

# Armstrong

*Forensic Laboratory, Inc.*



*Providing a World of Services*

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***Armstrong Forensic Laboratory, Inc.***  
***Laboratory Qualifications***

***Organization***

Chairman, Board of Directors:	Kay F. Armstrong, BS MT (ASCP)
President:	Benjamin N. Armstrong, BBA
Senior Vice President and Technical Director:	Andrew T. Armstrong, PhD, Fellow ABC
Vice President of Services:	Marion K. Armstrong, MSPH, MBA, CIH
Quality Assurance Director:	Stan E. Gilewicz, BA
Laboratory Director:	Kelly L. Wouters, PhD, Fellow ABC
Senior Consultant:	Karen M. Deiss, BS

***Accreditations/Certifications/Registrations***

ASCLD/LAB-*International Crime Lab*:

Controlled Substance	Trace Evidence Fibers
Trace Evidence Fire Debris	Trace Evidence Paint
Trace Evidence Analysis of Unknown	

Texas Forensic Science Commission:

Controlled Substance	Trace Evidence Fibers
Trace Evidence Fire Debris	Trace Evidence Paint
Trace Evidence Analysis of Unknowns	

Perry Johnson Laboratory Accreditation, Inc. (PJLA)

Chemical Analysis of Lead in Paints and Other Materials

American Industrial Hygiene Association (AIHA):

Industrial Hygiene Laboratory Accreditation Program (IHLAP)  
Environmental Lead Laboratory Accreditation Program (ELLAP)

EPA National Lead Laboratory Accreditation Program (NLLAP)

EPA Resource Conservation and Recovery Act (RCRA) Regulated Waste Activity

Department of Agriculture (DOA) Soil Permit

Food and Drug Administration (FDA) Registered

Department of Justice (DOJ) Drug Enforcement Administration Controlled Substance Registration

Texas Department of Public Safety Controlled Substance Registration

Texas Department of State Health Services (TDSHS):

Mold Analysis Laboratory (MALab)  
Mold Assessment Company (MACo)

Texas Building Procurement Commission (TBPC) HUB

North Central Texas Regional Certification Agency (NCTRCA) WBE Certificate

South Central Texas Regional Certification Agency (SCTRCA) WBE Certificate

Women's Business Enterprise National Council (WBENC) WBE Certificate

***Technical Support and Contact Information***

Technical Support is available Monday through Friday, 9:00 a.m. - 5:00 p.m. After-hours messages and orders can be left at (817) 275-2691. For emergencies, call (817) 821-2461, 24 hours.

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Arlington, TX 76012

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# **Armstrong Forensic Laboratory, Inc.**

## **General Terms and Conditions for Services**

1. **Scope of SERVICES:** *Armstrong Forensic Laboratory, Inc.* "ARMSTRONG" shall perform such SERVICES as specifically requested by the CLIENT and which ARMSTRONG accepts. "SERVICES" mean the specific analytical, investigative or other SERVICES performed by ARMSTRONG as set forth in ARMSTRONG'S Proposal, Quote, Contract or the Client's submitted Chain of Custody (COC). "CLIENT" refers to the person or business entity, authorizing the SERVICES. The ordering of SERVICES from ARMSTRONG, or the reliance of ARMSTRONG'S SERVICES, shall constitute acceptance of ARMSTRONG'S General Terms and Conditions for SERVICES applicable at time of that agreement, regardless of any previously issued document. Submission of a COC is the equivalent of a contract for SERVICES. Authorization of SERVICES through one of the listed methods will identify the Signatory as the responsible party for purposes of establishing ARMSTRONG'S CLIENT, the party to receive laboratory reports, the party responsible for invoicing, as well as information related to confidentiality and conflict of interest.
2. **Proposals, Quotes and Contracts:** ARMSTRONG is often requested to provide an estimate of cost for SERVICES. These estimates will be provided based on ARMSTRONG'S understanding of the CLIENT'S request and ARMSTRONG'S professional judgment with the understanding that the estimate or quote is not a maximum or fixed-fee quotation. Certain well-defined SERVICES (e.g., specific analytical tests) allow for a fixed-fee quote to be provided. It is ARMSTRONG'S policy that such fixed-fee quotes are limited to analytical services only and do not include any data interpretation or consultation time.
3. **CLIENT'S Duty to Notify ARMSTRONG:** All parties agree that Safety is of paramount importance. Any information available to the CLIENT concerning the proper handling or the dangerous content of samples submitted to ARMSTRONG will be provided to ARMSTRONG in a most urgent manner, to include being provided to ARMSTRONG prior to sample submission.
4. **Quality Assurance:** ARMSTRONG warrants that it will provide analytical testing and related SERVICES in the highest standards as specified in ARMSTRONG'S Policies and Procedures Program. Internal quality control procedures are in place and acceptability criteria have been established for routine analyses. ARMSTRONG does not warrant that analytical or consulting SERVICES provided can or will resolve all questions or concerns of the CLIENT.
5. **Regulatory Requirements:** ARMSTRONG will provide analytical SERVICES utilizing methods appropriate to meet the CLIENT'S specific regulatory requirements as ARMSTRONG is made aware of such requirements. Otherwise, ARMSTRONG will provide analytical SERVICES utilizing guidelines most appropriate for the specifications as understood by ARMSTRONG in accordance with ARMSTRONG'S Policies and Procedures Program.
6. **Field Sampling and Assessments:** The CLIENT shall provide a clear Scope of SERVICES from which ARMSTRONG will base its field sampling and site assessment recommendations. CLIENT shall be responsible for all samples and assessments of the site, materials and SERVICES performed by others to be timely and properly performed in accordance with the plans, specifications and contract documents as specified by ARMSTRONG'S recommendations.
7. **Third Party Reliance:** Nothing under these General Terms and Conditions for SERVICES, any Proposal, Contract or Quote shall be construed to give any other rights or benefits in this document to anyone other than the CLIENT. All duties and responsibilities undertaken will be for the sole and exclusive benefit of the CLIENT.
8. **Confidentiality:** ARMSTRONG'S policy on confidentiality reflects our understanding that information concerning the CLIENT'S company, samples, analyses, and results are the sole property of the CLIENT. This information is held in strictest confidence. ARMSTRONG will release reports or case information only to the CLIENT or authorized agent of CLIENT.
9. **Conflicts of Interest:** ARMSTRONG provides routine, as well as specialized, SERVICES for many companies, organizations and individuals in a variety of matters. As such, ARMSTRONG must retain the right to represent such CLIENTS in the future, but every reasonable effort shall be made to avoid conflicts of interest on any specific matter. ARMSTRONG'S SERVICES will be conducted in a professional manner and each specific project will be kept separate from all other work done. The submittal of samples for analytical SERVICES shall not prohibit ARMSTRONG from providing consulting SERVICES to other parties for the same matter. ARMSTRONG'S confidentiality policy shall remain in place.
10. **Responsibility:** ARMSTRONG'S SERVICES shall not include determining, supervising or implementing the means, methods, techniques, sequences or procedures of on-site remediation or reconstruction. ARMSTRONG shall not be responsible for evaluating, reporting or affecting job conditions concerning health, safety or welfare, unless specifically listed in the Project's Scope of Work. ARMSTRONG does not accept the responsibility for actions outside of ARMSTRONG'S direct control. ARMSTRONG is not a construction contractor or remediator. In the event of lost or damaged samples, valuation of said samples, for purposes of reimbursement, will be the cost of the media or sample container only.
11. **Turn Around Time:** Working Days shall be defined as Monday through Friday, 8:00 am - 5:00 pm, excluding national and state holidays. Standard turn around time (TAT) for routine analytical work shall be measured from the date of receipt for samples received before 2:00 pm (CST). Samples received after 2:00 pm (CST) shall have TAT measured from the next working day. Accelerated TATs may be requested for a surcharge. ARMSTRONG currently has three routine TAT levels to meet our CLIENT'S needs: STANDARD (7-10 working days); RUSH (3-5 working days); and PRIORITY (Dedicated attention during standard working day until the report is issued - typically 24-48 hours but not guaranteed). Actual analytical TATs may be method restrictive. Services requiring extended evening or weekend work, such as EMERGENCY analytical requests, will incur additional Surcharges.

**Armstrong Forensic Laboratory, Inc.**  
**General Terms and Conditions for Services**

12. **Outside SERVICES:** ARMSTRONG uses a select list of qualified outside laboratories to perform analyses not available in-house, for which ARMSTRONG is not certified/licensed (when required), or in order to meet the CLIENT'S turn around time (TAT). Unless specified by the CLIENT, ARMSTRONG will select outside SERVICES based on accreditation/certification requirements, quality of work, and cost.
13. **Scheduling of SERVICES:** The SERVICES offered by ARMSTRONG will be accomplished in a timely, competent and professional manner. The CLIENT must be aware that some analyses have limited hold times and may require RUSH TATs to meet those requirements. If excessive quantities of samples for similar analyses are submitted over a short period, ARMSTRONG may not be able to complete all analyses within the routine time. ARMSTRONG will make every effort to notify the CLIENT when such delays are anticipated.
14. **Reporting Policy:** All reports that are issued via electronic transmission (e-mail, facsimile, etc) are considered preliminary. Final reports are issued with original signatures and are embossed with the appropriate Laboratory Seal. Reports delivered via e-mail will be encrypted using Adobe® Acrobat® (pdf) format or similar program.
15. **Court and Witness Fees:** Time spent in preparing for deposition or testimony will incur charges according to ARMSTRONG'S current Fee Schedule at the time of occurrence.
16. **Insurance:** A charge of \$50.00 per year per policy will be assessed to the CLIENT in order to be listed as an "Additional Insured" on any insurance policy, payable in advance. This charge will be waived if the CLIENT names ARMSTRONG as "Additional Insured" on CLIENT'S policies and provides this documentation within 30 calendar days of the original request by the CLIENT. As a matter of corporate policy, Waivers of Subrogation is not available.
17. **Retainer and Prepayment:** Certain SERVICES or projects may require a Retainer or Prepayment. The specific terms of such an arrangement, including amount required, disbursement schedule, etc., will be established on a case-by-case basis with full agreement between both ARMSTRONG and the CLIENT.
18. **Payment:** CLIENTS are required to pay at the time SERVICES are requested. Invoicing with reports and/or credit is available for CLIENTS with an acceptable credit history and an ongoing relationship with ARMSTRONG. CLIENTS with an unacceptable credit history or who have had issues regarding timely payment will be considered "Cash Only" until such issues are successfully resolved. All invoices issued are due and payable upon receipt by the CLIENT. Invoices will be considered Past Due after 30 days from the Invoice Date. Finance charges of 1.5% per month may be applied to any past due accounts. If an invoice is submitted to a collection agency, all costs and legal fees associated with its collection, to the extent allowed by law, will be added to the total final amount due. Excessive concentrations or sample matrices that require specialized consideration may incur additional surcharges.
19. **Failure to Pay:** Failure to pay for SERVICES will render the project file the property of ARMSTRONG and will release ARMSTRONG from any CLIENT relationship regarding those SERVICES. Failure to pay for any part of an invoice will result in the automatic release of ARMSTRONG from the project as well as any potential conflicts of interest for ARMSTRONG working with future CLIENTS related to the same matter. ARMSTRONG will retain ownership and control of the file, all information, documentation, samples, evidence, work product and all other related materials. No information will be released to the CLIENT, or their representative, until payment of all invoices and resulting penalties has been settled.
20. **Dispute Resolution:** Given ARMSTRONG'S ongoing relationship with its CLIENTS, and based on our experience, we anticipate that all disputes will be resolved amicably. In the event of any dispute or controversy, regarding or arising out of the services performed by ARMSTRONG and including disputes related to billing and/or invoicing, it is agreed that the same shall be subject to mediation before a mutually agreeable mediator, or one appointed by the American Arbitration Association "AAA", if agreement cannot be reached. All unresolved disputes shall be subject to binding arbitration in Arlington, Texas. The arbitration shall be administered by the Dallas office of the AAA in accordance with its then current rules and procedures.
21. **Sample Retention/Disposal:** Samples will be disposed of in accordance with ARMSTRONG'S Policies and Procedures Program. Any samples or materials submitted to ARMSTRONG, which have a detectable amount of "acutely" hazardous waste will remain the property and the responsibility of the CLIENT and as such will be returned to the CLIENT at the CLIENT'S expense.
22. **Documentation Retention:** All documents associated with a specific Case File will be maintained in accordance with ARMSTRONG'S Policies and Procedures Program. These procedures currently meet or exceed the applicable requirements of ARMSTRONG'S accrediting agencies.
23. **Termination of SERVICES:** The CLIENT or ARMSTRONG may request to terminate SERVICES at any time. In the event of Termination of SERVICES, CLIENT will be invoiced for all SERVICES initiated or completed up to the date of written notification of termination. Upon termination of SERVICES, and payment of all invoices related to those SERVICES, all work product accumulated during the course of ARMSTRONG'S work with the CLIENT will be available to the CLIENT for the period of time noted in ARMSTRONG'S Policies and Procedures Program.
24. **Choice of Law:** These General Terms and Conditions for SERVICES, as well as all SERVICES provided by ARMSTRONG, are performed in Texas and will be construed and interpreted in a manner consistent with the laws of Tarrant County and the State of Texas.

