

Frog Mortar Creek Water Contact Advisory Lifted

As of December 2022, Maryland Department of the Environment (MDE) lifted the water contact advisory for Frog Mortar Creek. The previous advisory concerning swimming and other recreational activities in this area no longer applies.

SURFACE WATER QUALITY IN FROG MORTAR CREEK

Lockheed Martin has been working since 2012 to monitor and protect surface water conditions in Frog Mortar Creek.

2012: Lockheed Martin starts sampling surface water in Frog Mortar Creek by Martin State Airport six times a year, including during summer months. Water contact advisory and swimming screening levels created.

2018: Levels of chlorinated volatile organic compounds (CVOCs), including trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and vinyl chloride (VC), are markedly lower than before the start of groundwater treatment.

2020 Summer Season: CVOCs found in only five out of 84 total creek samples, all below swimming screening levels.

2022 Summer Season: Sampling reduced from six to four times per year at fewer locations. No CVOCs found in any creek samples.

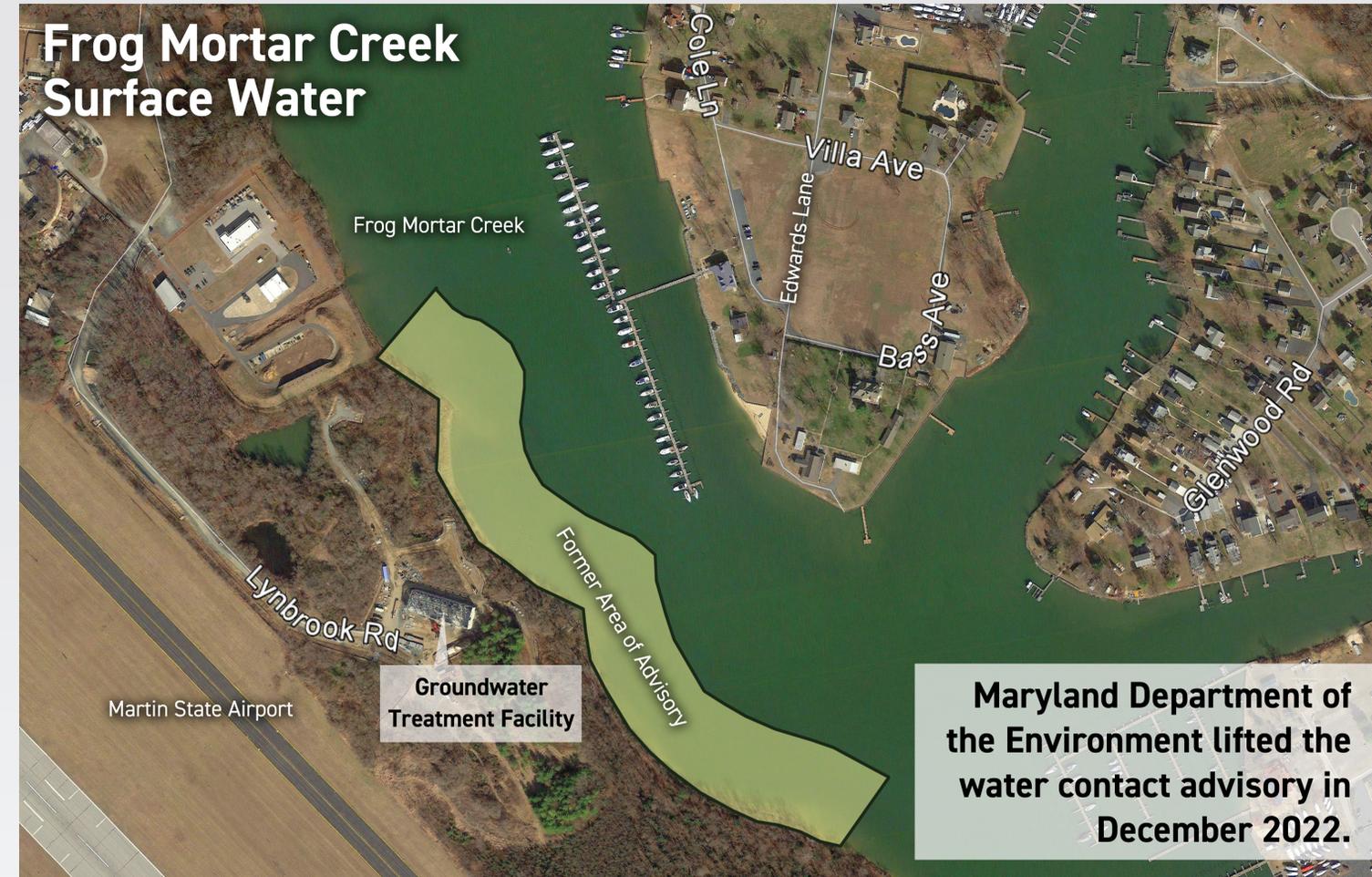


The treatment is working: the water quality in the creek continues to improve.

Lockheed Martin will keep monitoring surface water quality in Frog Mortar Creek to confirm the groundwater treatment system continues to work.

FORMER FROG MORTAR CREEK WATER CONTACT ADVISORY HISTORY

MDE set a swimming advisory in 2012, before we started groundwater treatment. MDE posted six signs in the waters near the shoreline of the airport, advising the public to limit swimming in the advisory area marked on the graphic on this poster. The advisory was a very conservative approach to lowering potential health risks. MDE has now lifted the water contact advisory in response to CVOC detections decreasing and eventually disappearing in Frog Mortar Creek as a result of successful groundwater treatment.



Maryland Department of the Environment lifted the water contact advisory in December 2022.

FREQUENTLY ASKED QUESTIONS

What are the primary chemicals being monitored? Surface water monitoring focuses on chlorinated volatile organic compounds (CVOCs), including trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and vinyl chloride (VC).

Where did the chemicals come from? TCE is a solvent that industry commonly used for cleaning parts and machinery. Lockheed Martin heritage companies located in Middle River, including at Martin State Airport, used solvents in their operations. We have found CVOCs such as TCE in the soil and groundwater at Martin State Airport and in Frog Mortar Creek. We are collecting and treating the impacted groundwater with a treatment system at the airport to prevent the discharge of CVOCs to Frog Mortar Creek.

How is Lockheed Martin cleaning up these chemicals? Lockheed Martin's groundwater treatment system for the Dump Road Area began operations in December 2017. The groundwater treatment plant captures and treats impacted groundwater before it reaches Frog Mortar Creek. Sixteen capture wells parallel to the creek extract groundwater and send it to the treatment system. The groundwater is treated to meet the site's MDE permit requirements before discharging to Frog Mortar Creek.

For more information, please see the Frog Mortar Creek Former Water Contact Advisory notice on MDE's website: <https://mde.maryland.gov/programs/land/marylandbrownfieldvcvp/pages/frogmortarcreekwatercontactadvisory.aspx>

For more information about Lockheed Martin's remediation project at Martin State airport, please visit the Lockheed Martin website at: <https://www.lockheedmartin.com/en-us/who-we-are/eesh/remediation/martin-state-airport.html>

For more information please contact Lockheed Martin:

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