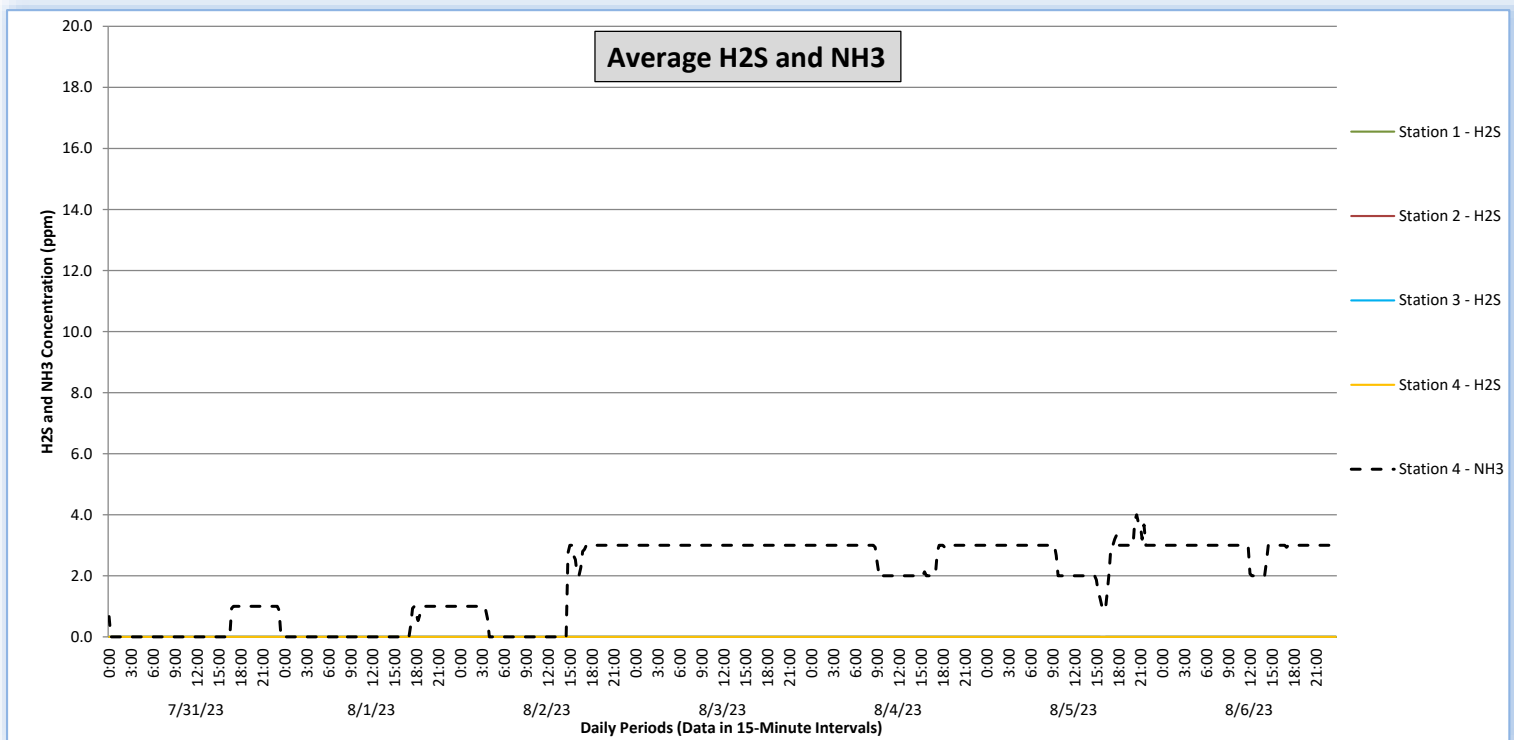
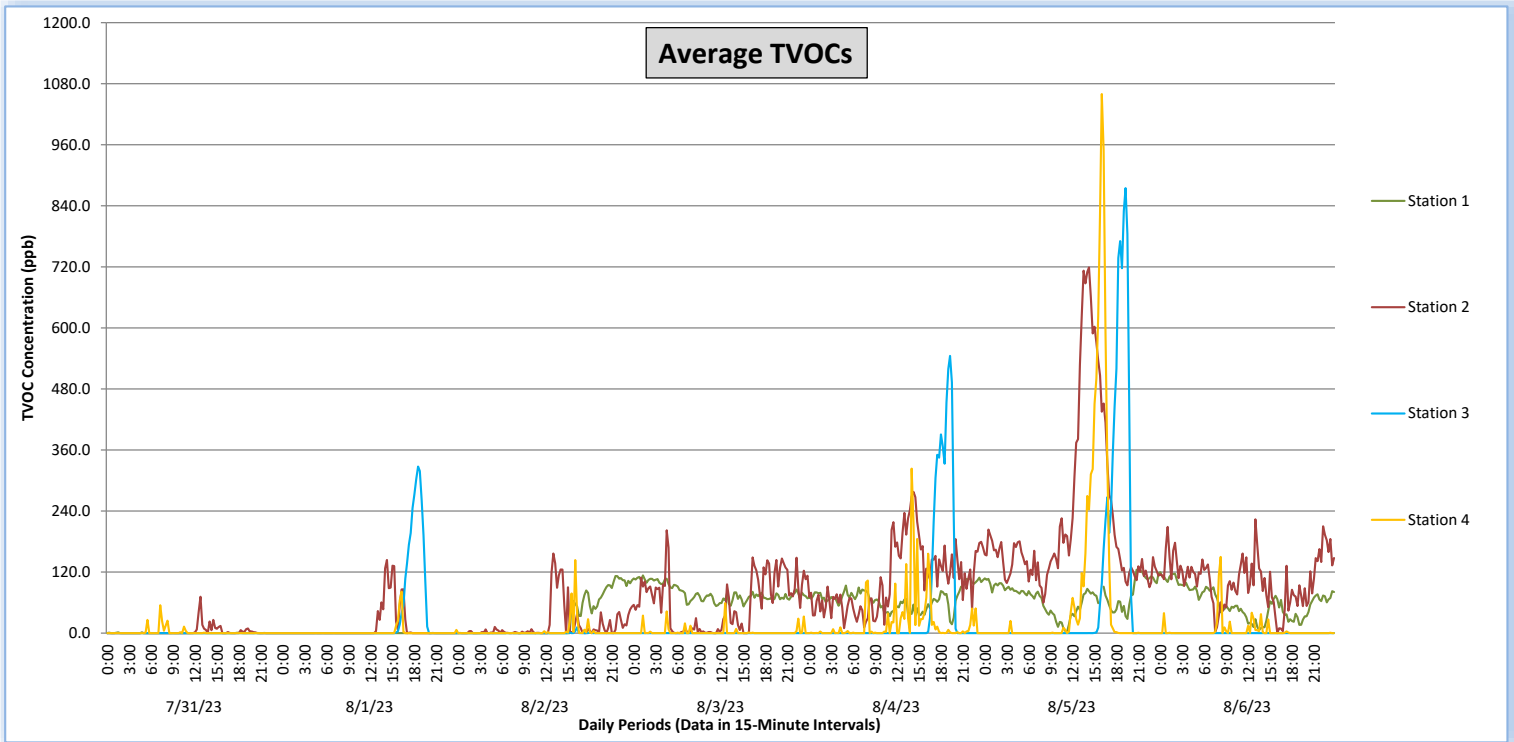


