

Schedule of Services

ENVIRONMENTAL

Analytical Service, Inc.

The Air Measurement Specialists

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Project Planning	EAS will assist with your initial project planning efforts, and will help arrange equipment rentals and any subcontract services with our network of special service labs.
Sample Equipment	EAS can provide Canisters and Tedlar bags for VOC Analysis and sampling equipment, such as flow controllers and pumps. EAS has over 500 SUMMA canisters and 250 Flow Controllers.
Sample Receiving	Sample Control Hours are 8:00AM to 5:00PM, Monday through Friday, for sample container orders. You can also order your containers by e-mail. EAS will accept Saturday delivery at the San Luis Obispo Federal Express Office (please request "Hold for Pick up" on the Airbill, and contact sample control).
Analytical Reports	EAS can e-mail Preliminary Results in about five to seven working days, if requested. Let us know <i>your</i> schedule so we can try to accommodate your needs. A PDF of the Analytical Report and Invoice will be sent in ten working days. Twenty-four hour and forty-eight hour turn around time is available for an additional charge.
Electronic Data	EAS provides Electronic Data Deliverables in many formats, such as ADR, Equis, ERPIMS and Geotracker.
Data Deliverable Package	Full Level 3 or Level 4 Data Deliverable Packages in ADR format can be provided for an additional charge.
Data Interpretation	EAS will provide assistance with expert data interpretation for you or your client. Dr. Steven Hoyt is a recognized expert in the field of air toxics measurements.
Consulting Services	Dr. Steven Hoyt also provides consulting services on air testing method development, data review and evaluation, and project planning.

Fee Schedule

The schedule of services and fee schedule is organized into tables by method and compound or compound category. In the compound table, some compounds or compound categories have multiple methods and options and are referenced in a separate table detailing the options. An index of the tables is shown below.

- **Compound Table by Method**
- **Volatile Organic Compounds (VOC)**
- **Hydrocarbons (VOC)**
- **Semi-Volatile Organic Compounds (SVOC)**
- **Indoor Air Testing – LEED**
- **Special Testing Methods**
- **Sample Collection Media**
- **Sampling Collection Equipment**

Compound Table by Method

Method	Compound/Compound Category	Instrument
EPA TO-3	BTEX and Hydrocarbons Hydrocarbon Table	
EPA TO-4	Pesticides and PCB's Semi-Volatile Organic Compound Table	
EPA TO-5	Aldehydes and Ketones	HPLC
EPA TO-8	Phenols and Cresols	HPLC
EPA TO-10	Pesticides and PCB's Semi-Volatile Organic Compound Table	
EPA TO-11	Formaldehyde	
EPA TO-11	Aldehydes and Ketones	
EPA TO-12	Hydrocarbon Table	
EPA TO-13	Polyaromatic Hydrocarbons (PAH) Semi-Volatile Organic Compound Table (SVOC)	
EPA TO-14	Volatile Organic Compound Table Hydrocarbon Table	
EPA TO-15	Volatile Organic Compound Table	
EPA TO-15 SIM	Volatile Organic Compound Table	
EPA TO-17	Volatile Organic Compound Table	
ASTM D1946	Methane	GC/TCD GC/FID
ASTM D1946	Permanent Gases N ₂ ,O ₂ ,CH ₄ , CO,CO ₂ Hydrogen	GC/TCD
ASTM D3488	Heating Value - BTU	
EPA 3C	Permanent Gases N ₂ ,O ₂ ,CH ₄ ,CO ₂	GC/TCD
ASTM D1945	Hydrocarbon Table	
EPA M15/16	Hydrogen Sulfide 0.5 ppbv	GC/FPD
EPA M15/16	Reduced Sulfur Gases 20 Compounds, 0.5 ppbV	GC/FPD
EPA M18	Hydrocarbon Table	
EPA 00010	Semi-Volatile Organic Compound Table	