# Product Testing Services

CPSIA Compliance (HR4040)

Lead in Paint and Surface Coatings (16CFR1303, ASTM F963-07 4.3.5)

CPSC (ASTM F963.07)

California Proposition 65

Other Services

European Standard

Corporate Specifications

Hasbro

Mattel

# Product Testing Services

## Description of Service

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### Recommended Testing Evaluation and Cost Estimate

#### CPSIA Compliance (HR4040)

Lead in Children's Metal Products	CPSC CH E1001-08
Lead in Children's Non-Metal Products	CPSC CH E1002-08
Phthalates in Children's Products (6) <i>BBP, DEHP, DBP, DIDP, DINP, DNOP</i>	CPSC CH C1001-09

#### Lead in Paint and Surface Coatings (16CFR1303, ASTM F963-07 4.3.5)

Lead in Paint and Surface Coatings	CPSC CH E1003-09
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#### CPSC (ASTM F963.07)

Age Grading - Packaging and Labeling Evaluation	
Flammability	ASTM F963 4.2
Small Parts	ASTM F963 4.6
Sharp Edges	ASTM F963 4.7
Sharp Points	ASTM F963 4.8

#### Use and Abuse Processing Per Toy

##### Includes

Normal Use	ASTM F963 8.5
Impact Test	ASTM F963 8.7
Torque Test	ASTM F963 8.8
Tension	ASTM F963 8.9
Compression	ASTM F963 8.10
Flex Test	ASTM F963 8.12
Lead in Paint and Surface Coatings	CPSC CH E1003-09
Soluble Heavy Metals in Surface Coatings <i>Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium</i>	ASTM F963 4.3.5.2

#### California Proposition 65

Lead in Paint and Surface Coatings	CPSC CH E1003-09
Lead in Children's Metal Products	CPSC CH E1001-08
Lead in Children's Non-Metal Products	CPSC CH E1002-08
Lead in Children's Jewelry	EPA 3050, EPA 6010, EPA 7000
Phthalates in Children's Products (7) <i>BBP, DEHP, DBP, DIDP, DINP, DNOP, DNHP</i>	CPSC CH C1001-09

#### Other Services

General Certificate of Conformity (GCC)
Sample Breakdown for Testing

# Product Testing Services

## Description of Service

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### European Standard

Mechanical and Physical Properties	EN 71 Part 1
Flammability	EN 71 Part 2
Migration of Certain Elements	EN 71 Part 3

### Corporate Specifications

#### Hasbro

Heavy Metals in Surface Coatings <i>Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium</i>	SRS-012
Heavy Metals in Paper and Fabric <i>Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium</i>	SRS-047
Heavy Metals in Plastic, Metal and Wood <i>Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium</i>	SRS-044
Heavy Metals in Throw Away Packaging <i>Cadmium, Hexavalent Chromium, Lead and Mercury</i>	SRS-082
Phthalate Plasticizers (6) <i>BBP, DEHP, DBP, DIDP, DINP, DNOP</i>	SRS-046
Flammability	SRS-013

#### Mattel Testing

Soluble Heavy Metals <i>Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium</i>	QSOP 0006-3600
Phthalate (7) <i>BBP, DEHP, DBP, DIDP, DINP, DNOP, DNHP</i>	QSOP 0006-3610



# Industrial Hygiene Services

## Analytical Group Listing

Prices are outlined in the following groups:

Acids, Inorganic  
Aldehydes  
Amines, Aliphatic  
Amines, Aromatic  
Anions  
Cations  
Dust/Particulates  
Gases  
Indoor Air Quality Screens  
Isocyanates  
Metals - Individual  
Metals - Group  
Organics, Gas Chromatography  
Organics, Multi-Component  
Organics, Total Organics  
Pesticides, Phosphate  
Pesticides, Pyrethrin  
Polynuclear Aromatic Hydrocarbons (PAH's)  
Titration

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Test Code	Method	Dept	Media
<b>Acids, Inorganic</b>				
Fluoride	FLUORIDE,SOL-F/N7906	NIOSH 7906	LC/IC	225-9031
Fluoride	FLUORIDE,TOT-F/N7906	NIOSH 7906	LC/IC	225-9031
Volatile Acids	VOLACIDS-F/N7907	NIOSH 7907		225-9032
Non-Volatile Acids	NONVOLACIDS-F/N7908	NIOSH 7908	LC/IC	225-9033
<b>Aldehydes</b>				
Aldehydes List 1	ALD(I)-M/N2539	NIOSH 2539	FID	226-118
Aldehydes List 2	ALD(II)-M/ETO11	EPA TO-11	LC/IC	Sep-Pak
Aldehydes List 3	ALD(III)-M/ETO11	EPA TO-11	LC/IC	Sep-Pak
Aldehydes List 2	ALD(II)-WIPE/ETO11	EPA TO-11	LC/IC	Wipe
Aldehydes List 3	ALD(III)-WIPE/ETO11	EPA TO-11	LC/IC	Wipe
<b>Amines, Aliphatic</b>				
Aliphatic Amines	AMINES, ALI-M/N2010	NIOSH 2010	FID	226-10
<b>Amines, Aromatic</b>				
Aromatic Amines	AMINES, ARO-M/N2002	NIOSH 2002	FID	226-10
<b>Anions</b>				
Anions	ANIONS-WIPE/E300	EPA 300	LC/IC	Wipe
<b>Cations</b>				
Cations	CATIONS-WIPE/ASTM D6919	ASTM D6919	LC/IC	Wipe
<b>Dust/Particulates</b>				
Asbestos	ASBEST-B/OSS	EPA 600/M4-82-020	OSS	Solid
Asbestos	ASBEST-MULTI-B/OSS	EPA 600/M4-82-020	OSS	Solid
Asbestos	ASBESTFC-M/N7400	NIOSH 7400	OSS	CEF 25mm
Total Dust (Tared Filter)	PNOR-TT/N0500	NIOSH 0500	GRAV	Tared PVC
Total Dust (Mt. Wt. Filter)	PNOR-TMW/N0500	NIOSH 0500	GRAV	MWCEF 37mm
Respirable Dust (Tared Filter)	PNOR-RT/N0600	NIOSH 0600	GRAV	Tared PVC
Respirable Dust (Mt. Wt. Filter)	PNOR-RMW/N0600	NIOSH 0600	GRAV	MWCEF 37mm
Respirable Crystalline Silica	SILICA, RESP-F/N7500	NIOSH 7500	XRD	Tared PVC
Total Crystalline Silica	SILICA, TOTAL-F/N7500	NIOSH 7500	XRD	Tared PVC
Total Crystalline Silica	SILICA-BULK/N7500	NIOSH 7500	XRD	Solid
<b>Gases</b>				
Air Gases	AIR GASES/ASTM1946	ASTM D1946	OSS	Tedlar Bag
<b>Indoor Air Quality Screens</b>				
EPA TO-01 Volatile Compounds	TO-01	EPA TO-01	MS	Tenax Tube
EPA TO-01 Unknown ID	TO-01SQ	EPA TO-01	MS	Tenax Tube
EPA TO-15 Volatile Compounds	TO-15L2	EPA TO-15	MS	Summa Canister
EPA TO-15 Unknown ID	TO-15SQ	EPA TO-15	MS	Summa Canister
Clean and QC check Client Summa Can	CLEAN&QC-SUMMA	EPA TO-14	MS	Summa Canister
<b>Isocyanates</b>				
Isocyanates	ISOCY-M/O47	OSHA 47	LC/IC	Tr GFF
<b>Metals - Individual</b>				
Lead	LEAD-PAINT/E6010	EPA 6010C	METAL	Paint
Lead	LEAD-PAINT/E7000	EPA 7000	METAL	Paint
Metals (ICP)	MET-F/N7303	NIOSH 7303	METAL	CEF 37mm
Mercury Vapor	MERCURY-M/N6009	NIOSH 6009	METAL	226-17-1A
Mercury Vapor	MERCURY-M/O140	OSHA ID 140	METAL	226-17-1A
Mercury Particulate	MERCURY-M/OID145	OSHA ID 145	METAL	CEF 37mm
Mercury	MERCURY-WIPE/OID145	OSHA ID 145	METAL	Wipe
<b>Metals - Group</b>				
Welding Fumes	MET13SCR-F/N7303	NIOSH 7303	METAL	CEF 37mm
Expanded Welding Fumes	MET15SCR-F/N7303	NIOSH 7303	METAL	CEF 37mm

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Test Code	Method	Dept	Media
20 Metal Screen - Air	MET20SCR-F/N7303	NIOSH 7303	METAL	CEF 37mm
20 Metal Screen - Surface	MET20SCR-WIPE/N7303	NIOSH 7303	METAL	Wipe
<b>Organics, Gas Chromatography</b>				
BTEX by NIOSH 1501	BTEX-M/N1501	NIOSH 1501	FID	226-01
Alcohols List 1	ALCOHOL1-M/N1400	NIOSH 1400	FID	226-01
Alcohols List 2	ALCOHOL2-M/N1401	NIOSH 1401	FID	226-01
Alcohols List 3	ALCOHOL3-M/N1402	NIOSH 1401	FID	226-01
Alcohols List 4	ALCOHOL4-M/N1403	NIOSH 1403	FID	226-01
BTEX	BTEX-PD/3M	3M OVM/GC-FID	FID	3M 3500
BTEX/MTBE	BTEXM-PD/3M	3M OVM/GC-FID	FID	3M 3500
Dichlorobenzenes	DICHLBENZENES-M	NIOSH 1003	FID	226-01
Esters	ESTERS1-M/N1450	NIOSH 1450	FID	226-01
Aromatic Hydrocarbons	HYD,ARO-M/N1501	NIOSH 1501	FID	226-01
Halogenated Hydrocarbons	HYD,HALO-M/N1003	NIOSH 1003	FID	226-01
Hydrocarbons	HYD-M/N1500M	NIOSH 1500	FID	226-01
Hydrocarbons (CS2)	HYD-3M/CS2	3M OVM/GC-FID	FID	3M 3500
Hydrocarbons (MECL2)	HYD-3M/MECL2	3M OVM/GC-FID	FID	3M 3500
Ketones List 1	KETONE1-M/N1300	NIOSH 1300	FID	226-01
Ketones List 2	KETONE2-M/N1301	NIOSH 1301	FID	226-01
Organic Vapors	ORGANIC VAPORS-M/O7	OSHA 7	FID	226-01
<b>Organics, Multi-Component</b>				
Multicomponent Hydrocarbons	HYDMIX-M/N1550	NIOSH 1550	FID	226-01
Multicomponent Hydrocarbons	HYDMIX-3M/CS2	3M OVM/GC-FID	FID	3M 3500
<b>Organics, Total Organics</b>				
TVOC	TVOC-M/N1550M	NIOSH 1550	FID	226-01
TVOC	TVOC-TENAX/ETO1	EPA TO-1	MS	Tenax Tube
<b>Pesticides, Phosphate</b>				
Phosphate Pesticides List 1	PEST,PHOS-M-L1/N5600M	NIOSH 5600 Mod	MS	226-58
Phosphate Pesticides List 2	PEST,PHOS-M-L2/N5600M	NIOSH 5600 Mod	MS	226-58
<b>Pesticides, Pyrethrin</b>				
Pyrethrin Pesticides	PEST,PYR-M/O70M	OSHA 70	ECD	226-30-16
<b>Polynuclear Aromatic Hydrocarbons (PAH's)</b>				
PAH List 1 (HPLC)	PNA5-M/N5506	NIOSH 5506	LC/IC	226-30-04
PAH List 2 (HPLC)	PNA9-M/N5506	NIOSH 5506	LC/IC	226-30-04
PAH List 3 (HPLC)	PNA16-M/N5506	NIOSH 5506	LC/IC	226-30-04
PAH List 1 (MS)	PNA5-M/N5515	NIOSH 5515	MS	226-30-04
PAH List 2 (MS)	PNA9-M/N5515	NIOSH 5515	MS	226-30-04
PAH List 3 (MS)	PNA16-M/N5515	NIOSH 5515	MS	226-30-04
<b>Titration</b>				
Alkaline Dusts	ALKDUST-F/N7401	NIOSH 7401	WC	PTFE