Perimeter Air Monitoring Weekly Report

Real-Time Multigas Monitoring
Bristol Landfill Air Investigation

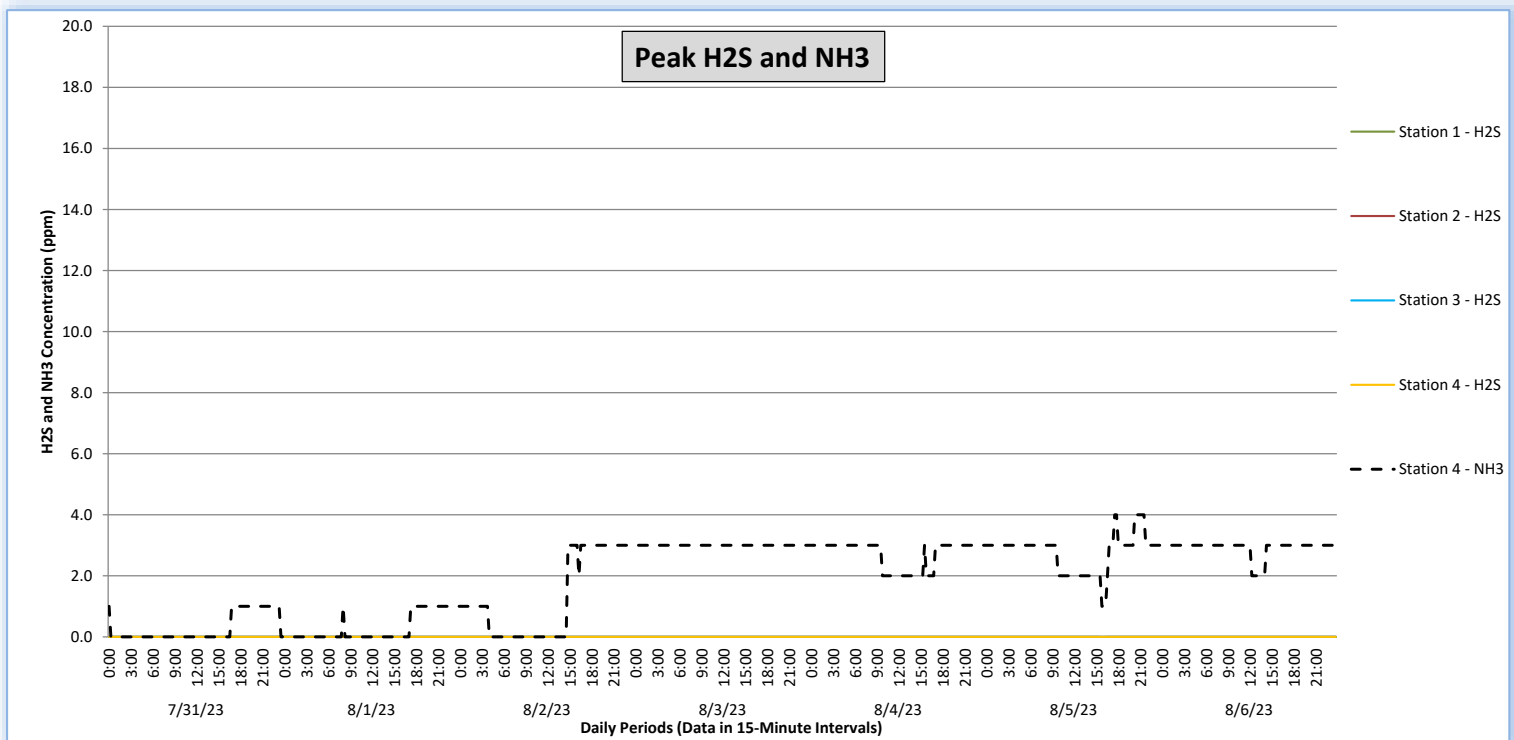
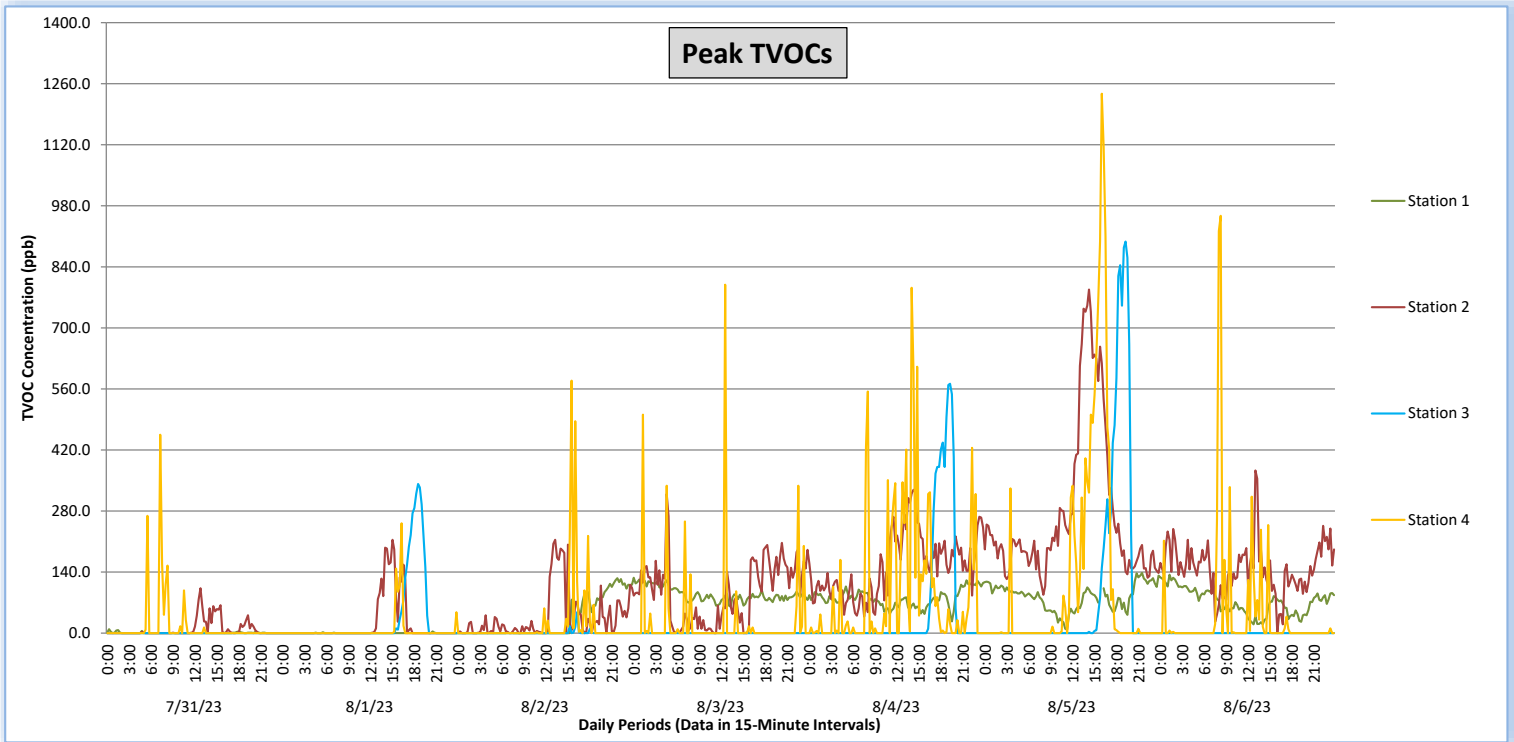
July 31 - August 6, 2023



