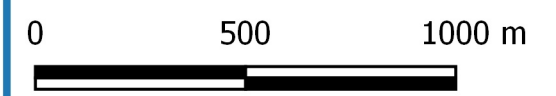




Legend

- Monitoring Locations
- Sensitive Receptors within a 500 meter Radius of Corunna Site



NOVA Chemicals Corunna Site Benzene Ambient Monitoring Locations and Adjacent Lands

Note:
 1) Projection: UTM Zone 17N
 2) Source of Base Map: Ontario Ministry of Natural Resource and Forestry



NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2025

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
	Date Range ↓												
Two-Week Measured Benzene Concentration (µg/m ³) 2025 Monitoring (MM/DD/YY to MM/DD/YY)	12/18/24 to 1/2/25	2.07	1.15	2.28	1.62	1.46	0.74	0.63	0.88	3.17	1.82	3.43	1.24
	1/2/25 to 1/15/25	1.99	1.11	3.91	1.92	0.91	0.55	0.49	0.53	1.01	0.53	0.89	1.58
	1/15/25 to 1/29/25	4.22	1.66	2.73	1.08	1.17	0.70	0.62	0.83	0.84	0.64	0.68	1.11
	1/29/25 to 2/12/25	2.06	1.15	1.63	1.21	0.79	0.70	0.67	0.70	1.97	1.48	1.65	1.81
	2/12/25 to 2/26/25	4.52	1.16	3.46	1.84	1.07	0.71	0.69	0.71	1.38	1.14	1.41	1.23
	2/26/25 to 3/12/25	4.89	1.43	2.20	1.65	1.10	0.73	0.53	0.58	1.82	1.62	2.41	2.26
	3/12/25 to 3/26/25	2.02	0.83	1.33	0.91	0.92	0.66	0.48	0.53	0.83	0.90	3.01	2.30
	3/26/25 to 4/9/25	2.26	0.60	0.95	0.79	0.75	0.57	0.67	0.76	3.57	1.13	2.01	2.31
	4/9/25 to 4/23/25	2.31	0.81	1.36	1.19	0.87	0.49	0.52	0.82	3.48	1.54	1.79	2.64
	4/23/25 to 5/7/25	1.34	0.57	0.63	0.68	0.48	0.58	0.55	1.03	5.68	1.37	1.69	5.35
	5/7/25 to 5/21/25	1.41	0.51	0.67	0.48	0.36	0.38	0.53	0.81	4.80	1.23	2.92	3.19
	5/21/25 to 6/4/25	1.89	0.79	1.38	1.36	0.73	0.53	0.52	0.55	2.27	1.25	1.50	1.00
	6/4/25 to 6/18/25	2.51	0.96	1.13	0.93	0.83	0.79	1.11	1.93	5.77	2.47	1.99	2.04
	6/18/25 to 7/2/25	4.72	1.09	1.36	0.93	0.47	0.40	0.55	0.64	1.19	0.79	1.12	2.13
	7/2/25 to 7/16/25	2.82	0.89	0.60	0.79	0.55	0.47	0.53	0.71	2.02	1.10	1.64	5.98
	7/16/25 to 7/30/25	1.83	0.43	0.64	0.52	0.31	0.31	0.35	0.50	2.05	0.92	1.13	2.07
	7/30/25 to 8/13/25	1.56	0.72	0.71	0.64	0.61	0.60	0.66	1.05	2.84	2.07	2.22	3.30
	8/13/25 to 8/27/25	1.46	0.64	1.48	0.96	0.37	0.37	0.51	0.61	3.11	1.32	1.74	1.53
	8/27/25 to 9/10/25	2.37	1.16	2.85	0.95	0.54	0.49	0.53	0.65	1.24	1.51	1.26	1.93
	9/10/25 to 9/24/25	2.44	0.67	0.64	0.50	0.49	0.53	0.64	1.65	3.96	1.92	2.51	1.74
	9/24/25 to 10/8/25	1.87	0.48	0.69	0.47	0.32	0.39	0.55	0.70	2.13	2.17	1.39	1.90
10/8/25 to 10/22/25	1.14	0.71	0.64	0.63	0.46	0.36	0.36	0.48	1.81	0.93	1.40	2.10	
10/22/25 to 11/5/25	0.72	0.52	0.96	0.89	0.30	0.30	0.30	0.31	1.16	1.32	0.81	0.56	
11/5/25 to 11/19/25	2.21	0.70	2.74	2.33	0.98	0.52	0.45	0.45	1.00	1.16	0.84	1.46	
11/19/25 to 12/3/25	2.33	1.13	2.98	0.96	0.56	0.53	0.39	0.49	0.46	0.51	1.07	1.36	
12/3/25 to 12/17/25	4.14	1.40	2.54	1.41	1.33	0.64	0.60	0.63	0.63	0.73	0.84	1.49	
12/17/25 to 12/31/25	1.69	0.93	2.25	1.73	0.95	0.69	0.49	0.63	1.37	0.77	1.59	2.39	
	2025 Avg.	2.40	0.90	1.66	1.09	0.73	0.54	0.55	0.75	2.28	1.27	1.66	2.15

