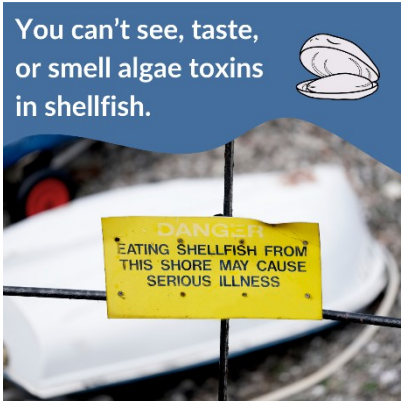


## Attachment 9 - Materials to test

### Shellfish HAB toxin materials to test

| Type of material  | Graphic/ Screenshot                                                                 | Message                                                                                                                                                                                                                                                                                         | Testing presentation                             |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Social media post |    | <p>You can't see, taste, or smell toxins from algae in shellfish. Check for and follow local shellfish advisories before eating any shellfish you collect yourself. More ways to avoid getting sick:</p> <p><a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p>                             | Show social media post on slide, read copy aloud |
| Social media post |   | <p>Eating shellfish from waters with harmful algae can make you sick. Check for local advisories from your state government before collecting shellfish. Where to find advisories:</p> <p><a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p>                                               | Show social media post on slide, read copy aloud |
| Social media post |  | <p>You can't see, taste, or smell algae toxins in shellfish. Cooking won't remove them either. Avoid food poisoning by following shellfish guidelines posted on your state's website or near the water. More about algae toxins:</p> <p><a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p> | Show social media post on slide, read copy aloud |

|                   |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                             |                                                         |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| Social media post |                                                                                                                                                                                             | <p>Before you collect and eat shellfish, check shellfish advisories from your local government. Tasteless and odorless toxins can contaminate shellfish and give you food poisoning. More ways to avoid getting sick: <a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p>                                               | <p>Show social media post on slide, read copy aloud</p> |
| Social media post |                                                                                                                                                                                            | <p>Coastal states test shellfish for algae toxins (poisons). If levels in shellfish are unsafe, they'll close harvesting areas to protect you. Always follow local advisories to avoid getting food poisoning from shellfish you harvest. Where to find advisories: <a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p> | <p>Show social media post on slide, read copy aloud</p> |
| Social media post | <p>Eating shellfish with algae toxins can cause:</p> <ul style="list-style-type: none"> <li>• Diarrhea</li> <li>• Throwing up</li> <li>• Numb mouth</li> <li>• Other symptoms</li> </ul>  | <p>Eating contaminated shellfish you've collected yourself can cause mild to life-threatening symptoms. Avoid getting sick by checking your state's website for advisories before collecting shellfish.</p> <p>More possible symptoms: <a href="https://www.cdc.gov/habs">cdc.gov/habs</a></p>                              | <p>Show social media post on slide, read copy aloud</p> |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |                                                  |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Social media post   | <p><b>Do you collect shellfish?</b></p> <p>Avoid food poisoning by following shellfish advisories from your local government.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Seafood sold in U.S. stores or restaurants must meet safety standards. However, these standards don't apply to seafood you collect yourself. Always check for advisories from your local government before eating seafood you collect yourself. Find out why: <a href="https://www.cdc.gov/habs">cdc.gov/habs</a> | Show social media post on slide, read copy aloud |
| Social media post   | <p>Eating shellfish with algae toxins can cause:</p> <ul style="list-style-type: none"> <li>• Diarrhea</li> <li>• Throwing up</li> <li>• Numb mouth</li> <li>• Other symptoms</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Feel sick after eating shellfish you collected yourself? Contact a healthcare provider or Poison Control at 1-800-222-1222. They can help you feel better. Get more info about symptoms: <a href="https://www.cdc.gov/habs">cdc.gov/habs</a>                                                                      | Show social media post on slide, read copy aloud |
| Website information | <p>Fishing or collecting shellfish</p> <p>Check for and follow local shellfish and fishing advisories before eating any fish or shellfish you catch or collect yourself. Find advisories on your <a href="#">state's website</a> or posted near the water.</p> <p>Harmful algal bloom toxins in fish or shellfish have no taste or smell. Cooking or preserving food does <b>not</b> remove toxins. You cannot tell if the seafood is safe just by looking at, smelling, or tasting it.</p> <p>Your state government is required to control for toxins in areas where harmful algal blooms are likely to grow and toxins could build up in shellfish. This can include:</p> <ul style="list-style-type: none"> <li>• Routine monitoring for toxic algae or shellfish</li> <li>• Testing shellfish for toxins before or after harvesting</li> </ul> <p>If levels of toxins are unsafe, state authorities will close the area for shellfish harvesting until shellfish are safe to eat.</p> | Information on <a href="#">Preventing Illnesses Caused by Harmful Algal Blooms   Harmful Algal Bloom (HAB)-Associated Illness   CDC</a>                                                                                                                                                                           | Show webpage content using web link              |

