



Soil gas monitoring is routinely used as a screening tool to map contaminant plumes in groundwater, monitor underground storage tanks, evaluate progress of cleanup technology, and guide placement of confirmatory soil and water samples. More recently, soil gas measurements have also become the primary tool for vapor intrusion investigations, which typically require a higher level of defensibility than solely a screening value.

Air Toxics Ltd. is on the forefront of evaluating and developing analytical and sampling protocols for all types of soil gas measurements. We offer a variety of products for soil gas analysis designed to best meet your data quality objectives in a cost-effective manner.

Air Toxics Ltd. welcomes your inquiry.



Always Air,
Always Accurate

Soil Gas Monitoring

Method TO-15 (5 & 20)

With a 62-compound VOC list, the 5 & 20 GC/MS analysis provides the same QC and compound capabilities as the standard TO-15 product, but with a reporting limit of 5 ppbv. The 5 & 20 GC/MS product has a wide linear range of up to 5000 ppbv, which minimizes sample dilutions and provides a cost-effective solution for high concentration samples such as soil gas, landfill gas, emission source or flare samples.

Method TO-15 (Standard)

Standard TO-15 is the most commonly used method for evaluating soil gas when a project requires lower reporting limits for specific applications. Examples of these applications include soil gas samples on the outer edge of a plume or nearing cleanup goals, and samples used to predict vapor intrusion pathways. Our standard TO-15 product provides reporting limits of 0.5 ppbv and a standard 62-compound list, along with the expertise and flexibility to analyze many other non-standard project-specific compounds.

Method TO-15 Low Level & SIM

Occasionally, soil gas investigations require lower reporting limits. Typically these are requested when evaluating a vapor intrusion pathway. Two of Air Toxics' products provide a solution for this: TO-15 Low Level with reporting limits down to 0.1ppbv and TO-15 SIM operating in Selective Ion Monitoring (SIM) mode with reporting limits down to the pptv range.

Method TO-15 Hi/Lo

Often times, due to varied screening levels it is sufficient to screen for most compounds at a standard detection level with it only being necessary to look for select compounds at the lowest possible detections limits. In some other cases the objective is to scan for the constituents of concern at low levels amongst complex matrices. Air Toxics' TO-15 Hi/Lo product addresses both of these challenges by utilizing the latest technology called Synchronous SIM/Scan. This technology combines the sensitivity of the SIM mode with the complete characterization of the full scan mode in one analytical run.

Media

Air Toxics Ltd. maintains a large inventory of Summa canisters in a variety of sizes from 0.25L to 6L, Teflon tubing, fittings, flow controllers and gauges. Our experts can assist you with selecting your leak check compound and your sampling media to ensure your quality objectives are met. Specialized soil gas sampling equipment, such as our soil gas manifold, is available to streamline your sampling efforts. The manifold can be used as a convenient way to leak check the sample train, purge the sample lines prior to sample collection, and monitor for sufficient flow of soil gas from the probe.

For a complete List of Services, please contact us at www.airtoxics.com or call (800) 985-5955.