/2020	Fecal Coliform (Not Applicable)	#/100ml		175		
8/11/2020	Klebsiella (Not Applicable)	#/100ml		135	0	0
8/18/2020	Escherichia coli (Not Applicable)	#/100ml		10		
8/18/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
8/18/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/25/2020	Escherichia coli (Not Applicable)	#/100ml		15		
8/25/2020	Fecal Coliform (Not Applicable)	#/100ml		140		
8/25/2020	Klebsiella (Not Applicable)	#/100ml		125	0	0
9/1/2020	Escherichia coli (Not Applicable)	#/100ml		0		
9/1/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
9/1/2020	Klebsiella (Not Applicable)	#/100ml		10	0	0
9/8/2020	Escherichia coli (Not Applicable)	#/100ml		10		
9/8/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
9/8/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
9/15/2020	Escherichia coli (Not Applicable)	#/100ml		15		
9/15/2020	Fecal Coliform (Not Applicable)	#/100ml		15		
9/15/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
9/22/2020	Escherichia coli (Not Applicable)	#/100ml		17		
9/22/2020	Fecal Coliform (Not Applicable)	#/100ml		2400000		
9/22/2020	Klebsiella (Not Applicable)	#/100ml		2399983	0	0
9/29/2020	Escherichia coli (Not Applicable)	#/100ml		43		
9/29/2020	Fecal Coliform (Not Applicable)	#/100ml		3250		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
9/29/2020	Klebsiella (Not Applicable)	#/100ml		2875	332	1
10/6/2020	Escherichia coli (Not Applicable)	#/100ml		0		
10/6/2020	Fecal Coliform (Not Applicable)	#/100ml		70		
10/6/2020	Klebsiella (Not Applicable)	#/100ml		70	0	0
10/13/2020	Escherichia coli (Not Applicable)	#/100ml		400		
10/13/2020	Fecal Coliform (Not Applicable)	#/100ml		1200		
10/13/2020	Klebsiella (Not Applicable)	#/100ml		800	0	0
10/20/2020	Escherichia coli (Not Applicable)	#/100ml		600		
10/20/2020	Fecal Coliform (Not Applicable)	#/100ml		833		
10/20/2020	Klebsiella (Not Applicable)	#/100ml		233	0	0
10/27/2020	Escherichia coli (Not Applicable)	#/100ml		0		
10/27/2020	Fecal Coliform (Not Applicable)	#/100ml		145		
10/27/2020	Klebsiella (Not Applicable)	#/100ml		145	0	0
11/3/2020	Escherichia coli (Not Applicable)	#/100ml		1429		
11/3/2020	Fecal Coliform (Not Applicable)	#/100ml		2486		
11/3/2020	Klebsiella (Not Applicable)	#/100ml		1057	0	0
11/10/2020	Escherichia coli (Not Applicable)	#/100ml		280		
11/10/2020	Fecal Coliform (Not Applicable)	#/100ml		500		
11/10/2020	Klebsiella (Not Applicable)	#/100ml		250	-30	1
11/17/2020	Escherichia coli (Not Applicable)	#/100ml		28		
11/17/2020	Fecal Coliform (Not Applicable)	#/100ml		56		
11/17/2020	Klebsiella (Not Applicable)	#/100ml		28	0	0
11/24/2020	Escherichia coli (Not Applicable)	#/100ml		15		
11/24/2020	Fecal Coliform (Not Applicable)	#/100ml		15		
11/24/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/1/2020	Escherichia coli (Not Applicable)	#/100ml		0		
12/1/2020	Fecal Coliform (Not Applicable)	#/100ml		30		
12/1/2020	Klebsiella (Not Applicable)	#/100ml		30	0	0
12/8/2020	Escherichia coli (Not Applicable)	#/100ml		10		
12/8/2020	Fecal Coliform (Not Applicable)	#/100ml		10		
12/8/2020	Klebsiella (Not Applicable)	#/100ml		10	-10	0
12/15/2020	Escherichia coli (Not Applicable)	#/100ml		16		
12/15/2020	Fecal Coliform (Not Applicable)	#/100ml		16		
12/15/2020	Klebsiella (Not Applicable)	#/100ml		0	0	0