Perimeter Air Monitoring Weekly Report

Real-Time Multigas Monitoring
Bristol Landfill Air Investigation

July 31 - August 6, 2023





Perimeter Air Monitoring Weekly Report

Real-Time Multigas Monitoring
Bristol Landfill Air Investigation



July 31 - August 6, 2023

Date	Daily Statistics	Station 1				Station 2				Station 3				Station 4					
		TVOCs		H2S		TVOCs		H2S		TVOCs		H2S		TVOCs		H2S		NH3	
		Average ppb	Peak ppb	Average ppm	Peak ppm	Average ppb	Peak ppb	Average ppm	Peak ppm	Average ppb	Peak ppb	Average ppm	Peak ppm	Average ppb	Peak ppb	Average ppm	Peak ppm	Average ppm	Peak ppm
		Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval	Values from 15-minute intervals	1-minute max within each 15-minute interval
July 31, 2023	Minimum	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0
	Maximum	2	9	0.0	0.0	72	103	0.0	0.0	0	0	0.0	0.0	55	455	0.0	0.0	1	1
	Average	0	1	0.0	0.0	3	10	0.0	0.0	0	0	0.0	0.0	2	14	0.0	0.0	0	0
August 1, 2023	Minimum	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0
	Maximum	0	4	0.0	0.0	144	214	0.0	0.0	327	342	0.0	0.0	82	252	0.0	0.0	1	1
	Average	0	0	0.0	0.0	12	22	0.0	0.0	29	33	0.0	0.0	2	7	0.0	0.0	0	0
August 2, 2023	Minimum	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0
	Maximum	112	126	0.0	0.0	157	214	0.0	0.0	11	48	0.0	0.0	144	579	0.0	0.0	3	3
	Average	28	33	0.0	0.0	17	37	0.0	0.0	0	1	0.0	0.0	3	21	0.0	0.0	1	1
August 3, 2023	Minimum	52	61	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	3	3
	Maximum	113	127	0.0	0.0	202	319	0.0	0.0	0	0	0.0	0.0	59	799	0.0	0.0	3	3
	Average	78	89	0.0	0.0	59	93	0.0	0.0	0	0	0.0	0.0	3	30	0.0	0.0	3	3
August 4, 2023	Minimum	17	27	0.0	0.0	10	38	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	2	2
	Maximum	109	121	0.0	0.0	278	329	0.0	0.0	545	572	0.0	0.0	323	792	0.0	0.0	3	3
	Average	67	79	0.0	0.0	107	155	0.0	0.0	49	58	0.0	0.0	22	95	0.0	0.0	3	3
August 5, 2023	Minimum	3	8	0.0	0.0	60	88	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	1	1
	Maximum	125	138	0.0	0.0	719	788	0.0	0.0	875	898	0.0	0.0	1,060	1,237	0.0	0.0	4	4
	Average	71	83	0.0	0.0	222	274	0.0	0.0	81	94	0.0	0.0	76	120	0.0	0.0	3	3
August 6, 2023	Minimum	6	20	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	0	0	0.0	0.0	2	2
	Maximum	120	134	0.0	0.0	224	373	0.0	0.0	0	0	0.0	0.0	150	957	0.0	0.0	3	3
	Average	61	72	0.0	0.0	104	148	0.0	0.0	0	0	0.0	0.0	6	44	0.0	0.0	3	3

