



# Statement of Qualifications

**Pacific EH&S Services, Inc.**

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## Introduction

This statement of qualifications contains information on the services offered by Pacific EH&S Services, Inc (Pacific EH&S). Pacific EH&S is well established in California as a provider of high value environmental, health, and safety consulting services to a wide spectrum of clients in the maritime, aerospace, biomedical, construction, manufacturing, and petrochemical industries; as well to the insurance industry, building and home owners, and local governmental agencies.

Our management and field teams will consist of a large staff of in-house full-time professionals including Certified Industrial Hygienists, Certified Safety Professionals, Registered Environmental Assessors, DHS Certified Lead-Related Construction Inspectors/Assessors, State of California Certified Asbestos Consultants, and varying levels of field technicians who have extensive experience in the areas of industrial hygiene, safety, environmental air monitoring, asbestos and lead consulting, ergonomics, health and safety management, policy and procedure development, safety audits, indoor air quality investigations, health and safety training, accident and claims investigations, expert witness testimony, and emergency response coordination.

A number of consulting firms compete in the environmental, health, and safety market in southern California. We have surveyed many of these companies and have concluded that our rates are competitive. In addition to having competitive rates, we have committed to provide superior customer service, better turnaround time on reports, and consistently higher quality reports and services. In order to distinguish ourselves from our competitors in this manner, Pacific EH&S maintains strong organization and management; attracts, trains, and retains high caliber professionals; and utilizes cutting-edge technologies.

This statement of qualifications includes the following information:

- Statement of services and capabilities
- Personnel Qualifications
- Project Experience

## Statement of Services and Capabilities

### Health and Safety Program Management

Pacific EH&S senior level professionals have extensive experience in the health and safety industry and provide a variety of services to assist clients in their efforts to comply with applicable health and safety regulations and to provide a safe and healthful workplace for their employees. To this end, Pacific EH&S personnel review, assess, and make revisions as deemed necessary to existing policies and programs; develop newly required policies and programs; and assist in the overall implementation of such programs. Such services often include the provision of necessary training to affected employees, as well as the presentation and introduction of revised or new policies/programs to client management and/or supervisory personnel. Our policies and programs are intended to meet applicable rules and regulations, and have included the following topics:

<b>Aerial Lifts</b>	<b>Floor Operated Cranes</b>
<b>Asbestos Operations and Maintenance</b>	<b>Hearing Conservation</b>
<b>Hazard Communication</b>	<b>Injury &amp; Illness Prevention Program</b>
<b>Bloodborne Pathogens</b>	<b>Lead</b>
<b>Chemical Hygiene Plan</b>	<b>Lockout/Tagout</b>
<b>Confined Space Entry</b>	<b>Medical Surveillance</b>
<b>Community Right-To-Know</b>	<b>Personal Protective Equipment</b>
<b>Defensive Driver</b>	<b>Process Safety Management</b>
<b>Drug Testing</b>	<b>Respiratory Protection</b>
<b>Emergency Action Plans</b>	<b>Trenching and Excavation</b>
<b>Ergonomics</b>	<b>Pesticides</b>
<b>Fall Protection</b>	<b>Powered Industrial Trucks</b>

Pacific EH&S safety professionals also conduct occupational safety audits that involve accident record review, policy and procedure review, and facility inspections for the purposes of identifying unsafe acts and conditions and ensuring compliance with existing policies and programs, as well as applicable rules and regulations. Typical concerns include machine guarding, fire prevention, emergency evacuation procedures, storage of hazardous materials, work station design, lifting hazards, proper placement of emergency equipment, elevated platform safety, confined space entry, forklift safety, welding hazards, and the use of personal protective equipment. Relevant information pertaining to our observations, applicable regulatory citations, recommended actions, and objective corrective action deadlines are recorded and appropriately documented.

## Statement of Services and Capabilities (Continued)

### Health and Safety Training

Pacific EH&S offers a variety of health and safety training courses which have been tailored to meet the specific needs of our clients based on the input from client representatives, observations of work practices, etc. All such training is based on applicable regulatory guidelines, and is conducted by personnel with extensive experience, both in the field and in front of the classroom, on related topics.

Typically, our training programs are presented in a lecture-type format using Microsoft PowerPoint, video, and other visual aids, and training manuals and/or relevant handouts are provided to all attendees. Classroom participation is always encouraged, and participants are given the opportunity to perform practical hands-on exercises. Such programs may be presented at the Pacific EH&S office, at our clients' training facilities, or in the field. Where applicable, certificates are provided to those who have successfully passed courses (i.e. Hazardous Waste Operations and Emergency Response), and upon request, can be made available to participants who have attended any of our other courses.

