

Environmental Consulting and Solutions Group
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Facsimile Cover Sheet

To: Melinda Ballard

From: ECSG – Shawn M. Rau

Policyholders of America

Fax: 888.648.8823

Pages: 10 including cover

Re: 1. Completed Contractors Pledge **Date:** November 12, 2003

2. Statement of Qualifications and

Experience

Ms. Ballard,

If you have any **questions** please contact **me directly** at the telephone number listed above.



Shawn M. Rau, BS, CIE, CMR

IEQ Consultant / Environmental Microbiologist

- Indoor Environmental Quality **Investigations**
Microbiological – Bacterial, Mold, Viral, Protozoa
Industrial **Hygiene** – Chemical – VOC, Asbestos, Lead, CO, CO2
- Building Sciences
Ventilation Studies
Construction **Defects**
- Litigation Support
- Proactive IEQ Management Plans

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person or firm which they have reason to believe is engaging in fraudulent or dishonest industrial hygiene practices.

- Industrial Hygienists shall not use statements in advertising their expertise or services containing a material misrepresentation of fact or omitting a material fact necessary to keep statements from being misleading.
- Industrial Hygienists shall not knowingly permit their employees, their employers or others to misrepresent the individuals professional background, expertise or services which are misrepresentations of fact.
- Industrial Hygienists shall not misrepresent their professional education, experience or credentials.

Other issues:

EM It is understood that POA receives no compensation for referrals.
Initial

EM It is understood that in order to be listed on the POA Approved Contractor/
Initial Export list, I cannot be a member of POA and I hereby certify I am not a
POA member.

The undersigned is duly authorized to enter into this pledge on behalf of the company named below:

Company Name: Environmental Consulting and Solutions Group Title: Principal
Date: 11/12/03 Signature: EM

Other:

1. Please provide a brief description of services performed:
IAQ / IEQ - investigations, assessments, consulting, Steadone / HOAC / CleanSpace
UOOL / LEAD / Asbestos / Building Construction Defects, Microbiology
2. Territory Covered: USA / International
3. Telephone Number for POA Members To Call: 707 732 3370
4. Email Address: Enviroconsulting@cs.com
5. Website (if applicable): N/A
6. Any Other Details: PO Box 110606, Napa, CA 94581
Ache Membership
American Society for Microbiology
Innovate Air Quality Association
International Society of Indoor Air Quality and Climate
Please see attached documentation

ENVIRONMENTAL CONSULTING AND SOLUTIONS GROUP

Statement of Qualifications and Experience

Environmental Consulting and Solutions Group

Multi-Disciplinary Team

Environmental Consulting and Solutions Group is a multi-disciplinary team who conduct investigations, research, educational programs, and provide effective solutions for clients of residential homes, office buildings, multi-dwelling buildings, laboratories, and other indoor environments throughout North America and the Pacific Rim. ECS is a specialist in providing management and solutions for air, surface, and water contamination within indoor environments. We effectively work with multiple parties throughout complex projects including building contractors, facilities managers, building owners, corporate law firms, architects, and remediation firms.

Troubleshooting by Proven Experts

ECS is often called in as a second or third party troubleshooter when other organizations have been unable to identify the source of Indoor Environmental Quality (IEQ) concerns or have been unable to recommend an effective solution to mitigate the concerns. ECS's staff includes an environmental microbiologist, industrial hygienists, and public health professionals have the proven expertise to identify, document, effectively mitigate, and prevent sources of unusual or excessive contamination.

Extensive Testing Methods and On-site Sample Analysis

Equipped with a complete inventory of testing methods for source identification and dissemination, our experts use a variety of sampling media and use clearly delineated methodologies in their investigations. Additionally, our environmental microbiologists solve moisture damage and mold problems expeditiously with on-site microbiological and particulate analysis. This guides complex investigations and restoration projects through on-site sample analysis and data interpretation. On-site sample analysis effectively reduces concerti, time, and expenses.

Rapid Response

ECS has the experience to respond rapidly to crises emerging from IEQ concerns and can manage the delicate situations that may arise between building occupants and facility management. We deal with the complex issues while facilitating clear communication among the parties involved. The goal is to quickly eliminate IEQ problems and develop countermeasures to proactively prevent them from reoccurring.

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Indoor Environmental Quality (IEQ) services include:

- **Building Diagnostics** - Consultants investigate ventilation systems, chemical and microbial contamination and comfort concerns. This typically includes visual walk-through inspections, sampling and analysis to determine contamination types and levels, and guidelines for improving existing conditions and maintaining healthy indoor air. In addition, ECS investigates causation of moisture intrusion.
- **Sampling and On-site Analysis** - In an effort to better understand the sources of IEQ problems, field investigations may call for sampling and analysis of air, water, and surfaces.
 - Mold / Fungi, Bacteria
 - Asbestos, Lead, Radon, Odors, Respirable Particulates
- **Pre- and Post-Occupancy Testing** - Building consultants conduct baseline tests and documentation of HVAC system performance and pollutant levels prior to building occupancy to ensure acceptable IEQ. Following baseline testing, ECS can test the area periodically to determine the effect of occupant activities on IEQ. This periodic service is considered back-up insurance to building owners in the event of future claims by occupants.
- **Arbitration, Litigation** – Our courtroom-experienced experts consistently provide valuable resources to Counsel.
- **Remediation Guidance** - ECS develops protocols and technical specifications on behalf of building owners for environmental remediation in new and existing buildings and performs final inspections and testing for building acceptability.
- **Educational Services and Proactive IEQ Management Plans**
 - **Training and Turn-key Solutions for:**
 - Building Contractors
 - Property Managers
 - Attorneys
 - Physicians
 - Restoration Contractors

