

A vertical photograph of a dense forest with tall, thin trees and lush green ferns in the foreground. Sunlight filters through the canopy, creating a bright, hazy effect. The image serves as the background for the entire page.

Mike Lyons & Associates Pty Ltd

Consulting Environmental Chemists

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MIKE LYONS and ASSOCIATES Pty Ltd has over forty years of experience in providing environmentally based consulting services to industry and government. We have consolidated our operations into a consultancy dealing specifically with environmental and air quality issues. The company also draws on the expertise of specialised chemists, analysts and engineers from allied areas to provide complete consulting and environmental review facilities. We have established an outstanding rapport with the automotive and printing industries.

The present legislation which is administered by EPA and WorkSafe was introduced in the mid-eighties. We were actively involved in some of the initial discussions and meetings that led to these regulations. From 1989 to the present we have been contributing to an industry / EPA working party to prepare a code of practice for the Gravure and Flexographic printing industries. This code has been adopted and is now in operation. The latest review of this code has resulted in EPA Publication 940.

We have kept up to date with the latest developments and have made it a policy to keep our clients informed of relevant changes. The scope of our service has progressively developed to deal with the complex Government requirements applicable to industrial development in this country and New Zealand. We offer our clients comprehensive assistance relating to compliance with these regulations and have a successful track record of providing strong support for negotiations with statutory authorities.



Our branch office at Apollo Bay

At Apollo Bay, we have a stand-alone solar power system, are independent of the grid, and we provide our own water supply and water treatment services. We also have satellite based internet connection.



CLIENTS AND PROJECTS UNDERTAKEN

- Motor car and truck manufacturers – Ford, General Motors, Toyota, Nissan, Kenworth, Caterpillar, BMW.
- Automotive Industry Suppliers – Venture, Apex, Henderson's Springs, ACI Pilkington, Bendix, Bosch, Hella, WA Deutscher, ITW Buildex.
- Heatset web offset printing houses in Australia and New Zealand – PMP Group, Hannanprint Group, Franklin Printing Group, Webstar (NZ), Inprint (NZ), Comprint (NZ), WA Newspapers Perth, News Ltd Sydney, AIW, Government Printer, Bascands (NZ).
- Gravure and Flexographic printing houses in Australia – AMCOR Group, APERIO Group, Cryovac, Finewrap, Detmold, Labelmakers, Perfection Packaging, Foilmakers, Rollspack, Leigh Mardon, Note Printing Australia, Capral, Cadillac Printing, Australian Vinyl.
- Papermakers – APM, APPM, Australian Paper (NSW), Bowater Scott, Kimberley Clark.
- Chemicals and Metals– Huntsman, Croda, Clariant, ICI, CSR, BHP, Alcoa, Consolidated Alloys, Kingfield Galvanizing, GB Galvanizing, Incitec Pivot, Laminex, Nonferral, PQ/Potters, KAAL, Fuller, GE Plastics, Laminex, MAAX.
- Consulting groups – URS, GHD, ARUP, ACOR, AWM, Azcor, BP, CMPS&F, Kinhill, Connell Wagner, Golders, SAI Global, Coffey, Fluor, LRM Global.
- Surface coating and adhesive manufacturers – Bostik, Wattyl, Berger, Collie-Cooke, DS Chemport, SICPA, Selley's, Toyo.
- Metal decorating – AMCOR Group, Visy Packaging, Interpack.
- Food processing and packaging – EL Bell, Murray Goulburn, Bonlac, Kraft, Midfield, Cadbury, Ito En, Longwarry Food Park, Select Harvests, Snackbrands.
- Oil refineries in Victoria and New South Wales – Kurnell, PRA, Mobil, Shell, Caltex.
- Utilities – AGL Energy, Puma, Australia Post, Telstra, MMBW.
- Hospitals in Victoria – commissioning ward pipelines at Monash Medical Centre, Royal Melbourne Hospital, Austin Hospital, Epworth, Mercy, Knox, and many public and private suburban facilities.
- Several hundred manufacturing industries in Australia and New Zealand.
- Textiles – Bruck, Brush Fabrics, Fabric Dyeworks, Jacquard, Bradmill, TB Kawashima, Defab, Godfrey Hirst, Hilton.
- Mining industries in Western Australia and Northern Territory – Kalgoorlie (WA), WMC Roxby Downs (SA), Peco Wallsend Tennant Creek (NT), Temco (Tas).
- Quarries and allied industries – David Mitchell, Adelaide Brighton, Boral, CSR Brick & Tile, Bristle.
- Australian Defence Department – projects for HMAS MANOORA, Defence HQ, St Kilda Rd, Watsonia Army Depot, ADI, Thales, Amecon.
- Industry Groups – AIG, ANZFTA, AIRAH, PATEFA.
- Victorian State Government departments.
- Local governments and municipalities.