Pacific EH&S also offers computer based training (CBT), which is rapidly becoming the preferred training approach for many of our clients.

Training programs offered by Pacific EH&S cover a wide variety of topics, including, but not limited to, the following:

<b>Asbestos</b>	<b>Bloodborne Pathogens</b>
<b>Hazard Communication (Worker Right-To-Know)</b>	<b>Hazardous Waste Operations and Emergency Response</b>
<b>Confined Space Entry</b>	<b>Hearing Conservation</b>
<b>Lead</b>	<b>Injury and Illness Prevention Program</b>
<b>Drilling Hazards</b>	<b>Decontamination</b>
<b>Emergency Preparedness</b>	<b>Respiratory Protection (Air- Purifying and Supplied-Air)</b>
<b>Emergency Response</b>	<b>Office Safety</b>
<b>Ergonomics</b>	<b>Personal Protective Equipment</b>
<b>First Aid and CPR</b>	<b>Pesticides</b>
<b>Forklift Safety</b>	<b>Ionizing and Non-Ionizing Radiation</b>

## **Statement of Services and Capabilities (Continued)**

### **Industrial Hygiene Surveys**

Pacific EH&S offers a wide variety of industrial hygiene services designed to identify, evaluate, and control unhealthful exposures to chemical and physical stressors in industrial, office, and outdoor environments.

Pacific EH&S Industrial Hygienists conduct air monitoring surveys to assess occupational exposures to varying chemical contaminants. Airborne contaminants of concern have included benzene, methylene chloride, ethylene oxide, and other hydrocarbon compounds; lead, beryllium, and other metals; pesticides; inorganic and organic acids; dusts; asbestos; and bioaerosols such as bacteria, yeasts, and molds. All air samples are collected and handled in accordance with Occupational Safety and Health Administration, National Institute for Occupational Safety and Health (NIOSH), or other recognized and validated methods, and all sample analyses are performed at appropriately qualified laboratories (i.e. laboratories that are accredited by the American Industrial Hygiene Association through successful participation in the NIOSH Proficiency Analytical Testing Program). When deemed appropriate, direct-reading instrumentation is used to provide supplementary exposure potential data (i.e. peak level data). All air sampling and monitoring instruments utilized are calibrated in accordance with applicable analytical methods and the manufacturers' specifications, and all associated records are maintained at Pacific EH&S office.

Our professional staff members also perform surveys to assess personal exposures to physical agents such as noise, ionizing and non-ionizing radiation, extreme air temperatures, relative humidity, and illumination.

Upon completing industrial hygiene surveys and compiling the resultant data, comprehensive reports are prepared to summarize the survey findings. Such reports typically include background information; observations of monitored operations and work practices, environmental conditions, engineering controls, and personal protective equipment use; a synopsis of the sampling and analytical strategies utilized; a summary of the resultant data in light of applicable exposure guidelines (i.e. OSHA permissible exposure limits, the American Conference of Governmental Industrial Hygienists threshold limit values, NIOSH recommended exposure limits, and/or foreign standards); conclusions; and, when deemed appropriate, recommendations concerning issues such as regulatory compliance, engineering controls, work practice modifications, employee training, medical surveillance, and the use of personal protective equipment.

## **Statement of Services and Capabilities (Continued)**

### **Indoor Air Quality Studies**

Indoor air quality concerns have become more common since the inception of the "energy efficient" building. The indoor air quality within business office buildings and other structures, particularly those built following the energy crisis of the 1970s, may be adversely affected by a variety of conditions and factors including inadequate general ventilation system design and/or operation, insufficient outside air intake rates, emission of contaminants from building materials and furnishings, stagnant water sources, tobacco smoking, and the use of solvents, pesticides, and other chemical substances.

Pacific EH&S offers a full range of services devoted to investigating the specific cause(s) of compromised air quality within structures. Our staff of occupational health professionals and engineers are well qualified to identify sources of odors, determine concentrations of airborne and/or surface contaminants, interview building occupants to evaluate exposure potentials and episode trends, perform ventilation system analyses, and conduct literature search and evaluate the potential for disease clusters.

Our investigations typically involve the collection of various air samples, and at times may include the collection of bulk and wipe samples to assess surface contaminants. Common indoor air pollutants have included volatile organic compounds, formaldehyde, pesticides, asbestos, dusts, carbon monoxide, carbon dioxide, nicotine, and others. Air contaminant concentrations are determined using OSHA, NIOSH, or other appropriate analytical methods, as well as through the use of direct-reading instrumentation, and all sample analyses are performed at appropriately qualified laboratories. In addition to sample collection activities, other direct-reading instruments are typically used to evaluate air temperature and relative humidity data, illumination levels at work stations and common areas, and ventilation system volumetric flow rates.