Volatile Organic Compounds

Method	Description	Instrument
EPA TO-15	Single Compound	GC/MS
EPA TO-15	BTEX, MTBE	GC/MS
EPA TO-15	Short List	GC/MS
EPA TO-15	Express 25 Compound List Full Scan – High Level	GC/MS
EPA TO-15	TO-14 40 Compound List	GC/MS
EPA TO-15	Standard Compound List Full Scan	GC/MS
EPA TO-15	Standard Compound List Full Scan – Low Level	GC/MS
EPA TO-15	Extended Compound List With Special Compounds	GC/MS
EPA TO-15	Combined Full Scan – SIM Full Scan List SIM for Selected Compounds	GC/MS
EPA TO-15	TIC Report – Top 10 Compounds	
EPA TO-15	TIC Report – TIC Printout	
EPA TO-15	MS Detailed Report Chromatogram with all Peaks Labeled	
EPA TO-15	C4 to C11 Hydrocarbons See Hydrocarbon Compounds	GC/MS
EPA TO-15	Siloxane SIM	GC/MS
EPA TO-15	Siloxane added to Full Scan	GC/MS
EPA TO-15SIM	Single Compound	GC/MSSIM
EPA TO-15SIM	Run after Full Scan Analysis	GC/MSSIM
EPA TO-15SIM	BTEX – Chlorinated Breakdown Low level 0.005 ppbV	GC/MSSIM
EPA TO-15SIM	45 Compound List	GC/MSSIM
EPA TO-17	Short List	GC/MS
EPA TO-17	Express 25 Compound List	GC/MS
EPA TO-17	Standard 70 Compound List	GC/MS

Hydrocarbons

Method	Description	Instrument
EPA TO-3	BTEX, TPH	GC/FID
EPA TO-3	BTEX, MTBE, TPH	GC/FID
EPA TO-3	BTEX, Fuel Oxygenates, TPH	GC/FID
EPA TO-3	Hydrocarbon Speciation 55 PAMS Compounds EPA Ozone Precursor Method	
EPA TO-3	Detailed Hydrocarbon Analysis 89 Hydrocarbon List, TPH, TNMOC, PIANO Breakdown	
EPA TO-3	TPH	
EPA TO-15	BTEX	
EPA TO-12	Total Non-Methane Hydrocarbons	
EPA TO-15	BTEX Fuel Oxygenates	
EPA TO-15	C4 to C11 Hydrocarbons MDL 0.5 ppbV	
EPA TO-15SIM	C4 to C11 Hydrocarbons MDL 0.05 ppbV	
ASTM D1945	C1 to C4 Hydrocarbons 20 ppmV	GC/TCD
ASTM D1945	C1 to C6 Hydrocarbons 0.5 ppmV	GC/FID
ASTM D1946	Methane 20 ppmV	GC/TCD
ASTM D3416	Methane 0.1 ppmV	GC/FID
ASTM D2504	Gases in C3 Hydrocarbon Products	GC/TCD GC/FID
ASTM D2887 ASTM D3710	Boiling Range by GC	GC/FID
ASTM D6730	Detailed Hydrocarbon Analysis (PIANO) by GC/FID	GC/FID
EPA M18	C1 to C6 Hydrocarbons Modified Method18	GC/FID
EPA M18	Hydrocarbons, 89 PIANO Modified Method 18	GC/FID
EPA M18	Unmodified	GC/FID

