

***STATEMENT
OF
QUALIFICATIONS***

www.SouthMallLabs.com
info@SouthMallLabs.com

TABLE OF CONTENTS

SECTION

PAGE NUMBER

| | |
|--|----|
| 1) Introduction..... | 3 |
| 2) Company History..... | 4 |
| 3) Mission Statement..... | 5 |
| 4) Certifications and Professional Affiliations..... | 6 |
| 5) Service Distinctions..... | 7 |
| 6) Corporate Insurance..... | 9 |
| 7) Quality Policy..... | 10 |
| 8) Laboratory Equipment..... | 12 |
| 9) Technical Publications..... | 13 |
| 10) Organizational Chart..... | 14 |
| 11) Key Résumés..... | 15 |
| 12) References..... | 17 |

Introduction

South Mall Analytical Labs, Inc. is a full-service environmental laboratory, offering clients a vast array of analyses for numerous matrices.

- Groundwater
- Wastewater
- Soil
- Sludge
- Hazardous Waste
- Oil

In addition to environmental analyses, South Mall Analytical Labs also offers clients other analyses.

- Plating Bath
- Alloys
- Petroleum Testing

The clients of South Mall Analytical Labs range from small water end-users to large manufacturing and industrial plants, from environmental consulting and tank removal companies to governmental agencies. While most of the client base is located on the east coast, South Mall Analytical Labs has performed analyses for companies in Europe, including the government of Lithuania, as well as industries in the Asian Pacific. The laboratory is very proud of the fact that over 70% of the client base is through referrals.

Company History

South Mall Analytical Labs was started in October 1984, as an adjunct company to Tridon Chemical Corp., supporting the plating industry. Its original mission was to support the distributorship's customers by providing analyses and technical consultation. After the sale of Tridon Chemical Corp. the energies of the staff were applied rigorously to the expansion of the laboratory in the field of environmental analyses.

In 1993, South Mall Analytical Labs moved to a new facility, filled with state-of-the-art equipment. The laboratory has been expanded several times over the ensuing years, acquiring an impressive array of equipment, as well as a highly skilled, responsive and technical staff. The current laboratory Equipment List is located in this document.

Mission Statement

The mission of South Mall Analytical Labs is to ensure complete client satisfaction. This is achieved through the careful selection and placement of an extremely highly qualified staff; superior quality control and quality assurance; highly trained, professional representatives who provide unparalleled customer service; and a dedication to remaining competitive.

Certifications and Professional Affiliations

South Mall Analytical Labs is a fully accredited laboratory, with certification from both the New York State Environmental Laboratory Approval Program (NY ELAP) (Identification #10950), National Environmental Laboratory Approval Program (NELAP) (Identification #NY01292) and the New Jersey Department of Environmental Protection (NJDEP) (Identification # NY006). A comprehensive list of certified analytes is located on the South Mall Labs Web Site

South Mall Analytical Labs professional affiliations include:

- A.E.S.F. (American Electroplaters and Surface Finishers Society)
- N.A.M.F. (National Association of Metal Finishers)
- N.Y.A.A.E.L. (New York Association of Approved Environmental Laboratories)
- A.C.S. (American Chemical Society)

Service Distinctions

Many of the policies and services offered by South Mall Analytical Labs have extraordinarily limited availability at other laboratories or, most often, are simply not offered at all.

➤ *Out of Spec Policy:*

If client results exceed regulatory guidelines, most laboratories simply send the results with no additional communication whatsoever. If the client notices the result before they are submitted to an agency and questions the laboratory, the client is advised to submit an additional sample. If these new results differ, the laboratory won't charge for the analysis. If, however, if the sample results are the same, the laboratory *will* charge for this repeat analysis. South Mall Analytical Labs does not operate in this manner. If results exceed regulatory guidelines at South Mall Analytical Labs, QA/QC information is immediately reviewed, and the sample is automatically reanalyzed. If the results are still out of spec, the client is notified at once. This process is performed at no charge to the client.

➤ *Customized Chain of Custody Forms:*

Filling out a chain of custody form is a tedious procedure. Almost all labs have chain of custody forms that can only be filled in by hand. When there is an error or a change, the entire form must be rewritten or edited. South Mall Analytical Labs assists clients by customizing and preparing the form by computer so that the client inserts the minimum information. The forms can be easily amended and updated as needed. This can even be done when the sample is submitted, greatly decreasing the amount of time necessary for clients to spend with monotonous details, and also decreases any accidental errors.

➤ *Prelabeled and Color-Coded Bottles:*

An incorrectly labeled bottle can result in anything from erroneous testing to sample rejection. South Mall Analytical Labs counteracts this by offering clients color-coded, prelabeled bottles, prepared according to client specifications. This service can also ensure that client field personnel take the correct samples and use the correct preservatives.

