Saint-Gobain Performance Plastics Site Investigation Update

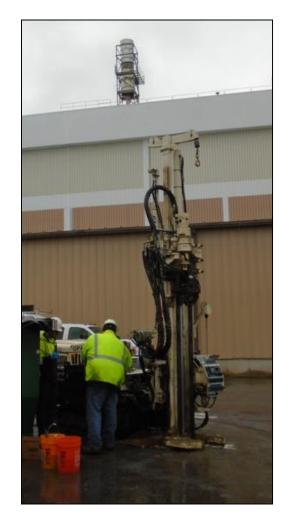
Jeffrey Marts, P.G. Senior Hydrogeologist

NHDES Hazardous Waste Remediation Bureau Emerging Contaminants Section

Presented to the

Commission on the Environmental and Public Health Impacts of Perfluorinated Chemicals

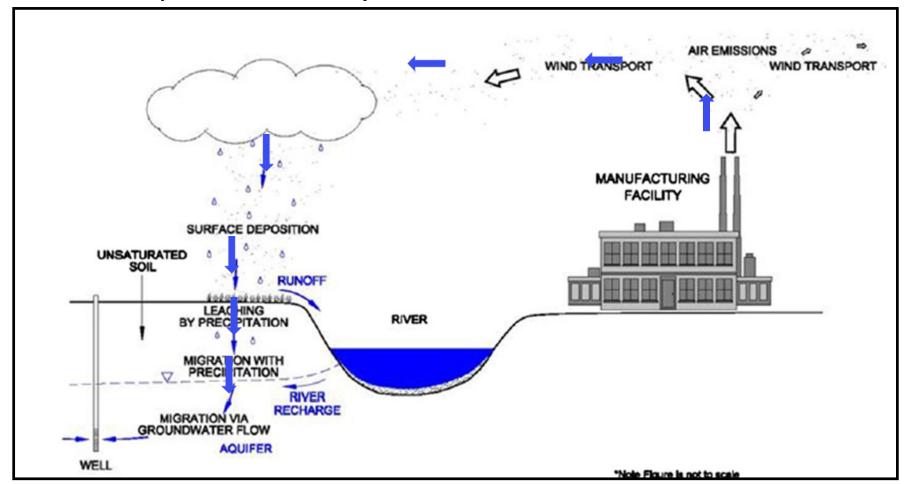
July 17, 2020





<u>Air Release</u>

Conceptual Pathway to Groundwater Contamination

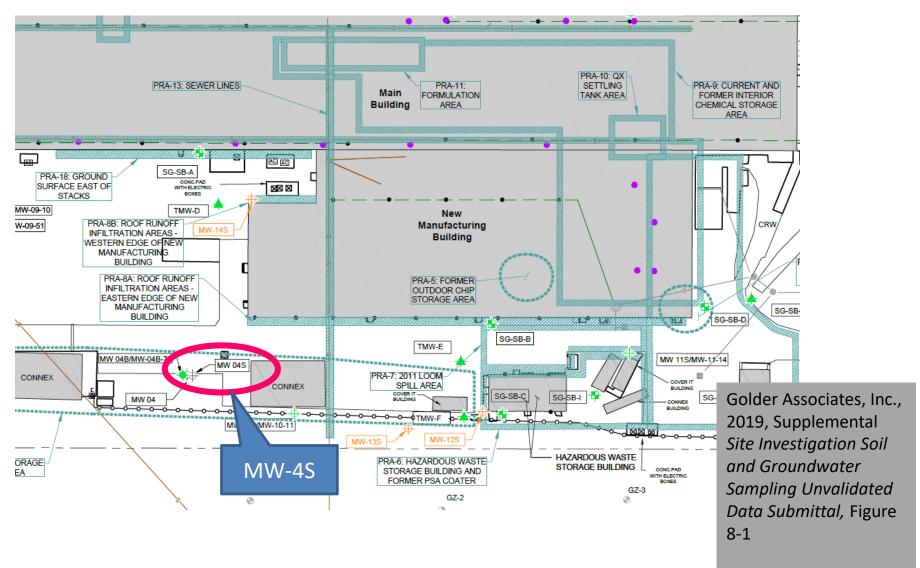


Davis et al., 2007, Chemoshpere



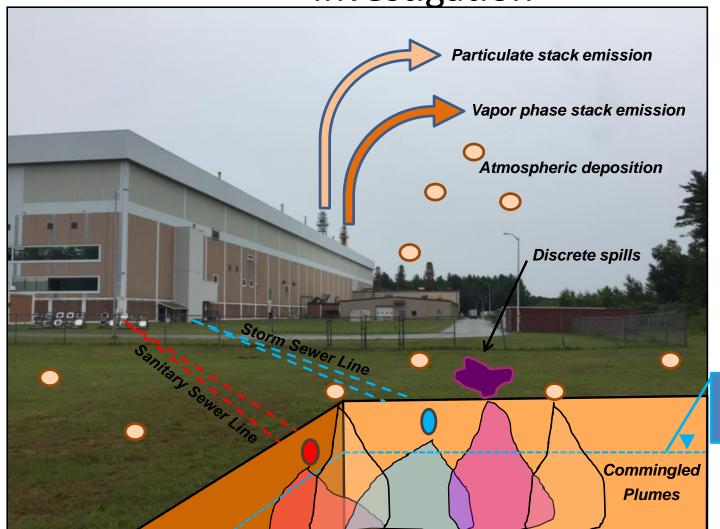


25Potential Release Areas (PRAs) Investigated





Potential Release Pathways Under Investigation



Water Table

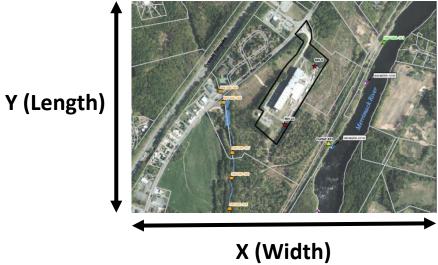