12/22/2020	Escherichia coli (Not Applicable)	#/100ml		25		
12/22/2020	Fecal Coliform (Not Applicable)	#/100ml		113		
12/22/2020	Klebsiella (Not Applicable)	#/100ml		88	0	0
12/29/2020	Escherichia coli (Not Applicable)	#/100ml		7		
12/29/2020	Fecal Coliform (Not Applicable)	#/100ml		7		
12/29/2020	Klebsiella (Not Applicable)	#/100ml		7	-7	0
1/5/2021	Escherichia coli (Not Applicable)	#/100ml		0		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
1/5/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
1/5/2021	Klebsiella (Not Applicable)	#/100ml		20	0	0
1/12/2021	Escherichia coli (Not Applicable)	#/100ml		140		
1/12/2021	Fecal Coliform (Not Applicable)	#/100ml		160		
1/12/2021	Klebsiella (Not Applicable)	#/100ml		20	0	0
1/19/2021	Escherichia coli (Not Applicable)	#/100ml	<	9		
1/19/2021	Fecal Coliform (Not Applicable)	#/100ml	<	9		
1/19/2021	Klebsiella (Not Applicable)	#/100ml	<	9	0	0
1/26/2021	Escherichia coli (Not Applicable)	#/100ml	<	9		
1/26/2021	Fecal Coliform (Not Applicable)	#/100ml	<	9		
1/26/2021	Klebsiella (Not Applicable)	#/100ml	<	9	0	0
2/2/2021	Escherichia coli (Not Applicable)	#/100ml		25		
2/2/2021	Fecal Coliform (Not Applicable)	#/100ml		25		
2/2/2021	Klebsiella (Not Applicable)	#/100ml		77	-77	1
2/9/2021	Escherichia coli (Not Applicable)	#/100ml		20		
2/9/2021	Fecal Coliform (Not Applicable)	#/100ml		40		
2/9/2021	Klebsiella (Not Applicable)	#/100ml		37	-17	1
2/16/2021	Escherichia coli (Not Applicable)	#/100ml		29		
2/16/2021	Fecal Coliform (Not Applicable)	#/100ml		43		
2/16/2021	Klebsiella (Not Applicable)	#/100ml		43	-29	1
2/23/2021	Escherichia coli (Not Applicable)	#/100ml		138		
2/23/2021	Fecal Coliform (Not Applicable)	#/100ml		163		
2/23/2021	Klebsiella (Not Applicable)	#/100ml		32	-7	0
3/2/2021	Escherichia coli (Not Applicable)	#/100ml		0		
3/2/2021	Fecal Coliform (Not Applicable)	#/100ml		10		
3/2/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/9/2021	Escherichia coli (Not Applicable)	#/100ml	<	7		
3/9/2021	Fecal Coliform (Not Applicable)	#/100ml	<	7		
3/9/2021	Klebsiella (Not Applicable)	#/100ml	<	7	0	0
3/16/2021	Escherichia coli (Not Applicable)	#/100ml		5		
3/16/2021	Fecal Coliform (Not Applicable)	#/100ml		5		
3/16/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/23/2021	Escherichia coli (Not Applicable)	#/100ml		30		
3/23/2021	Fecal Coliform (Not Applicable)	#/100ml		40		
3/23/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
3/30/2021	Escherichia coli (Not Applicable)	#/100ml		20		
3/30/2021	Fecal Coliform (Not Applicable)	#/100ml		50		
3/30/2021	Klebsiella (Not Applicable)	#/100ml		30	0	0
4/6/2021	Escherichia coli (Not Applicable)	#/100ml		15		
4/6/2021	Fecal Coliform (Not Applicable)	#/100ml		15		
4/6/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
4/13/2021	Escherichia coli (Not Applicable)	#/100ml		10		
4/13/2021	Fecal Coliform (Not Applicable)	#/100ml		10		
4/13/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/20/2021	Escherichia coli (Not Applicable)	#/100ml		10		
4/20/2021	Fecal Coliform (Not Applicable)	#/100ml		10		
4/20/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/27/2021	Escherichia coli (Not Applicable)	#/100ml		10		
4/27/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
4/27/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
5/4/2021	Escherichia coli (Not Applicable)	#/100ml		30		