Service Distinctions (continued)

- *Forms Preparation:*
South Mall Analytical Labs can prepare many required forms, freeing client office personnel to perform other important tasks. The laboratory can present the client with completed SPEDES DMR forms or Industrial User Self-Monitoring reports (IUSMR), ready for signature.
- *Very Knowledgeable Customer Service Representatives:*
All customer service representatives at South Mall Analytical Labs undergo constant training and education, ensuring that client questions can be answered immediately and correctly. If the question is highly technical, all levels of management are available for assistance.
- *Trained Environmental Technicians:*
South Mall Analytical Labs boasts a staff of skilled environmental technicians, adept at sampling collection for water, soil, sludge, etc. The staff can perform well monitoring, including well development. If you have special sampling requirements, the technicians will be happy to accommodate your needs.
- *Free Telephone Consultation:*
Most laboratories simply perform an analysis and send out a report. South Mall Analytical Labs has an extraordinary staff that can assist with questions from which analyses are required to waste treatment procedures or the purpose of the sampling program.
- *Client Customization:*
Whether a client needs a report in a particular format, or needs assistance with a governmental agency (e.g. requesting a sampling extension from the N.Y.C. D.E.P.), South Mall Analytical Labs will do everything possible to make the process run as smoothly as possible.

Service Distinctions (continued)

- *Laboratory Personnel Availability:*
South Mall Analytical Labs does not utilize voice mail during normal business hours. This ensures that a client will always be able to speak with a knowledgeable staff member. If a question or situation arises after hours, there is a voice mail system that alerts staff to the voice mail when it is received.

- *Laboratory Information Management System*
South Mall Analytical Labs installed a state-of-the-art laboratory information management system in October of 2005. This system allows the laboratory to track all samples and requisite QC through the system, giving the laboratory instantaneous access to the status of all samples. The system also generates all customer reports, quotes and invoices. Reports are available in various formats and can be provided as hardcopy, electronic (Acrobat), and electronic (Excel). On-line access to all results is available through our website, allowing customers to view their analytical results in real time, as well as to access archived reports.

Corporate Insurance

South Mall Analytical Labs maintains a variety of insurance:

- General liability with a limit of \$1,000,000.
- Professional liability with a limit of \$2,000,000.
- Automobile insurance with a limit of \$500,000.
- Umbrella with a limit of \$5,000,000.
- Workers compensation.

Quality Policy

It is the goal of South Mall Analytical labs to generate technically defensible laboratory results that are precise and accurate. The laboratory is committed to routinely producing quality results, which are in conformance with NELAC standards. This will be accomplished by providing:

- Laboratory results that are supported by quality control data and documented laboratory testing methods.
- Adequately staffed and equipped laboratory facility.
- Complete implementation of a NELAC compliant quality assurance system.
- Data Integrity and Ethics Training for all employees.
- Successful participation in the ELAP proficiency testing operated by the New York State Department of Health. (2 x's per year)
- Continual internal audits with management review.
- Compliance with semiannual inspections by the New York State Environmental Laboratory Approval Program.

This quality policy is explained to all employees. It is understood, implemented and maintained by all employees. It is demonstrated by management through the employee evaluation process, training procedure, internal audit process and the document control process. It reflects our philosophy of total integrity.

Laboratory Equipment

South Mall Analytical Labs boasts state-of-the-art equipment. Some of the instruments are as follows:

| MANUFACTURER | EQUIPMENT |
|------------------------------|--|
| VOLATILE ORGANICS | |
| Hewlett-Packard | 5890 Gas Chromatograph/5972 Mass Spectrometer with Dedicated Archon 51-Position Autosampler and Tekmar Purge & Trap Concentrator |
| Hewlett-Packard | 5890 Gas Chromatograph/5971 Mass Spectrometer with Dedicated 16-Position Tekmar Purge & Trap, Autosampler and Concentrator |
| SRI | Gas Chromatograph with Photoionization and Electrolytic Conductivity Detectors and Purge & Trap Autosampler |
| SEMIVOLATILE ORGANICS | |
| Hewlett-Packard | 5890 Gas Chromatograph/5972 Mass Spectrometer with 100-Position Autosampler |
| Hewlett-Packard | 5890 Gas Chromatograph/5971 Mass Spectrometer with 100-Position Autosampler |
| Hewlett-Packard | 5890 Gas Chromatograph with Flame Ionization and Thermal Conductivity Detectors, and a 100 Position-Autosampler |
| Hewlett-Packard | 5890 Gas Chromatograph with Dual Electron Capture Detectors in a Dual-Column Configuration, and 100-Position Autosampler |
| METALS | |
| Spectro Ciros | ICP, Simultaneous CCD-Based Spectrometer with EOP (Axial) View and Autosampler |
| Perkin Elmer | 303 Deuterium-Corrected AA with Hydride Generator |
| Leeman Labs | Hydra Atomic Absorption Mercury Analyzer with Autosampler |
| Buck Scientific | Model 400A Cold Vapor Atomic Absorption Mercury Analyzer |
| WET CHEMISTRY | |
| Tekmar-Dohrman | Model DC80 Total Organic Carbon Analyzer |