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2024

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Two-Week Measured Benzene Concentration (µg/m ³) 2024 Monitoring (MM/DD/YY to MM/DD/YY)	Date Range ↓												
	12/20/23 to 1/3/24	1.89	0.91	1.35	1.08	1.02	0.83	1.05	0.98	2.20	1.54	3.12	2.19
	1/3/24 to 1/17/24	2.09	1.20	2.25	0.79	0.82	0.40	0.53	0.55	NR ⁵	0.72	2.23	1.48
	1/17/24 to 1/31/24	3.33	1.28	3.07	2.71	1.03	0.91	1.17	1.37	NR ⁵	2.19	1.64	4.36
	1/31/24 to 2/14/24	3.22	0.92	1.34	1.25	0.71	0.70	0.99	0.91	3.06	1.08	1.43	2.74
	2/14/24 to 2/28/24	4.72	1.09	1.48	1.39	0.89	0.72	0.62	0.86	3.80	1.01	1.40	3.83
	2/28/24 to 3/13/24	3.60	0.80	2.01	2.00	0.91	0.77	0.92	0.86	2.48	0.99	2.34	4.05
	3/13/24 to 3/27/24	1.54	0.75	2.01	1.18	0.71	0.62	0.65	0.61	2.06	1.07	2.57	2.43
	3/27/24 to 4/10/24	1.99	0.72	1.30	0.97	0.73	0.68	1.00	0.81	3.83	1.73	2.71	2.09
	4/10/24 to 4/24/24	2.62	1.08	4.44	2.94	0.88	0.63	0.59	0.66	2.16	2.04	2.41	2.11
	4/24/24 to 5/8/24	2.24	0.67	0.92	0.65	0.40	0.37	0.60	1.06	3.28	1.92	2.98	3.36
	5/8/24 to 5/22/24	1.81	0.48	0.77	0.74	0.50	0.37	0.58	1.00	4.69	1.33	1.45	3.06
	5/22/24 to 6/5/24	2.12	1.07	2.35	1.31	0.69	0.49	0.56	0.70	2.94	0.98	2.78	3.27
	6/5/24 to 6/19/24	3.20	0.87	3.42	0.82	0.54	0.48	0.47	0.61	2.68	0.65	0.69	2.62
	6/19/24 to 7/3/24	3.02	0.70	1.15	0.94	0.59	0.45	0.56	0.81	3.48	1.24	3.09	2.76
	7/3/24 to 7/17/24	3.42	0.94	1.39	0.90	NR ⁶	0.54	0.66	0.68	2.08	1.39	1.58	2.46
	7/17/24 to 7/31/24	1.82	0.70	1.22	0.84	NR ⁶	0.55	0.61	0.77	2.77	1.06	1.70	1.78
	7/31/24 to 8/14/24	1.84	0.99	2.43	1.33	0.57	0.38	0.42	0.70	2.03	2.06	1.46	0.80
	8/14/24 to 8/28/24	3.66	0.77	1.36	1.04	0.64	0.62	0.88	0.74	2.70	1.05	1.70	3.95
	8/28/24 to 9/11/24	1.94	0.96	2.26	1.49	1.11	0.64	0.57	0.76	2.62	1.06	3.49	3.34
	9/11/24 to 9/25/24	1.03	0.39	0.49	0.50	0.41	0.44	0.55	0.46	0.77	0.96	10.60	3.07
9/25/24 to 10/9/24	1.88	0.62	1.41	1.59	0.62	0.57	0.60	0.64	2.22	3.28	1.68	1.18	
10/9/24 to 10/23/24	6.86	0.96	1.38	1.31	0.91	0.52	0.61	0.75	3.12	1.78	0.87	2.44	
10/23/24 to 11/6/24	3.38	0.85	1.29	0.85	0.68	0.49	0.35	0.40	0.47	0.51	2.55	12.10	
11/6/24 to 11/20/24	3.80	1.02	1.85	1.80	0.99	0.67	0.59	0.61	1.98	2.19	4.85	1.86	
11/20/24 to 12/4/24	1.34	1.42	4.68	1.86	1.23	0.68	0.60	0.69	0.72	0.93	1.91	1.10	
12/4/24 to 12/18/24	2.89	1.06	2.47	0.86	0.69	0.36	0.42	0.41	0.57	0.46	1.79	1.94	
	2024 Avg.	2.74	0.89	1.93	1.27	0.76	0.57	0.66	0.75	2.45	1.35	2.50	2.94

Note 5: The results were not reportable due to a sample collection error.