5/4/2021	Fecal Coliform (Not Applicable)	#/100ml		30		
5/4/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/11/2021	Escherichia coli (Not Applicable)	#/100ml		10		
5/11/2021	Fecal Coliform (Not Applicable)	#/100ml		15		
5/11/2021	Klebsiella (Not Applicable)	#/100ml		5	0	0
5/18/2021	Escherichia coli (Not Applicable)	#/100ml		420		
5/18/2021	Fecal Coliform (Not Applicable)	#/100ml		420		
5/18/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/25/2021	Escherichia coli (Not Applicable)	#/100ml		157		
5/25/2021	Fecal Coliform (Not Applicable)	#/100ml		286		
5/25/2021	Klebsiella (Not Applicable)	#/100ml		129	0	0
6/1/2021	Escherichia coli (Not Applicable)	#/100ml		50		
6/1/2021	Fecal Coliform (Not Applicable)	#/100ml		60		
6/1/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
6/8/2021	Escherichia coli (Not Applicable)	#/100ml		230		
6/8/2021	Fecal Coliform (Not Applicable)	#/100ml		270		
6/8/2021	Klebsiella (Not Applicable)	#/100ml		140	-100	1
6/15/2021	Escherichia coli (Not Applicable)	#/100ml		0		
6/15/2021	Fecal Coliform (Not Applicable)	#/100ml		200		
6/15/2021	Klebsiella (Not Applicable)	#/100ml		200	0	0
6/22/2021	Escherichia coli (Not Applicable)	#/100ml		70		
6/22/2021	Fecal Coliform (Not Applicable)	#/100ml		100		
6/22/2021	Klebsiella (Not Applicable)	#/100ml		30	0	0
6/29/2021	Escherichia coli (Not Applicable)	#/100ml		2600		
6/29/2021	Fecal Coliform (Not Applicable)	#/100ml		18000		
6/29/2021	Klebsiella (Not Applicable)	#/100ml		15400	0	0
7/6/2021	Escherichia coli (Not Applicable)	#/100ml		2000		
7/6/2021	Fecal Coliform (Not Applicable)	#/100ml		14000		
7/6/2021	Klebsiella (Not Applicable)	#/100ml		12000	0	0
7/13/2021	Escherichia coli (Not Applicable)	#/100ml		91		
7/13/2021	Fecal Coliform (Not Applicable)	#/100ml		1000		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
7/13/2021	Klebsiella (Not Applicable)	#/100ml		909	0	0
7/20/2021	Escherichia coli (Not Applicable)	#/100ml		91		
7/20/2021	Fecal Coliform (Not Applicable)	#/100ml		91		
7/20/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
7/27/2021	Escherichia coli (Not Applicable)	#/100ml		80		
7/27/2021	Fecal Coliform (Not Applicable)	#/100ml		80		
7/27/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/3/2021	Escherichia coli (Not Applicable)	#/100ml		10		
8/3/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
8/3/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
8/10/2021	Escherichia coli (Not Applicable)	#/100ml		5		
8/10/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
8/10/2021	Klebsiella (Not Applicable)	#/100ml		15	0	0
8/17/2021	Escherichia coli (Not Applicable)	#/100ml		9000		
8/17/2021	Fecal Coliform (Not Applicable)	#/100ml		57000		
8/17/2021	Klebsiella (Not Applicable)	#/100ml		48000	0	0
8/24/2021	Escherichia coli (Not Applicable)	#/100ml		63		
8/24/2021	Fecal Coliform (Not Applicable)	#/100ml		1500		
8/24/2021	Klebsiella (Not Applicable)	#/100ml		1437	0	0
8/31/2021	Escherichia coli (Not Applicable)	#/100ml		25		
8/31/2021	Fecal Coliform (Not Applicable)	#/100ml		75		
8/31/2021	Klebsiella (Not Applicable)	#/100ml		50	0	0
9/7/2021	Escherichia coli (Not Applicable)	#/100ml		40		
9/7/2021	Fecal Coliform (Not Applicable)	#/100ml		60		
9/7/2021	Klebsiella (Not Applicable)	#/100ml		20	0	0