Comprehensive reports are prepared upon completion of such studies that typically include background information; observations of operations and work practices, environmental conditions, and ventilation system design; a synopsis of the sampling and analytical strategies utilized; a summary of the sample results in light of applicable regulations and/or relevant guidelines (i.e. OSHA PELs; the American Conference of Governmental Industrial Hygienists threshold limit values; the American Society of Heating, Refrigerating, and Air-Conditioning Engineers, Inc. recommendations for indoor environments; etc.); conclusions; and where applicable, recommendations.

## **Statement of Services and Capabilities (Continued)**

### **Noise Exposure Monitoring and Control Surveys**

Pacific EH&S professionals conduct sound level surveys and noise exposure monitoring in varying occupational and community environments. Such surveys are performed using noise monitoring equipment that includes audio dosimeters and/or sound level meters. The dosimeters allow us to record employee 8-hour time-weighted average exposures to noise in connection with specific operations for comparison to applicable exposure guidelines, and sound level meters provide useful information such as peak sound level values associated with specific operations.

Upon completion of a noise survey, a comprehensive report is prepared that includes background information; observations of specific work activities and operations, and environmental conditions; a description of the monitoring methodology; a discussion of the results in light of applicable regulations (i.e. OSHA exposure guidelines); conclusions; and where appropriate, recommendations pertaining to issues such as engineering controls (i.e. shielding, equipment maintenance and/or modification, and damping), personal protective equipment, employee training, and hearing conservation programs. With published absorption coefficient data, our engineers also have the capability to calculate Room Constant values, which can then be used in determining the feasibility of acoustic treatments.

### **Site Health and Safety Plan Preparation**

Pacific EH&S Certified Industrial Hygienists, Registered Environmental Assessors, and senior level professionals develop Site Health and Safety Plans for clients in connection with activities at sites where hazardous materials and/or hazardous wastes are known and/or are suspected to exist. Such plans, which are comprehensive and are based on the OSHA Hazardous Waste Operations and Emergency Response regulation, are intended to provide hazard information associated with specific site operations, and to present specific means for protection against such hazards. To this end, our Health and Safety Plans typically include an introduction that contains background information about the site; an organizational structure that outlines specific individual health and safety responsibilities; a hazard assessment that contains pertinent analytical data, predictable types and estimated quantities of contaminants, general hazard classifications of the contaminants, site health and safety hazards, and applicable exposure guidelines; a hazard mitigation section that presents specific means for protection against anticipated hazards; an exposure monitoring plan; personal protective equipment requirements; medical surveillance requirements; training requirements; site control/work zone needs; decontamination procedures; an emergency contingency plan; and record keeping requirements.



## **Statement of Services and Capabilities (Continued)**

### **Asbestos Consulting**

Pacific EH&S professionals have extensive experience in the asbestos consulting industry, including bulk sampling and inspection surveys, site surveillance and air monitoring during asbestos abatement operations, preparation of bid specification documents in connection with asbestos abatement operations, emergency response coordination, preparation of Operations and Maintenance (O&M) Plans, and the implementation and management of O&M Plans. All such services are performed by State of California Certified Asbestos Consultants, or by State of California Certified Site Surveillance Technicians working under the direction of a State of California Certified Asbestos Consultant.

### **Lead Consulting**

Pacific EH&S professionals have extensive experience in the lead consulting industry, including the performance of bulk sampling and inspection surveys, site surveillance and air monitoring in connection with operations involving lead-containing materials and/or lead-based paints, preparation of bid specification documents in connection with lead-related work, and the implementation and management of Lead Management Programs. All such services are performed by or under the direction of State of California, DHS Certified Lead-Related personnel.

### **Expert Witness Consultation and Testimony**

Pacific EH&S offers expertise in the fields of safety, health and safety training, accident/incident investigation and reconstruction, industrial hygiene, asbestos, lead, analytical methods, hazardous waste, and environmental assessments. Our senior staff members are qualified to consult as expert witnesses on cases involving industrial accidents, injuries and illnesses; chemical exposures; hazardous waste and asbestos material handling; and site assessments in connection with real estate transactions, as well as OSHA, EPA, local air quality, and foreign regulations.