Note 6: Sample location inaccessible due to unsafe conditions caused by flooding

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2023

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Two-Week Measured Benzene Concentration (µg/m³) 2023 Monitoring (MM/DD/YY to MM/DD/YY)	Date Range ↓												
	12/21/22 to 1/04/23	2.45	1.21	1.71	0.73	0.77	0.75	0.71	0.72	0.89	1.30	1.73	2.86
	1/04/23 to 1/18/23	1.95	1.13	1.65	1.27	1.05	0.96	0.91	0.84	1.62	0.83	3.61	2.50
	1/18/23 to 2/01/23	1.79	1.03	1.18	1.41	0.65	0.77	0.59	0.54	0.99	0.81	1.26	1.24
	2/01/23 to 2/15/23	4.28	1.33	1.40	1.14	0.88	1.03	0.70	0.69	0.83	0.66	1.03	4.62
	2/15/23 to 3/01/23	1.88	0.94	1.09	1.02	0.74	0.77	0.53	0.54	1.63	1.45	1.84	4.51
	3/01/23 to 3/15/23	1.07	0.79	1.17	2.03	2.22	1.08	1.52	1.44	13.70	2.44	1.93	1.34
	3/15/23 to 3/29/23	3.42	1.77	2.70	0.91	0.92	0.78	0.71	0.88	3.83	1.17	1.54	2.10
	3/29/23 to 4/13/23	3.05	1.54	1.04	0.73	0.60	0.62	0.48	0.56	1.65	0.91	2.52	2.63
	4/13/23 to 4/27/23	1.77	0.96	0.99	0.86	0.46	0.57	0.39	0.33	0.78	0.89	1.52	1.79
	4/27/23 to 5/10/23	0.83	0.50	1.25	0.84	0.66	0.55	0.78	0.80	4.47	1.90	7.33	1.72
	5/10/23 to 5/24/23	3.72	0.93	0.98	0.79	0.48	0.45	0.62	1.42	9.31	1.14	1.64	2.54
	5/24/23 to 6/7/23	0.97	0.83	1.00	0.99	0.72	0.72	1.28	2.11	6.93	2.69	2.87	3.13
	6/7/23 to 6/21/23	1.79	1.09	1.63	1.38	1.11	1.08	1.32	1.39	5.53	2.07	2.87	2.72
	6/21/23 to 7/5/23	2.23	1.30	0.30	1.59	1.13	1.23	0.81	1.78	2.58	2.62	4.49	4.94
	7/5/23 to 7/19/23	2.84	0.80	1.03	0.83	0.55	0.41	0.49	0.81	2.92	1.05	2.03	3.21
	7/19/23 to 8/2/23	3.48	1.02	0.95	0.96	0.84	0.75	0.92	0.88	1.93	1.14	1.42	3.44
	8/2/23 to 8/16/23	3.04	1.11	1.78	1.11	0.83	0.64	0.63	0.61	1.82	1.42	1.74	1.38
	8/16/23 to 8/30/23	2.56	1.13	1.54	1.51	0.81	0.67	0.84	0.96	3.59	1.93	2.07	3.66
	8/30/23 to 9/13/23	2.76	0.84	1.34	1.16	0.78	0.77	0.81	0.78	2.08	1.22	1.40	1.79
	9/13/23 to 9/27/23	1.32	0.77	0.97	0.94	0.65	0.56	0.53	0.56	1.36	1.99	2.92	1.72
	9/27/23 to 10/11/23	2.67	1.20	1.83	2.08	0.52	0.54	0.48	0.69	1.30	4.23	2.64	2.89
	10/11/23 to 10/25/23	1.81	0.58	0.80	1.06	0.80	0.61	0.48	0.58	1.58	1.36	0.89	1.64
10/25/23 to 11/8/23	6.12	0.92	2.19	1.27	0.92	0.41	0.70	0.57	1.35	1.27	1.05	2.36	
11/8/23 to 11/22/23	3.89	1.43	2.56	1.57	0.90	0.77	0.79	0.72	1.22	1.10	2.27	2.40	
11/22/23 to 12/6/23	2.84	0.96	2.74	1.17	0.75	0.55	0.55	0.57	0.95	1.45	1.03	1.26	
12/6/23 to 12/20/23	4.32	1.66	2.78	1.45	1.18	0.69	0.70	0.63	0.73	0.84	1.43	2.88	
	2023 Average	2.65	1.07	1.48	1.18	0.84	0.72	0.74	0.86	2.91	1.53	2.20	2.59

