

## Harmful Algal Bloom Guidance & Resources

### HAB Webpage, Surveillance Map & General Information

<p><b><u>Harmful Algal Bloom - Main Page</u></b> It is the official VDH-DEE-HAB website. It contains information and resources related to the Harmful Algal Bloom Program.</p>	<p><a href="http://www.SwimHealthyVA.com">www.SwimHealthyVA.com</a></p>
<p><b><u>Harmful Algal Bloom Surveillance-Map</u></b> It reflects the status of algae blooms during HAB season (March-November), as well as the results of algae bloom samples. The map is updated weekly or as needed year around.</p>	<p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-blooms-habs/algae-bloom-surveillance-map/">http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-blooms-habs/algae-bloom-surveillance-map/</a></p>
<p><b><u>HAB Online Report Form</u></b> The form provides an option for online HAB report submittal. It can be utilized by the publics and environmental health professionals. It provides an easy way for the primary task force members to communicate HAB reports received by them with one another and to request assistance.</p>	<p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-bloom-online-report-form/">http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-bloom-online-report-form/</a></p>
<p><b><u>Temporary Feature Page – <i>A.monilatum</i></u></b> Example of a bloom webpage for featuring a bloom of significance and a link to the FAQs. These pages facilitate public outreach during bloom events.</p>	<p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/alexandrium-monilatum-hab-in-lower-york-lower-james-rivers-and-chesapeake-bay/">http://www.vdh.virginia.gov/environmental-epidemiology/alexandrium-monilatum-hab-in-lower-york-lower-james-rivers-and-chesapeake-bay/</a></p> <p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/frequently-asked-questions-faqs-alexandrium-monilatum/">http://www.vdh.virginia.gov/environmental-epidemiology/frequently-asked-questions-faqs-alexandrium-monilatum/</a></p>
<p><b><u>HAB Taskforce Response Plan (2017)</u></b> The response plan is intended as a brief, public-facing document which articulates the function, roles, and responsibilities of the primary taskforce agencies and expectations on services provided by each during HAB events.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Virginia_HAB_ResponsePlan_Final_2017.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Virginia_HAB_ResponsePlan_Final_2017.pdf</a></p>
<p><b><u>HAB Universal Talking Points</u></b></p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Talking-points-for-discussing-harmful-algal-blooms.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Talking-points-for-discussing-harmful-algal-blooms.pdf</a></p>
<p><b><u>VDH Brochures:</u></b> <b><i>Harmful Algal Blooms and other Organisms of Concern in Coastal Waters</i></b></p> <p><b><i>Cyanobacteria (Blue-Green Algae)</i></b></p> <p><b><i>Algal Blooms: Information for Virginia's Working Waterfront</i></b></p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2016/04/HABs_Brochure.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2016/04/HABs_Brochure.pdf</a></p> <p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2016/02/Cyanobacteria_Bro.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2016/02/Cyanobacteria_Bro.pdf</a></p> <p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2018/05/HAB-FAQ-for-Watermen-2018_update.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2018/05/HAB-FAQ-for-Watermen-2018_update.pdf</a></p>
<p><b><u>Poison Hotline &amp; Map of Centers</u></b> Poison Control Centers may be engaged to utilize HAB talking points and specific waterbody-bloom information to the public during bloom events.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Virginia-Poison-Control-Centers.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Virginia-Poison-Control-Centers.pdf</a></p>

