Investigation of Per- and Polyfluoroalkyl Substances (PFAS) in the Portage Area
Surface Water Sampling Update August 2020

EGLE Water Resources Division (WRD), Surface Water Assessment Section (SWAS) conducted surface water sampling near Portage in July 2020 to determine if activities at the former Landfill and Firefighting Training Facility in Portage resulted in PFAS contamination to the nearby surface water. This site is located on the boundary of the Kalamazoo River and St. Joseph River watersheds. Therefore, eight surface water samples were collected within the Kalamazoo River watershed and ten surface water samples were collected within the St. Joseph River watershed. Samples were collected in accordance with the Michigan Per- and Polyfluoroalkyl Substances (PFAS) Sampling Guidance document (MDEQ 2018) and tested for 28 different PFAS following the Michigan Surface Water PFAS Investigation 2019 QAPP (EGLE 2019).

No samples exceeded the Rule 57 Human Noncancer Value for PFOS (12 ppt) or PFOA (12,000 ppt). The samples from the two wetlands near the firefighting training site had the highest detected PFOS concentrations of 3.8 and 4.2 ppt. Figure 1 depicts the sampling locations and PFOS concentrations; also shown in the Table 1. Fish were collected from both West and Austin Lakes in 2020 for edible portion monitoring PFAS analysis. These results are pending. An update to this page will be made once the fish tissue results are available.

Status Update By: Brandon Armstrong, Aquatic Biology Specialist
Surface Water Assessment Section
Water Resources Division
Michigan Department of Environment, Great Lakes, and Energy

Table 1. Surface water PFOS and PFOA concentrations (in ppt) in surface water samples collected near the former landfill and firefighting training facility in Portage, Michigan. PFOS data is compared to the Rule 57 Human Noncancer Value (HNV) of 12 ppt. PFOA is compared to the HNV of 12,000 ppt.

Watershed	Site Code	Waterbody	Description	Collection Date	Latitude	Longitude	PFOS	PFOS code	PFOA	PFOA code
Kalamazoo	PC-0010	Portage Creek	E. Michigan Ave	7/21/2020	42.2946	-85.57352	2.84	J	2.65	J
Kalamazoo	PC-0050	Portage Creek	Reed Ave	7/21/2020	42.2740	-85.57660	2.11	J	2.02	J
Kalamazoo	PC-0100	Portage Creek	Monarch Milpond	7/21/2020	42.2580	-85.57540	1.88	J, Q	1.70	J
Kalamazoo	UPC-0010	Trib to Portage Creek	Romence Rd Pkwy	7/21/2020	42.2154	-85.59190	1.38	K	1.38	K
Kalamazoo	PC-0160	Portage Creek	Shaver Rd	7/21/2020	42.2059	-85.58960	1.47	K	1.47	K
Kalamazoo	PC-0170	Portage Creek	W Centre Rd	7/21/2020	42.2008	-85.59771	1.43	K	1.43	K
Kalamazoo	PC-0180	Portage Creek	Oakland Dr	7/21/2020	42.1868	-85.61372	1.39	K	1.39	K
Kalamazoo	PC-0190	Portage Creek	Near Angling Rd	7/21/2020	42.1962	-85.64551	1.45	K	1.45	K
St. Joseph	LL-0019	Long Lake	Near E R Ave	7/21/2020	42.1831	-85.52471	1.47	K	2.13	J
St. Joseph	ALO-0010	Austin Lake Outlet	E Shore Dr	7/21/2020	42.1848	-85.54252	1.51	K	2.13	J
St. Joseph	ALO-0020	Austin Lake Outlet	Woodhams Ave	7/21/2020	42.1666	-85.53986	2.57	J, Q	1.78	J
St. Joseph	WLO-0010	West Lake Outlet	Portage Rd	7/21/2020	42.1815	-85.56414	2.68	J, Q	1.60	J
St. Joseph	WL-0010	West Lake	Hiking Trail Dock	7/21/2020	42.1864	-85.58326	2.34	J	2.41	J
St. Joseph	WLI-0010	West Lake Inlet	S Shore Dr	7/21/2020	42.1831	-85.58308	1.99	J	1.91	J
St. Joseph	WLI-0100	West Lake Inlet	W Osterhout Ave	7/21/2020	42.1647	-85.58030	1.44	K	1.44	K
St. Joseph	WLW-0010	West Lake Wetland	N of S Shore Dr	7/21/2020	42.1860	-85.58771	4.20		2.01	J
St. Joseph	WLW-0020	West Lake Wetland	Bishops Bog Trail	7/21/2020	42.1814	-85.59408	3.83	J	2.87	J
St. Joseph	GNL-0010	Gourdneck Lake	Near Sudan St	7/21/2020	42.1623	-85.57629	1.41	K	1.41	K

PFAS Laboratory Codes

K: Result is below detection limit; therefore, the method detection limit is displayed

J: Result is above detection limit, below the reporting limit

Q: The ion transition ratio is outside of the acceptance criteria.