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Method		
<b>20 Metal Screen - Air</b>	<b>NIOSH 7303</b>		
Aluminum		Antimony	Arsenic
Barium		Beryllium	Cadmium
Chromium		Cobalt	Copper
Iron		Lead	Manganese
Molybdenum		Nickel	Selenium
Silver		Thallium	Titanium
Vanadium		Zinc	
<b>20 Metal Screen - Surface</b>	<b>NIOSH 7303</b>		
Aluminum		Antimony	Arsenic
Barium		Beryllium	Cadmium
Chromium		Cobalt	Copper
Iron		Lead	Manganese
Molybdenum		Nickel	Selenium
Silver		Thallium	Titanium
Vanadium		Zinc	
<b>Alcohols List 1</b>	<b>NIOSH 1400</b>		
tert-Butyl alcohol		Ethyl alcohol	Isopropyl alcohol
<b>Alcohols List 2</b>	<b>NIOSH 1401</b>		
n-Butyl alcohol		sec-Butyl alcohol	Isobutyl alcohol
n-Propyl alcohol			
<b>Alcohols List 3</b>	<b>NIOSH 1401</b>		
Allyl alcohol		Cyclohexanol	Diacetone alcohol
Isoamyl alcohol		Methyl isobutyl carbinol	
<b>Alcohols List 4</b>	<b>NIOSH 1403</b>		
2-Butoxyethanol		2-Ethoxy ethanol	Methyl cellulose
<b>Aldehydes List 1</b>	<b>NIOSH 2539</b>		
Acetaldehyde		Butyraldehyde	Isobutyraldehyde
Isovaleraldehyde		Propionaldehyde	Valeraldehyde
<b>Aldehydes List 2</b>	<b>EPA TO-11</b>		
Acetaldehyde		Acrolein	Benzaldehyde
Formaldehyde		Glutaraldehyde	Isovaleraldehyde
Valeraldehyde			
<b>Aldehydes List 3</b>	<b>EPA TO-11</b>		
Acetaldehyde		Acrolein	Benzaldehyde
n-Butyraldehyde		Crotonaldehyde	2,5-Dimethylbenzaldehyde
Formaldehyde		Glutaraldehyde	Hexanaldehyde
Isovaleraldehyde		Propionaldehyde	m-Tolualdehyde
o-Tolualdehyde		p-Tolualdehyde	Valeraldehyde
<b>Anions</b>	<b>EPA 300</b>		
Bromide		Chloride	Nitrate
Nitrite		Phosphate	Sulfate
<b>Aromatic Amines</b>	<b>NIOSH 2002</b>		
Aniline		N,N-dimethylaniline	N,N-dimethyl-p-toluidine
o-Toluidine		2,4-Xylidine	
<b>Aromatic Hydrocarbons</b>	<b>NIOSH 1501</b>		
Benzene		p-tert Butyl toluene	Cumene
Ethylbenzene		alpha-Methyl styrene	Naphthalene
Styrene		Toluene	Vinyl toluene
o-Xylene		m&p-Xylene	Total Xylenes
<b>BTEX</b>	<b>3M OVM/GC</b>		
Benzene		Toluene	Ethylbenzene

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Method		
<b>Total Xylenes</b>			
<b>BTEX by NIOSH 1501</b>	<b>NIOSH 1501</b>		
Benzene		Toluene	Ethylbenzene
Total Xylenes			
<b>BTEX/MTBE</b>			
<b>BTEX/MTBE</b>	<b>3M OVM/GC</b>		
Benzene		Toluene	Ethylbenzene
Total Xylenes		Methyl tert-butyl ether	
<b>Cations</b>			
<b>Cations</b>	<b>ASTM D6919</b>		
Ammonium		Calcium	Lithium
Magnesium		Potassium	Sodium
<b>Dichlorobenzenes</b>			
<b>Dichlorobenzenes</b>	<b>NIOSH 1003</b>		
1,2-Dichlorobenzene		1,3-Dichlorobenzene	1,4-Dichlorobenzene
<b>Esters</b>			
<b>Esters</b>	<b>NIOSH 1450</b>		
n-Amyl acetate		sec-Amyl acetate	n-Butyl acetate
sec-Butyl acetate		tert-Butyl acetate	2-Ethoxyethyl acetate
Ethyl acrylate		Isoamyl acetate	Isobutyl acetate
Methyl isoamyl acetate		n-Propyl acetate	
<b>Expanded Welding Fumes</b>			
<b>Expanded Welding Fumes</b>	<b>NIOSH 7303</b>		
Aluminum		Antimony	Beryllium
Cadmium		Chromium	Cobalt
Copper		Iron	Lead
Manganese		Molybdenum	Nickel
Titanium		Vanadium	Zinc
<b>Fluoride</b>			
<b>Fluoride</b>	<b>NIOSH 7906</b>		
Fluoride, soluble particulate		Fluoride, Total particulate	Fluoride, vapor
<b>Halogenated Hydrocarbons</b>			
<b>Halogenated Hydrocarbons</b>	<b>NIOSH 1003</b>		
Benzyl chloride		Bromoform	Carbon tetrachloride
Chlorobenzene		Chlorobromomethane	Chloroform
1,2-Dichlorobenzene		1,4-Dichlorobenzene	1,1-Dichloroethane
Total 1,2-Dichloroethene		Ethylene dichloride	Hexachloroethane
Tetrachloroethene		1,1,1-Trichloroethane	1,1,2-Trichloroethane
Trichloroethene		1,2,3-Trichloropropane	
<b>Hydrocarbons</b>			
<b>Hydrocarbons</b>	<b>NIOSH 1500</b>		
Benzene		Cyclohexane	Cyclohexene
n-Heptane		n-Hexane	Hexene
Methylcyclohexane		n-Octane	n-Pentane
Toluene			
<b>Hydrocarbons (CS2)</b>			
<b>Hydrocarbons (CS2)</b>	<b>3M OVM/GC</b>		
Acetone		Allyl chloride	n-Amyl acetate
Benzene		Benzyl chloride	Bromoform
1-Bromopropane		n-Butyl acetate	s-Butyl acetate
tert-Butyl acetate		Butyl acrylate	t-Butyl alcohol
Butyl cellosolve acetate		Butyl glycidyl ether	p-tert-Butyltoluene
Camphor		Carbon tetrachloride	Cellosolve acetate
Chlorobenzene		Chlorobromomethane	Chloroform
o-Chlorostyrene		o-Chlorotoluene	Cumene
Cyclohexane		Cyclohexanone	Cyclohexene
Cyclopentane		n-Decane	o-Dichlorobenzene
p-Dichlorobenzene		1,1-Dichloroethane	1,2-Dichloroethene
Dichloroethyl ether		Dicyclopentadiene	Diethyl ketone
Diisobutyl ketone		p-Dioxane	Dipropylene glycol methyl ether
Dipropyl ketone		Divinyl benzene	n-Dodecane
Epichlorohydrin		Ethyl acetate	Ethyl acrylate

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Method	
Ethylbenzene	Ethyl bromide	Ethyl butyl ketone
Ethylene dibromide	Ethylene dichloride	Ethyl ether
Ethyl formate	n-Heptane	Hexachlorethane
n-Hexane	Hexane isomers	1-Hexene
Isoamyl acetate	Isobutyl acetate	Isoflurane
Isooctal alcohol	Isopar G	Isophorone
Isopropoxyethanol	Isopropyl acetate	Isopropyl ether
Isopropyl glycidyl ether	Mesitylene	Mesityl oxide
Methyl acetate	Methyl acrylate	Methylal
Methyl amyl ketone	Methyl tert-butyl ether	Methyl butyl ketone
Methyl cellosolve acetate	Methyl cyclohexane	Methyl cyclohexanol
Methylene chloride	Methyl ethyl ketone	5-Methyl-3-heptanone
Methyl isoamyl ketone	Methyl isobutyl carbinol	Methyl isobutyl ketone
Methyl isopropyl ketone	Methyl methacrylate	Methyl propyl ketone
alpha-Methyl styrene	Naphthalene	n-Nonane
n-Octane	n-Pentane	2,4-Pentanedione
Perchloroethylene	Phenyl ether	Phenyl glycidyl ether
n-Propyl acetate	Propylene dichloride	Propylene glycol methyl ether acetate
Propylene oxide	n-Propyl nitrate	Styrene
1,1,2,2-Tetrachloroethane	Tetrahydrofuran	Toluene
1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichlorethylene
1,2,3-Trichloropropane	1,1,2-Trichloro-1,2,2-trifluoroethane	Vinyl acetate
Vinyl chloride	4-Vinyl-1-cyclohexene	Vinylidene chloride
Vinyl toluene	o-Xylene	m&p-Xylene
Total Xylenes		
<b>Hydrocarbons (MECL2)</b>	<b>3M OVM/GC</b>	
Allyl alcohol	n-Amyl alcohol	s-Amyl alcohol
1,3 Butadiene	n-Butyl alcohol	s-Butyl Alcohol
Butyl cellosolve	Cellosolve	Cyclohexanol
Diacetone alcohol	Dimethylacetamide	Dimethyl formamide
Ethylene chlorohydrin	Furfural	Furfuryl alcohol
Isoamyl alcohol	Isobutyl alcohol	Methyl cellosolve
Methyl formate	1-Methyl-2-pyrrolidinone	n-Propyl alcohol
Propylene glycol monomethyl ether		
<b>Isocyanates</b>	<b>OSHA 47</b>	
1,6-Hexamethylene diisocyanate	Isophorone diisocyanate	4,4'-Methylene biscyclohexyl isocyanate
4,4'-Methylene bisphenyl isocyanate	2,4-Toluene diisocyanate	2,6-Toluene diisocyanate
<b>Ketones List 1</b>	<b>NIOSH 1300</b>	
Acetone	Cyclohexanone	Diisobutyl ketone
2-Hexanone	Methyl isobutyl ketone	2-Pentanone
<b>Ketones List 2</b>	<b>NIOSH 1301</b>	
Ethyl butyl ketone	Methyl n-amyl ketone	5-Methyl-3-heptanone
<b>Metals (ICP)</b>	<b>NIOSH 7303</b>	
Aluminum	Antimony	Arsenic
Barium	Bismuth	Beryllium
Boron	Cadmium	Calcium
Chromium	Cobalt	Indium
Copper	Gallium	Iron
Lead	Lithium	Magnesium
Manganese	Molybdenum	Nickel
Phosphorous	Potassium	Rhodium
Selenium	Silicon	Silver
Sodium	Strontium	Thallium
Tin	Titanium	Vanadium
Zinc	Zirconium	

