

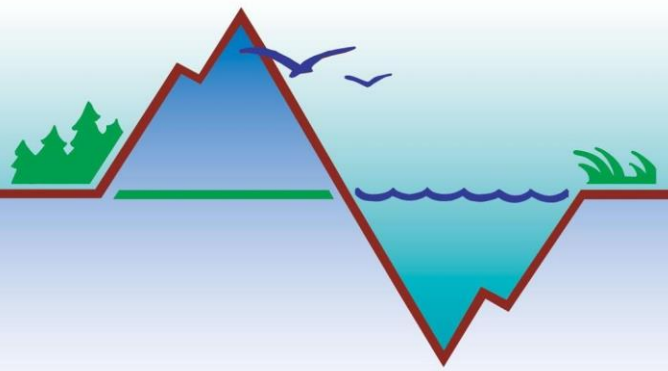
Kachemak Bay Research Reserve Phytoplankton Update

October 1st – October 7th, 2021

Harmful Algal Bloom Program

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Hello Everyone,

This will be the last KBNERR Phytoplankton Update for 2021. This week we saw an increase in abundance of *Pseudo-nitzschia* at two sample locations, Eldred passage and Peterson Bay. *Pseudo-nitzschia* sp. can produce domoic acid and cause amnesiac shellfish poisoning when toxic shellfish are consumed. Cell counts for all three species of concern are used to determine abundance classification. It is not unusual for *Pseudo-nitzschia* to reach these density levels in Kachemak Bay during the sampling season. To date in Alaska there are no reported cases of amnesiac shellfish poisoning in humans.

Commercially harvested shellfish are monitored by DEC and considered safe for consumption.

We will share our Phytoplankton Annual Report via email in December. As always, please reach out with any questions.

Thank you to all our monitors for collecting phytoplankton samples this especially summer!
Jasmine and Rosie

**Due to weather delays, shipping distances and times, the processing of some samples may happen after the weekly update is shared. The results from these samples will be included in subsequent updates, which is why not all sample dates in the tables below fall within the date range of the current Weekly Update.

Kachemak Bay Research Reserve Phytoplankton Update Qualitative Analysis Phytoplankton Data

INNER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
10/02/2021	Peterson Bay	8	36	<i>Pseudo-nitzschia</i>	Present	Abundant	None
10/07/2021	Homer Harbor	-	-	Mixed Diatoms	Present	Present	None

OUTER BAY

DATE	Bay	Water Temp	Salinity	Dominant species	Dinophysis	Pseudo-nitzschia	Alexandrium
10/05/2021	Eldred Passage	9	29.7	<i>Pseudo-nitzschia</i>	Present	Abundant	Present
10/05/2021	Kasitsna Bay	8.9	29.9	Mixed Diatoms	Present	Present	None



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