



Environmental Management Newsletter

POLLUTECH ENVIRONMENTAL CONSULTANTS are independent Canadian consulting firms providing services nationally and internationally in the fields of environmental engineering, chemistry and biology.

Selected Areas of Expertise:

CORPORATE SERVICES

- Plant Audits, ISO 14000
- Property Transfer Evaluations
- Decommissioning Studies
- Environmental Risk Assessments
- Expert Testimony
- Arbitration and Mediation
- Corporate Consulting & Advisory Services

ENVIRONMENTAL GEOLOGY

- Investigation of Contaminated Groundwater and Soils
- Drilling programs
- Geophysical Investigations
- Computer Modeling

WORKPLACE ENVIRONMENT

- Indoor Air Quality Assessments
- Industrial Hygiene & Occupational Health
- Employee Training Programs

PROCESS EVALUATIONS

- Effluent Treatment
- Water Treatment
- Atmospheric Discharges
- Hazardous Industrial Wastes
- Waste Recovery & Utilization

NATURAL ENVIRONMENT

- Biological Monitoring
- Environmental Assessments
- Water Resource Evaluations
- Computer Modeling
- Phytoecology

TESTING FACILITIES

- Laboratory Services
- Bench Scale Testing
- Pilot Plant Evaluations
- Analytical Services
- Toxicity Testing
- Great Lakes Testing Facility



ISO 14001 Environmental Management Systems

ISO 14001 is the environmental management system (EMS) standard and the fundamental ISO document. It is the only registerable (specification) standard of the 14000 series. ISO 14001 uses an approach to managing environmental impacts that focuses on the quality of the process (the how's) rather than the command-control requirements (the what's). The standard outlines the structure for an ISO 14001 based EMS (outlined below) but it is up to each company to determine the content of that structure.

Requirements of ISO 14001:

Your organization must commit to establishing and maintaining an EMS that follows the principles and guidelines associated with the ISO 14001 standard. The key elements of ISO 14001 are:

- top management support - Allocation of the appropriate resources (human, technical, financial) and assurance of corporate wide commitment to the EMS;
- documented, communicated, implemented and maintained environmental policies, procedures, objectives and targets that have clear commitments to continual improvement, pollution prevention and regulatory compliance;
- procedures and Work Instructions that reflect the nature of your environmental policies and the environmental aspects and impacts of your activities, products or services (including Emergency Preparedness and Response);
- procedures for the identification, maintenance and disposition and protection of EMS documents;
- procedures for the communications of the EMS to employees, clients, contractors, suppliers, and other interested parties;
- clearly defined, documented and communicated roles, responsibilities and authority for those whose work may have significant environmental impacts;
- procedures to ensure that training, competency checks and environmental awareness are continually reviewed and/or updated;
- a procedure to monitor (review, evaluate, record) the EMS to ensure conformance with ISO 14001 requirements;
- procedures to perform timely corrective preventative actions that investigate the "root cause" of non-conformance; and



Pollutech Environmental
768 Westgate Rd, Oakville
Ontario, L6L 5N2

Pollutech Eviroquatics
704 Mara St., Point Edward
Ontario, N7V 1X4



Oakville Tel: (905) 847-0065
Sarnia Tel: (519) 339-8787



Oakville Fax: (905) 847-3840
Sarnia Fax: (519) 336-6965



www.pollutech.com
pkirby@pollutech.com



Environmental Management Newsletter

POLLUTECH ENVIRONMENTAL CONSULTANTS are independent Canadian consulting firms providing services nationally and internationally in the fields of environmental engineering, chemistry and biology.

Selected Areas of Expertise:

CORPORATE SERVICES

- Plant Audits, ISO 14000
- Property Transfer Evaluations
- Decommissioning Studies
- Environmental Risk Assessments
- Expert Testimony
- Arbitration and Mediation
- Corporate Consulting & Advisory Services

ENVIRONMENTAL GEOLOGY

- Investigation of Contaminated Groundwater and Soils
- Drilling programs
- Geophysical Investigations
- Computer Modeling

WORKPLACE ENVIRONMENT

- Indoor Air Quality Assessments
- Industrial Hygiene & Occupational Health
- Employee Training Programs

PROCESS EVALUATIONS

- Effluent Treatment
- Water Treatment
- Atmospheric Discharges
- Hazardous Industrial Wastes
- Waste Recovery & Utilization

NATURAL ENVIRONMENT

- Biological Monitoring
- Environmental Assessments
- Water Resource Evaluations
- Computer Modeling
- Phytoecology

TESTING FACILITIES

- Laboratory Services
- Bench Scale Testing
- Pilot Plant Evaluations
- Analytical Services
- Toxicity Testing
- Great Lakes Testing Facility



ISO 14001 Environmental Management Systems, Continued

- Provisions for top management to review *all* aspects of the EMS on a regular basis (usually yearly) though the use of internal system audits.

What Are the Benefits of ISO 14001:

It is difficult to summarize the many benefits of ISO 14001, as they are numerous and unlimited. We believe that ISO 14001 certification will be a requirement of all of our clients, nationally and internationally, within the next 5 years. That is why we have opted to strive for our own certification by July 31, 1997. For those that are not convinced, here is a selection of "reasons" for your consideration:

- provides assurances to stakeholders that your business is environmentally responsible;
- provides a platform to demonstrate commitment to environmental awareness, compliance, waste reduction and continual improvement;
- promotes consistency and predictability;
- provides a *means* to reduce environmental liability and risk and improve business performance;
- encourages cooperation between government and industry (potential for the reduction or 'relaxing' of inspections and other requirements);
- provides a *means* to show "due diligence";
- gain access to or sustain a customer base; and
- provides a means to attain a marketing edge over non-registered or undeclared companies.

What Are The Limitations of ISO 14001:

ISO is not the perfect answer to all of you environmental needs. There are key limitations that you need to be aware of, but the process will help you understand the need for environmental management and the limitations that remain. Adopting the ISO 14001 standard:

- Will not guarantee compliance (ie, no spills, no unwarranted emissions) or free companies from compliance requirements.
- Will not provide immunity from prosecution and liability.

For more information contact Richard Laughton, President (laughton@pollutech.com) or Paul Kirby, ISO 14000 Coordinator, (pkirby@pollutech.com) by phone or E-mail or visit our ISO 14000 web page for further information on the ISO series of standards at <http://www.pollutech.com/iso>.



Pollutech Environmental
768 Westgate Rd, Oakville
Ontario, L6L 5N2

Pollutech Eviroquatics
704 Mara St., Point Edward
Ontario, N7V 1X4



Oakville Tel: (905) 847-0065
Sarnia Tel: (519) 339-8787



Oakville Fax: (905) 847-3840
Sarnia Fax: (519) 336-6965



www.pollutech.com
pkirby@pollutech.com