# Industrial Hygiene Services, Analytical Group Listing

Test Name	Method		
<b>Multicomponent Hydrocarbo</b>	<b>NIOSH 1550</b>		
Coal tar naphtha (C8-C10)		Coal tar naphtha (C8-C10)	Kerosene
Kerosene (C9-C16)		Mineral spirits (C9-C12)	Mineral spirits (C9-C12)
Naphtha (C6-C11)		Naphtha (C6-C11)	Petroleum distillates (C6-C8)
Petroleum Naphtha (C6-C8)		Petroleum ether (C5-C6)	Stoddard Solvent (C9-C12)
Petroleum naphtha (C6-C8)		TPH DRO (>C12-C20)	Rubber solvent (C5-C8)
TPH GRO (C5-C12)		Stoddard solvent (C9-C12)	VM&P Naphtha (C7-C11)
TPH GRO (C6-C12)		TPH DRO (C12-C20)	TVOC (C5-<C15)
VM&P Naphtha (C7-C11)			
<b>Organic Vapors</b>	<b>OSHA 7</b>		
Benzyl chloride		n-Butyl alcohol	2-Butoxyethanol
Carbon tetrachloride		Cumene	Cyclohexane
Cyclohexanol		Cyclohexene	1,1-Dichloroethane
Difluorodibromomethane		Diisobutyl ketone	Hexachloroethane
2-Hexanone		Isoamyl acetate	Isobutyl acetate
Isobutyl alcohol		Isopropyl alcohol	Methyl acetate
alpha-Methyl styrene		n-Octane	2-Pentanone
Trichloroethene			
<b>PAH List 1 (HPLC)</b>	<b>NIOSH 5506</b>		
Anthracene		Benzo(a)pyrene	Chrysene
Phenanthrene		Pyrene	
<b>PAH List 1 (MS)</b>	<b>NIOSH 5515</b>		
Anthracene		Benzo(a)pyrene	Chrysene
Phenanthrene		Pyrene	
<b>PAH List 2 (HPLC)</b>	<b>NIOSH 5506</b>		
Anthracene		Benzo(a)anthracene	Benzo(a)pyrene
Chrysene		Fluoranthene	Fluorene
Naphthalene		Phenanthrene	Pyrene
<b>PAH List 2 (MS)</b>	<b>NIOSH 5515</b>		
Anthracene		Benzo(a)anthracene	Benzo(a)pyrene
Chrysene		Fluoranthene	Fluorene
Naphthalene		Phenanthrene	Pyrene
<b>PAH List 3 (HPLC)</b>	<b>NIOSH 5506</b>		
Acenaphthene		Acenaphthylene	Anthracene
Benzo(a)anthracene		Benzo(a)pyrene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene		Benzo(k)fluoranthene	Chrysene
Dibenz(a,h)anthracene		Fluoranthene	Fluorene
Indeno(1,2,3-cd)pyrene		Naphthalene	Phenanthrene
Pyrene			
<b>PAH List 3 (MS)</b>	<b>NIOSH 5515</b>		
Acenaphthene		Acenaphthylene	Anthracene
Benzo(a)anthracene		Benzo(a)pyrene	Benzo(b)fluoranthene
Benzo(g,h,i)perylene		Benzo(k)fluoranthene	Chrysene
Dibenz(a,h)anthracene		Fluoranthene	Fluorene
Indeno(1,2,3-cd)pyrene		Naphthalene	Phenanthrene
Pyrene			
<b>Phosphate Pesticides List 1</b>	<b>NIOSH 5600</b>		
Methyl azinphos		Chlorpyrifos	Diazinon
Disulfoton		Malathion	Methyl parathion
Ethyl parathion			
<b>Phosphate Pesticides List 2</b>	<b>NIOSH 5600</b>		
Methyl azinphos		Chlorpyrifos	Diazinon
Dichlorvos		Disulfoton	Ethoprop

## *Industrial Hygiene Services, Analytical Group Listing*

Test Name	Method		
Malathion		Mevinphos	Methyl parathion
Ethyl parathion		Tetraethyl pyrophosphate	Tetrachlorvinphos
<b>Pyrethrin Pesticides</b>	<b>OSHA 70</b>		
Cypermethrin I		Cypermethrin II	Deltamethrin I
Lambda cyhalothrin I		Permethrin, cis	Permethrin, trans
Phenothrin I		Pyrethrin I	Pyrethrin II
Tralomethrin			
<b>Respirable Crystalline Silica</b>	<b>NIOSH 7500</b>		
Quartz, Respirable		% Quartz, Respirable	Cristobalite, Respirable
%Cristobalite, Respirable		Silica, Respirable	% Silica, Respirable
<b>Total Crystalline Silica</b>	<b>NIOSH 7500</b>		
Quartz, Total		% Quartz, Total	Cristobalite, Total
% Cristobalite, Total		Silica, Total	% Silica, Total
Silver Membrane			
<b>Welding Fumes</b>	<b>NIOSH 7303</b>		
Antimony		Beryllium	Cadmium
Chromium		Cobalt	Copper
Iron		Lead	Manganese
Molybdenum		Nickel	Vanadium
Zinc			



# **Industrial Hygiene Services Individual Analyte List**

Analytes are outlined in alphabetical order.

# Alphabetical List of Analytes

Test Name	Test Code	Method	Dept	Media
<b>A</b>				
Acetic Acid	ACETIC ACID-M/N1603	NIOSH 1603	OSS	226-01
Acetone	ACETONE-3M	3M OVM/GC-FID	FID	3M 3500
Acetonitrile	ACETONITRILE-M/N1606	NIOSH 1606	FID	226-09
Acrylonitrile	ACRYLONITRILE-M/N1604	NIOSH 1604	FID	226-01
Allyl chloride	ALLYLCHLORIDE-M/N1000	NIOSH 1000	FID	226-01
Aluminum, Respirable	ALUMINUM,R-F/1	NIOSH 7300	METAL	MWCEF 37mm
Ammonia	AMMONIA-M/N6016	NIOSH 6016	LC/IC	226-10-06
Ammonia	AMMONIA-M/OID188	OSHA ID 188	LC/IC	226-29
Aniline	ANALINE-M	NIOSH 2002	FID	226-10
<b>B</b>				
Benzene	BENZENE-PD/3M	3M OVM/GC-FID	FID	3M 3500
Benzene	BENZENE-M/O12	OSHA 12	FID	226-01
Benzene soluble fraction	BENSOLFRACTION-M/N5042	NIOSH 5042	WC	PTFE
Bromotrifluoromethane	BROTRIFLUMETHANE-M/N1017	NIOSH 1017	FID	226-09
1,3-Butadiene	13BUTA-M/N1024	NIOSH 1024	FID	226-37
2-Butanone	MEK-M/N2500	NIOSH 2500	FID	226-81
2-Butanone	MEK-M/O84	OSHA 84	FID	226-121
2-Butoxy ethyl acetate	2BUTOXETHYLACETATE-M	OSHA 83	FID	226-01
Butyl alcohol	BUTYL ALCOHOL-3M	3M OVM	FID	3M 3500
Butylamine	BUTYLAMINE-M/N2012	NIOSH 2012	FID	226-53
Butyl cellosolve acetate	BUTCELACETATE-M/N1450MOD	NIOSH 1450	FID	226-01
Butyl glycidyl ether	BUTGLYETHER-M/N1616	NIOSH 1616	FID	226-01
<b>C</b>				
Calcium	CALCIUM-M/N7020	NIOSH 7020	METAL	CEF 37mm
Camphor	CAMPHOR-M/N1301	NIOSH 1301	FID	226-01
Camphor	CAMPHOR-M/O7	OSHA 7	FID	226-01
Carbon disulfide	CARBONDISULF-M/N1600	NIOSH 1600	FID	226-01
Cellusolve (2-Ethoxyethanol)	CELLUSOLVE-M/O79	OSHA 79	FID	226-01
Chlordane	CHLORDANE-M/O67	OSHA 67	ECD	226-30-16
Chloroacetaldehyde	CHLACEALDEHYDE-M/N2015	NIOSH 2015	ECD	226-15
Chloroacetic acid	CHLACEACID-M/N2008	NIOSH 2008	LC/IC	226-47-01
Chlorobenzene	CHLBENZ-M/O7	OSHA 7	FID	226-01
2-Chloroethanol	2CHLETHANOL-M/N2513	NIOSH 2513	FID	226-81
Chlorofluoromethane	CHLFLUMETHAN-M/N1018	NIOSH 1018	FID	226-01
2-Chlorophenol	2CHLOROPHENOL-M/N2014	NIOSH 2014	LC/IC	226-10
Chloroprene	CHLOROPRENE-M/N1002	NIOSH 1002	FID	226-01
Chromium, Hexavalent (Painting Process)	HEXCHR/PAINT-M/OID215	OSHA ID 215	LC/IC	Tared PVC
Chromium, Hexavalent (Welding or Plating Process)	HEXCHR/W-P-M/OID215	OSHA ID 215	LC/IC	Tared PVC
Coal Tar Pitch Volatiles	CTPV-M/O58	OSHA 58	GRAV	GFF 37mm
Chromium, Hexavalent	HEXCHR-M/N7600	NIOSH 7600	WC	Tared PVC
Cresols	CRESOL-M/O32	OSHA 32	LC/IC	226-95
Cresols	CRESOL-M/N2546	NIOSH 2546	FID	226-95
Cyclohexane	CYCLOHEXANE-M	NIOSH 1500	FID	226-01
Cyclohexylamine	CYCHEXAMINE-M/OPV2016	OSHA PV2016	FID	Silica Gel Tube
1,3-Cyclopentadiene	13CYCLOPENTADIENE-M/N2523	NIOSH 2523	FID	Special
<b>D</b>				
Diazinon	DIAZINON-M	NIOSH 5515	MS	OVS
Diazinon	DIAZINON-WIPE	NIOSH 5515	MS	Wipe
Dibutyl phthalate	DIBUTYPHTHALATE-M/N5020	NIOSH 5020	FID	CEF 37mm
Dichlorodifluoromethane	DICHLDIFLUMETHANE-M/N1018	NIOSH 1018	FID	226-01
Dichlorodifluoromethane	DICHLDIFLUMETHANE-M/O7	OSHA 7	FID	226-01
1,1-Dichloro-1-fluoroethane	11DICHL1FLUETHANE-M	OSHA CSI	FID	226-01