## **Personnel Qualifications**

Pacific EH&S management team has over 75 years of experience in the environmental, health, and safety consulting industry, and our diverse staff of professionals includes Certified Industrial Hygienists, Certified Safety Professionals, Registered Environmental Assessors, State of California Certified Asbestos Consultants, and DHS Interim Certified Lead-Related Construction Inspectors/Assessors and Project Monitors.

Ongoing professional development is consistently emphasized at Pacific EH&S via hands-on training, continuing education, and interactive performance reviews. In addition, Pacific EH&S professionals keep apprised of regulatory changes, current trends, and new technologies pertaining to the environmental, health, and safety industry by routinely reviewing new and revised regulations, by reading health and safety newsletters and magazines, and by attending training programs/seminars in specialty areas.

Qualifications and resumes of departmental and project management personnel are provided below.

### **Timothy J. Morrison, Principal and Certified Industrial Hygienist**

ABIH-Certified Industrial Hygienist with graduate degree in Environmental and Occupational Health. Experienced in the areas of industrial hygiene, safety, environmental air monitoring, health and safety management, and radiation safety. Professional responsibilities include identifying, evaluating, and controlling hazardous conditions in varied occupational and non-occupational environments. Relevant project experience includes health and safety program and policy development on a wide variety of topics, development and provision of health and safety training on programs on a wide variety of topics, and emergency response coordination.

### **Matthew W. Durlene, Principal**

Health and safety professional with Bachelors of Arts degree in Environmental Studies. Experienced in the areas of industrial hygiene, health and safety program management, asbestos, and lead. Professional responsibilities include identifying, evaluating, and controlling hazardous conditions in varied occupational and non-occupational environments. Relevant project experience includes managing the safety program for a Los Angeles area municipal government, ongoing health and safety program and policy development on a wide variety of topics, ongoing development and provision of health and safety training programs, and emergency response coordination.

### **Michael Nagaoka, Manager - Safety and Industrial Hygiene Services**

Safety Professional and Industrial Hygienist with a degree in Health Science. Experienced in the areas of health and safety management, with

## **Personnel Qualifications (Continued)**

an emphasis in regulatory compliance, auditing, and project oversight. Responsibilities include managing environmental, safety and health projects at petrochemical, aerospace, manufacturing, and biotech facilities. Responsible for oversight and implementation of site safety plans, wastewater treatment plans, materials management plans, and emergency response programs.

### **Mike Kusz, Senior Safety Professional**

Senior-level Safety Engineer with a Bachelors of Science in Science, Math and Technology, and a minor in Metallurgy. Experienced in the areas of health, safety, auditing, emergency response, loss prevention, industrial hygiene, environmental compliance, general regulatory compliance issues, plant process operations, supervisory development, and training.

Knowledgeable in the management of environmental, health and safety programs and departments, process safety management, human resources management, IIPP development and management, and risk management and prevention program development. Additional areas of expertise in the areas of needs assessment, supervisory and employee safety training, loss prevention and control, accident and injury reporting and investigation procedures, field and compliance auditing, use of safety equipment and instrumentation, and principles of safety analysis.

Able to interpret and explain federal, state, and local laws, codes, and regulations and apply them to meet client needs; able to design, develop, and implement safety and health training programs; able to analyze evidence to determine accident causes; able to prepare clear and concise reports; able to establish and maintain effective working relationships with all levels of staff and management.

## **Project Experience**

Of the many projects Pacific EH&S management team has been involved with in the past, the following few examples have been selected to represent our professional experience.

### **Industrial Hygiene and Training**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Mike Nagaoka, Matthew W. Durlene  
**Project Dates:** January 1995 to present

Pacific EH&S has a continuing contract to perform all required industrial hygiene services, and to conduct health and safety training on various topics, such as respiratory protection.

### **Health and Safety Professional Program Management**

**Client:** Confidential Port Authority  
**Client Contact:** Available upon request  
**Project Manager:** Matthew W. Durlene  
**Project Dates:** August 1996 to Present

Pacific EH&S has a continuing contract for the provision of a wide variety of health and safety program management services, including: the ongoing assessment of existing policies and programs, as well as the facilitation their implementation; the revision of existing policies and programs, as well as the development of new programs as needed; the coordination of employee health and safety training; the provision of training on various topics; the performance of safety audits; the review of accident investigation reports; record keeping; and the overall management of the safety program. To this end, Pacific EH&S acts as a liaison between the Port and the City Safety Manager, as well as between the Port and safety personnel from other city departments.

Pacific EH&S also performs various other technical services, including but not limited to, industrial hygiene surveys, asbestos and lead consulting, ergonomic evaluations, preparation of Site Health and Safety Plans, and emergency response coordination.