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Building Investigation, Consulting, and Educational Project Summaries

- **Building Contractor:** Designed and implemented Indoor Environmental Quality (IEQ) assessments for a nationwide building contractor. The plan addressed acceptable IEQ levels, documentation of favorable conditions, remediation of unfavorable conditions, project management, multiparty communication, documentation of remediation strategy, and post remediation testing.
- **Government Insurance Provider:** Conducted indoor environmental quality investigations for a government insurance provider due to sewage backflows within occupied residential environments. Due to the level and type of contamination initial sampling was performed which resulted in effectively documenting the areas affected. Post remediation sampling followed the restoration documenting the efficacy of restoration activities allowing prompt reconstruction of the areas.
- **US Military:** Evaluated the microbiological growth in a government owned residence for a branch of the US armed forces. Baseline samples were procured, which identified growth on the structures primary surfaces and inside wall cavities. The source was determined to be a failed valve on the hot water heater. ECS conveyed the results and reports by means of oral discussion and presentation to the clients' legal, restoration, and administrative representatives. Remediation protocol was developed to restore the structure. Samples were procured post remediation documenting successful mitigation.
- **Large Remediation Contractor:** Performed onsite quality control microbiological sampling for a large remediation contractor allowing them to reduce labor costs due to immediate sample analysis and project guidance from a microscopic viewpoint. Contractor was able to reduce remediation labor fees by 20% due to onsite analysis. Property owner saved over \$6,000.00 due to increased efficiency of the restoration firm.
- **Residential Property Owner:** Upon returning from a two-week vacation the property owner found the hot water heater failed causing large-scale moisture and microbiological damage to the interior materials and contents within the structure. Sampling indicated the extent of the contamination and a protocol was established as guidance for the remediation firm. Post remediation levels confirmed the restoration activities and appropriate documentation was provided to the client.

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- **Insurance Company Claim Investigation:** Investigated a homeowner insurance claim of mold growth throughout the living room carpet. Visual observations indicated there were no proximal sources of moisture and onsite microscopy identified the contamination as mineral. **Source** sampling confirmed the source as **dog urine** not microbiological thus the claim was denied.
- **Mold Remediation Contractor:** Developed and guided the implementation of Standard Operating Procedures (*SOP*) for a large mold remediation contractor. In addition, ECSG designed quality control and assurance programs for the client, dramatically increasing their restoration production for **mold** and moisture restoration projects while reducing liability.
- **Commercial Insurance Claim Investigation:** Conducted a second party investigation for an insurance company **after** they initially covered a commercial property moisture damage claim due to a fallen tree. The initial consulting firm **indicated** a larger than expected area with additional damage due to subsequent mold growth. **Independent** sampling and **data** interpretation confirmed the growth of mold but also indicated the types to be consistent with long-term moisture intrusion. Upon further structural investigation multiple sources of chronic moisture intrusion were documented due to the property owners failure to properly maintain the structure. The insurance company promptly denied the mold claim.
- **Residential Homebuilder, New Construction:** Residential homebuilder consulted with ECS due to excessive moisture accumulation in a few basements of **newly** constructed homes. Temperature and relative humidity monitoring of the environment were used to define the sources of the moisture. **Successful** mitigation recommendations were made after the source was identified as failed **vapor** barriers due to a short term cost savings **change** of the product. ECS identified the problem and the client was able to **make** immediate changes to the production **plans**.

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Field Equipment

- Hygrometers
- Thermometers
- Balometers
- Manometers
- Smoke Pencils
- Tracer Gases
- Velometers
- Laser Particle Counters
- Digital Thermal Imaging System
- Moisture Meters
 - Intrusive
 - Non-Intrusive
- Noise dosimeters
- Fiber Optic Inspection Tools
- Microscopes - Brightfield
- High flow sampling pumps
- Low flow sampling pumps
- Anderson N6 microbial samplers
- Allergenco spore and particulate samplers

- Photography
 - **Digital**
 - 35mm
 - **Digital Video**
- Media
 - Microbiological
 - Allergen
 - Chemistry

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Laboratory Resources

Environmental Microbiology Laboratory, Inc.

Environmental Microbiology Laboratory Accreditation Program (EMLAP)
Environmental Microbiology Proficiency Analytical Testing (EMPAT)
Program

Johns Hopkins University DACI Reference Laboratory

CLIA Licensure

IBT Reference Laboratory, Inc.

Interstate Laboratory License (CLIA) #17D0448989
Medicare Provider ID# 17L0008078
New York State Department Health #4115817746A3
State of Maryland #577
State of Florida #800001992
State of California Department of Health Services ID# COS800043
Commonwealth of Pennsylvania Department of Health #026790
State of Rhode Island #00308

DataChem Laboratories, Inc.

National Institute of Standards Technology (NIST)/National Voluntary
Laboratory Accreditation Program (NVLAP) for Bulk Asbestos
National Institute of Standards Technology (NIST)/National Voluntary
Laboratory Accreditation Program (NVLAP) for Airborne Asbestos
American Industrial Hygiene Association (AIHA) Asbestos Analyst Registry
AIHA Performance Analytical Testing (PAT) Program
AIHA Environmental Lead PAT Program