Semi-Volatile Organic Compounds

Method	Description	Instrument
EPA TO-4A EPA TO-10A	Pesticides, Short List	GC/MS
EPA TO-4A EPA TO-10A	Organochlorine Pesticides by GC/MS	GC/MS
EPA TO-4A EPA TO-10A	Organochlorine Pesticides and PCB's by GC/MS	GC/MS
EPA TO-4A EPA TO-10A	Organochlorine and Organophosphate Pesticides by GC/MS	GC/MS
EPA TO-4ASIM EPA TO-10ASIM	Organochlorine Pesticides by GC/MS SIM	GC/MS
EPA TO-4SIM EPA TO-10ASIM	Organochlorine Pesticides and PCB's by GC/MS	GC/MS
EPA TO-13	Extraction, no Analysis	
EPA TO-13	Polyaromatic Hydrocarbons (PAH)	GC/MS
EPA TO-13 SIM	Polyaromatic Hydrocarbons (PAH)	GC/MS
EPA TO-13	Diesel Range Organic Compounds TPH Diesel	GC/MS
EPA TO-13	Semi-Volatile Organic Compounds B/N	GC/MS
EPA TO-13 SIM	Semi-Volatile Organic Compounds Short List	GC/MS
EPA TO-13 EPA 8270C	Add Phenols to SVOC	GC/MS
EPA TO-13	Semi-Volatile Organic Compounds Library Search	GC/MS
EPA 8270C	Semi-Volatile Organic Compounds B/N	GC/MS
EPA 0010	Extraction of Filter and XAD Combined Analysis by 8270C	GC/MS
EPA 0010	Extraction of Condensate	

Indoor Air Testing - LEED

Method	Description	Instrument
EPA TO-15 EPA TO-17	Total Volatile Organic Compounds (TVOC)	GC/FID
ASTM D3416	Carbon Dioxide	GC/TCD
TO-11	Formaldehyde	HPLC
TO-17	4-PCH	GC/MS
	LEED Package – All of the Above Tests and Media	
EPA TO-15	Volatile Organic Compounds	GC/MS
EPA TO-15	Library Search TIC	GC/MS
EPA TO-15	MS Detailed Report Chromatogram with all Peaks Labeled	GC/MS

Special Testing Methods

Method	Description	Instrument
	1,1-DFA Soil Gas Tracer	GC/FID
ASTM D1946	Helium	GC/TCD
	Sulfur Hexafluoride	GC/ECD
NIOSH 2533	Tetraethyl Lead	GC/MS
NIOSH 0500	Total Particulate Matter (TSP) with Filter	GRAV
BAQMD M29	Methanol, Ethanol Impinger	GC/FID
RSK 175	Methane	GC/FID
RSK 175	Methane and CO2	GC/FID
TO-15	TO-15 Siloxanes	GC/MS
NIOSH 6015	Ammonia	IC
NIOSH 7904	Hydrogen Cyanide	IC
M26 Modified	Hydrogen Halides	IC

Sample Collection Media

Category	Description	Method
Canisters	Canister, 1 Liter	TO 15, TO 3, ASTM D1946
	Canister, 3.2 Liter	TO 15, TO 3, ASTM D1946
	Canister, 6 Liter	TO 15, TO 3, ASTM D1946
	Individual Certification of Canister and Flow Controller Together	TO 15, TO 3, ASTM D1946
Tedlar Bags	Tedlar Bag, 1 Liter	EPA M 15/16, TO 3, TO 15
	Tedlar Bag, 10 Liter	EPA M 15/16, TO 3, TO 15
Flow Regulators	Flow Regulator & Gauge, 1 hour	TO 15, TO 3
	Flow Regulator & Gauge, 8 hour	TO 15, TO 3
	Flow Regulator & Gauge, 24 hour	TO 15, TO 3
	Adjustable Veriflow Flow Controller	TO 15, TO 3
Accessories	Snorkel	TO 15, TO 3
	Sample Splitter for Duplicate Order Extra Flow Regulator	TO 15, TO 3
Soil Gas Samplers	Soil Gas Express 1 Liter Can, Flow Regulator	TO 15, TO 3
	Soil Gas Sampler DTSC Requirements	TO 15, TO 3
	Inlet Gauge for Above Sampler	TO 15, TO 3
Sorbent Tubes	DNPH Cartridge Diffusion Cartridge	EPA TO-11
	PUF Cartridge, High Volume	EPA TO-4
	PUF Cartridge, Low Volume	EPA TO-10
	PUF/XAD Cartridge, High Volume	EPA TO-13
	PUF/XAD Cartridge, Low Volume	EPA TO-13
	VOC 3 Bed Sorbent Tube Diffusion Cartridge	EPA TO-17
	Texax Sorbent Tube	EPA TO-17
	Individual Certification of Tube	EPA TO-17
Impingers	Impinger Kit with Solution	

Sample Collection Equipment

EAS can supply some pumps, pumped air samplers, bladder samplers, and special samplers. Call for details and shipping charges.