9/14/2021	Escherichia coli (Not Applicable)	#/100ml		10		
9/14/2021	Fecal Coliform (Not Applicable)	#/100ml		10		
9/14/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
9/21/2021	Escherichia coli (Not Applicable)	#/100ml		10000		
9/21/2021	Fecal Coliform (Not Applicable)	#/100ml		18000		
9/21/2021	Klebsiella (Not Applicable)	#/100ml		17000	-9000	1
9/28/2021	Escherichia coli (Not Applicable)	#/100ml		0		
9/28/2021	Fecal Coliform (Not Applicable)	#/100ml		5333		
9/28/2021	Klebsiella (Not Applicable)	#/100ml		5333	0	0
10/5/2021	Escherichia coli (Not Applicable)	#/100ml		13		
10/5/2021	Fecal Coliform (Not Applicable)	#/100ml		263		
10/5/2021	Klebsiella (Not Applicable)	#/100ml		250	0	0
10/12/2021	Escherichia coli (Not Applicable)	#/100ml		0		
10/12/2021	Fecal Coliform (Not Applicable)	#/100ml		13		
10/12/2021	Klebsiella (Not Applicable)	#/100ml		13	0	0
10/19/2021	Escherichia coli (Not Applicable)	#/100ml		10		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
10/19/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
10/19/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
10/26/2021	Escherichia coli (Not Applicable)	#/100ml		82		
10/26/2021	Fecal Coliform (Not Applicable)	#/100ml		82		
10/26/2021	Klebsiella (Not Applicable)	#/100ml		0	0	0
11/2/2021	Escherichia coli (Not Applicable)	#/100ml		33		
11/2/2021	Fecal Coliform (Not Applicable)	#/100ml		50		
11/2/2021	Klebsiella (Not Applicable)	#/100ml		17	0	0
11/9/2021	Escherichia coli (Not Applicable)	#/100ml		0		
11/9/2021	Fecal Coliform (Not Applicable)	#/100ml		60		
11/9/2021	Klebsiella (Not Applicable)	#/100ml		60	0	0
11/16/2021	Escherichia coli (Not Applicable)	#/100ml		7		
11/16/2021	Fecal Coliform (Not Applicable)	#/100ml		73		
11/16/2021	Klebsiella (Not Applicable)	#/100ml		66	0	0
11/22/2021	Escherichia coli (Not Applicable)	#/100ml		20		
11/22/2021	Fecal Coliform (Not Applicable)	#/100ml		25		
11/22/2021	Klebsiella (Not Applicable)	#/100ml		5	0	0
11/30/2021	Escherichia coli (Not Applicable)	#/100ml		20		
11/30/2021	Fecal Coliform (Not Applicable)	#/100ml		30		
11/30/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
12/7/2021	Escherichia coli (Not Applicable)	#/100ml		50		
12/7/2021	Fecal Coliform (Not Applicable)	#/100ml		60		
12/7/2021	Klebsiella (Not Applicable)	#/100ml		10	0	0
12/14/2021	Escherichia coli (Not Applicable)	#/100ml		80		
12/14/2021	Fecal Coliform (Not Applicable)	#/100ml		110		
12/14/2021	Klebsiella (Not Applicable)	#/100ml		30	0	0
12/21/2021	Escherichia coli (Not Applicable)	#/100ml		0		
12/21/2021	Fecal Coliform (Not Applicable)	#/100ml		20		
12/21/2021	Klebsiella (Not Applicable)	#/100ml		20	0	0
12/28/2021	Escherichia coli (Not Applicable)	#/100ml	<	10		
12/28/2021	Fecal Coliform (Not Applicable)	#/100ml	<	10		
12/28/2021	Klebsiella (Not Applicable)	#/100ml	<	10	0	0
1/4/2022	Escherichia coli (Not Applicable)	#/100ml		80		
1/4/2022	Fecal Coliform (Not Applicable)	#/100ml		180		
1/4/2022	Klebsiella (Not Applicable)	#/100ml		100	0	0
1/11/2022	Escherichia coli (Not Applicable)	#/100ml		0		
1/11/2022	Fecal Coliform (Not Applicable)	#/100ml		10		
1/11/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
1/18/2022	Escherichia coli (Not Applicable)	#/100ml	<	5		
1/18/2022	Fecal Coliform (Not Applicable)	#/100ml	<	5		
1/18/2022	Klebsiella (Not Applicable)	#/100ml	<	5	0	0

