

PFAS Site Recommendation Summary

Utilize this form to provide an *executive-level* summary of a location with PFAS detections that warrant it to go through the MPART new site protocol. Give enough detail to convey what is most relevant. For IPP locations, consult their process.

Official Site Name: Middleground Landfill

Date: 11/25/19

Exact address (if possible): Located on Middleground Island, Northwest of the East Hotchkiss Road and Evergreen Drive Intersection, Bay City, Michigan

**MPART
APPROVAL
DATE:**
Click or tap to

Results Information (Representative – not all samples)*

Sample Media	Sample Name	PFOS (ppt)	PFOA (ppt)	PFOS+PFOA (ppt) <small>(if N/A, put N/A)</small>	Total PFAS (ppt)
Groundwater	WMW-175	1300	110	1410	1745
GSI	GSI 7	<1.7U	<1.7U	<1.7U	42
GSI	GSI 8	230	99	329	537.6
Groundwater	WMW 179	1100J	100	1200	1460
Groundwater	WMW 121A	390J	160	550	897
GSI	GSI 16A	600	38	638	804.6
Groundwater	NMW131A	53	24	77	171.5
Groundwater	EMW 159A	4.9	2.4	7.3	40.21
Groundwater	EMW 173A	14	9.5	23.5	70.09
Groundwater	EMW 169A	<1.7U	3.6	3.6	57.20
Groundwater	SMW 112A	39	19	58	131.28

*New rows may be added, but column headers must remain unchanged

Project Manager has reviewed data for quality: Yes No

Total Number of samples: 11

Date collected: 8/6/2019

Collected by (EGLE (staff or contractor) or other party): Other Party, GHD Consultants hired by Middleground Landfill's PRP Group. The PRP Group for the landfill consists of the City of Bay City and Honeywell.

EGLE received results: 10/3/2019

Highest PFOS+PFOA groundwater result: 1,410 ppt.

Where exactly at the site: The highest PFOS+PFOA groundwater concentration is located interior to the Middleground landfill site at monitoring well location WMW 175 (near the Southwest corner of the landfill).

Watershed: Saginaw River

Comments: Middleground landfill's PRP Group sampled both groundwater and groundwater/surface water interface (GSI) monitoring locations during this sampling event. Groundwater flow direction at Middleground Landfill is in a radial flow direction, flowing in all directions towards the Saginaw River's West and East Channels.

Site Details

Site Background (3-5 sentences): Middleground Landfill is a closed municipal and industrial waste landfill located on Middleground Island in the Saginaw River. The landfill property was also a historic disposal site for Saginaw River dredge spoils. The west side of the landfill is immediately adjacent to the west channel of the Saginaw River, the east channel is approximately 300 feet from the east side of the landfill. There are no known groundwater drinking water wells on the island. Municipal drinking water is currently available to residents on the island. EGLE staff performed PFAS surface water sampling of the Saginaw River on October 29, 2019 and all results were below water quality standards.

Site Coordinates in degrees: 43.56895, -83.90805

Why PFAS was sampled for: As part of the Industrial Pretreatment Program (IPP) PFAS sampling initiative, Bay City WWTP required PFAS landfill leachate sampling at Middleground Landfill. The City of Bay City WWTP receives and treats the landfill's leachate. The leachate sample from the landfill was elevated for PFAS, which lead to EGLE requesting follow-up PFAS sampling at the closed landfill.

Michigan Department of Environment, Great Lakes, and Energy

Provide brief information about sensitive receptors in the area: Residents are on municipal water. The GSI pathway is the greatest concern at this site.

Describe the groundwater/surface water flow direction: Groundwater flows radially from Middleground Landfill and discharges into the West and East Channels of the Saginaw River. The Saginaw River flows toward the North and discharges into the Saginaw Bay approximately seven river course miles away.

New Fish Consumption Advisory issued due to these new PFOS results: Yes No

Details: Fish consumption advisories due to PFOS are in place based on fish samples collected in 2013.

Outreach (community/local officials) – recent and proposed: The City of Bay City and Honeywell are part of the PRP Group for the landfill and they provided the PFAS groundwater sampling results to EGLE. The Bay County Health Department will also be advised of the PFAS results by EGLE.

Local entities affected (city/township/county officials): City of Bay City primarily, Frankenlust Township, Bay County also has some properties on the Southern end of Middleground Island.

Map: Yes ([attach separately, click here for map requirements](#)) No (map is required—please attach map)

Recommended Next Steps

The Middleground Landfill PRP Group recommended meeting with EGLE to discuss the site and next steps after the October 29, 2019 surface water PFAS sampling results were received for the Saginaw River. The PRP Group has also recently hired AKT Peerless to take over landfill monitoring activities and to address site PFAS issues at the landfill.

Site Lead Approval of Next Steps

Yes No **Site Lead:** Loren J. Curtis

Division Director Approval of Next Steps

Yes No **Division Director:** Mike Neller, Director RRD

Other Division(s)/Department(s) Informed

List Division(s)/Department(s): Click or tap here to enter text.