| <p>Website<br/>informa<br/>tion</p>    | <p>Eating contaminated food</p> <p>Shellfish get contaminated with harmful algal bloom toxins when they filter and concentrate water that contains toxins. Fish build up toxins by eating toxic algae or other animals that already have toxins in their bodies. People and animals can get sick when they eat these shellfish or fish.</p> <p>Saltwater fish and shellfish</p> <p>Eating shellfish or reef fish contaminated with harmful algal bloom toxins can cause symptoms like vomiting or diarrhea. Symptoms can be serious in some cases. Reef fish include barracuda, grouper, or amberjack.</p> <div><p>Keep Reading:</p><p>Symptoms of Illnesses Caused by Saltwater Harmful Algal Blooms</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <p>Information on <a href="#">How People and Animals Get Sick From Harmful Algal Blooms   Harmful Algal Bloom (HAB)-Associated Illness   CDC</a></p> | <p>Show webpage content using web link</p>                                                         |                                                                                    |                                                                                    |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         |                                                  |                                                                   |                                                                   |                                                  |                            |                                                        |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                           |                                                                      |         |         |                    |         |                  |                                                             |                 |                                               |                                                                          |                 |                                                                                        |                 |
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---------------------------------------|-----------------|----------------------------------------------------------------------------------------|-----------------|
| <p>PDF</p>                             | <p>Diseases and conditions caused by eating seafood contaminated with algal toxins</p> <p>Available here: <a href="https://www.cdc.gov/habs/press-releases/2018/08/20180820-habs-diseases">www.cdc.gov/habs/press-releases/2018/08/20180820-habs-diseases</a></p>  <table><thead><tr><th></th><th colspan="5">Disease or Condition</th></tr></thead><tbody><tr><td></td><td>Open-vent fish poisoning (OFP)</td><td>Neurotoxic shellfish poisoning (NSP)</td><td>Pseudo-tuberculosis (PTB)</td><td>Toxic and potentially fatal poisoning (TFP)</td><td>Paralytic shellfish poisoning (PSP)</td></tr><tr><td><b>Toxin-producing organisms</b></td><td>Dinoflagellates: <i>Gyrodinium aureolum</i>, possibly others</td><td>Dinoflagellates: <i>Karreriella</i> (rare) and other <i>Karreriella</i> spp.</td><td>Dinoflagellates: <i>Gyrodinium aureolum</i>, <i>Pseudo-nitzschia</i>, <i>Alexandrium</i> species</td><td>Dinoflagellates: <i>Pseudo-nitzschia</i> species</td><td>Dinoflagellates: <i>Dinophysis</i> species, <i>Prorocentrum</i> spp.</td></tr><tr><td><b>Toxin(s)</b></td><td>Ciguatera, Malassez</td><td>Brevetoxins</td><td>Saxitoxins</td><td>Domoic acid</td><td>Oyster acid</td></tr><tr><td><b>Foods likely to be contaminated</b></td><td>Seafood</td><td>Shellfish, primarily mollusks, oysters, scallops</td><td>Shellfish, primarily mollusks, oysters, scallops, and crustaceans</td><td>Shellfish, primarily mollusks, oysters, scallops, and crustaceans</td><td>Shellfish, primarily mollusks, oysters, scallops</td></tr><tr><td><b>Short-term symptoms</b></td><td>Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain</td><td>Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain</td><td>Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain</td><td>Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain</td><td>Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain</td></tr><tr><td><b>Long-term symptoms</b></td><td>Abnormal heart and cold sweats, Pain, Neurotoxic, Low blood pressure</td><td>Unknown</td><td>Unknown</td><td>Possibly paralysis</td><td>Unknown</td></tr><tr><td><b>Treatment</b></td><td>Supportive care (treatment of symptoms), Possibly IV fluids</td><td>Supportive care</td><td>Supportive care, Possibly respiratory support</td><td>Supportive care, manually for other organs and those with kidney disease</td><td>Supportive care</td></tr></tbody></table> <div><p>U.S. Department of Health and Human Services<br/>Centers for Disease Control and Prevention</p><p><a href="http://www.cdc.gov/habs">www.cdc.gov/habs</a></p></div> |                                                                                                                                                      | Disease or Condition                                                                               |                                                                                    |                                                                                    |  |  |  | Open-vent fish poisoning (OFP) | Neurotoxic shellfish poisoning (NSP) | Pseudo-tuberculosis (PTB) | Toxic and potentially fatal poisoning (TFP) | Paralytic shellfish poisoning (PSP) | <b>Toxin-producing organisms</b> | Dinoflagellates: <i>Gyrodinium aureolum</i> , possibly others | Dinoflagellates: <i>Karreriella</i> (rare) and other <i>Karreriella</i> spp. | Dinoflagellates: <i>Gyrodinium aureolum</i> , <i>Pseudo-nitzschia</i> , <i>Alexandrium</i> species | Dinoflagellates: <i>Pseudo-nitzschia</i> species | Dinoflagellates: <i>Dinophysis</i> species, <i>Prorocentrum</i> spp. | <b>Toxin(s)</b> | Ciguatera, Malassez | Brevetoxins | Saxitoxins | Domoic acid | Oyster acid | <b>Foods likely to be contaminated</b> | Seafood | Shellfish, primarily mollusks, oysters, scallops | Shellfish, primarily mollusks, oysters, scallops, and crustaceans | Shellfish, primarily mollusks, oysters, scallops, and crustaceans | Shellfish, primarily mollusks, oysters, scallops | <b>Short-term symptoms</b> | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain | <b>Long-term symptoms</b> | Abnormal heart and cold sweats, Pain, Neurotoxic, Low blood pressure | Unknown | Unknown | Possibly paralysis | Unknown | <b>Treatment</b> | Supportive care (treatment of symptoms), Possibly IV fluids | Supportive care | Supportive care, Possibly respiratory support | Supportive care, manually for other organs and those with kidney disease | Supportive care | <p>Diseases and conditions caused by eating seafood contaminated with algal toxins</p> | <p>Show PDF</p> |
|                                        | Disease or Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                   |                 |                                                                                        |                 |
|                                        | Open-vent fish poisoning (OFP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Neurotoxic shellfish poisoning (NSP)                                                                                                                 | Pseudo-tuberculosis (PTB)                                                                          | Toxic and potentially fatal poisoning (TFP)                                        | Paralytic shellfish poisoning (PSP)                                                |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        | 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                                           |                 |                                                                                        |                 |