| MANUFACTURER | EQUIPMENT |
|--------------------------|--|
| VOLATILE ORGANICS | |
| Perkin-Elmer | Model 1320 Infrared Spectrophotometer |
| Hach | DR/400 U UV-Visible Spectrophotometer |
| Milton Roy | Spectronic 1201 UV-Visible Spectrophotometer |

Laboratory Equipment (continued)

| MANUFACTURER | EQUIPMENT |
|----------------------------------|---|
| WET CHEMISTRY (continued) | |
| Orion | pH/ISE Meter Model 710A, Including Electrodes for pH, ORP, Dissolved Oxygen, Fluoride and Ammonia |
| Beckman | Model RC-16C Conductivity Bridge |
| ICM | Model 11520 Turbidimeter |
| Meinzer | Sieve-Shaker |
| Parr | Oxygen-Bomb and Calorimeter |
| Eberbach | Dual Electroanalyzer |
| Dionix | Ion Chromatograph |
| Fisher | Penske-Martens Flashpoint Apparatus |
| Fisher | Surface-Tensiometer |
| Chantillion | Tensile Strength Tester |
| SAMPLE PREPARATION | |
| Lab-Line | Model 3550 Incubator |
| Environmental Express | Hot Block 36-Position Digestion Block |
| Zymark | TurboVap II |
| Tecator/Foss | Soxtec Accelerated Solvent Extraction System |
| Meyer N-EVAP | Analytical Evaporator |
| Mid-Vap | 10-Position Cyanide Distillation Apparatus |
| Lachat Instruments | QuikChem 8500 Auto Analyzer |
| Lachat Instruments | MicroDist Distillation System |
| Zymark | Benchmate Automated Sample Preparation System with Gel-Permeation Cleanup Unit |
| Hamilton-Bell | Model 1505 Lab Centrifuge |
| Environmental Express | TCLP Tumbler |
| Environmental Express | TCLP Filtration Apparatus |
| Environmental Express | Zero Headspace Extractor |
| American Sigma | Portable Water Samplers |
| Teel | Well Sampling Pump |

| MANUFACTURER | EQUIPMENT |
|----------------------------------|---------------------------------------|
| WET CHEMISTRY (continued) | |
| Heron | Groundwater Monitor |
| Little Beaver | Portable Gas-Powered Drilling Machine |
| Wheaton | Stainless Steel Bomb Sampler |
| Cole-Parmer | Portable pH Meter |
| ICM | Model 11520 Turbidimeter |
| ICM | Model 32150 Dissolved Oxygen Meter |
| Bradley-James | Model 10528 Field Conductivity Meter |
| I.H. Buck | Air Sampler |

Technical Publications

South Mall Analytical Labs is proud of the impact it has made in the industry. The staff is encouraged to submit articles and research for publication. This is a partial list of articles published by South Mall Analytical Labs personnel:

Shaulys, J.P.: *Polarographic Investigation of Pyridine Carboxylic Acids*, Adelphi University, 1973.

Trujillo, H.: *Synthesis of Cyanophosphine Complexes of Palladium and Platinum*, Ball State University, 1978.

Shaulys, J.P.: "Reducing Electrical Costs in the Plating Shop," *Plating & Surface Finishing*, September, 1981, pp. 24-25.

Miller, M.E. and Stuart, J.D.: "Comparison of Gas-Sampled and SPME-Sampled Static Headspace for the Determination of Volatile Flavor Components," *Analytical Chemistry*, vol. 71, pp. 23-27, January 1, 1999.