ACCREDITATION

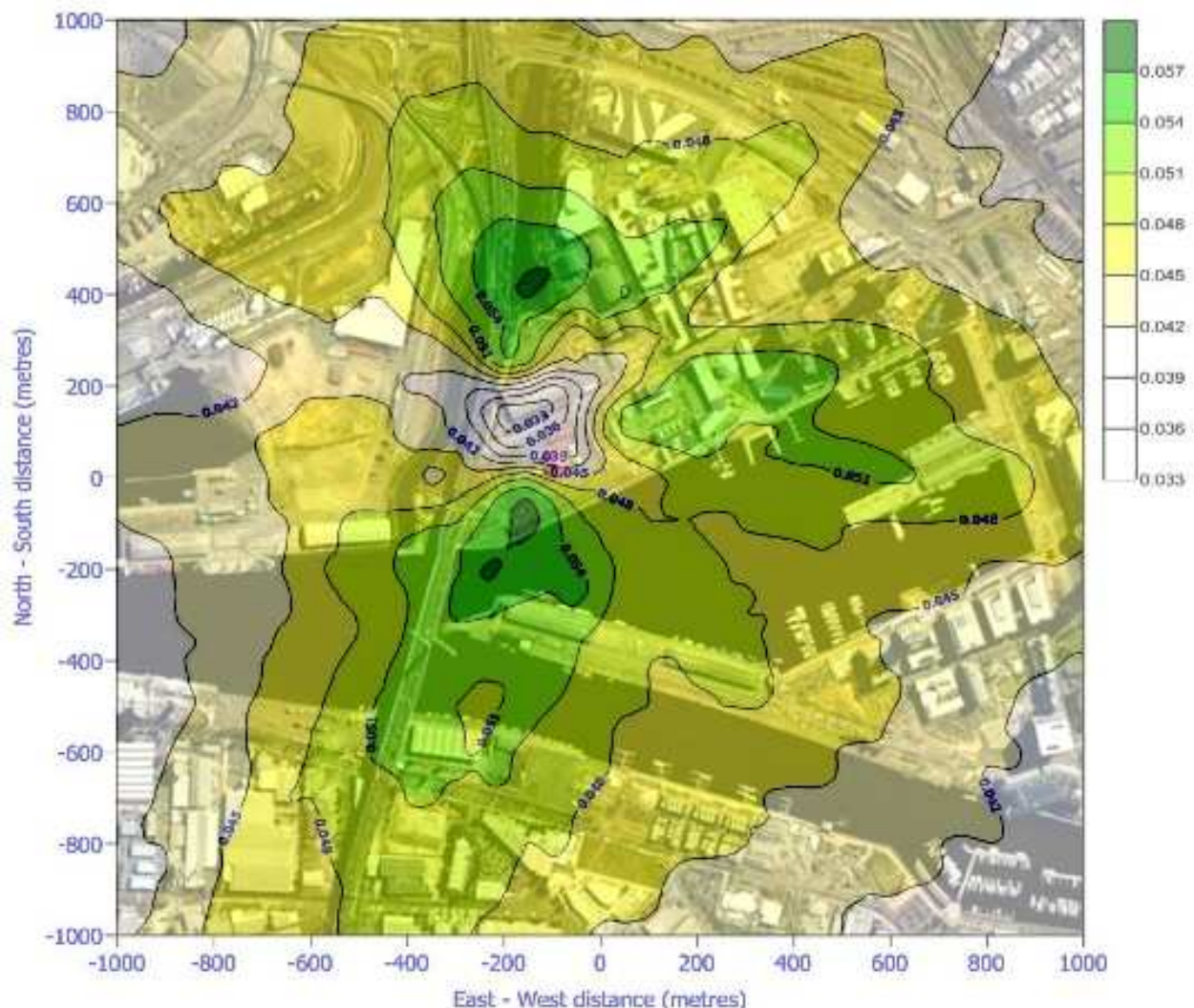
When field services are employed, we ensure operators are registered with the **National Association of Testing Authorities (NATA)**.

In the period 1981 to 1994 we completed more than two thousand projects and more than five thousand individual source analyses using our own field services and under our own registration. Since 1994 we have dedicated our resources to providing a comprehensive consulting service and now engage external services for source sampling, analysis and occupational health measurements.

CONSULTATION SERVICES TO INDUSTRY

- **Preparation of EPA Works Approval applications** for industries in Victoria, our company being responsible for a significant proportion of applications made to the EPA since its inception in the 1980s. This process has undergone many changes since then, and currently is under review, with the new format expected to be introduced later this year (2014).
- **National Pollutant Inventory (NPI) reporting.** We offer a comprehensive service to a wide range of clients, incorporating data acquisition, process usage, waste transfers and on-line reporting from their sites. By using a spreadsheet approach we are able to provide a complete report for the NPI, supporting data for EPA Annual Performance Statements (Victoria only) and Carbon footprint data for use with NGER, EREP etc. We are also able to assist with on-line reporting.
- **Annual Performance Statements** These are required as a condition of all Victorian licences. An annual report showing compliance with all items in the licence must be submitted on-line by 30th September each year. In some cases, particularly those involving solvent emission, monitoring requirements can be generated from the spreadsheet using annualised averages. In other cases such as combustion processes and particulate emissions, it may be necessary to perform direct monitoring. EPA are conducting regular audits of licence compliance and record-keeping. We are also able to assist with preparation for these audits, which involve site wide compliance with all licence conditions.