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
1/25/2022	Escherichia coli (Not Applicable)	#/100ml		0		
1/25/2022	Fecal Coliform (Not Applicable)	#/100ml		5		
1/25/2022	Klebsiella (Not Applicable)	#/100ml		5	0	0
2/1/2022	Escherichia coli (Not Applicable)	#/100ml		0		
2/1/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
2/1/2022	Klebsiella (Not Applicable)	#/100ml		20	0	0
2/8/2022	Escherichia coli (Not Applicable)	#/100ml		5		
2/8/2022	Fecal Coliform (Not Applicable)	#/100ml		5		
2/8/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
2/15/2022	Escherichia coli (Not Applicable)	#/100ml		515		
2/15/2022	Fecal Coliform (Not Applicable)	#/100ml		530		
2/15/2022	Klebsiella (Not Applicable)	#/100ml		15	0	0
2/22/2022	Escherichia coli (Not Applicable)	#/100ml		20		
2/22/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
2/22/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/1/2022	Escherichia coli (Not Applicable)	#/100ml		100		
3/1/2022	Fecal Coliform (Not Applicable)	#/100ml		100		
3/1/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/8/2022	Escherichia coli (Not Applicable)	#/100ml		5		
3/8/2022	Fecal Coliform (Not Applicable)	#/100ml		5		
3/8/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/15/2022	Escherichia coli (Not Applicable)	#/100ml		30		
3/15/2022	Fecal Coliform (Not Applicable)	#/100ml		30		
3/15/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
3/22/2022	Escherichia coli (Not Applicable)	#/100ml		75		
3/22/2022	Fecal Coliform (Not Applicable)	#/100ml		500		
3/22/2022	Klebsiella (Not Applicable)	#/100ml		425	0	0
3/29/2022	Escherichia coli (Not Applicable)	#/100ml		100		
3/29/2022	Fecal Coliform (Not Applicable)	#/100ml		800		
3/29/2022	Klebsiella (Not Applicable)	#/100ml		700	0	0
4/5/2022	Escherichia coli (Not Applicable)	#/100ml		0		
4/5/2022	Fecal Coliform (Not Applicable)	#/100ml		27		
4/5/2022	Klebsiella (Not Applicable)	#/100ml		27	0	0
4/12/2022	Escherichia coli (Not Applicable)	#/100ml		800		
4/12/2022	Fecal Coliform (Not Applicable)	#/100ml		800		
4/12/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
4/19/2022	Escherichia coli (Not Applicable)	#/100ml		155		
4/19/2022	Fecal Coliform (Not Applicable)	#/100ml		164		
4/19/2022	Klebsiella (Not Applicable)	#/100ml		9	0	0
4/26/2022	Escherichia coli (Not Applicable)	#/100ml		0		
4/26/2022	Fecal Coliform (Not Applicable)	#/100ml		10		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
4/26/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
5/3/2022	Escherichia coli (Not Applicable)	#/100ml		10		
5/3/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
5/3/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
5/10/2022	Escherichia coli (Not Applicable)	#/100ml		20		
5/10/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
5/10/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
5/17/2022	Escherichia coli (Not Applicable)	#/100ml	<	10		
5/17/2022	Fecal Coliform (Not Applicable)	#/100ml	<	10		
5/17/2022	Klebsiella (Not Applicable)	#/100ml	<	10	0	0
5/24/2022	Escherichia coli (Not Applicable)	#/100ml		10		
5/24/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
5/24/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
5/31/2022	Escherichia coli (Not Applicable)	#/100ml		2850		
5/31/2022	Fecal Coliform (Not Applicable)	#/100ml		2950		
5/31/2022	Klebsiella (Not Applicable)	#/100ml		100	0	0
6/7/2022	Escherichia coli (Not Applicable)	#/100ml		150		
6/7/2022	Fecal Coliform (Not Applicable)	#/100ml		190		
6/7/2022	Klebsiella (Not Applicable)	#/100ml		40	0	0
6/14/2022	Escherichia coli (Not Applicable)	#/100ml		110		
6/14/2022	Fecal Coliform (Not Applicable)	#/100ml		150		
6/14/2022	Klebsiella (Not Applicable)	#/100ml		40	0	0
6/21/2022	Escherichia coli (Not Applicable)	#/100ml		20		
6/21/2022	Fecal Coliform (Not Applicable)	#/100ml		60		
6/21/2022	Klebsiella (Not Applicable)	#/100ml		40	0	0
6/28/2022	Escherichia coli (Not Applicable)	#/100ml		50		
6/28/2022	Fecal Coliform (Not Applicable)	#/100ml		50		
6/28/2022	Klebsiella (Not Applicable)	#/100ml		0	0	0
8/2/2022	Escherichia coli (Not Applicable)	#/100ml		3000		
8/2/2022	Fecal Coliform (Not Applicable)	#/100ml		12000		
8/2/2022	Klebsiella (Not Applicable)	#/100ml		9000	0	0
8/9/2022	Escherichia coli (Not Applicable)	#/100ml		9000		
8/9/2022	Fecal Coliform (Not Applicable)	#/100ml		22000		
8/9/2022	Klebsiella (Not Applicable)	#/100ml		13000	0	0
8/16/2022	Escherichia coli (Not Applicable)	#/100ml		229		
8/16/2022	Fecal Coliform (Not Applicable)	#/100ml		295		
8/16/2022	Klebsiella (Not Applicable)	#/100ml		66	0	0
8/23/2022	Escherichia coli (Not Applicable)	#/100ml		50		
8/23/2022	Fecal Coliform (Not Applicable)	#/100ml		120		
8/23/2022	Klebsiella (Not Applicable)	#/100ml		70	0	0
8/30/2022	Escherichia coli (Not Applicable)	#/100ml		250		