| <b>Toxin-producing organisms</b>       | Dinoflagellates: <i>Gyrodinium aureolum</i> , possibly others                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dinoflagellates: <i>Karreriella</i> (rare) and other <i>Karreriella</i> spp.                                                                         | Dinoflagellates: <i>Gyrodinium aureolum</i> , <i>Pseudo-nitzschia</i> , <i>Alexandrium</i> species | Dinoflagellates: <i>Pseudo-nitzschia</i> species                                   | Dinoflagellates: <i>Dinophysis</i> species, <i>Prorocentrum</i> spp.               |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         |                                                  |                                                                   |                                                                   |                                                  |                            |                                                        |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                           |                                                                      |         |         |                    |         |                  |                                                             |                 |                                               |                                                                          |                 |                                                                                        |                 |
| <b>Toxin(s)</b>                        | Ciguatera, Malassez                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Brevetoxins                                                                                                                                          | Saxitoxins                                                                                         | Domoic acid                                                                        | Oyster acid                                                                        |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         |                                                  |                                                                   |                                                                   |                                                  |                            |                                                        |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                           |                                                                      |         |         |                    |         |                  |                                                             |                 |                                               |                                                                          |                 |                                                                                        |                 |
| <b>Foods likely to be contaminated</b> | Seafood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Shellfish, primarily mollusks, oysters, scallops                                                                                                     | Shellfish, primarily mollusks, oysters, scallops, and crustaceans                                  | Shellfish, primarily mollusks, oysters, scallops, and crustaceans                  | Shellfish, primarily mollusks, oysters, scallops                                   |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         |                                                  |                                                                   |                                                                   |                                                  |                            |                                                        |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                           |                                                                      |         |         |                    |         |                  |                                                             |                 |                                               |                                                                          |                 |                                                                                        |                 |
| <b>Short-term symptoms</b>             | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain                                                                   | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain                 | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain | Nausea, Vomiting, Diarrhea, Stomach pain, Stomach pain, Stomach pain, Stomach pain |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         |                                                  |                                                                   |                                                                   |                                                  |                            |                                                        |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                           |                                                                      |         |         |                    |         |                  |                                                             |                 |                                               |                                                                          |                 |                                                                                        |                 |
| <b>Long-term symptoms</b>              | Abnormal heart and cold sweats, Pain, Neurotoxic, Low blood pressure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                                                                                          | Possibly paralysis                                                                 | Unknown                                                                            |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        |         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                                   |                 |                                                                                        |                 |
| <b>Treatment</b>                       | Supportive care (treatment of symptoms), Possibly IV fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Supportive care                                                                                                                                      | Supportive care, Possibly respiratory support                                                      | Supportive care, manually for other organs and those with kidney disease           | Supportive care                                                                    |  |  |  |                                |                                      |                           |                                             |                                     |                                  |                                                               |                                                                              |                                                                                                    |                                                  |                                                                      |                 |                     |             |            |             |             |                                        | 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                                           |                 |                                                                                        |                 |