AirScience
& Environmental Quality

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About Us

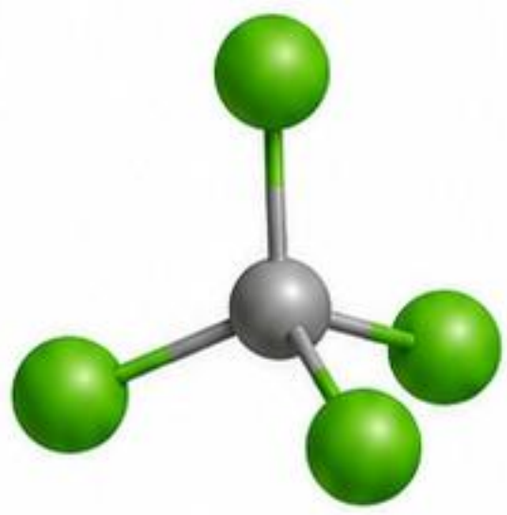
Trinidad and Tobago and the wider Caribbean region. We provide scientific assessments and data-driven insights to help individuals, businesses, and governments breathe safer air and make informed environmental decisions. We specialize in assessments for construction planning, safety compliance, and risk mitigation across urban and industrial sectors.

Our Services

Air Quality Monitoring (Indoor & Outdoor) - Custom Data Dashboards & Reports - Environmental & Industrial Consulting - Public Education & Community Engagement - Regulatory Compliance & Risk Assessments - GHG Emissions (Identification & Quantification)

Case Study: Caroni Swamp Chemical Spill (2022)

Following public reports of strong odors and illness near Caroni Swamp Swamp, a protected RAMSAR site, a suspected chemical spill prompted emergency air quality monitoring. Using a GASMET FTIR DX4015 analyzer, over 30 airborne chemical pollutants were detected, including hazardous compounds like benzene and carbon tetrachloride. Findings indicated industrial solvent contamination, likely from improper disposal or waste mismanagement near the ecosystem.



#	Component	Concentration	Unit	CHCA	CHCM	C...	Range	Result
1	Hydrogen cyanide HCN	20.60	ppbv			weak	10.000	0.02493
2	Carbonyl Sulfide COS	12.60	ppbv			weak	5.000	0.04032
3	Nitrous oxide N2O	0.10	ppm			weak	50.0	0.00027
4	Carbon dioxide CO2	0.19	ppm			weak	500	0.04520
5	Methane CH4	1.50	ppm			weak	2000	0.37350
6	Ammonia NH3-NH2C	0.23	ppm			weak	20.0	0.02316
7	Sulfur dioxide SO2	0.20	ppm			weak	20.0	0.00298
8	Hydrogen Chloride HCL	0.20	ppm			weak	20.0	0.16298
9	1,1,1-Trichloroethane	0.02	ppm			weak	2.000	0.99782
10	Benzene C6H6	5.10	ppbv			weak	100	1.02633
11	Tetrachloro-ethylene	0.50	ppbv			weak		1.13746
12	Carbon disulfide CS2	5.00	ppbv			weak	100	1.46145
13	Carbonyl Sulfide OCS	0.50	ppbv			weak	100	0.53195
14	Formaldehyde CH2O	3.00	ppbv			weak	100	1.20035
15	Hydrogen Sulfide H2S	8.00	ppbv			weak	100	1.93715
16	Acetylene C2H2	10.00	ppbv			weak	100	2.32484
17	Carbon tetrachloride	560.00	ppbv			N/A	10.000	0.00000

How Air Science TT Can Help

- Real-time air monitoring & emergency response tools
- Emissions tracking & regulatory guidance
- Health risk and exposure assessments
- Public communication & technical reporting
- Early warning systems for sensitive ecosystems

Contact & Credits

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