## Alphabetical List of Analytes

Test Name	Test Code	Method	Dept	Media
Dichlorofluoromethane	DICHLFLUMETHANE-M/N2516	NIOSH 2516	FID	226-25
1,1-Dichloro-1-nitroethane	11DICHL1NITETHANE-M/N1601	NIOSH 1601	FID	226-81
1,1-Dichloro-1-nitroethane	11DICHL1NITETHANE-M/O7	OSHA 7	FID	226-01
1,2-Dichloropropane	12DICHLPROPANE-M/N1013	NIOSH 1013	ECD	226-81
1,2-Dichlorotetrafluoro-ethane	12DICHLTETFLUETHANE-M/N1018	NIOSH 1018	FID	226-01
Diethylene glycol mono butyl ether	DIETHGLYMONBUTETHER-M/OPV2095	OSHA PV2095	FID	226-01
Diethyl ether	DIETHETHER-M	NIOSH 1610	FID	226-01
Di-(2-ethylhexyl) phthalate	DI2ETHHXPHTHALATE-M/N5020	NIOSH 5020	FID	CEF 37mm
Difluorodibromomethane	DIFLUDIBROMETHANE-M/N1012	NIOSH 1012	FID	226-01
Dimethylacetamide	DIMETACETAMIDE-M/N2004	NIOSH 2004	FID	226-10
Dimethylaniline	DIMETHANALIN-M/N2002	NIOSH 2002	FID	226-10
Dimethylaniline	DIMETHANALIN-M/O7	OSHA 7	FID	226-01
Dimethylformamide	DIMETFORMAMIDE-M/N2004	NIOSH 2004	FID	226-10
Dimethylphthalate	DIMETHPHTHALATE-M	OSHA 104	FID	OVS
Dioxane	DIOXANE-M/N1602	NIOSH 1602	FID	226-01
Diphenyl	DIPHENYL-M/N2530	NIOSH 2530	FID	226-35-01
<b>E</b>				
Elemental carbon	ELECARBON-F/N5040	NIOSH 5040	OSS	QFF 37mm
Endrin	ENDRIN-M/N5519	NIOSH 5519	ECD	Filter
Epichlorohydrin	EPICHLOROHYDRIN-M/N1010	NIOSH 1010	FID	226-01
1,2-Epoxypropane	12EPOXYPROPANE-M/N1612	NIOSH 1612	FID	226-01
Ethanol	ETHANOL-3M	3M OVM	FID	3M 3500
Ethanol amine	ETHANOLAMINE-M/N2007	NIOSH 2007	FID	226-10-04
Ethyl acetate	ETHACETATE-M/N1457	NIOSH 1457	FID	226-01
Ethyl bromide	ETHBROMIDE-M/N1011	NIOSH 1011	FID	226-01
Ethyl chloride	ETHCHLORIDE-M/N2519	NIOSH 2519	FID	226-25
Ethylene chlorohydrin	ETHCHLHYDRIN-M/N2513	NIOSH 2513	FID	226-81
Ethylene dibromide	ETHDIBROMIDE-M/N1008	NIOSH 1008	ECD	226-01
Ethylene dichloride	ETHDIC-M/N1003	NIOSH 1003	FID	226-01
Ethylene glycol	ETHGLY-M	NIOSH 5523	FID	226-57
Ethylene glycol monobutyl ether	ETHGLYMONBUTETHER-M/N1403	NIOSH 1003	FID	226-01
Ethylene oxide	ETHOXIDE-3M3551	3MOVV	FID	3M 3551
Ethylene oxide	ETHOXIDE-M/N1614	NIOSH 1614	ECD	226-38-03
Ethyl ether	ETHETHER-M/N1610	NIOSH 1610	FID	226-01
Ethyl formate	ETHFORMATE-M/N1452	NIOSH 1452	FID	226-01
<b>F</b>				
Fiber Count	FIBCOUNT-M	NIOSH 7400	MIC	CEF 25mm
Fiberglass	FIBERGLASS-M/N7400	NIOSH 7400	MIC	CEF 25mm
Fluorotrichloromethane	FLUTRICHLMETHANE-M/N1006	NIOSH 1006	FID	226-09
Formaldehyde	FORM-M/N2541	NIOSH 2541	FID	226-118
Formaldehyde	FORM-UMEX100/O1007	OSHA 1007	LC/IC	500-100
Formaldehyde	FORM-SEP PAK/ETO11	EPA TO-11	LC/IC	Sep-Pak
Furfural	FURFURAL-M/N2539	NIOSH 2539	FID	226-118
Furfuryl alcohol	FURFURYL ALCOHOL-M/N2505	NIOSH 2505	FID	226-115
<b>G</b>				
Glutaraldehyde	GLUT-SEP PAK/ETO11	EPA TO-11	LC/IC	Sep-Pak
Glycidol	GLYCIDOL-M/N1608	NIOSH 1608	FID	226-01
<b>H</b>				
2-Heptanone	2HEPTANONE-M/N1300	NIOSH 1300	FID	226-01
Hydrogen fluoride	HYDFLUORIDE-M/N7906	NIOSH 7906	LC/IC	Tr CEF
Hydrogen sulfide	HYDSUL-M/N6013	NIOSH 6013	LC/IC	Orbo 34
Hydrogen sulfide	HYDSUL-M/O1008	OSHA 1008	LC/IC	Silica Gel Tube coa
Hydroquinone	HYDROQUINONE-M/N5004	NIOSH 5004	LC/IC	CEF 37mm

# Alphabetical List of Analytes

Test Name	Test Code	Method	Dept	Media
<b>I</b>				
Iron II oxide an/as Iron	IROOXI-F/I	NIOSH 7300	METAL	CEF 37mm
Isophorone	ISOPHORONE-M/N2508	NIOSH 2508	FID	226-81
Isopropyl acetate	ISOPROPYL ACETATE-M/N1454	NIOSH 1454	FID	226-01
Isopropyl alcohol	IPA-3M	3M OVM	FID	3M 3520
Isopropyl ether	ISOPROPYL ETHER-M/N1618	NIOSH 1618	FID	226-01
<b>L</b>				
Lead	LEAD-F/N7082	NIOSH 7082	METAL	CEF 37mm
Lead	LEAD-F/OID121	OSHA ID 121	METAL	CEF 37mm
Lead	LEAD-WIPE/OID121	OSHA ID 121	METAL	Wipe
<b>M</b>				
Mesityl oxide	MESOXIDE-M/N1301	NIOSH 1301	FID	226-01
Methanol	METHANOL-M/N2000	NIOSH 2000	FID	226-51
2-Methoxyethyl acetate	2METETHACETATE-M/N1451	NIOSH 1451	FID	226-01
Methyl acetate	METACETATE-M/N1458	NIOSH 1458	FID	226-01
Methyl acrylate	METACRYLATE-M/N1459	NIOSH 1459	FID	226-01
Methylal	METHYLAL-M/N1611	NIOSH 1611	FID	226-01
Methyl bromide	METBROMIDE-M/N2520	NIOSH 2520	FID	226-30-02
Methyl cellosolve acetate	METCELACETATE-M/N1451	NIOSH 1451	FID	226-01
Methyl chloride	METHYLCHLORIDE-M/N1001	NIOSH 1001	FID	226-01
Methyl cyanoacrylate	METCYAACRYLATE-M/OSHA55	OSHA 55	LC/IC	226-98
Methylcyclohexanol	METCYCHEXANOL-M/N1404	NIOSH 1404	FID	226-01
Methylcyclohexanone	METCYCHEXANONE-M/N2521	NIOSH 2521	FID	226-115
Methylene chloride	METCHL-3M	3M OVM	FID	3M 3520
Methylene chloride	METCHL-M/N1005	NIOSH 1005	FID	226-01
4,4'-Methylenedianiline	44METDIANILINE-M/N5029	NIOSH 5029	LC/IC	Tr GFF
Methyl ethyl ketone	MEK-PD/3M	3M OVM	FID	3M 3500
Methyl ethyl ketone peroxide	METETHKETPER-M/N3508	NIOSH 3508	WC	Imp Solution
Methyl ethyl ketone peroxide	METETHKETPER-M/O77	OSHA 77	OSS	226-93
Methyl iodide	METHYL IODIDE-M/N1014	NIOSH 1014	FID	226-01
Methyl methacrylate	METHMETHACRYLATE-3M	3M OVM	FID	3M 3500
Methyl methacrylate	METHMETHACRYLATE-M	NIOSH 2537	FID	226-30-06
Methyl propyl ketone	METPROKETONE-M/N1300	NIOSH 1300	FID	226-01
Methyl tert-butyl ether	MTBE-3M	3M OVM	FID	3M 3500
Methyl tert-butyl ether	MTBE-M/N1615	NIOSH 1615	FID	226-01
Mineral spirits	MINERAL SPIRITS-M/O48	OSHA 48	FID	226-01
Monomethylaniline	MONMETANILINE-M/N3511	NIOSH 3511	FID	Imp Solution
<b>N</b>				
Nicotine	NICOTINE-M/N2551	NIOSH 2551	MS	226-93
Nitric oxide	NITOXI-M/OID182	OSHA ID 182	LC/IC	226-40 back
Nitric oxide/Nitrogen dioxide	NITOXI/NITDIO-M/OID182	OSHA ID 182	LC/IC	226-40 Set
Nitroethane	NITETHANE-M	NIOSH 2526	FID	226-3002A
Nitrogen dioxide	NITDIO-M/OID182	OSHA ID 182	LC/IC	226-40 front
Nitromethane	NITMETHANE-M/N2527	NIOSH 2527	FID	226-111A
1-Nitropyrene	NITROPYRENE-M/N5506	NIOSH 5506	LC/IC	226-30-04
1-Nitropyrene	NITROPYRENE-M/N5515	NIOSH 5515	MS	226-30-04
Nitrous acid	NITROUS ACID-M/N7903	NIOSH 7903	LC/IC	Silica Gel Tube
<b>O</b>				
Oil mist	OIL MIST-M/N5026	NIOSH 5026	FTIR	CEF 37mm
Ozone	OZONE-M/OID214	OSHA ID 214	LC/IC	Tr Filter
<b>P</b>				
Particle Sizing & Count	PARSIZ/CNT-F	No Method	MIC	CEF 25mm
Phenol	PHENOL-M/N2546	NIOSH 2546	FID	226-95
Phenol	PHENOL-M/O32	OSHA 32	LC/IC	226-95
Phosphine	PHOSPHINE-M/OID180	OSHA ID 180	LC/IC	226-80
Phosphoric acid	PHOSPHORIC ACID-M/OID111	OSHA ID 111	LC/IC	CEF 37mm

## Alphabetical List of Analytes

Test Name	Test Code	Method	Dept	Media
Polychlorinated biphenyls	PCB-M/N5503	NIOSH 5503	ECD	GFF&Florisil
Potassium hydroxide an/as Potassium	POTHYD-F/F	OSHA ID 121	METAL	Filter
Pyrethrum	PYRETHRUM-M/O70	OSHA 70	ECD	OVS
Pyridine	PYRIDINE-M/N1613	NIOSH 1613	FID	226-01
<b>S</b>				
Sodium hydroxide	SODHYD-F/OID121	OSHA ID 121	METAL	Filter
Strontium chromate An/ as Strontium and Chromium	STRCHR-F/I	NIOSH 7300	METAL	CEF 37mm
Strychnine	STRYCHNINE-M/N5016	NIOSH 5016	LC/IC	Filter
Styrene	STYRENE-M/O9	OSHA 9	FID	226-01
Sulfur dioxide	SULDIO-M/OID200	OSHA ID 200	LC/IC	226-80
<b>T</b>				
	TUNGSTEN-M/N7303		METAL	CEF 37mm
Terpenes	TERPENES-M/N1552	NIOSH 1552	FID	226-01
Tetraethyl pyrophosphate	TETETHPYRPHOSPHATE-M/N2504	NIOSH 2504	FID	226-105
Tetrahydrofuran	TETHYDFURAN-M/N1609	NIOSH 1609	FID	226-01
Toluene	TOLUENE-3M	3M OVM/GC-FID	FID	3M 3500
Toluene	TOLUENE-OVM/O111	OSHA 111	FID	226-81
Total suspended particulates	PM10-8X10"	40 CFR Part 50 App B	GRAV	GFF Tared 8x10
Total suspended particulates	TSP-8X10"	40 CFR Part 50 App B	GRAV	GFF Tared 8x10
Toxaphene	TOXAPHENE-M/N5039	NIOSH 5039	ECD	CEF 37mm
Trichloroethene	TRICHLETHENE-M/N1022	NIOSH 1022	FID	226-01
Trimethylbenzene	TRIMETBEN-M/OPV2091	OSHA PV2091	FID	226-01
Turpentine	TURPENTINE-M/N1551	NIOSH 1551	FID	226-01
Total Volatile Organic Compounds	TVOC(C15)-PD/3M	3M OVM	FID	3M 3500
<b>V</b>				
Vinyl bromide	VINBROMIDE-M/N1009	NIOSH 1009	FID	226-09
Vinyl chloride	VINCHLORIDE-M/N1007	NIOSH 1007	FID	226-01
Vinyl chloride	VINCHLORIDE-M/O75	OSHA 75	FID	226-121
Vinylidene chloride	VINYLDIENE CHLORIDE-M/N1015	NIOSH 1015	FID	226-01
<b>W</b>				
Warfarin	WARFARIN-M/N5002	NIOSH 5002	LC/IC	PTFE

# Microbial Services

Prices are outlined in the following groups:

Air

Bulk

Surface

Coliforms

Liquid

## *Microbial Services*

<b>Test Name</b>	<b>Test Code</b>	<b>Method</b>	<b>Dept</b>	<b>Media</b>
<b><i>Air</i></b>				
Bioaerosols	BIOAEROSOLS	AFL-SOP 3.01.101	BIO	Air-O-Cell
Cellulose Plate Total Count and ID @ RT	CELL @RT-P C/C	AFL-SOP 3.01.102	BIO	Cellulose Plate
MEA Plate Total Count and ID @ RT	MEA @RT-P (C/C)	AFL-SOP 3.01.111	BIO	MEA Plate
MEA Plate Colony Count and ID @ ET	MEA @ET-P (C/C)	AFL-SOP 3.01.111	BIO	MEA Plate
PDA Plate Total Count and ID @ RT	PDA @RT-P (C/C)	AFL-SOP 3.01.111	BIO	PDA Plate
TSA Plate Colony Count and ID @ RT	TSA @RT-P C/C	AFL-SOP 3.01.107 Rev. 2	BIO	Cellulose Plate
TSA Plate Colony Count and ID @ ET	TSA @ET-P C/C	AFL-SOP 3.01.107 Rev. 2	BIO	TSA Plate
<b><i>Bulk</i></b>				
Microscopical Exam and Fungi ID	MICROMOLD-BULK	AFL-SOP 3.01.103	BIO	Bulk
Cellulose Plate Total Count and ID @ RT	CELL @RT-B C/C	AFL-SOP 3.02.008	BIO	Bulk
MEA Plate Total Count and ID @ RT	MEA @RT-B (C/C)	AFL-SOP 3.02.008	BIO	Bulk
MEA Plate Total Count and ID @ ET	MEA @ET-B (C/C)	AFL-SOP 3.02.008	BIO	Bulk
PDA Plate Total Count and ID @ RT	PDA @RT-B (C/C)	AFL-SOP 3.02.008	BIO	Bulk
TSA Plate Colony Count and ID @ RT	TSA @RT-B C/C	AFL-SOP 3.02.008	BIO	Bulk
TSA Plate Colony Count and ID @ ET	TSA @ET-B C/C	AFL-SOP 3.01.107 Rev. 2	BIO	Bulk
<b><i>Surface</i></b>				
Microscopical Exam and Fungi ID	MICROMOLD-TAPE	AFL-SOP 3.01.103	BIO	Tape Transfer
Cellulose Plate Total Count and ID @ RT	CELL @RT-SB C/C	AFL-SOP 3.02.009	BIO	Swab
MEA Plate Total Count and ID @ RT	MEA @RT-SB (C/C)	AFL-SOP 3.02.009	BIO	Swab
MEA Plate Total Count and ID @ ET	MEA @ET-SB (C/C)	AFL-SOP 3.02.009	BIO	Swab
PDA Plate Total Count and ID @ RT	PDA @RT-SB (C/C)	AFL-SOP 3.02.009	BIO	Swab
TSA Plate Colony Count and ID @ RT	TSA @RT-SB C/C	AFL-SOP 3.02.009	BIO	Swab
TSA Plate Colony Count and ID @ ET	TSA @ET-SB C/C	AFL-SOP 3.02.009	BIO	Swab
<b><i>Coliforms</i></b>				
Fecal coliforms	COL,FECAL-W/ APHA9222D	APHA 9222D	BIO	Varies
Total coliforms	COL,TOTAL-W/ APHA9222B	APHA 9222B	BIO	Varies
<b><i>Liquid</i></b>				
Heterotrophic Plate Count	HETPLTCNT	APHA 9215 20th Edition	BIO	Liquid

**Notes:** (1) Minimum TAT for cultured samples is 9 calendar days. Certain genera and/or species may require extended growth periods. Please contact the laboratory for specific needs. Room and Elevated incubation temperatures available.

(2) Standard microbiological agar medias are utilized by the laboratory including malt extract agar (MEA); Cellulose (CEL), Potato Dextrose (PDA); Tryptone soy (TSA); and Blood Agar. Contact the laboratory for the appropriate media for your specific needs.

# Environmental Services Analytical Group Listing

Prices are outlined in the following groups:

Anions  
Cations  
Closed Loop Stripping  
Coliforms  
Extractions  
Inorganics - General  
Metals - Group  
Metals - Individual  
Organics - General  
Organics - Screens



## Environmental Services, Analytical Group Listing

Test Name	Test Code	Method	Dept	Media
<b>Anions</b>				
Anions	ANIONS-S/E300	EPA 300	LC/IC	Solid
Anions	ANIONS-W/E300	EPA 300	LC/IC	Liquid
Anions	ANIONS-WIPE/E300	EPA 300	LC/IC	Wipe
Nitrogen analyzed as Nitrate & Nitrite by EPA 300	NITROGEN-W/E300	EPA 300	LC/IC	Liquid
Sulfate	SULFATE-S/E300	EPA 300	LC/IC	Solid
Sulfate	SULFATE-S/E9038	EPA 9038	WC	Solid
Sulfate	SULFATE-S/TXDOT145E	TXDOT 145E	WC	Solid
<b>Cations</b>				
Cations	CATIONS-S/ASTM D6919	ASTM D6919	LC/IC	Solid
Cations	CATIONS-W/ASTM D6919	ASTM D6919	LC/IC	Liquid
Cations	CATIONS-WIPE/ASTM D6919	ASTM D6919	LC/IC	Wipe
<b>Closed Loop Stripping</b>				
Geosmin	GEOSMIN-W/APHA 6040B	APHA 6040B	MS	Liquid
<b>Coliforms</b>				
Fecal coliforms	COL,FECAL-W/APHA9222D	APHA 9222D	BIO	Varies
Total coliforms	COL,TOTAL-W/APHA9222B	APHA 9222B	BIO	Varies
<b>Extractions</b>				
Non Volatile SPLP Extraction for Metals	SPLP-NV-MET	EPA 1312	METAL	Solid
Non Volatile TCLP Extraction for ECD	TCLP-NV-ECD	EPA 1311	ECD	Solid
Non Volatile TCLP Extraction for Metals	TCLP-NV-MET	EPA 1311	METAL	Solid
Non Volatile TCLP Extraction for Mass Spec	TCLP-NV-MS	EPA 1311	MS	Solid
Volatile TCLP Extraction for Mass Spec	TCLP-V-MS	EPA 1311	MS	Solid
Volatile TCLP Extraction for PID	TCLP-V-PID	EPA 1311	PID	Solid
<b>Inorganics - General</b>				
Total acidity	ACIDITY-W/APHA2310	APHA 2310	WC	Liquid
Alkalinity	ALKALINITY-W/APHA2320B	APHA 2320B	WC	Liquid
Ammonia	AMMONIA-W/E350.2	EPA 350.1	WC	Liquid
Biochemical Oxygen Demand	BOD-W/APHA5210B	APHA 5210B	WC	Liquid
Carbonaceous Biochemical Oxygen Demand	CBOD-W/APHA5210B	APHA 5210B	WC	Liquid
Residual chlorine	CHLRES-W	APHA 4500-Cl G	WC	Liquid
Free Chlorine	CHLFREE-W/HACH8021	HACH 8021	WC	Liquid
Total Residual Chlorine	CHLTOTRES-W/HACH8167	HACH 8167	WC	Liquid
Chemical Oxygen Demand	COD-W/EPA410.4	EPA 410.4 via Hach	WC	Liquid
Specific Conductivity	CONDUCTIVITY/EPA9050	EPA 9050A	WC	Solid/Liquid
Corrosivity	PH-W/4500H+B	APHA 4500H+B	WC	Liquid
Cyanide, Amenable	CYANIDE,AMEN-W/4500CN-C/E	APHA 4500CN-C/E	WC	Liquid
Cyanide, Total	CYANIDE,TOTAL-W/4500CN-C/E	APHA 4500CN-C/E	WC	Liquid
Cyanide, Total	CYANIDE,TOTAL-W/E335.2	EPA 335.2	WC	Liquid
Cyanide, Reactive	CYANIDE,REACTIVE	EPA Chapter 7, EPA 335.2	WC	Liquid
Flashpoint, Closed Cup, Amb to 140 F	FLAPT-CC-140	ASTM D93	WC	Liquid
Flashpoint, Closed Cup, Subambient to Flash	FLAPT-CC-FLASH	ASTM D93	WC	Liquid
Flashpoint, Open Cup, Amb to 140 F	FLAPT-OC-140	ASTM D92	WC	Solid

## Environmental Services, Analytical Group Listing

Test Name	Test Code	Method	Dept	Media
Flashpoint, Open Cup, Subambient to Flash	FLAPT-OC-FLASH	ASTM D92	WC	Solid
Hardness	HARD-CALC 2OF2	APHA 2340 B	METAL	Liquid
Hexavalent Chromium	HEXCHR-W/ APHA3500-CRB	APHA 3500-Cr B	WC	Liquid
Iodine Number	IODINE NUMBER	ASTM D1959	WC	Liquid
Methylene Blue Active Substances	MBAS-W/E425.1	EPA 425.1	WC	Liquid
Methylene Blue Active Substances	MBAS-W/ APHA5540C	APHA 5540C	WC	Liquid
Odor	ODOR/ APHA 2150	APHA 2150B	WC	Liquid
Paint Filter Test	PAINTFILTERTEST/ EPA9095B	EPA 9095B	WC	Varies
Percent Moisture	PERCENTMOIST	ASTM D2974A	WC	Solid
Percent Solids	PERCENTSOLIDS	ASTM D2974A	WC	Solid
Phosphorous, Total	PHOSPH, TOT-W/ E365.2	EPA 365	WC	Liquid
Phosphorous, Dissolved	PHOSPH,DISS-W	APHA 4500-P E	WC	Liquid
Phosphorous, Total	PHOSPH,TOT-W	APHA 4500-P B, E	WC	Liquid
Reactivity, Corrosivity, Ignitability	RCI/SW846,C7	EPA Chapter 7	WC	Solid/Liquid
Reactivity	REACTIVITY	EPA Chapter 7	WC	Solid
Sulfide	SULFIDE-W/ APHA		WC	Liquid
Taste	TASTE/ APHA 2160	APHA 2160	WC	Liquid
Total Dissolved Solids (Res, Solids)	TDS-W/ APHA2540C	APHA 2540 C	WC	Liquid
Total Dissolved Solids (Res, Solids)	TDS-W/ E160.1	EPA 160.1	WC	Liquid
Total Kjeldahl Nitrogen	TKN-OSS/ APHA 4500BF	APHA 4500BF	OSS	Liquid
Total Organic Carbon	TOC-W	EPA 415.1	OSS	Liquid
Total Organic Halides	TOX-W/ E9056	EPA 9056	LC/IC	Liquid
Trihalomethane	TRIALO-W/ E624	EPA 624	MS	Liquid
Trihalomethane	TRIALO-W/ E8260	EPA 8260	MS	Liquid
Total Suspended Solids (Res, Total)	TSS-W/ APHA2540D	APHA 2540 D	WC	Liquid
Total Suspended Solids (Res, Total)	TSS-W/ E160.2	EPA 160.1	WC	Liquid
Total Solids	TS-W/ EPA160.3	EPA 160.3	WC	Liquid
Total Solids	TS-W/ APHA2540B	APHA 2540B	WC	Liquid
Turbidity	TURBIDITY	APHA 2130 B	WC	Liquid
Total Volatile Solids	TVS	EPA 160.4	WC	Solid
Volatile Suspended Solids	VSS-W/ APHA2540E	APHA 2540E	WC	Liquid
<b>Metals - Group</b>				
Metals List 1 (RCRA 8)	SPECIFIC TO ANALYTE	EPA 6010/200.7 & 7470/7471	METAL	Solid/Liquid
Metals List 2 (Priority Pollutants)	SPECIFIC TO ANALYTE	EPA 6010/200.7 & 7470/7471	METAL	Solid/Liquid
Metals List 3 (20 Metal Screen)	SPECIFIC TO ANALYTE	EPA 6010/200.7 & 7470/7471	METAL	Solid/Liquid
Special Metals Preparation	MET-SPECPREP		METAL	Solid/Liquid
<b>Metals - Individual</b>				
Inductively Coupled Plasma (ICP)	SPECIFIC TO ANALYTE	EPA 6010 or EPA 200.7	METAL	Solid/Liquid
Flame Atomic Absorption (FAA)	SPECIFIC TO ANALYTE	EPA 7000 Series or EPA 200 Series	METAL	Solid/Liquid
Cadmium	CADMIUM, LEACH-S/ AOAC	AOAC 973.32	METAL	Solid
Leachable Lead	LEAD, LEACH-S/ AOAC	AOAC 973.32	METAL	Solid
Lead	LEAD-S/ E6010	EPA 6010C	METAL	Solid
Lead	LEAD-S/ E7000	EPA 7000	METAL	Solid
Mercury	MERCURY-S/ E7471	EPA 7471B	METAL	Solid
Mercury	MERCURY-SPLP/ E7470	EPA 7470A	METAL	Solid/Liquid
Mercury	MERCURY-TCLP/ E7470	EPA 7471	METAL	Solid/Liquid