Schematic representation of potential PFAS release pathways and commingled plumes for illustration purposes only (not intended to reflect actual site conditions).

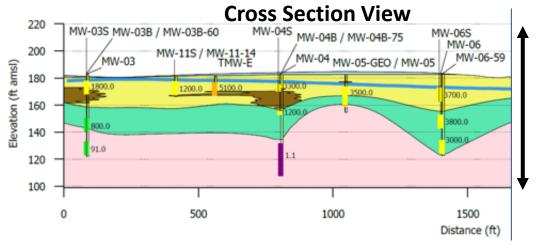


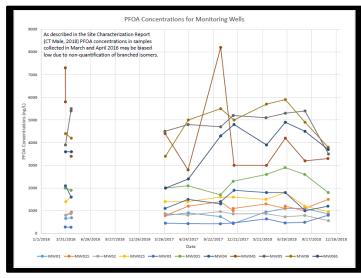
Site Investigations:

4 Dimensional Analysis

Map View Time Series







T (Time)

Z (Depth)

(Top Left) Golder Associates, Inc., 2018, Work Plan for 2018 Stormwater and Surface Water Investigation, Image clipped from Figure 4

(Bottom Left) Golder Associates, Inc., 2019, Site Investigation Report, Image clipped from Figure 7-4

(Top Right) Golder Associates, Inc., 2019, 2018

Annual Groundwater Monitoring Summary, Image clipped from Attachment B: Trend Plots