## Epidemiology Resources &amp; Information

<p><b><u>HAB Process Flow</u></b> The flow chart is intended to serve as a job aide for VDH staff for the coordinating, reporting, and investigating of HAB events.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/HABCommunicationProcessFlow_FINAL.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/HABCommunicationProcessFlow_FINAL.pdf</a></p>
<p><b><u>*VDH HAB Human Screening Form</u></b> Is intended to facilitate the investigation of a reported waterborne exposure, such that the local health district can more easily determine whether or not the more comprehensive OHHABS human report form is necessary.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Harmful-Algal-Bloom-Health-Survey_Final.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Harmful-Algal-Bloom-Health-Survey_Final.pdf</a></p>
<p><b><u>CDC-One Health Harmful Algal Bloom System (OHHABS) Online Guidance and Training Resources</u></b> The newly launched OHHABS system provides a database for collecting and storing environmental, animal, and human HAB exposure information.</p> <p><b>*OHHABS- Human Form and Guidance</b> May be utilized by Epi Staff when one or more exposures are reported</p> <p>Event and Case Definitions Tables offer definition of HAB event and human HAB associated case.</p>	<p><a href="http://www.cdc.gov/habs/ohhabs.html">http://www.cdc.gov/habs/ohhabs.html</a></p> <p><a href="http://www.cdc.gov/habs/pdf/ohhabs-human-form.pdf">http://www.cdc.gov/habs/pdf/ohhabs-human-form.pdf</a> and <a href="https://www.cdc.gov/habs/pdf/ohhabs-human-form-guidance.pdf">https://www.cdc.gov/habs/pdf/ohhabs-human-form-guidance.pdf</a></p> <p><a href="https://www.cdc.gov/habs/pdf/ohhabs-case-and-event-definitions-table-3-14-17.pdf">https://www.cdc.gov/habs/pdf/ohhabs-case-and-event-definitions-table-3-14-17.pdf</a></p>
<p><b>CDC – HAB Associated Illness and Syndromes</b></p>	<p><a href="http://www.cdc.gov/habs/illness.html">http://www.cdc.gov/habs/illness.html</a></p>
<p><b>VDH – Marine Toxins and Associated Syndromes</b></p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Marine-Toxins-and-Associated-Syndromes.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Marine-Toxins-and-Associated-Syndromes.pdf</a></p>
<p><b>VDH – Cyanobacteria Toxins and Health Effects</b></p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Cyanobacteria-Genera_Toxins-Health-Effect.pdf.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Cyanobacteria-Genera_Toxins-Health-Effect.pdf.pdf</a></p>
<p><i>*Fax completed forms to DEE (804-864-8131)</i></p>	
<p><b>Resources for Environmental Health Specialists</b></p>	
<p><b><u>VDH – Provisional Recreational Water Guidance for Microcystin and Microsystis Blooms</u></b> This document supports decision-making by public health &amp; environmental officials in response to the occurrence of a Microcystis algal bloom in Virginia’s waters.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2016/02/VDHMicrocystisGuidance.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2016/02/VDHMicrocystisGuidance.pdf</a></p>
<p><b><u>HAB Public Notification</u></b> <i>Press Releases</i> Template press releases for issuing or lifting recreational advisories.</p> <p><i>HAB Signs</i> Signs for raising HAB-awareness and posting HAB-affected waterways.</p>	<p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/public-notification-templates/">http://www.vdh.virginia.gov/environmental-epidemiology/public-notification-templates/</a></p> <p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/hab-recreational-awareness-advisory-signs/">http://www.vdh.virginia.gov/environmental-epidemiology/hab-recreational-awareness-advisory-signs/.</a></p>

<p><i>EPA – Template Social Media Posts</i> Issuing an advisory</p> <p>Lifting an advisory</p>	<p><a href="https://www.epa.gov/sites/production/files/2017-07/social-media-issue-advisory.docx">https://www.epa.gov/sites/production/files/2017-07/social-media-issue-advisory.docx</a></p> <p><a href="https://www.epa.gov/sites/production/files/2017-07/social-media-lift-advisory.docx">https://www.epa.gov/sites/production/files/2017-07/social-media-lift-advisory.docx</a></p>
<p><b><u>Standard Operating Procedure For Sample Collection</u></b> This document explains the safety procedures, supplies, collection, and shipping steps necessary for HAB water samples.</p>	<p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Harmful-Algae-Bloom-Sample-Collection-Protocol-for-Virginia-Waters-FINAL-VERSION-Aug-13-2018.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/07/Harmful-Algae-Bloom-Sample-Collection-Protocol-for-Virginia-Waters-FINAL-VERSION-Aug-13-2018.pdf</a></p>
<p><b><u>Visual Guide to Observing Blooms</u></b> This guide is provided by CA Surface Water Ambient Monitoring Program (SWAMP). It contains images of various HAB to help users identifying and reporting non-toxic algae versus cyanobacteria.</p>	<p><a href="http://www.mywaterquality.ca.gov/habs/resources/field.html">http://www.mywaterquality.ca.gov/habs/resources/field.html</a></p>
<b>HAB Training</b>	
<p><b>HAB Training Main Page</b></p>	<p><a href="http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-bloom-training/">http://www.vdh.virginia.gov/environmental-epidemiology/harmful-algal-bloom-training/</a></p>
<p><b>HAB 101 (7/25/17) Training Video</b> [ARCHIVED in TRAIN - Course ID 1072636]</p> <p>Note - for each viewing, you'll need to complete a course evaluation. Need a TRAIN Account? Register at:</p> <p><b>Presentation PDFs</b></p> <p><b>Training Agenda</b></p>	<p><a href="https://www.train.org/virginia/course/1072636/">https://www.train.org/virginia/course/1072636/</a></p> <p><a href="https://www.train.org/virginia/user/register">https://www.train.org/virginia/user/register</a></p> <p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/08/HAB-101-training_2017_onepdf.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/08/HAB-101-training_2017_onepdf.pdf</a></p> <p><a href="http://www.vdh.virginia.gov/content/uploads/sites/12/2017/08/HAB-Training-Agenda-Final.pdf">http://www.vdh.virginia.gov/content/uploads/sites/12/2017/08/HAB-Training-Agenda-Final.pdf</a></p>