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2022

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Date Range ↓													
Two-Week Measured Benzene Concentration (µg/m ³) 2022 Monitoring (MM/DD/YY to MM/DD/YY)	12/22/21 to 01/05/22	2.09	1.05	1.09	0.87	0.86	0.84	0.81	0.83	3.36	0.72	2.55	2.15
	01/05/22 to 01/19/22	2.06	1.21	1.01	1.70	0.74	0.74	0.81	0.69	1.84	1.53	1.11	1.26
	01/19/22 to 02/02/22	1.58	0.83	0.87	1.05	1.02	0.86	0.82	0.70	0.97	0.78	1.22	3.51
	02/02/22 to 02/16/22	2.72	0.95	1.67	1.44	1.09	0.77	0.79	0.78	2.58	0.84	1.21	2.56
	02/16/22 to 03/02/22	2.87	1.07	1.12	1.25	0.74	0.63	0.98	0.76	2.53	1.41	1.08	1.77
	03/02/22 to 03/16/22	2.10	0.80	0.97	1.08	0.97	0.81	0.76	0.80	1.57	1.13	1.78	3.02
	03/16/22 to 03/30/22	2.13	0.77	1.11	1.53	0.97	0.63	0.70	0.61	2.44	0.86	2.00	2.13
	03/30/22 to 04/13/22	0.98	0.62	0.84	0.68	0.51	0.60	0.66	0.55	0.84	0.60	1.86	2.47
	04/13/22 to 04/27/22	2.66	1.10	2.92	1.48	0.51	0.37	0.49	0.55	1.06	1.79	2.09	3.10
	04/27/22 to 05/11/22	0.77	0.64	0.83	0.56	0.47	0.42	0.36	1.12	5.38	3.48	6.46	1.95
	05/11/22 to 05/25/22	1.14	0.56	1.30	1.42	0.56	0.52	0.72	0.96	4.48	1.73	4.52	2.85
	05/25/22 to 06/08/22	2.36	1.07	1.54	0.95	0.47	0.43	0.76	0.91	3.59	1.24	2.75	2.37
	06/08/22 to 06/22/22	2.83	0.99	2.22	1.84	0.37	0.30	0.69	0.85	2.17	1.16	2.12	2.58
	06/22/22 to 07/06/22	1.84	0.68	0.66	0.91	0.30	0.30	NR ⁴	0.46	2.18	0.93	1.40	1.95
	07/06/22 to 07/20/22	1.73	0.63	0.98	0.80	0.39	0.39	0.58	0.77	4.49	2.37	2.99	2.98
	07/20/22 to 08/03/22	2.79	1.18	2.18	1.26	0.39	0.32	0.30	0.30	0.45	0.51	0.55	1.64
	08/03/22 to 08/17/22	2.28	0.82	0.98	0.78	0.81	0.63	0.74	1.13	3.87	2.18	1.99	2.05
	08/17/22 to 08/31/22	2.53	1.17	1.45	1.14	0.82	0.74	0.68	0.79	2.27	0.83	1.87	2.64
	08/31/22 to 09/14/22	1.95	0.74	1.68	0.86	0.65	0.49	0.60	1.04	0.33	1.22	2.53	4.77
	09/14/22 to 09/28/22	3.11	0.93	2.25	1.79	1.04	0.62	0.53	0.54	1.45	0.87	1.01	5.19
	09/28/22 to 10/12/22	2.78	1.34	1.17	1.31	0.71	0.51	0.47	0.63	2.17	1.46	1.63	2.88
10/12/22 to 10/26/22	1.70	0.89	1.01	1.22	0.42	0.33	0.52	0.30	0.36	0.30	1.72	5.29	
10/26/22 to 11/09/22	1.59	0.67	0.69	0.65	0.62	0.44	0.48	0.39	0.52	0.93	1.48	0.47	
11/09/22 to 11/23/22	4.22	2.68	1.96	1.19	0.72	0.59	0.51	0.39	0.47	0.87	0.64	2.51	
11/23/22 to 12/07/22	4.13	1.46	2.23	1.85	0.87	0.74	0.75	0.69	1.32	1.04	2.16	5.59	
12/07/22 to 12/21/22	1.45	0.89	1.00	0.79	0.62	0.59	0.48	0.55	0.77	1.61	1.89	1.59	
	2022 Average	2.25	0.99	1.37	1.17	0.68	0.56	0.64	0.70	2.06	1.25	2.02	2.74

⁴ The results were not reportable due to sample contamination from pesticide use at the sample location to remove wasps