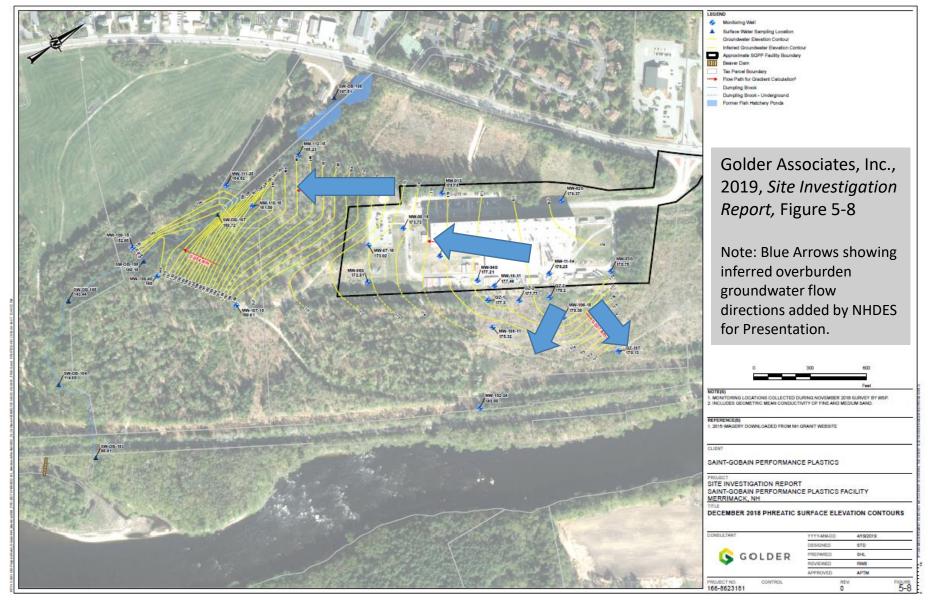
Site Investigation Activities Near-Facility

- Testing at Facility
 - Initial Site Investigation (11 Monitoring Wells Installed)
 - Work Plan Submitted March 2016
 - Draft Report March 2017; Final Report May 2018
 - Stormwater and Surface Water Investigation (> 190 Stormwater Samples)
 - Report Submitted March 2019
 - Site Investigation (33 Monitoring Wells Installed, 42 Soil Borings)
 - Work Plan Submitted June 2018
 - Work Plan Addendum Submitted July 2018
 - Report Submitted April 2019
 - Supplemental Site Investigation (4 Monitoring Wells Installed)
 - Data Submittal October 2019



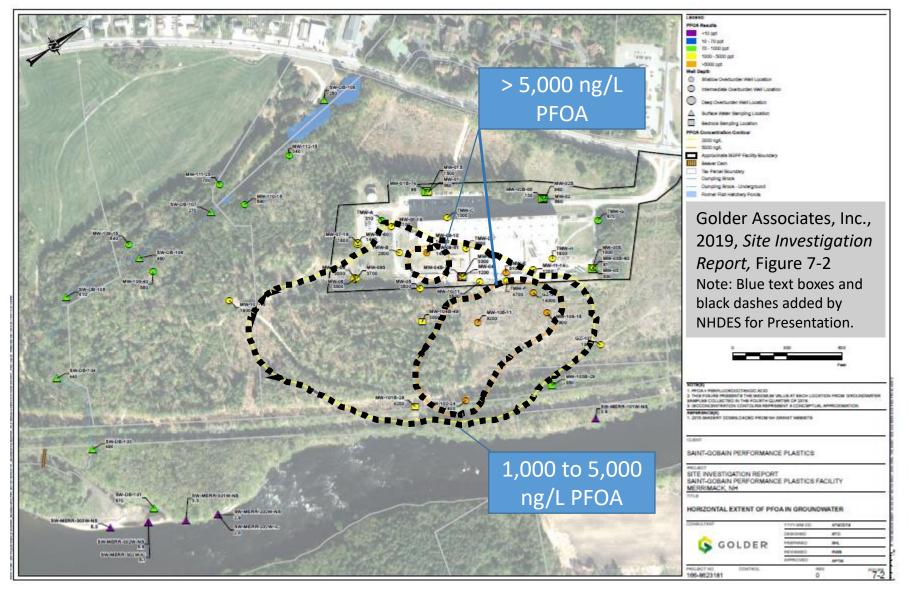


Overburden Groundwater Contours & Flow Directions





Environmental Groundwater PFOA Contours





Environmental Services Groundwater PFOS Contours