## Environmental Services, Analytical Group Listing

Test Name	Test Code	Method	Dept	Media
Mercury	MERCURY-W1D/E7470	EPA 7470A	METAL	Liquid
Mercury	MERCURY-W1T/E7470	EPA 7470A	METAL	Liquid
Mercury	MERCURY-W2D/E245	EPA 245.1	METAL	Liquid
Mercury	MERCURY-W2T/E245	EPA 245.1	METAL	Liquid
<b>Organics - General</b>				
Acetone	ACETONE-W	ASTM D3695	FID	Liquid
Alcohols & Ketones	ALC&KET-W	ASTM D3695	FID	Liquid
BTEX & MTBE	BTEXM-S/E8021	EPA 8021	PID	Solid
BTEX & MTBE	BTEXM-TB/E8021	EPA 8021 Mod	PID	Tedlar Bag
BTEX & MTBE	BTEXM-TCLP/E8021	EPA 8021	PID	Solid
BTEX & MTBE	BTEXM-W/E8021	EPA 8021	PID	Liquid
BTEX	BTEX-S/E8021	EPA 8021	PID	Solid
BTEX	BTEX-TB/E8021	EPA 8021 Mod	PID	Tedlar Bag
BTEX	BTEX-TCLP/E8021	EPA 8021	PID	Solid
BTEX	BTEX-W/E8021	EPA 8021	PID	Liquid
Ethylene Glycol	ETHGLYCOL-W/D2908	ASTM D2908-91	FID	Liquid
Hexane Extractable Material	O&G-W/E1664	EPA 1664	WC	Liquid
Hexane Extractable Material (SGT)	O&G-W/E1664 (SGT)	EPA 1664	WC	Liquid
Phenolics	PHENOL-W	EPA 420.1	WC	Liquid
Toxaphene	TOXAPHENE-W/E8081	EPA 8081B	ECD	Liquid
TPH GRO	TPH 8015 GRO-W	EPA 8015	PID	Liquid
TPH DRO	TPH,DRO-TB/E8015MOD	EPA 8015 Mod	PID	Tedlar Bag
TPH GRO	TPH,GRO-TB/E8015MOD	EPA 8015 Mod	PID	Tedlar Bag
TPH	TPH-S/TCEQ1005	TCEQ TX 1005	TPH	Solid
TPH	TPH-S/TCEQ1006	TCEQ TX 1006	OSS	Solid
TPH	TPH-W/TCEQ1005	TCEQ TX 1005	TPH	Liquid
TPH	TPH-W/TCEQ1006	TCEQ TX 1006	TPH	Liquid
<b>Organics - Screens</b>				
Herbicides	HERBICIDES-S/EPA8151A	EPA 8151A	ECD	Solid
Polychlorinated biphenyls	PCB-OIL	EPA 8082A	ECD	Oil
Polychlorinated biphenyls with DOD Toluene Ext.	PCB-P/DOD	EPA 8082A	ECD	Paint
Polychlorinated biphenyls with DOD Toluene Ext.	PCB-S/DOD	EPA 8082A	ECD	Solid
Polychlorinated biphenyls	PCB-S/E8082	EPA 8082A	ECD	Solid
Polychlorinated biphenyls	PCB-W/E608	EPA 608	ECD	Liquid
Polychlorinated biphenyls	PCB-W/E8082	EPA 8082A	ECD	Liquid
Pesticides, Chlorinated	PEST,CHLOR-S/E8081	EPA 8081B	ECD	Solid
Pesticides, Chlorinated	PEST,CHLOR-W/8081	EPA 8081B	ECD	Liquid
Pesticides, Phosphate	PEST,PHOS-S/EPA8141A	EPA 8141A	MS	Solid
Polynuclear aromatic hydrocarbons	PNA-W/E8270	EPA 8270	MS	Liquid
Polynuclear aromatic hydrocarbons	PNA-W/E8310	EPA 8310	LC/IC	Liquid
Semi-Volatile Organic Compounds	SVOC-S/E8270	EPA 8270	MS	Solid
Semi-Volatile Organic Compounds	SVOC-W/E625	EPA 625	MS	Liquid
Semi-Volatile Organic Compounds	SVOC-W/E8270	EPA 8270	MS	Liquid
Volatile Organic Compounds	VOC-S/E8260	EPA 8260	MS	Solid
Volatile Organic Compounds	VOC-W/E624	EPA 624	MS	Liquid
Volatile Organic Compounds	VOC-W/E8260	EPA 8260	MS	Liquid

## Environmental Services, Analytical Group Listing

Test Name	Method		
<b>Alcohols &amp; Ketones</b>	<b>ASTM D3695</b>		
Acetone		Amyl alcohol	Ethanol
1-Hexanol		Isopropyl alcohol	Methanol
Methyl amyl alcohol		n-Octanol	2-Pentanol
n-Propanol		sec-Butyl alcohol	
<b>Anions</b>	<b>EPA 300</b>		
Bromide		Chloride	Nitrate
Nitrite		Phosphate	Sulfate
<b>Cations</b>	<b>ASTM D6919</b>		
Ammonium		Calcium	Lithium
Magnesium		Potassium	Sodium
<b>Metals List 1 (RCRA 8)</b>	<b>EPA 6010/200.7</b>		
Arsenic		Barium	Cadmium
Chromium		Lead	Mercury
Selenium		Silver	
<b>Metals List 2 (Priority Pollutants)</b>	<b>EPA 6010/200.7</b>		
Antimony		Arsenic	Beryllium
Cadmium		Chromium	Copper
Lead		Mercury	Nickel
Selenium		Silver	Thallium
Zinc			
<b>Metals List 3 (20 Metal Screen)</b>	<b>EPA 6010/200.7</b>		
Aluminum		Antimony	Arsenic
Barium		Beryllium	Cadmium
Chromium		Cobalt	Copper
Iron		Lead	Manganese
Molybdenum		Nickel	Selenium
Silver		Thallium	Titanium
Vanadium		Zinc	
<b>Pesticides, Chlorinated</b>	<b>EPA 8081B</b>		
Aldrin		alpha-BHC	beta-BHC
delta-BHC		gamma-BHC	alpha-Chlordane
gamma-Chlordane		Chlordane, Technical	4,4'-DDD
4,4'-DDE		4,4'-DDT	Dieldrin
Endosulfan I		Endosulfan II	Endosulfan sulfate
Endrin		Endrin aldehyde	Endrin ketone
Heptachlor		Heptachlor epoxide	Methoxychlor
Decachlorobiphenyl		2,4,5,6-Tetrachloro-m-xylene	
<b>Pesticides, Phosphate</b>	<b>EPA 8141A</b>		
Azinphos methyl		Chlorpyrifos	Diazinon
Dichlorvos		Disulfoton	Ethoprop
Ethyl parathion		Malathion	Methyl parathion
Mevinphos		Tetrachlorvinphos	Tetraethyl pyrophosphate
<b>Polynuclear aromatic hydrocarbons</b>	<b>EPA 8270</b>		
Acenaphthene		Acenaphthylene	Anthracene
Benzo(a)anthracene		Benzo(b)fluoranthene	Benzo(k)fluoranthene
Benzo(g,h,i)perylene		Benzo(a)pyrene	Chrysene
Dibenz(a,h)anthracene		Fluoranthene	Fluorene
Indeno(1,2,3-cd)pyrene		Naphthalene	Phenanthrene
Pyrene		Nitrobenzene-d5	2-Fluorobiphenyl
4-Terphenyl-d14			
<b>Polynuclear aromatic hydrocarbons</b>	<b>EPA 8310</b>		
Acenaphthene		Acenaphthylene	Anthracene
Benzo(a)anthracene		Benzo(b)fluoranthene	Benzo(k)fluoranthene
Benzo(g,h,i)perylene		Benzo(a)pyrene	Chrysene
Dibenz(a,h)anthracene		Fluoranthene	Fluorene
Indeno(1,2,3-cd)pyrene		Naphthalene	Phenanthrene
Pyrene			
<b>Semi-Volatile Organic Compounds</b>	<b>EPA 625</b>		
Acenaphthene		Acenaphthylene	Anthracene
Benzidine		Benzo(a)anthracene	Benzo(a)pyrene

# Environmental Services, Analytical Group Listing

Test Name	Method	
Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-ethylhexyl) phthalate
Bis(2-chloroisopropyl) ether	4-Bromophenyl phenyl ether	Butyl benzyl phthalate
4-Chloro-3-methylphenol	2-Chloronaphthalene	2-Chlorophenol
4-Chlorophenyl phenyl ether	Chrysene	Dibenz(a,h)anthracene
1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate
2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate
4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene
2,6-Dinitrotoluene	Di-n-octyl phthalate	1,2-Diphenylhydrazine (azobenzene)
Fluoranthene	Fluorene	Hexachlorobenzene
Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane
Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene
Nitrobenzene	2-Nitrophenol	4-Nitrophenol
N-Nitrosodimethylamine	N-Nitrosodi-n-propylamine	N-Nitrosodiphenylamine
Pentachlorophenol	Phenanthrene	Phenol
Pyrene	Pyridine	1,2,4-Trichlorobenzene
2,4,6-Trichlorophenol	2-Fluorophenol	Phenol-d5
2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl
4-Terphenyl-d14	1,4-Dichlorobenzene-d4	Naphthalene-d8
Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12
Perylene-d12		
<b>Semi-Volatile Organic Compounds</b>	<b>EPA 8270</b>	
Acenaphthene	Acenaphthylene	Anthracene
Benzdine	Benzo(a)anthracene	Benzo(a)pyrene
Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane	Bis(2-chloroethyl)ether	Bis(2-ethylhexyl)phthalate
Bis(2-chloroisopropyl) ether	4-Bromophenyl phenyl ether	Butyl benzyl phthalate
Carbazole	4-Chloroaniline	4-Chloro-3-methylphenol
2-Chloronaphthalene	2-Chlorophenol	4-Chlorophenyl phenyl ether
Chrysene	Dibenz(a,h)anthracene	Dibenzofuran
1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene
3,3'-Dichlorobenzidine	2,4-Dichlorophenol	Diethyl phthalate
2,4-Dimethylphenol	Dimethyl phthalate	Di-n-butyl phthalate
4,6-Dinitro-2-methylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene
2,6-Dinitrotoluene	Di-n-octyl phthalate	1,2-Diphenylhydrazine (azobenzene)
Fluoranthene	Fluorene	Hexachlorobenzene
Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane
Indeno(1,2,3-cd)pyrene	Isophorone	2-Methyl naphthalene
2-Methyl phenol	N-Nitrosodi-n-propylamine	4-Methyl phenol
Naphthalene	2-Nitroaniline	3-Nitroaniline
4-Nitroaniline	Nitrobenzene	2-Nitrophenol
4-Nitrophenol	N-nitrosodimethylamine	N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine	2,2'-Oxybis(1-chloropropane)	Pentachlorophenol
Phenanthrene	Phenol	Pyrene
Pyridine	1,2,4-Trichlorobenzene	2,4,5-Trichlorophenol
2,4,6-Trichlorophenol	2-Fluorophenol	Phenol-d6
2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl
4-Terphenyl-d14	1,4-Dichlorobenzene-d4	Naphthalene-d8
Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12
Perylene-d12		
<b>Special Metals Preparation</b>		
<b>Specialized Digestion</b>		
<b>Volatile Organic Compounds</b>	<b>EPA 624</b>	
Benzene	Bromodichloromethane	Bromoform
Bromomethane	Carbon tetrachloride	Chlorobenzene
Chloroethane	2-Chloroethylvinyl ether	Chloroform
Chloromethane	Dibromochloromethane	1,2-Dichlorobenzene
1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane
1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene
trans-1,2-Dichloroethene	1,2-Dichloropropane	cis-1,3-Dichloropropene
trans-1,3-Dichloropropene	Ethylbenzene	Methylene chloride
Methyl ethyl ketone	1,1,2,2-Tetrachloroethane	Tetrachloroethene
Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane

