
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.

Changes to the National Pollutant Release Inventory (NPRI) and O. Reg 127/01 Reporting for 2008

There were minimal changes to the NPRI for the 2008 reporting year:

1. If your facility is engaged in *Titanium dioxide pigment production using chloride process* then reporting to the NPRI for Dioxin/Furan (D-F) and hexachlorobenzene is now required. This activity is limited to titanium dioxide pigment manufactured by the chloride process and not production using the sulphate process.
2. In 2007, the NPRI expanded the number of digits for Dioxin/Furan reporting from three digits to six digits following the decimal point.
3. Change to the Road Dust Example Calculation from the 2007 Guide.
4. If information on individual PAHs is available for some processes only, while only information on total PAHs is available for other processes, then information on individual PAHs in amounts ≥ 5 kg as well as information on total PAHs (excluding the individually reported quantities) should be reported. If the only information that is available is for total PAHs, then they should be reported under "*PAHs, total unspciated*" in OWNERS.

Facilities that in previous years did not meet the reporting criteria or were exempt should review their status to determine whether they are required to report for the current reporting year.

Reporting to the NPRI Program for the 2008 operating year is due on June 1, 2009.

For further information on NPRI reporting please visit the following website:

www.ec.gc.ca/inrp-npri/default.asp?lang=En&n=4A577BB9-1

No changes have occurred for the Ontario Regulation 127/01 Airborne Contaminant Discharge Monitoring and Reporting program for the 2008 operating year since February 20, 2008. Ontario Regulation 127 reports are due by June 1, 2009 for the 2008 operating year.

For further information on Reg 127 reporting please visit the following website:

www.ene.gov.on.ca/envision/monitoring/monitoring.htm

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.

Facilities that have a North American Industry Classification System (NAICS) Code outlined in Schedule 4 below are required to use the “approved” advanced air dispersion model programs for their Certificate of Approval (Air) Applications starting in 2010.

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. - **Expired**
- 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/reg/english/elaws_regs_050419_e.htm and/or;

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

Toronto Toxics “Right to Know” By-law

Toronto’s Toxics “Right to Know” By-law No. 1293-2008 requires businesses to annually file public reports on their environmental releases of 25 toxic substances of “priority health concern”. Substances that require reporting include: solvents, polycyclic aromatic hydrocarbons and volatile organic compounds and the corresponding threshold limits are shown below:

Chemical	Reporting Threshold (kg/yr)	Chemical	Reporting Threshold (kg/yr)
Acetaldehyde	100	Formaldehyde	100
Acrolein	100	Lead	10
Benzene	100	Manganese	10
1,3-Butadiene	100	Mercury	1.0
Cadmium	1.0	Nickel	100
Carbon tetrachloride	100	Tetrachloroethylene (Perchloroethylene)	100
Chloroform (Trichloromethane)	100	Trichloroethylene	100
Chromium, Hexavalent	10	Vinyl chloride	100
Chromium, Non-hexavalent	100	Polycyclic Aromatic Hydrocarbons (PAHs)	10d
1,2-Dibromo ethane (Ethylene dibromide)	100	Nitrogen Oxides (NOx)	200
1,4-Dichlorobenzene	100	Particulate Matter 2.5 (PM _{2.5})	30
1,2-Dichloroethane (Ethylene dichloride)	100	Volatile Organic Compounds (VOCs) total	100
Dichloromethane (Methylene chloride)	100		

First phase reports will be required by January 1, 2011 and fines for noncompliance are up to \$100,000 for repeat offenders. The By-law will be enacted as Chapter 423 of the *Municipal Code*.

For further information on By-Law No. 1293-2008 please visit the following websites:

www.toronto.ca/legdocs/bylaws/2008/law1293.pdf

and/or

www.toronto.ca

Ministry to implement emission limits for non-emergency generators

Ontario's Ministry of the Environment introduces emission limits for internal combustion engines used for non-emergency power generation. The following limits have been proposed:

Contaminant	Limit Kg/MWh (Date: 2007 to 2010)	Limit Kg/MWh (Date: 2011 - Onward)
Oxides of Nitrogen (NOx)	1.0	0.40
Particulate (PM)	0.2	0.02
Total Hydrocarbons Excluding Methane (NMHC)	1.3	0.19
Carbon Monoxide (CO)	3.5	-
Sulphur Dioxide (SO ₂)	15 ppm	-

In addition to the above proposed emission limits, facilities must demonstrate compliance with the MOE air standards as specified in O. Reg. 419/05 in the form of a Certificate of Approval (Air).

Guidance is provided in the summary of requirements document accompanying the *decision posting*:

<http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTAyNDM3&statusId=MTU2ODIw&language=en>

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

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