

ENVIRONMENTAL & AIR QUALITY MONITORING

Smoke from a major landfill fire can threaten the health of fire fighters. Leachate generated by fire fighting water often presents major environmental challenge, especially if the landfill is located near aquatic habitat. Our team adopts fire fighting methods that do not apply excessive amounts of water to fires. When practical, we strive to recycle water and foam agents to minimize impacts on the receiving environment.

EXPERT TESTIMONY

With more than forty years of combined fire fighting experience, Fire Lieutenant and Waste Management Engineer, Todd Thalhamer and Sperling Hansen Associates President, Dr. Tony Sperling, are uniquely qualified to provide solid advice on fire extinguishment and expert testimony on a full range of landfill fire issues.

CONTACT US

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PLEASE VISIT OUR WEBSITE:
www.landfillfire.com

OUR TEAM

Dr. Tony Sperling contributes over 15 years of landfill engineering and fire control experience to the LandfillFire Control Inc. Team. His primary responsibilities on projects entail fire characterization, environmental protection and site reclamation. As well, Dr. Sperling leads LandfillFire Control Inc. fire prevention group, providing fire safety audit and emergency planning services.

Todd Thalhamer, P.E. currently holds positions at CalRecycle, the US EPA and is President of Hammer Consulting Services. Mr. Thalhamer also is a Lieutenant at the El Dorado Hills Fire District and acts as a fire officer for the Fire Department, supervising fire crews during responses. Mr. Thalhamer performed Incident Commander duties for the longest burning fire in the US and assisted the US EPA Emergency Response Team in Guam during a fire fire.

Nathalie Maurer, P.Eng., has been involved with more than 50 projects that include landfill design, volumetric analysis, environmental assessment, design and operation planning, closure and post-closure planning as well as economic analysis. Nathalie has also worked closely with Dr. Sperling in preparing numerous landfill fire risk reduction plans and completing landfill fire training courses.

David Kwick works as an Environmental Scientist with SHA and is also part of the LFCI fire prevention group. Mr. Kwick has been involved in a large array of waste management projects, ranging from environmental monitoring, QA/QC site supervision and site investigations. David also has experience in conducting landfill fire safety audits, coordinating and preparing fire risk reduction plans and fire safety training materials. Mr. Kwick is SHA's manager of Health and Safety.

LANDFILLFIRE CONTROL INC.



IF A LANDFILL FIRE OCCURS AT YOUR FACILITY WILL YOU BE READY?

Fast and efficient control of landfill fires, often it calls for the services of technical experts that specialize in this field. LandfillFire Control Inc. provides these services world wide.

SOME STATISTICS

- 2,200 landfills in the US.
- 8,300 dump or sanitary landfill fires reported in the US. each year (National Fire Incident Records)
- Most fires are small in scale and easily managed extinguished
- One in every 200 fires escalate to a major and very expensive incident

ABOUT US

Landfill Fire Control Inc (LFCI) was formed by Sperling Hansen Associates (SHA), a Canadian Landfill Engineering Consultancy, in the late 1990's. SHA is an established company that specializes in all aspects of landfill engineering, operations and monitoring. This knowledge is invaluable when developing extinguishment strategies and managing environmental impacts associated with landfill fires.

Landfill Fire Control Inc. is large enough to do the job, small enough to really care. We work to the principle of client immersion whereby our fire management team works closely with each client and regulators to ensure that the project outcome is what the client needs and expects.

OUR EXPERTISE & SERVICES

- Fire Prevention & Response Plans
- Fire Safety Training
- Forensic Investigations
- Fire Monitoring
- Fire Extinguishment Strategies
- Fire Safety Audits
- Environmental & Air Quality Monitoring
- Expert Testimony

FIRE PREVENTION AND RESPONSE PLANS

A comprehensive, well rehearsed fire response plan is invaluable when a fire incident occurs. Knowing what to do and who to call empowers your staff to manage fire incidents before they develop into out of control infernos. Starting with a comprehensive template, our team will work with your management and front line staff to develop a plan that will work.

FIRE SAFETY TRAINING

Landfill Fire Control Inc. provides on site training for landfill and firefighting personnel complete with manuals and handouts. Training is divided between classroom instruction and practical field exercises. All technical instruction is presented by senior Landfill Fire Control Inc. staff who have the knowledge and case history background to make the training beneficial for all levels of solid waste professionals.

FORENSIC INVESTIGATIONS

Determining whether a fire was caused by spontaneous combustion, excessive draw on a gas well, arson, a hot load or some other cause is essential once the fire is successfully extinguished. A review of the incident, site conditions and operational history often present evidence to the true cause of a fire incident. Steps can then be taken to reduce the likelihood of a similar incident starting again.

FIRE MONITORING

Monitoring of landfill fire incidents is often required to aid in characterizing the fire and developing a practical extinguishment plan. Our team is skilled in the installation and use a sub-surface monitoring instrumentation for temperature and landfill gas composition. Such monitoring programs are vital, especially when oxygen suppression is used to gradually extinguish a fire.

FIRE EXTINGUISHMENT

There is only one best way to fight each landfill fire, dictated by site conditions, health risks and environmental sensitivities. Making the wrong choice can jeopardize quick containment, often resulting in weeks to months of delay, undesirable environmental impacts and increased fire control costs. Our staff have successfully extinguished fires using the strategies listed below.



1. Oxygen suppress
2. Complete overhaul
3. Water application
4. Foam injection
5. Accelerated burns

FIRE SAFETY AUDITS

Landfill Fire Control Inc. offers a comprehensive audit service that evaluates more than 200 fire and safety related aspects of landfill operations. Key elements of our audit services include:

- emergency response plan
- fire fighting equipment
- staff training
- fire breaks
- fire guards
- confined space hazards
- explosive hazards
- communications
- emergency command structure

Clients receive a documented report containing recommendations for fire risk reduction.