## *Environmental Services, Analytical Group Listing*

Test Name	Method		
Trichloroethene		Trichlorofluoromethane	Vinyl chloride
m&p-Xylene		o-Xylene	Chlorobenzene-d5
1,4-Dichlorobenzene-d4		Fluorobenzene	4-Bromofluorobenzene
Dibromofluoromethane		Toluene-d8	
<b>Volatile Organic Compounds</b>	<b>EPA 8260</b>		
Benzene		Bromodichloromethane	Bromoform
Bromomethane		Carbon tetrachloride	Chlorobenzene
Chloroethane		2-Chloroethylvinyl ether	Chloroform
Chloromethane		Dibromochloromethane	1,2-Dichlorobenzene
1,3-Dichlorobenzene		1,4-Dichlorobenzene	1,1-Dichloroethane
1,2-Dichloroethane		1,1-Dichloroethene	cis-1,2-Dichloroethene
trans-1,2-Dichloroethene		1,2-Dichloropropane	cis-1,3-Dichloropropene
trans-1,3-Dichloropropene		Ethyl benzene	Methylene chloride
Methyl ethyl ketone		1,1,2,2-Tetrachloroethane	Tetrachloroethene
Toluene		1,1,1-Trichloroethane	1,1,2-Trichloroethane
Trichloroethene		Trichlorofluoromethane	Vinyl chloride
m&p-Xylene		o-Xylene	4-Bromofluorobenzene
Dibromofluoromethane		Toluene-d8	Fluorobenzene
Chlorobenzene-d5		1,4-Dichlorobenzene-d4	

# Forensic Testing and Consulting Services

Prices are outlined in the following groups:

Recovery & Identification of Ignitable Liquids

Fluid Analysis

Trace Evidence

Additional Services

Explosive Gases

Evidence Disposition Services

# Forensic Testing Consulting Services

Test Name	Test Code	Media
<b>Recovery &amp; Identification of Ignitable Liquids</b>		
Ignitable Liquids	FIRE/ASTM1618	Debris
Prep for Ignitable Liquids (Per Case)	FIRE PREP	Debris
<b>Fluid Analysis</b>		
Brake Fluid	BRAKEFLUID	Liquid
Crossmatch, Hydrocarbons ("fingerprinting")	CROSSMATCH	Organic
Fuel Contamination	FUELDESC/AFL	Fuel
Coolant	COOLANT	Liquid
Gas Chromatograph ID (High Temperature)	GC-FIRE FID	Varies
Gas Chromatograph/Mass Spectrometer ID (GC/MS)	GCMS	Varies
Karl Fischer Water Content	KARLFISHERTEST-W	Liquid
Water Content by FTIR	WATCON/FTIR	Liquid
Sugar Analysis	SUGAR	Liquid
Engine Oil (Wear Metals)	WM OIL 1OF2	Oil
Engine Oil (Sugar, Water, Glycol, FTIR, etc.)	WM OIL 2OF2	Oil
Transmission Fluid (Wear Metals)	WM TRANS 1OF2	Fluid
Transmission Fluid (Water, FTIR, physical exam)	WM TRANS 2OF2	Fluid
<b>Trace Evidence</b>		
Blood, Presence of	BLOOD, PRESENCE	Varies
Drug Screen Analysis for Presence	DRUGSCREEN/AFL	Varies
Forensic Examination	FORENSIC-EXAM	Varies
Forensic Microscopy	MICRO-FORENSIC	Varies
Saliva, Presence of	SALIVA	Varies
Semen, Presence of	SEMEN, PRESENCE	Varies
Wax by GC TCEQ 1005	WAX/GCFID	Solid
<b>Additional Services</b>		
Chamber Test Setup/Burn	CHAMBERTEST	Varies
Cellulose Insulation Evaluation		Insulation
Energy Dispersive X-Ray Analysis	EDAX	Varies
FAME	FAME2OF3	Debris
Fire Point & Smoke Point	FIREPT-OPEN CUP	Varies
Foreign & Regulated Domestic Soil Surcharges		Solid
FTIR for Identification	FTIR	Varies
Microscopic Photographs	MIC-PHOTO	Varies
Oxidizers (spot test)	OXIDIZERS (SPOT TEST)	Solid
Paint Examination/Comparison (First Sample)		Paint
Paint Examination/Comparison (Additional Sample)		Paint
Photographic Documentation	PHOTOS	Varies
Solvent Extraction		Varies
Spontaneous Combustion Evaluation		Varies
Vertical Burn Test	VERTBURN/UL94V	Varies
X-Ray	XRAY	Varies
XRD Analysis	XRD	Varies
<b>Explosive Gases</b>		
Natural Gas Analysis	NATGAS/FID	Air
<b>Evidence Disposition Services</b>		
Storage (6 Months) per case		Evidence
Storage (1 Year) per case		Evidence
Storage (3 Years) per case		Evidence
Storage, Dangerous (6 Months) per case		Evidence
Storage, Oversized (6 Months) per case		Evidence
Storage, Oils (4 Years) per case		Evidence



# Sampling Media

Prices are outlined in the following groups:

Sorbent Tubes

Filters

Passive Monitors

Sealed Containers

Vacuum Pumps

# Sampling Media

Test Name	Media Code	Media
<b>Sorbent Tubes</b>		
Charcoal Tube (50/100)	M-226-01	226-01
Charcoal Tube (200/400)	M-226-09	226-09
Silca Gel (75/150)	M-226-10	226-10
Silica Gel (150/300)	M-226-10-04	226-10-04
Silica Gel, Treated (100/200)	M-226-10-06	226-10-06
Porapak Q (75/150)	M-226-115	226-115
XAD-2, Treated (75/150)	M-226-117	226-117
XAD-2, Treated (60/120)	M-226-118	226-118
Silica Gel, DNPH (150/300)	M-226-119	226-119
Silica Gel (260/520)	M-226-15	226-15
Mercury Tubes (200)	M-226-17-1A	226-17-1A
Alumina (200/400)	M-226-18	226-18
Soda Lime (200/600)	M-226-28	226-28
Carbon Beads, Treated - Anasorb 747 (250/500)	M-226-29	226-29
XAD-2 (50/100)	M-226-30-04	226-30-04
XAD-2 (200/400)	M-226-30-06	226-30-06
XAD-2, Treated (50/100)	M-226-30-07	226-30-07
OVS, Glass Fiber Filter/XAD-2 (140/270)	M-226-30-16	226-30-16
XAD-2, Amines (40/80)	M-226-30-18	226-30-18
Tenax (50/100)	M-226-35-03	226-35-03
Charcoal Sets (A: 200 - B: 400)	M-226-37	226-37
Florisol (50/100)	M-226-39	226-39
Molecular Sieve with Oxidizer (400[2] - 800)	M-226-40	226-40 Set
Silica Gel (50/100)	M-226-51	226-51
Silica Gel, Treated (75/150)	M-226-53	226-53
OVS, Glass Fiber Filter/Tenax (70/140)	M-226-56	226-56
OVS, Glass Fiber Filter/XAD-7 (100/200)	M-226-57	226-57
OVS, Quartz Fiber Filter/XAD-2 (140/270)	M-226-58	226-58
Charcoal, Treated (50/100)	M-226-67	226-67
Anasorb 727 (150/300)	M-226-75	226-75
Carbon Beads, Treated - Anasorb 747 (50/100)	M-226-80	226-80
Anasorb 747 (70/140)	M-226-81	226-81
XAD-4 (40/80)	M-226-93	226-93
XAD-7 (50/100)	M-226-95	226-95
XAD-7 (A: 175 - B: 175[2])	M-226-97	226-97
XAD-7, Treated (40/80)	M-226-98	226-98
Low Sulfur Carbon	M-ORBO34	Orbo 34
Silica Gel	M-ORBO53	Orbo 53
DNPH Silica Gel	M-SEP-PAK	Sep-Pak
<b>Filters</b>		
Treated Nitrocellulose Filters (SKC 225-9031)	M-225-9031	225-9031
Treated Quartz Fiber Filters (SKC 225-9032)	M-225-9032	225-9032
Quartz Fiber Filters (SKC 225-9033)	M-225-9033	225-9033
Air-O-Cell Cassette	M-AOC	AOC
Mixed Cellulose Ester, 25mm	M-CEF,25MM	CEF 25mm
Mixed Cellulose Ester, 37mm	M-CEF,37MM	CEF 37mm
Glass Fiber Filter, 37MM	M-GFF,37MM	GFF 37mm
Glass Fiber Filter, 8x10	M-GFF,8X10	GFF 8x10
Treated Glass Fiber Filter, OSHA 42/47	M-GFF,TR	OSHA 47 Filter
PTFE (Teflon) Filter, 1.0u	M-PTFE,1U	PTFE
PTFE (Teflon) Filter, 2.0u	M-PTFE,2U	PTFE
PVC Filter (Tared) +/- 10u	M-PVC,TARE	Tared PVC
Quartz Fiber Filter, 37mm	M-QFF,37MM	QFF 37mm
<b>Passive Monitors</b>		
Passive Organic Vapor Monitor	M-3M-3500	3M 3500

## *Sampling Media*

<b>Test Name</b>	<b>Media Code</b>	<b>Media</b>
Passive Organic Vapor Monitor 2-Stage	M-3M-3520	3M 3520
UMEX 100 Formaldehyde Passive Monitor	M-500-100	500-100
<b><i>Sealed Containers</i></b>		
Tedlar Bag	M-232-01	232-01
<b><i>Vacuum Pumps</i></b>		
	M-VAMPUMP/38U	VampPump
	M-VAMPUMP/38X	VampPump

# Equipment Rental and Related Services

Prices are outlined in the following groups:

Integrated Sampling

Direct Reading Instruments

Other Services

# Equipment Rental

Description of Service	Rental Length
<b><i>Integrated Sampling</i></b>	
Air Monitoring Pump	1 Day 3 Day 1 Week
Andersen Sample & Pump	1 Day 3 Day 1 Week
Respirable Dust Cyclone	1 Day 3 Day 1 Week
Impinger	1 Day 3 Day 1 Week
Low Flow Adapter	1 Day 3 Day 1 Week
Flow Rate Regulator for SC	1 Day 3 Day 1 Week
0.4L Summa Can Rental - 1 Day	1 Day
0.4L Summa Can Rental - 3 Day	3 Day
0.4L Summa Can Rental - 1 Week	1 Week
6 Liter Summa Canister (SC)	1 Day 3 Day 1 Week
0.5 Liter Stainless Steel Cylinder	1 Day 3 Day 1 Week
<b><i>Direct Reading Instruments</i></b>	
IAQ Sampler	1 Day 3 Day 1 Week
Ventis MX4 4-Gas Meter	1 Day 3 Day 1 Week
Noise Dosimeter	1 Day 3 Day 1 Week
<b><i>Other Services</i></b>	
Client Equipment Calibration	Per Hour
Equipment Download	Per Event

# General Consulting Services

Andrew T. Armstrong, Ph.D., C.P.C.

Marion Armstrong, M.S.P.H., M.B.A., C.I.H.

Kelly L. Wouters, Ph.D.

Karen M. Deiss, B.S.

Reporting Packages

Other Services

# General Consulting Services

## Description of Service

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### ***Andrew T. Armstrong, Ph.D., C.P.C.***

Consultation, Travel, Phone and Standby

Court Presentation and Deposition

Video Deposition

### ***Marion Armstrong, M.S.P.H., M.B.A., C.I.H.***

Consultation, Travel, Phone and Standby

Court Presentation and Deposition

Video Deposition

### ***Kelly L. Wouters, Ph.D.***

Consultation, Travel, Phone and Standby

Court Presentation and Deposition

Video Deposition

### ***Karen M. Deiss, B.S.***

Consultation, Travel, Phone and Standby

Court Presentation and Deposition

Video Deposition

### ***Reporting Packages***

"CLP Like" Reporting Package

TRRP Reporting Package

### ***Other Services***

Computer Services (e.g.: CAD, database search)

Court Production, Records Copy

Data Recalculations

Emergency Response (200% Analytical + Per Person)

Fax Transmission

Field use of Specialized Laboratory Equipment

File Initiation/Retainer for retention of Services

Sample Pickup/Deliver within DFW Metroplex

Site Documentation (Photographs)

Technician (In-house or Field)

Travel Mileage

Video Taping and Production