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
8/30/2022	Fecal Coliform (Not Applicable)	#/100ml		260		
8/30/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
9/6/2022	Escherichia coli (Not Applicable)	#/100ml		100		
9/6/2022	Fecal Coliform (Not Applicable)	#/100ml		110		
9/6/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
9/20/2022	Escherichia coli (Not Applicable)	#/100ml		270		
9/20/2022	Fecal Coliform (Not Applicable)	#/100ml		810		
9/20/2022	Klebsiella (Not Applicable)	#/100ml		540	0	0
9/27/2022	Escherichia coli (Not Applicable)	#/100ml		16		
9/27/2022	Fecal Coliform (Not Applicable)	#/100ml		98		
9/27/2022	Klebsiella (Not Applicable)	#/100ml		82	0	0
10/4/2022	Escherichia coli (Not Applicable)	#/100ml		50		
10/4/2022	Fecal Coliform (Not Applicable)	#/100ml		70		
10/4/2022	Klebsiella (Not Applicable)	#/100ml		20	0	0
10/11/2022	Escherichia coli (Not Applicable)	#/100ml		70		
10/11/2022	Fecal Coliform (Not Applicable)	#/100ml		90		
10/11/2022	Klebsiella (Not Applicable)	#/100ml		20	0	0
10/18/2022	Escherichia coli (Not Applicable)	#/100ml	<	10		
10/18/2022	Fecal Coliform (Not Applicable)	#/100ml	<	10		
10/18/2022	Klebsiella (Not Applicable)	#/100ml	<	10	0	0
10/25/2022	Escherichia coli (Not Applicable)	#/100ml		10		
10/25/2022	Fecal Coliform (Not Applicable)	#/100ml		70		
10/25/2022	Klebsiella (Not Applicable)	#/100ml		60	0	0
11/1/2022	Escherichia coli (Not Applicable)	#/100ml		67		
11/1/2022	Fecal Coliform (Not Applicable)	#/100ml		167		
11/1/2022	Klebsiella (Not Applicable)	#/100ml		100	0	0
11/8/2022	Escherichia coli (Not Applicable)	#/100ml		70		
11/8/2022	Fecal Coliform (Not Applicable)	#/100ml		160		
11/8/2022	Klebsiella (Not Applicable)	#/100ml		90	0	0
11/15/2022	Escherichia coli (Not Applicable)	#/100ml		20		
11/15/2022	Fecal Coliform (Not Applicable)	#/100ml		80		
11/15/2022	Klebsiella (Not Applicable)	#/100ml		60	0	0
11/22/2022	Escherichia coli (Not Applicable)	#/100ml		10		
11/22/2022	Fecal Coliform (Not Applicable)	#/100ml		20		
11/22/2022	Klebsiella (Not Applicable)	#/100ml		10	0	0
11/29/2022	Escherichia coli (Not Applicable)	#/100ml	<	10		
11/29/2022	Fecal Coliform (Not Applicable)	#/100ml	<	10		
11/29/2022	Klebsiella (Not Applicable)	#/100ml	<	10	0	0