Category	Description
Pumps	Pump, 15L /min with Rotometer
	Additional Rotometer
	Special Pump Configuration Charge in addition to Pump Rental
	Bladder Sampler for Tedlar Bags
	Multi-Method Sample Train
VOC Sampler	Pressurized VOC Sampler
Tubing	Teflon Tubing, per foot
	“Tygon” Tubing (Do not use as sample line)
	Stainless Steel Tubing, per foot
Fittings	Swagelock Fittings, price per fitting
Gauges	Pressure/Vacuum Gauge and Fitting

TERMS AND CONDITIONS

PAYMENT

The Client agrees to pay for the services performed at the rates specified in the current fee schedule unless otherwise provided in a contract or written quote. Invoices will be mailed to the Client upon completion of the services, and are due in 30 days unless prior arrangements are made. EAS will work on a paid when paid basis if arrangements are made in advance. Balances outstanding more than 30 days after the invoice date can be subject to a finance charge of 1.5 percent per month unless arrangements are made in advance.

Client may suspend or terminate all or any part of the analytical work by providing written notice to EAS in the form of a certified letter, and shall be responsible for charges for all services performed up to the time of receipt of such notification. Either party may terminate the work in the event the other party fails to perform in accordance with the provisions of the agreement.

SAMPLES AND EQUIPMENT

Prior to EAS's acceptance of any sample, the entire risk of damage or loss to such sample shall remain with the Client. The Client is fully responsible for any sampling equipment or canister rented from EAS from the time it is received by the Client until it has been returned and accepted at EAS. The Client is responsible for the cleaning fee on sampling equipment whether or not it has been used, unless said equipment is defective at time of arrival. The Client will pay shipping and handling charges on all items delivered to EAS that the Client requests to be returned. EAS reserves the right to refuse to accept delivery of, or to analyze, any sample that is not delivered to EAS in good condition or that poses a health or safety risk.

DELIVERY OF SERVICES

EAS will perform services requested by the Client using industry accepted standards and methods approved by regulatory agencies such as the U.S. Environmental Protection Agency, or other federal, state, or local agencies. EAS reserves the right to make modifications, consistent with industry standards and/or the EAS Quality Plan, to these methods if necessary in order to successfully complete the analysis. Upon receipt of sample, EAS will provide the Client a notification of the receipt of samples, tests to be conducted, and an estimated report shipping date. Occasionally, EAS may perform a repeat analysis as required by the EAS QA Plan or because of special matrix handling requirements. EAS will make every effort to complete the re-analysis within the holding times, but cannot guarantee this. EAS may agree to supply the Client with verbal or electronic preliminary analytical results in advance of a final written report. The Client should not rely on preliminary results, and EAS shall have no liability associated with the use of these results.

Occasionally, there are inherent sample matrix interferences that may prolong or increase the effort for analysis. For such samples EAS may add an additional charge, on written approval of the Client, to cover the increased time spent by EAS. Unless contractually agreed upon, analytical turnaround times are not guaranteed. EAS reserves the right to subcontract services to another laboratory, if in EAS's judgment it is necessary to do so. The client will be notified before this is done.

LIMITATION OF LIABILITY

In no event shall the liability of EAS exceed the sum of (a) the amount paid to EAS for the analysis of the sample in question plus (b) the amount expended by the Client to obtain the sample, not to exceed two thousand dollars (\$2,000) unless the Client provided EAS with written notification of the estimated collection cost prior to the start of the project. In no event shall EAS be liable for consequential damages. Under no circumstances shall EAS be liable to any third party other than the Client with respect to the provision of services by EAS to the Client.

GOVERNING LAW

These Terms and Conditions and the rights and obligations of EAS and the Client with respect to the provision of services by EAS shall be governed by the laws of the State of California.