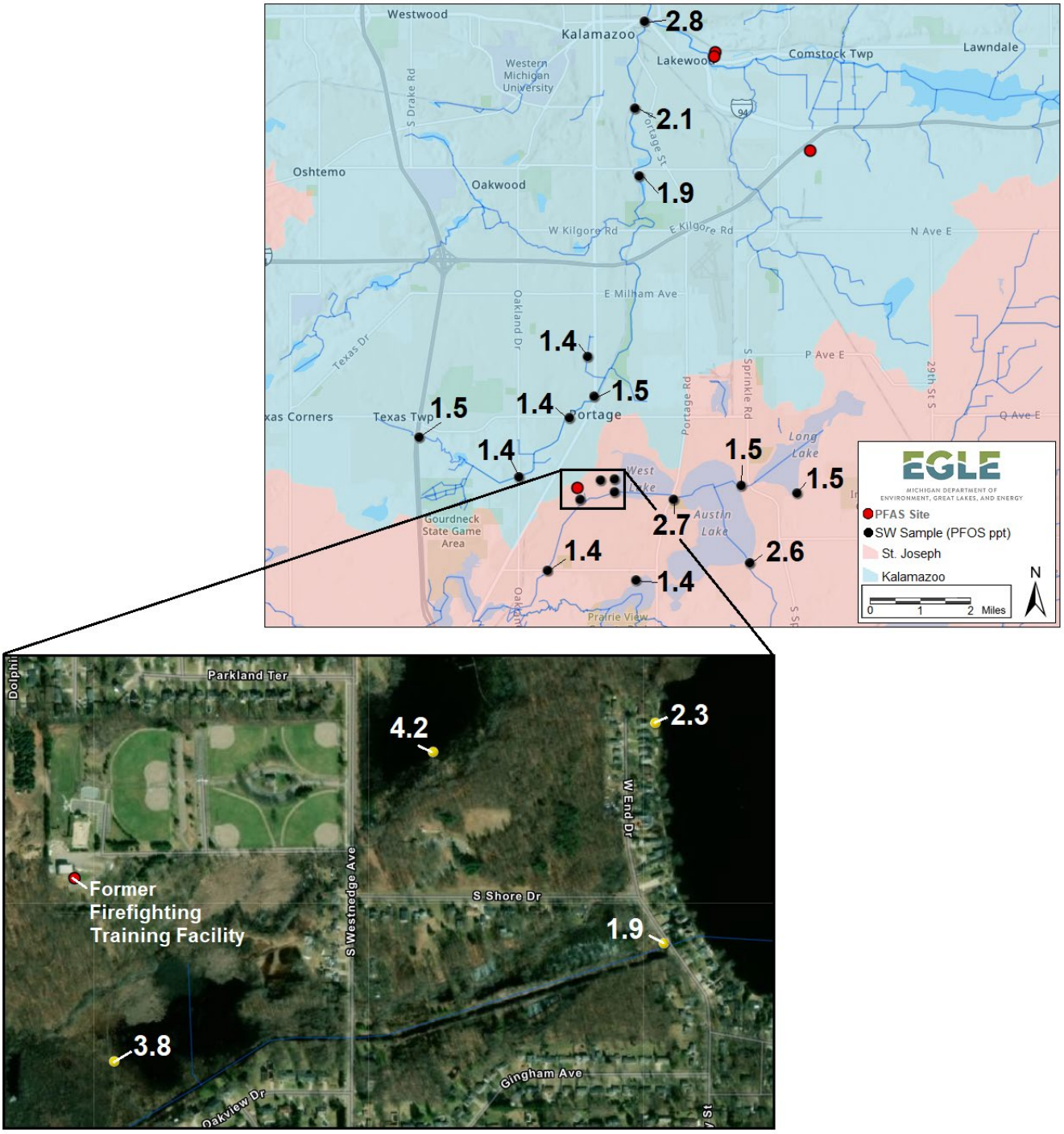

Figure 1. Surface water sampling locations and PFOS concentrations (in ppt) in samples collected near the former landfill and firefighting training facility in Portage, Michigan.