
Environmental Management Newsletter

Welcome to Pollutech's Environmental Management Newsletter. The newsletter focuses on new and proposed regulations which may affect your business operations as well as provide you with news briefs on various items of environmental concern.

Spill Prevention & Contingency Plans (O. Reg. 224/07)

In June 2007, Ontario Regulation 224/07 (Spill Prevention and Contingency Plans) came into affect under the Environmental Protection Act. The regulation states that every person to whom this regulation applies shall ensure that a spill prevention and contingency plan is developed and implemented for each plant referred to in subsection 3(1) of Ontario Regulation 222/07 (Environmental Penalties) made under the Act by September 1, 2008.

A spill prevention and contingency plan is required to be in place by September 1, 2008 for persons who own or operate a plant that:

- (a) is specifically listed in Table 1 of Ontario Regulation 222/07 (Environmental Penalties);
- (b) is described in section 3 of Ontario Regulation 560/94 (Effluent Monitoring and Effluent Limits – Metal Mining Sector), made under the Act, as a plant to which that regulation applies;
- (c) discharges sewage, other than storm water, to a surface watercourse or to a sewage works that is privately owned, and,
 - (i) processes chemicals into organic chemicals, plastics, or synthetic fibres (organic chemical manufacturing sector),
 - (ii) processes, manufactures, packages or blends inorganic chemicals (inorganic chemical sector),
 - (iii) mines, excavates, extracts or processes as a product graphite, gypsum, silica (quartzite), salt, talc, nepheline syenite or trap rock (industrial minerals sector),
 - (iv) mines, excavates, extracts or processes limestone, dolomite, or sandstone on real property, and manufactures products on the real property using the limestone, dolomite, or sandstone (industrial minerals sector),
 - (v) produces portland clinker, cement, lime or magnesium (industrial minerals sector),
 - (vi) produces electricity through fossil-fuelled thermal generation, nuclear-powered thermal generation, and plants associated with nuclear plants including heavy water plants and nuclear complex services (electric power generation sector),
 - (vii) produces newsprint, fine papers, coated papers, paperboard, kraft pulp, linerboard, corrugating medium, kraft paper, tissue, groundwood paper, boxboard, or container board (pulp and paper sector),
 - (viii) refines crude oil to produce petroleum products (petroleum sector),
 - (ix) manufactures metallic objects by cooling molten metal in a mould or die (metal casting sector), or
 - (x) uses iron ore or recycled material to produce steel (iron and steel manufacturing sector);

The O. Reg. 224/07 legislation can be viewed at:

http://www.e-laws.gov.on.ca/html/source/regs/english/2007/elaws_src_regs_R07224_e.htm and
<http://www.ene.gov.on.ca>

Air Pollution Regulation (O. Reg. 419/05)

The new regulation adopted in November 2005 phases in stricter air quality standards by phasing out old dispersion modeling programs outlined in O. Reg. 346 and replacing them with more advanced air dispersion models.

There is potential for facilities that are currently in compliance with Regulation 346 to exceed the new standards outlined in Regulation 419 using the updated dispersion models. For this reason, the MOE has permitted a phased-in approach for all industries, based on their facility NAICS code, to evaluate compliance using the new “approved” dispersion models (i.e. AERMOD) and, if necessary, request an “Alteration of Standards” if they are unable to meet the new regulatory point of impingement limits. The following schedule outlines when a facility can evaluate compliance using the updated dispersion models and request an “Alteration of Standard” if required:

- Schedule 4 Facilities – February 1, 2007 to October 31, 2008.
- Schedule 5 Facilities – February 1, 2010 to October 31, 2011.
- All other Facilities – February 1, 2013 – October 31, 2017.

Schedule 4: Target Sectors for 2010

NAICS Code	Sector Description
2122	Metal Ore Mining
221112	Fossil-Fuel Electric Power Generation
324110	Petroleum Refineries
3251	Basic Chemical Manufacturing
3252	Resin, Synthetic Rubber, and Artificial and Synthetic Fibres and Filaments Manufacturing
3311	Iron and Steel Mills and Ferro-Alloy Manufacturing
331410	Non-Ferrous Metal (Except Aluminum) Smelting and Refining
3315	Foundries

Schedule 5: Target Sectors for 2013

NAICS Code	Sector Description
3221	Pulp, Paper and Paperboard
324190	Other petroleum and coal product manufacturing
325	Chemical manufacturing
326150	Urethane and Other Foam Product (except Plytrene) Manufacturing
3279	Other Non-Metallic Mineral Product Manufacturing
331	Primary Metal Manufacturing
332	Fabricated Metal Product Manufacturing
336	Transportation Equipment Manufacturing
5622	Waste Treatment and Disposal

All other industries must comply with the new standards by 2020.

The O. Reg. 419/05 legislation can be viewed at:

http://www.e-laws.gov.on.ca/html/regis/english/elaws_regs_050419_e.htm and/or;

<http://www.ene.gov.on.ca>

Jurisdictional Screening Level (JSL) List

The Jurisdictional Screening Level (JSL) list was issued in February 2008 by the Ministry of the Environment (MOE) to provide a screening tool for airborne contaminants with no MOE Point of Impingement (POI) standards or guidelines under O. Reg 419/05.

This list was created in response to stakeholder requests to further streamline and expedite the process of assessing contaminants with no MOE standards or guidelines.