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2021

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Date Range ↓													
Two-Week Measured Benzene Concentration (µg/m³) 2021 Monitoring (MM/DD/YY to MM/DD/YY)	12/22/20 to 01/06/21	1.23	0.87	1.29	0.91	0.70	0.72	0.55	0.50	0.69	0.96	0.93	2.22
	01/06/21 to 01/20/21	2.34	1.15	1.35	0.93	0.85	0.76	0.84	0.84	2.58	0.89	1.31	2.23
	01/20/21 to 02/03/21	1.14	0.70	1.01	1.11	0.98	0.71	0.64	0.68	2.02	1.33	1.07	1.51
	02/03/21 to 02/17/21	1.50	1.05	0.93	0.79	0.82	0.83	0.59	0.75	1.68	1.34	1.46	2.62
	02/17/21 to 03/03/21	2.39	1.04	1.33	1.01	0.88	0.72	0.59	0.61	0.72	0.94	1.72	6.69
	03/03/21 to 03/17/21	1.08	0.70	0.99	0.93	0.79	0.69	0.71	0.72	2.17	0.96	1.39	1.60
	03/17/21 to 03/31/21	1.58	0.59	0.79	0.80	0.64	0.55	0.49	0.79	3.44	0.88	1.73	3.90
	03/31/21 to 04/14/21	1.49	0.67	0.88	0.83	0.79	0.62	0.58	0.63	1.30	0.77	3.31	3.89
	04/14/21 to 04/28/21	2.37	0.73	1.03	0.96	0.67	0.59	0.57	0.53	1.61	0.75	1.28	2.05
	04/28/21 to 05/12/21	2.03	0.67	1.14	1.52	0.75	0.63	0.64	0.73	3.21	1.13	1.76	1.87
	05/12/21 to 05/26/21	2.66	0.61	1.01	0.95	0.47	0.40	0.50	0.54	1.30	0.47	0.57	1.86
	05/26/21 to 06/09/21	6.60	1.04	0.44	0.40	0.30	0.30	0.41	0.63	2.00	0.70	0.68	1.53
	06/09/21 to 06/23/21	1.57	0.68	0.71	0.62	0.75	0.58	0.53	0.60	1.82	0.83	1.37	1.76
	06/23/21 to 07/07/21	2.79	1.00	0.83	0.76	0.56	0.54	0.80	0.70	1.47	0.75	0.74	2.61
	07/07/21 to 07/21/21	1.51	0.80	1.17	0.71	0.55	0.55	0.76	0.82	2.85	2.02	2.04	2.26
	07/21/21 to 08/04/21	1.94	1.01	1.76	1.02	0.64	0.54	0.59	0.66	2.39	0.81	0.98	2.00
	08/04/21 to 08/18/21	1.99	0.77	0.66	0.48	0.33	0.33	0.38	0.59	1.24	1.56	1.37	3.49
	08/18/21 to 09/01/21	3.66	0.95	1.65	0.94	0.64	0.60	0.68	0.81	2.66	1.86	1.93	2.31
	09/01/21 to 09/15/21	3.45	1.32	2.97	1.54	0.61	0.69	0.67	0.84	1.84	1.99	1.96	3.88
	09/15/21 to 09/29/01	1.80	0.63	0.42	0.36	0.30	0.34	0.30	0.82	3.07	1.13	2.21	2.85
	09/28/21 to 10/13/21	1.11	0.36	0.31	0.30	0.32	0.31	0.31	0.35	0.56	1.26	2.25	2.38
10/13/21 to 10/27/21	2.15	0.97	0.96	0.99	0.49	0.51	0.42	0.58	1.05	0.97	0.88	1.74	
10/27/21 to 11/10/21	2.11	0.68	0.91	0.65	0.55	0.42	0.42	0.48	1.20	0.96	1.07	1.75	
11/10/21 to 11/24/21	1.31	0.74	1.41	0.52	0.39	NR ³	NR ³	0.31	0.31	0.31	0.97	2.46	
11/24/21 to 12/08/21	1.96	0.95	1.67	1.24	0.77	0.48	0.37	0.41	0.48	0.45	1.74	1.53	
12/08/21 to 12/22/21	6.85	2.44	1.24	1.33	0.72	0.55	0.47	0.51	1.30	2.14	3.05	1.89	
	2021 Avg.	2.33	0.89	1.11	0.87	0.63	0.56	0.55	0.63	1.73	1.08	1.53	2.50

³ During the November 10 -24 sampling period, there is no reportable data for Locations 6 and 7 due to an error made during sample collection