## **Project Experience (Continued)**

### **Industrial Hygiene, Asbestos Consulting, and Health and Safety Consulting Services**

**Client:** Available upon request  
**Client Contact:** Available upon request  
**Project Manager:** Timothy J. Morrison  
**Project Dates:** January 1998 to Present

Pacific EH&S has a continuing contract to perform asbestos program management, including the provision of related training, to perform all industrial hygiene surveys; to review, assess, and prepare health and safety policies; to conduct health and safety training on topics such as supervisor training, asbestos, hazard communication, injury and illness prevention programs, lockout/tagout, and beryllium safety.

### **Lead Consulting and Site Surveillance**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Timothy J. Morrison  
**Project Dates:** May-July 1998

Pacific EH&S prepared a Health and Safety Plan for Aerially Deposited Lead for a large Cal-Trans freeway expansion project. Employee training was provided prior to project commencement in lead-contaminated areas in accordance with the Health and Safety Plan and applicable Cal-OSHA regulations. During various phases of work, Pacific EH&S performed personal and area air monitoring to determine employee exposures to lead and to establish personal protective equipment requirements.

### **Health and Safety Plan Preparation**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Matthew Durlene  
**Project Dates:** 1998 to present

Pacific EH&S prepared Site Health and Safety Plans in connection with survey, maintenance, and construction activities at hazardous remediation sites. Such plans, which were based on OSHA Hazardous Waste Operations and Emergency Response regulation, contained hazard information associated with anticipated site operations, and presented specific means for protection against such hazards.

## **Project Experience (Continued)**

### **Asbestos Consulting and Site Surveillance**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Matthew W. Durlene  
**Project Dates:** January/February 1998

Pacific EH&S performed a comprehensive asbestos-containing materials (ACM) following a fire-related loss at a strip mall. Following the survey, the bulk samples were grouped based on the materials they represented (e.g. acoustical ceiling tile), and were submitted for asbestos analysis to a laboratory accredited by the National Institute of Standards and Technology through participation in the National Voluntary Laboratory Accreditation Program. Analyses were performed by polarized light microscopy (PLM) with dispersion staining using the method prescribed in 40 CFR, Part 763, Subpart F, Appendix A (AHERA).

Upon receipt of the analytical data, Pacific EH&S provided a preliminary table that summarized our findings to assist the client in the initiation of an appropriate cleanup response. Subsequent to that, a comprehensive report, outlining our observations, sampling strategy, sample results, conclusions, and recommendations, was provided.

During emergency ACM and associated debris clean-up procedures, Pacific EH&S provided air monitoring in connection with a Procedure 5 application that was filed and approved by the South Coast Air Quality Management District, as required in Rule 1403 (d)(1)(D)(v).

### **Asbestos Consulting and Industrial Hygiene**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Matthew Durlene  
**Project Dates:** June 1994 to Present

Pacific EH&S has a continuing contract to perform asbestos program management services, including the provision of related training. In addition, industrial hygiene surveys and indoor air quality studies are performed as needed.

## **Project Experience (Continued)**

### **Noise Consulting Services**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Timothy J. Morrison  
**Project Dates:** 1998 to present

Pacific EH&S is conducting comprehensive noise surveys in connection with the operation of test engines. Sound pressure levels were recorded at approximate employee hearing zone height during monitored operations and employee 8-hour time-weighted average dosimetry has been performed. Resultant data have been evaluated in light of the State of California, Department of Industrial Relations, Division of Occupational Safety and Health (Cal-OSHA) noise exposure regulations and engineering calculations were performed to determine the feasibility of acoustical controls.

### **Indoor Air Quality Investigation**

**Client:** Confidential  
**Client Contact:** Available upon request  
**Project Manager:** Timothy J. Morrison  
**Project Dates:** January 1998

Pacific EH&S conducted an exhaustive indoor air quality investigation at a State of California occupied facility in response to reported employee complaints of varying adverse health effects that they believed were associated with past remodeling that had occurred in the building.

During the investigation, a comprehensive evaluation of the heating, ventilation, and air-conditioning system was performed and air samples were collected at representative locations within the facility to assess airborne concentrations of volatile organic compounds (VOCs) and dust. The samples were subsequently analyzed by appropriately qualified laboratories. In addition, direct-reading instruments were utilized to determine airborne VOC, total aerosol, carbon dioxide, and carbon monoxide levels, as well as temperature and relative humidity. Following the survey, the direct-reading results were downloaded into appropriate databases and the resultant data were evaluated by Pacific EH&S. All results, with supporting information, graphic presentations, and conclusions were presented in a comprehensive final report.