To read more about the JSL List please visit:

<http://www.ene.gov.on.ca/en/publications/forms/index.php#PartAir> and reference PIBS 6547e

REACH Regulation (EC) No 1907/2006

The REACH Regulation deals with the Registration, Evaluation, Authorization and Restriction of Chemical substances. The new law entered into force on 1 June 2007.

Under REACH, the new chemicals regulation of the European Union, **companies must pre-register most of their chemical substances between June 1 and December 1, 2008.**

If a manufacturer or importer of a chemical fails to pre-register by December 1, 2008 he **cannot continue manufacturing or importing** it until he has submitted a full REACH registration dossier.

The aim of REACH is to improve the protection of human health and the environment through the better and earlier identification of the properties of chemical substances. At the same time, innovative capability and competitiveness of the EU chemicals industry should be enhanced.

The REACH Regulation gives greater responsibility to industry to manage the risks from chemicals and to provide safety information on the substances. Manufacturers and importers will be required to gather information on the properties of their chemical substances, which will allow for their safe handling, and to register the information in a central database run by the European Chemicals Agency (ECHA) in Helsinki.

Further explanation of the REACH Regulation can be found at:

<http://eurlex.europa.eu/LexUriServ/LexUriServ.do?uri=CELEX:32006R1907:EN:NOT>

For more information on these and other environmental related topics please feel free to visit our website at: www.pollutechgroup.com or contact us directly at (905) 847-0065 and one of our staff members will be happy to assist you. For your convenience we have attached a copy of our business services page which provides a brief summary of the services we provide.



Pollutech Environmental Limited is an independent Canadian owned consulting firm providing services since 1969 in the fields of environmental engineering, process consulting, chemistry and biology.

Pollutech has carried out pioneering environmental consulting and science projects in a wide range of sectors, working with industry and governments at the federal, provincial and municipal levels. Industrial clientele include members of the petroleum and petrochemical industry, automotive industry, mining, milling and smelting industry, pulp and paper industry, textile industry, primary steel producers, food processing industry, organic and inorganic chemical industry, and a variety of secondary manufacturing industries.

Pollutech has undertaken international projects in over 60 countries across Europe, Asia, Central/South America, and Africa.

Pollutech has successfully completed over 1,000 Environmental Approvals and assisted industrial clients to comply with Provincial Orders issued by the Ministry of the Environment.

Professional services provided to our industrial and government clients include:

GeoEnvironmental

- Environmental Site Assessments
- Geotechnical Investigations and Instrumentation
- Soil & Debris Contaminant Studies
- Risk Assessments
- Site Remediation
- Contaminant Modelling
- Septic System impact assessment and design
- Contaminated Soil Recovery

Air Quality Emissions

- Source Emission Compliance Testing
- Odour Emissions Testing
- Continuous Emissions Monitoring
- Ambient Air Monitoring
- Advance USEPA Dispersion Modelling
- Air Pollution Control Equipment Assessments
- Industrial Ventilation Assessments

Water/Wastewater Process Evaluations

- Industrial Wastewater Treatability Testing
- Process Design of Treatment Systems
- Operations of Treatment Systems
- Process and Operations Troubleshooting
- Analytical Testing Services
- Operator Training for Treatment Systems

Waste and Hazardous Material Management

- Management and Disposal of Hazardous Wastes
- Asbestos, PCB and Mould Surveys/Abatement
- Hazardous Material Remediation

Workplace Environment Services

- Indoor Air Quality Assessments
- Industrial Hygiene & Occupational Health
- Employee Training Programs (TDGA, EMS)
- Waste Audits and Waste Reduction Plans
- Corporate environmental management programs

Litigation Support / Expert Testimony

- Cost Recovery Actions
- Environmental Compliance Issues
- Cost Allocation
- Responsible Party Identification
- Forensic and Historical Research
- Engineering/Scientific Technical Support
- Technical Expert Witness
- Regulatory Negotiation / Arbitration

Environmental Management Systems (EMS)

- EMS Implementation Planning & Support
- ISO 14001 EMS GAP Analyses
- Strategy and Policy Development
- EMS and 2nd Party Pre-Certification Audits
- Environmental Risk Assessments
- Regulatory Compliance Updates

Regulatory Compliance and Approvals

- Environmental Compliance Audits
- Environmental Assessments
- MISA Compliance Monitoring
- Certificates of Approval for Air, Water and Waste
- Environmental Reporting (NPRI & O. REG 127)
- Receiving Stream Outfall Dispersion Modelling

Climate Change/Greenhouse Gas Management (GHG)

- Emissions Testing
- Lifecycle GHG Assessments
- GHG Baseline Assessments
- Greenhouse Gas Credits

Natural Environment Services

- Biological Monitoring
- Water Resource Evaluations
- Phytoecology Assessments
- Toxicity Identification and Elimination (TIE) Studies
- Marine Diving & Investigations

Our consulting activities are complemented by full in-house laboratory facilities, which enhance our abilities to provide a full range of services from the design and bench scale testing stages through to pilot scale evaluation and full scale development.

Pollutech is a Qualified Verification Entity for providing Verification Services to ETV (Environmental Technology Verification) Canada Inc., is recognized by Environment Canada as a Marine Testing Facility, maintains Facility Security Clearance under Canada Public Works and Government Services, holds a Certificate of Authorization issued by Profession Engineers Ontario, and is a member of CAEAL (Canadian Association of Environmental Analytical Laboratories).

bringing clarity to your environment

768 Westgate Road, Oakville, Ontario, Canada L6L 5N2 • Tel: 905.847.0065 • Fax: 905.847.3840
Email: info@pollutechgroup.com • www.pollutechgroup.com