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2020

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Date Range ↓													
Two-Week Measured Benzene Concentration (µg/m ³) 2020 Monitoring (MM/DD/YY to MM/DD/YY)	12/24/19 to 01/08/20	3.88	1.10	1.32	0.83	0.78	0.65	0.49	0.59	0.71	0.59	2.06	2.67
	01/08/20 to 01/22/20	2.02	0.80	1.32	1.04	1.39	0.81	0.63	0.67	1.73	0.64	2.00	2.30
	01/22/20 to 02/05/20	2.13	0.83	1.34	1.15	0.89	0.79	0.78	0.75	1.77	0.99	1.52	2.98
	02/05/20 to 02/19/20	1.92	0.80	0.88	0.86	0.65	0.70	0.86	0.55	1.46	0.81	1.34	3.63
	02/19/20 to 03/04/20	3.44	1.37	1.95	1.69	1.21	0.93	0.91	1.27	3.08	1.40	1.69	2.79
	03/04/20 to 03/18/20	2.23	0.77	1.14	1.10	0.73	0.64	0.85	0.67	3.05	0.97	1.50	4.58
	03/18/20 to 04/02/20	1.50	0.95	1.26	1.10	1.12	0.79	1.08	1.32	4.12	1.87	3.19	3.57
	04/02/20 to 04/15/20	1.09	0.88	1.60	1.22	0.80	0.74	0.94	0.91	2.57	0.95	1.70	2.47
	04/15/20 to 04/29/20	1.36	0.58	0.72	0.66	0.57	0.38	0.33	0.71	3.32	0.78	2.06	3.00
	04/29/20 to 05/13/20	1.91	0.74	1.18	1.12	0.70	0.74	0.99	1.10	7.10	1.10	1.88	2.59
	05/13/20 to 05/27/20	1.27	0.51	0.49	0.37	0.39	0.45	0.38	0.53	1.85	2.12	4.59	4.44
	05/27/20 to 06/10/20	2.13	0.76	0.87	0.72	0.49	0.34	0.67	0.85	3.38	0.86	1.44	2.89
	06/10/20 to 06/24/20	1.40	0.62	1.35	0.42	0.37	0.30	0.61	0.93	3.00	1.23	1.63	2.41
	06/24/20 to 07/08/20	1.79	0.84	1.17	0.71	0.36	0.3	0.62	0.8	3.99	0.99	1.03	1.22
	07/08/20 to 07/22/20	3.04	0.87	1.34	1.38	0.75	0.44	0.59	0.39	2.68	2.53	2.63	3.64
	07/22/20 to 08/05/20	2.21	0.88	1.42	0.82	0.61	0.6	0.57	0.87	3.31	1.01	1.29	1.02
	08/05/20 to 08/19/20	1.7	0.41	1.25	0.83	0.48	0.3	0.3	0.4	1.5	1.45	1.52	1.75
	08/19/20 to 09/02/20	3.72	1.27	1.28	0.97	0.77	0.50	0.62	0.58	1.08	0.76	1.15	3.65
	09/02/20 to 09/16/20	1.86	0.53	0.89	0.62	0.37	0.32	0.49	0.49	2.85	1.19	1.38	2.27
	09/16/20 to 09/30/20	2.19	0.80	0.66	0.48	0.40	0.48	0.58	0.55	1.89	0.57	1.05	2.79
09/30/20 to 10/14/20	2.36	0.81	0.99	0.85	0.75	0.49	0.37	0.41	0.90	0.68	1.03	1.33	
10/14/20 to 10/28/20	1.50	0.58	0.89	0.64	0.56	0.58	0.53	0.52	1.03	0.98	0.98	1.56	
10/28/20 to 11/11/20	3.43	0.69	0.96	0.78	0.65	0.62	0.58	0.64	1.45	0.54	0.55	3.52	
11/11/20 to 11/25/20	1.92	0.91	1.55	0.98	0.77	0.76	0.64	0.57	0.80	0.88	1.37	1.69	
11/25/20 to 12/9/20	2.61	1.02	1.29	1.13	1.06	0.90	0.72	0.64	0.78	0.59	0.85	1.88	
12/9/20 to 12/22/20	2.42	0.85	0.94	0.94	0.82	0.58	0.6	0.60	1.15	1.34	1.38	3.65	
	2020 Avg.	2.19	0.81	1.16	0.90	0.71	0.58	0.64	0.70	2.33	1.07	1.65	2.70