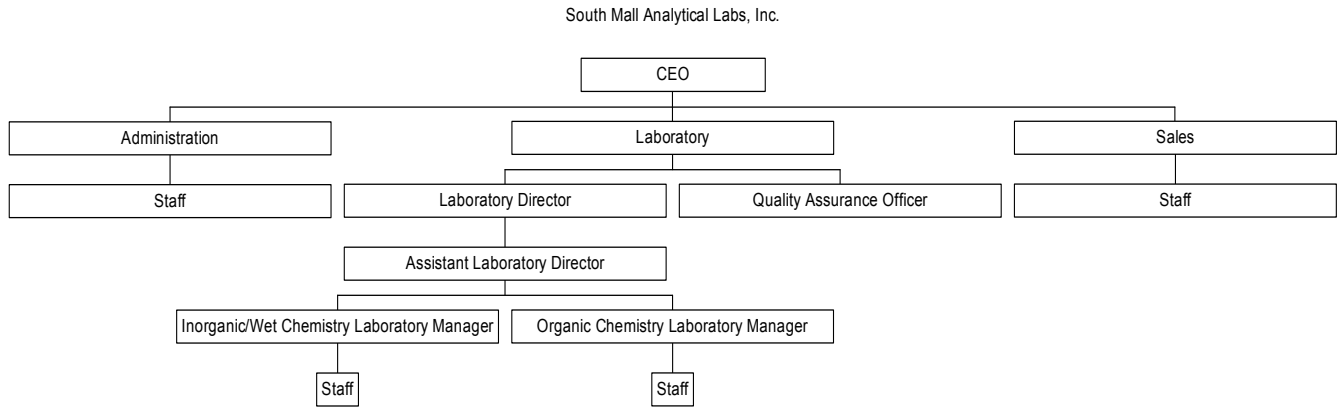
Shaulys, J.P. and Rovinelli, B.: "Cadmium Compliance Achieved with Electrowinning," *Plating & Surface Finishing*, September, 1991, pp. 42-44.

Miller, M.E. and Stuart, J.D.: "Measurement of Aqueous Henry's Law Constants for Oxygenates and Aromatics Found in Gasolines by the Static Headspace Method," *Analytical Chemistry*, vol. 72, pp. 622-625, February 1, 2000.

Miller, M.E., Stuart, J.D. and MacDonald, S.J.: "Coupling Static Headspace Sampling to High-Speed Gas Chromatography," *LC/GC*, vol. 18, no. 9, pp. 968-975, September, 2000.

Cummins, T.M. et al: "A Water Extraction, Static Headspace Sampling, Gas Chromatographic Method to Determine MTBE in Heating Oil and Diesel Fuel," *Environmental Science & Technology*, vol. 35, pp. 1202-1208, 2001.

Organizational Chart



Key Résumés

Joseph P. Shaulys – Laboratory Director

South Mall Analytical Labs was founded by Mr. Shaulys in 1984. This followed a highly successful career that included serving in the United States Army Chemical Corp. as a chemical technician and nine years as an analytical chemist at Eutectic Corp. He became the manager of waste treatment and chemical recovery at Photocircuits Corp. while studying for his simultaneous M.S. degrees in both chemistry and business from Adelphi University. His experience in both analytical chemistry and waste management make him an ideal laboratory director. In addition to his extensive experience, Mr. Shaulys is a certified hazardous materials manager.

Horeb Trujillo – Supervisor, Inorganics Laboratory

Mr. Trujillo, who is bilingual in both English and Spanish, joined South Mall Analytical Labs as an analyst, and his abilities were proven very quickly that he was promoted to a supervisor. After receiving his M.S. in Inorganic Chemistry from Ball State University, Mr. Trujillo enjoyed a career as an inorganic chemist at various laboratories performing a vast array of wet chemistry analyses. Mr. Trujillo's experience lends itself perfectly to developing new methods and procedures.

Michael E. Miller – Assistant Laboratory Director

Dr. Miller was awarded his Ph.D. in Chemistry from the prestigious University of Connecticut. His experience includes teaching at the University and interning at Eastman Kodak Company. Dr. Miller has published frequently, and combines his fine education with a desire for hands-on experience to rigorously improve and streamline recognized methods of analyses.

Ali Rohani – Supervisor,, Organics Laboratory

After receiving his B.S. in Chemistry from Southern Utah State University, Mr. Rohani worked at several environmental laboratories His practical experience is of inestimable value to the precision of the organics laboratory.

Key Résumés (continued)

Renee Cohen –Quality Assurance Officer

Ms. Cohen received a B.S. in Biology (5/84) and a B.S. degree in Environmental Science (12/84) from Old Dominion University. Ms. Cohen worked for the EPA as a contract employee and a number of commercial laboratories in New York and New Jersey since March 1985. Ms. Cohen is experienced in both organic and inorganic analyses. She has been a Quality Assurance Officer (QAO) and quality assurance consultant since 1988.

References

- ***Suffolk County Department of Public Works***
Diane Booth
- ***Estee Lauder***
Tracey Conter
- ***Pfizer Corp.***
Julien Ollivierre
- ***77th Regional Support Command U.S. Army Reserve***
Ravi Ajohdah
- ***Calpine***
Kenneth Ford
- ***PFC Chemical Pollution Control***
Paul Keeler
- ***Hydrotech Environmental Inc.***
Mark Robbins
- ***EEA, Inc.***
Hardik Parekh