Notes:

- Dash/Blank data records indicate no data is available for that interval
- Calibration readings and data produced during sensor errors are excluded from the report
- Station 4 NH₃ monitoring results have a low level of confidence in the accuracy of the reported values. The calibration gas supply ran out during the weekly calibration check on 31 July 2023. The replacement calibration gas was received 11 August 2023, a calibration completed on this monitoring system, and monitoring was reinstated 11 August 2023 following completion of the calibration.
- All stations TVOC monitoring results have a low level of confidence in the accuracy of the reported values from 2 August 2023 at 1433 until 11 August 2023 at 1418. The weekly calibration checks were attempted on 8 August 2023 but none of the stations calibration readings for the VOC standard were within the acceptable range. These unsuccessful calibrations are attributed to a defective calibration gas standard. A replacement calibration standard was received 11 August 2023, a successful calibration was completed at all four stations, and all four stations were online by 1418.

Perimeter Air Monitoring Weekly Report



Real-Time Multigas Monitoring Bristol Landfill Air Investigation



July 31 - August 6, 2023

Date	Daily Statistics	Bristol Met Station 1					Bristol Met Station 2				
		Wind Dir degrees	Wind Speed mph	Temp °F	RH %	Baro mbar	Wind Dir degrees	Wind Speed mph	Temp °F	RH %	Baro mbar
July 31, 2023	Minimum		0.1	62.0	58.1	948.6		0.2	62.9	59.0	953.0
	Maximum		3.1	83.1	96.0	951.4		6.1	81.3	89.5	955.9
	Average	145	0.8	69.0	87.6	949.9	48	1.2	69.0	82.7	954.4
August 1, 2023	Minimum		0.2	59.7	38.4	950.9		0.1	60.3	39.4	955.4
	Maximum		2.9	85.1	96.0	953.3		4.8	82.7	89.0	957.7
	Average	73	1.2	70.8	73.9	952.1	114	1.5	71.1	69.3	956.6
August 2, 2023	Minimum		0.1	61.0	52.0	951.4		0.1	63.4	54.9	955.8
	Maximum		2.2	86.3	90.0	954.6		4.4	83.9	81.8	959.1
	Average	71	0.9	72.9	73.8	952.8	115	1.6	72.9	71.3	957.2
August 3, 2023	Minimum		0.1	67.1	86.1	946.0		0.1	67.3	81.5	950.4
	Maximum		2.6	72.2	96.0	951.9		3.9	72.3	89.0	956.3
	Average	184	0.9	69.4	93.7	948.7	358	1.2	69.7	86.5	953.1
August 4, 2023	Minimum		0.1	65.7	53.0	945.8		0.1	67.3	53.4	950.2
	Maximum		2.5	85.7	96.0	948.1		2.9	84.2	89.0	952.5
	Average	6	0.8	74.2	80.1	946.8	312	1.0	74.4	75.6	951.2
August 5, 2023	Minimum		0.1	60.5	46.7	946.8		0.1	61.8	47.8	951.3
	Maximum		1.8	88.8	96.4	949.3		4.5	86.9	89.0	953.8
	Average	52	0.8	74.8	74.1	948.3	321	1.4	74.7	71.9	952.8
August 6, 2023	Minimum		0.1	67.1	67.8	946.1		0.1	68.6	70.3	950.5
	Maximum		3.9	82.3	94.0	948.6		6.2	81.0	87.1	953.0
	Average	219	0.8	73.8	84.7	947.3	323	1.5	74.1	80.5	951.7

Notes:

- Dash/Blank data records indicate no data is available for that interval
- Wind direction is a daily (24-hr) average value; with the origin of wind in degrees; clockwise from North calculated with vector averaging