Count: 163 8

Percent where difference of E. coli from fecal coliform is within 10 units of Klebsiella 95%

**TABLE A-2**  
**OUTFALL 004B - BACTERIA MONITORING RESULTS**  
**WEYERHAEUSER NR COMPANY - LONGVIEW LUMBER**

Sample Date	Parameter	Units	Value Qualifier	Measured Value	Difference between FC-EC and Klebsiella	Difference of 10 or Less (0=Yes, 1=No)
-------------	-----------	-------	--------------------	-------------------	---	--

Notes:

FC = Fecal coliform

EC = Escherichia coli (E. coli)

At the times no bacteria was detected, difference between Klebsiella and FC - E. coli is taken as zero

## **Specific Requested Changes to NPDES Permit Special Conditions**

**(2) Stormwater Discharge to CDID Ditch #3**  
**Outfall 003B (East Pond)**

See Special Condition S3.A. for Reporting and Recording Requirements.

Parameter	Units & Speciation	Minimum Sampling Frequency	Sample Type
Flow	1000 gallons/day (gpd)	Continuous <sup>c</sup>	Metered/recorded Report Daily Maximum and Monthly Average
pH <sup>d</sup>	standard units	4/Week	Grab <sup>b</sup>
BOD <sub>5</sub>	mg/L	Weekly	Grab <sup>b</sup>
Dissolved Oxygen	mg/L	Monthly <sup>a</sup>	Grab <sup>b</sup>
Oil and Grease	mg/L	Monthly <sup>a</sup>	Grab <sup>b</sup>
Zinc (Total)	micrograms/liter (µg/L)	Quarterly <sup>e</sup>	Grab <sup>b</sup>
Copper (Total)	µg/L	Quarterly <sup>e</sup>	Grab <sup>b</sup>
Fecal Coliform <sup>f</sup>	# /100 mL	Weekly	Grab <sup>b</sup>
<del>Klebsiella <sup>f</sup></del>	<del># /100 mL</del>	<del>Weekly</del>	<del>Grab <sup>b</sup></del>
E. coli <sup>f</sup>	# /100 mL	Weekly	Grab <sup>b</sup>
Settleable Solids	mL/L	Weekly	Grab <sup>b</sup>
Turbidity	NTU	Weekly	Grab <sup>b</sup>