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2019

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Date Range ↓													
Two-Week Measured Benzene Concentration (µg/m³) 2019 Monitoring (MM/DD/YY to MM/DD/YY)	12/27/18 to 01/09/19	3.04	1.03	1.44	1.21	1.17	0.83	0.97	0.68	1.64	0.93	3.30	6.66
	01/09/19 to 01/23/19	1.25	1.03	1.40	1.25	1.68	1.25	1.02	0.85	1.78	1.93	1.47	2.08
	01/23/19 to 02/06/19	3.89	1.69	1.71	1.20	0.97	0.88	0.89	0.67	1.11	1.05	1.37	2.28
	02/06/19 to 02/20/19 ²	1.08	0.85	1.50	0.84	0.88		0.86	0.97	1.47	1.78	1.50	1.60
	02/20/19 to 03/06/19	1.20	0.96	1.74	1.48	0.95	0.88	0.86	0.68	1.48	1.17	2.44	2.21
	03/06/19 to 03/20/19	2.61	1.47	1.95	1.34	0.75	0.70	0.55	0.53	0.54	0.58	2.12	5.57
	03/20/19 to 04/03/19	3.50	0.78	1.11	0.97	1.11	0.74	1.23	0.69	3.48	0.95	1.06	2.86
	04/03/19 to 04/17/19	0.80	0.60	1.05	0.70	0.55	0.50	0.53	0.62	3.10	2.26	2.45	1.51
	04/17/19 to 05/01/19	0.78	0.40	0.74	0.87	0.59	0.55	0.99	0.76	5.39	1.48	2.72	4.12
	05/01/19 to 05/15/19	1.51	0.55	0.93	0.47	0.37	0.35	0.92	1.00	5.44	1.92	1.52	1.17
	05/15/19 to 05/29/19	3.09	1.70	2.81	1.99	0.91	0.70	0.81	1.34	4.16	2.34	3.57	6.07
	05/29/19 to 06/12/19	2.92	0.86	1.85	1.03	0.73	0.74	0.87	0.96	3.26	1.55	2.77	4.05
	06/12/19 to 06/26/19	2.20	0.62	0.93	0.57	0.36	0.47	0.68	1.27	4.43	1.18	2.15	3.02
	06/26/19 to 07/10/19	1.54	0.64	0.92	0.79	0.51	0.54	0.81	1.23	5.08	1.44	1.78	3.34
	07/10/19 to 07/24/19	3.37	0.76	1.17	0.81	0.75	0.73	0.7	0.71	2.52	0.88	0.9	4.98
	07/24/19 to 08/07/19	3.9	0.94	1.39	0.91	0.69	0.62	0.58	0.87	3.71	0.91	1.03	5.15
	08/07/19 to 08/21/19	1.58	0.72	1.34	1.59	0.56	0.5	0.43	0.55	2.53	1.04	1.42	5.79
	08/21/19 to 09/04/19	1.28	0.72	0.89	0.77	0.37	0.49	0.40	0.52	2.22	1.42	1.92	1.79
	09/04/19 to 09/18/09	1.74	0.74	0.75	0.55	0.52	0.50	0.50	0.57	2.12	1.49	2.62	3.00
	9/18/19 to 10/02/19	2.69	0.60	1.00	0.76	0.40	0.32	0.33	0.38	1.31	0.77	2.47	13.00
10/02/19 to 10/16/19	1.26	0.46	1.53	0.58	<0.31	<0.31	<0.31	0.39	1.54	1.00	4.32	1.44	
10/16/19 to 10/30/19	1.82	0.99	0.90	0.92	1.01	0.64	0.55	0.55	0.89	0.81	2.46	2.64	
10/30/19 to 11/13/19	4.40	0.81	2.72	1.97	0.89	0.63	0.81	0.60	1.62	1.14	0.74	2.58	
11/13/19 to 11/27/19	2.03	1.14	0.96	1.03	0.77	0.63	0.55	0.62	0.93	1.31	1.93	2.75	
11/27/19 to 12/11/19	1.50	0.90	1.08	1.05	0.77	0.79	0.66	0.57	1.17	0.71	0.97	1.88	
12/11/19 to 12/24/19	2.51	0.89	1.25	0.97	0.79	0.79	0.62	0.67	1.27	1.67	1.52	3.68	
	2019 Average	2.21	0.88	1.35	1.02	0.76	0.66	0.72	0.74	2.47	1.30	2.02	3.66

² During the February 6-20, 2019 sampling period, there was no reportable data for Location 6 due to a technical issue with the laboratory analysis of the sample

NOVA Chemicals Corunna Site Benzene Ambient Monitoring Results - 2018

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Date Range ↓													
Two-Week Measured Benzene Concentration (µg/m ³) 2018 Monitoring (MM/DD/YY to MM/DD/YY)	12/27/17 to 01/10/18	4.03	2.04	3.74	2.54	1.60	0.89	0.83	0.67	0.87	0.89	1.17	3.60
	01/10/18 to 01/24/18 ¹	14.80	3.73	2.60	2.19	1.61	1.27	3.84	2.50	6.94	10.20	19.50	118.00
	01/24/18 to 02/07/18	4.29	1.15	1.76	1.61	1.01	0.87	0.89	0.78	2.05	1.19	1.44	5.98
	02/07/18 to 02/21/18	4.34	1.09	1.61	0.97	0.72	0.73	0.95	0.82	3.35	1.22	1.52	6.54
	02/21/18 to 03/07/18	2.78	0.91	0.79	0.73	0.65	0.77	0.93	1.07	5.14	1.59	2.22	2.85
	03/07/18 to 03/21/18	1.71	1.02	2.40	2.24	1.95	0.92	0.66	0.81	3.39	1.32	1.21	1.17
	03/21/18 to 04/04/18	2.17	0.81	1.87	2.49	1.08	0.82	1.07	1.10	5.02	1.59	4.30	1.95
	04/04/18 to 04/18/18	5.49	1.62	5.24	2.87	0.80	0.76	0.83	1.12	4.81	5.42	4.92	2.25
	04/18/18 to 05/02/18	2.20	0.87	1.07	1.15	0.78	0.76	1.13	1.24	6.65	1.53	2.14	4.12
	05/02/18 to 05/16/18	2.79	0.66	0.76	0.69	0.51	0.49	0.70	1.08	2.73	1.59	1.44	3.08
	05/16/18 to 05/30/18	3.42	0.70	0.64	0.51	0.46	0.46	0.74	0.50	3.67	1.62	2.51	2.41
	05/30/18 to 06/13/18	1.14	0.57	1.03	0.69	0.39	0.37	0.66	0.91	3.89	1.87	2.09	2.02
	06/13/18 to 06/27/18	1.54	0.65	1.11	1.03	0.78	0.63	0.83	1.35	5.68	1.64	3.16	2.52
	6/27/18 to 07/11/18	2.48	0.52	0.77	0.58	0.45	0.41	0.82	0.78	3.41	1.05	1.64	3.49
	07/11/18 to 07/25/18	2.00	0.88	1.06	0.78	0.60	0.50	0.65	0.81	3.00	1.32	3.37	5.15
	07/25/18 to 08/08/18	2.32	0.60	1.12	0.68	0.38	0.33	0.40	0.47	1.05	0.78	1.04	2.87
	08/08/18 to 08/22/18	1.51	0.86	1.51	0.91	0.53	0.46	0.66	0.61	1.63	1.07	2.12	1.96
	08/22/18 to 09/05/18	4.12	0.69	1.33	0.62	0.5	0.47	0.47	0.52	1.02	0.69	1.01	4.59
	09/05/18 to 09/19/18	0.95	0.41	0.44	0.42	0.44	0.41	0.56	0.93	6.16	4.18	2.01	1.17
	09/19/18 to 10/03/18	2.33	0.63	0.99	0.65	0.43	0.44	0.37	0.48	1.3	1.39	2.09	2.91
	10/03/18 to 10/17/18	2.16	0.63	1.61	0.89	0.4	0.43	0.37	0.58	2.26	0.63	1.06	2.94
10/17/18 to 10/31/18	2.02	0.86	1.17	1.12	0.85	0.55	0.48	0.43	0.7	1.52	0.66	1.67	
10/31/18 to 11/14/18	1.64	0.88	2.05	1.14	0.68	0.85	0.59	0.61	1.43	1.07	1.98	2.08	
11/14/18 to 11/28/18	1.43	0.81	1.15	1.00	0.84	0.6	0.51	0.54	0.87	0.8	1.08	1.07	
11/28/18 to 12/12/18	2.15	1.12	1.54	1.15	0.97	0.83	0.69	0.68	0.71	0.76	1.33	1.83	
12/12/18 to 12/27/18	1.88	1.14	2.05	1.31	1.06	1.05	0.96	0.87	1.88	1.01	2.29	4.26	
	2018 Average	2.99	0.99	1.59	1.19	0.79	0.66	0.83	0.86	3.06	1.84	2.67	7.40

