Investigation of liquid spilled from a truck transporting material for Chemours on 9/18/18.

Soil and water samples were collected by a citizen, the waste disposal facility, and staff from EPA and DEQ. Samples were analyzed by GEL and EPA Region 5 Laboratories for GenX and other PFAS chemicals.

Sample Description:		Citizen water sample from puddle/ditch	Citizen water sample from road surface	Waste disposal facility water sample from truck tank	EPA and DEQ soil sample (Analysis by EPA Region 5 Laboratory)					EPA and DEQ soil sample (Analysis by Gel Laboratories)				
Sample Name:		F20 - Register Ave	F20 - Tobermory Rd	F20-#2	CC-01	CC-01 Duplicate	CC-02	CC-03	CC-04 Background	CC-01	CC-01 Duplicate	CC-02	CC-03	CC-04 Background
Sample Collection Date:		9/18/2018		9/20/2018	9/25/2018									
PFAS Chemical Name	CASN	ng/L	ng/L	ng/L	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg	ng/Kg
Perfluoro-2-methyl-3-oxahexanoic acid (PFPrOPrA, "GenX")	13252-13-6	2,390,000	2,850,000	2,670,000	173 R	159 R	117 R	89.4 R	116 J,R	255 J	261 J	-	-	-
Perfluoro- 2-methoxy-acetic acid (PFMOAA)	674-13-5	172,000	218,000	206,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro- 3-methoxy- propanoic acid (PFMOPrA)	377-73-1	3,910,000	4,580,000	4,500,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro-4-methoxy- butanic acid (PFMOBA)	863090-89-5	2,250,000	3,430,000	2,740,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro- (3,5-dioxahexanoic) acid (PFO2HxA)	39492-88-1	197,000	255,000	238,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro- (3,5,7-trioxaoctanoic) acid (PFO3OA)	39492-89-2	477,000	509,000	504,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro- (3,5,7,9- tetraoxadecanoic) acid (PFO4DA)	39492-90-5	459,000	412,000	399,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Nafion Byproduct 1	29311-67-9	480,000	418,000	765,000	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Nafion Byproduct 2	749836-20-2	25,400 J	20,700 J	35,600 J	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Perfluoro- butane- sulfonic acid (PFBS)	375-73-5	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- butyric acid (PFBA)	375-22-4	76,800	92,200	90,400	-	-	-	-	-	-	-	-	-	-
Perfluoro- pentane- sulfonic acid (PFPeS)	2706-91-4	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- pentanoic acid (PFPeA)	2706-90-3	27,700	32,900	32,900	-	-	-	-	-	-	-	-	-	-
Perfluoro- hexanesulfonic acid (PFHxS)	355-46-4	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- hexanoic acid (PFHxA)	307-24-4	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- heptanesulfonic acid (PFHpS)	375-92-8	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- heptanoic acid (PFHpA)	375-85-9	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctane- sulfonic acid (PFOS)	1763-23-1	-	-	-	94.6	111	42	44.5	76.4	260 J	401 J	-	242 J	247 J
Perfluoro- octanoic acid (PFOA)	335-67-1	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- nonane- sulfonic acid (PFNS)	68259-12-1	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- nonanoic acid (PFNA)	375-95-1	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- decanesulfonic acid (PFDS)	335-77-3	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- decanoic acid (PFDA)	335-76-2	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- undecanoic acid (PFUdA)	2058-94-8	-	-	-	47.6	50.4	31.9	-	66.6	-	-	-	-	-
Perfluoro- dodecanoic acid (PFDoA)	307-55-1	-	-	-	53.7	58.9 L	41	-	44.1	-	-	-	-	-
Perfluoro- tridecanoic acid (PFTrDA)	72629-94-8	-	-	-	36	39.2 L	-	-	-	-	-	-	-	-
Perfluoro- tetradecanoic acid (PFTeDA)	376-06-7	-	-	-	38.6 L	-	35.7	-	-	-	-	-	-	-
Fluorotelomer sulfonic acid 4:2 (4:2 FTS)	757124-72-4	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorotelomer sulfonic acid 6:2 (6:2 FTS)	27619-97-2	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-
Fluorotelomer sulfonic acid 8:2 (8:2 FTS)	39108-34-4	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluoro- octane- sulfonamide (PFOSA)	754-91-6	-	-	-	-	-	-	-	-	-	-	-	-	-
N-methylperfluoro- 1-octane-sulfon- amidoacetic acid (N-MeFOSAA)	2355-31-9	-	-	-	-	-	-	-	-	-	-	-	-	-
N-ethylperfluoro- 1-octane- sulfon-amidoacetic acid (N-EtFOSAA)	2991-50-6	-	-	-	-	-	-	-	-	-	-	-	-	-

PFAS = Per- and polyfluoroalkyl substances.

CASN = Chemical abstracts service number.

ng/L = Nanograms per liter, "parts-per-trillion".

ng/Kg = Nanograms per kilogram.

N/A = Not available. This lab did not analyze for this PFAS chemical.

- = Not detected at the reporting limit.

J = Estimated concentration is higher than the detection limit but lower than the reporting limit.

L= Low biased. Actual results are expected to be greater than reported results based on quality control for the sample.

R = Method is still under development and coded as 'Research' by the lab.