Footnotes:

- Monthly means once every calendar month.
- Grab means an individual sample collected over a fifteen (15) minute, or less, period. (3)  
Stormwater Discharge to CDID Ditch #3 – Outfall 004B
- Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance. The time interval for the associated data logger must be no greater than 30 minutes.  
If continuous monitoring is not possible, the Permittee must notify Ecology as soon as possible upon discovery. The required monitoring frequency will be determined on a case-by-case basis. Ecology will notify the Permittee of the required monitoring frequency.
- The Permittee must report the instantaneous maximum and minimum pH monthly. Do not average pH values.
- Quarterly sampling periods are January through March, April through June, July through September, and October through December. The Permittee must begin quarterly monitoring for the quarter beginning on 10/1/19 and submit results by 2/15/20.
- Report a numerical value for fecal coliforms following the procedures in Ecology's Information Manual for Wastewater Treatment Plant Operators, Publication Number 04-10-020 available at: <https://apps.ecology.wa.gov/publications/documents/0410020.pdf>. Do not report a result as too numerous to count (TNTC).

### (3) Stormwater Discharge to CDID Ditch #3

#### Outfall 004B

See Special Condition S3.A. for Reporting and Recording Requirements.

Parameter	Units & Speciation	Minimum Sampling Frequency	Sample Type
Flow	1000 gallons/day (gpd)	Continuous <sup>c</sup>	Metered/recorded Report Daily Maximum and Monthly Average
pH <sup>d</sup>	standard units	Weekly	Grab <sup>b</sup>
BOD <sub>5</sub>	mg/L	Weekly	Grab <sup>b</sup>
COD	mg/L	Weekly	Grab <sup>b</sup>
Dissolved Oxygen	mg/L	Monthly <sup>a</sup>	Grab <sup>b</sup>
Oil and Grease	mg/L	Monthly <sup>a</sup>	Grab <sup>b</sup>
Zinc (Total)	micrograms/liter (µg/L)	Quarterly <sup>e</sup>	Grab <sup>b</sup>
Copper (Total)	µg/L	Quarterly <sup>e</sup>	Grab <sup>b</sup>
Fecal Coliform <sup>f</sup>	# /100 mL	Monthly <sup>a</sup>	Grab <sup>b</sup>
<del>Klebsiella <sup>f</sup></del>	<del># /100 mL</del>	<del>Monthly <sup>a</sup></del>	<del>Grab <sup>b</sup></del>
E. coli <sup>f</sup>	# /100 mL	Monthly <sup>a</sup>	Grab <sup>b</sup>
Settleable Solids	mL/L	Weekly	Grab <sup>b</sup>
Turbidity	NTU	Weekly	Grab <sup>b</sup>

Footnotes:

- Monthly means once every calendar month.
- Grab means an individual sample collected over a fifteen (15) minute, or less, period. (3)  
Stormwater Discharge to CDID Ditch #3 – Outfall 004B
- Continuous means uninterrupted except for brief lengths of time for calibration, power failure, or unanticipated equipment repair or maintenance. The time interval for the associated data logger must be no greater than 30 minutes.  
If continuous monitoring is not possible, the Permittee must notify Ecology as soon as possible upon discovery. The required monitoring frequency will be determined on a case-by-case basis. Ecology will notify the Permittee of the required monitoring frequency.
- The Permittee must report the instantaneous maximum and minimum pH monthly. Do not average pH values.
- Quarterly sampling periods are January through March, April through June, July through September, and October through December. The Permittee must begin quarterly monitoring for the quarter beginning on 10/1/19 and submit results by 2/15/20.
- Report a numerical value for fecal coliforms following the procedures in Ecology's Information Manual for Wastewater Treatment Plant Operators, Publication Number 04-10-020 available at: <https://apps.ecology.wa.gov/publications/documents/0410020.pdf>. Do not report a result as too numerous to count (TNTC).