¹ On January 11, 2018 a drain line froze and cracked due to extreme weather temperatures. The incident resulted in a release of benzene. Once identified, the release was immediately isolated. The incident was reported to the Ministry of Environment and Climate Change, St. Clair Township Fire Department, Aamjiwnaang First Nation Emergency Response and the CAER Information Line. The incident location was closest to monitor 12 and elevated the sample results for the two-week reporting period.

Summary of Annual Average Benzene Concentrations

Ambient Monitoring Location ID		1	2	3	4	5	6	7	8	9	10	11	12
Location (UTM Coordinates)	Easting (m) →	385487	386047	385694	385650	386041	385968	385265	384556	384852	384592	384602	384795
	Northing (m) →	4749184	4749094	4748280	4747902	4747146	4746643	4746676	4746713	4747686	4748013	4748497	4749212
Annual Average Benzene Concentration (µg/m3)	2018	2.99	0.99	1.59	1.19	0.79	0.66	0.83	0.86	3.06	1.84	2.67	7.40
	2019	2.21	0.88	1.35	1.02	0.76	0.66	0.72	0.74	2.47	1.30	2.02	3.66
	2020	2.19	0.81	1.16	0.90	0.71	0.58	0.64	0.70	2.33	1.07	1.65	2.70
	2021	2.33	0.89	1.11	0.87	0.63	0.56	0.55	0.63	1.73	1.08	1.53	2.50
	2022	2.25	0.99	1.37	1.17	0.68	0.56	0.64	0.70	2.06	1.25	2.02	2.74
	2023	2.65	1.07	1.48	1.18	0.84	0.72	0.74	0.86	2.91	1.53	2.20	2.59
	2024	2.74	0.89	1.93	1.27	0.76	0.57	0.66	0.75	2.45	1.35	2.50	2.94
	2025	2.40	0.90	1.66	1.09	0.73	0.54	0.55	0.75	2.28	1.27	1.66	2.15

2025 Annual Average Benzene Concentrations vs. 3-Year Baseline

Monitor ID	3-Yr Baseline	S2 of Baseline	S2 of Reporting Year	Test Statistic	Degrees of Freedom	Test Statistic (p=0.0005)	Statistically Significant Increase
1	2019-2021	0.191	0.207	0.778	41	3.460	No
2	2019-2021	0.105	0.136	0.346	39	3.551	No
3	2019-2021	0.153	0.389	1.494	32	3.551	No
4	2019-2021	0.147	0.198	1.087	38	3.551	No
5	2020-2022	0.130	0.216	0.321	36	3.551	No
6	2020-2022	0.123	0.077	-0.418	54	3.460	No
7	2020-2022	0.091	0.066	-1.426	50	3.460	No
8	2020-2022	0.102	0.149	0.866	37	3.551	No
9	2020-2022	0.515	0.460	0.967	45	3.460	No
10	2020-2022	0.213	0.173	1.710	47	3.460	No
11	2020-2022	0.223	0.191	-0.165	46	3.460	No
12	2021-2023	0.178	0.244	-2.178	38	3.551	No