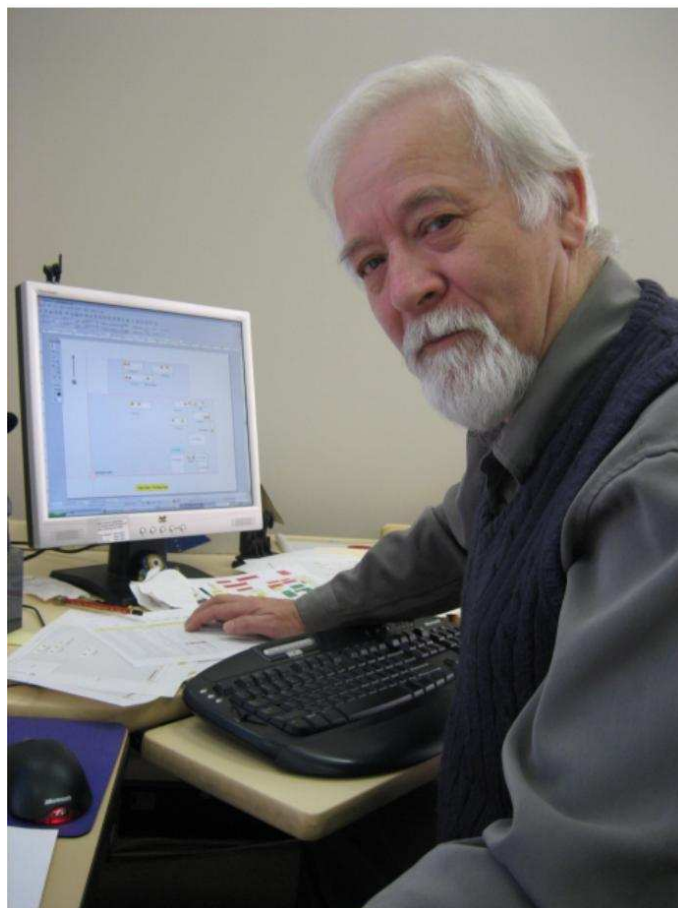
- **Dispersion modelling** using the latest EPA approved "**AUSPLUME**" program.
This package was approved under the requirements of the State Environment Protection Policy (SEPP). Starting this year (2014) a new model "**AERMOD**" will be used, and will be in operation when EPA have suitable meteorological data files available.
Given the number, disposition and emission inventories from exhaust stacks on a site, we are able to produce models showing probable ground level concentrations of odour, solvents, particulate matter etc., to be expected from an existing industry. In many cases we are able to work from material purchases to estimate emission levels. We produce contour maps of ground level concentrations (GLC's) using dedicated software, with these contours overlaid on a relevant background. This gives an easily-read guide to site compliance.



Typical Ausplume isopleth plot



PROFILE - MIKE LYONS



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MEMBERSHIP OF PROFESSIONAL ORGANISATIONS and COMMITTEES

- 1975-77 Initial member of the Plastics Institute of Australia - Consultants' Committee.
- 1982- Member of the Royal Australian Chemical Institute (MRACI).
Chartered Chemist, Australia (C. Chem)
- 1983-89 Initial and Committee member of the RACI Environmental Toxicology group.
- 1984-94 Signatory to the National Association of Testing Authorities (NATA).
- 1980- Member of the Clean Air Society of Australia and New Zealand.
- 1989- Membership of EPA / Industry / AFTA committee advising Schedule F requirements for the Gravure and Flexographic industries.
- 2007- EPA Master Consultancy Services Agreement (Preferred Consultant's Panel)

SEMINARS AND WORKSHOPS GIVEN

Royal Australian Chemical Institute.

Institution of Engineers.

PATEFA (Printing and Allied Trades).

AFTA (Australian Flexographic Technical Association) – Workshops and annual International Forum.

AIRAH (Australian Institute of Refrigeration Air Conditioning and Heating).

ASCE (Australian Society for Clinical Ecology) - Speaker

EA (Environment Australia, Canberra) – preparation of industry specific Environment Management Plan.

Workshops for the above EA project in Melbourne, Sydney and Brisbane.

EPA/AFTA Development of the current code of practice for the Flexographic and Gravure printing industries (EPA Publication 940).

AFTA Workshops for Publication 940 implementation.

ANZFTA Forum 2011 - Speaker



SUMMARY OF INDUSTRIAL WORK EXPERIENCE

1958-59 ***African Distillers (Rhodesia)*** Umtali, Southern Rhodesia

Trainee chemist - fermentation / alcohol distillation process.

1959-60 ***African Distillers (Rhodesia)*** Bulawayo, Southern Rhodesia

Chemist in charge of wine making unit, involving chemical testing, process control, organoleptic sampling and Excise liaison work.

1960 - ***Royal Rhodesia Regiment*** - Military service at Heany, Bulawayo, Southern Rhodesia

1960 - ***E S & A Robinson Ltd*** Ndabeni, Capetown, South Africa

Training session (3 months) with head office prior to taking over the Bulawayo laboratory.

1960-64 ***E S & A Robinson Ltd*** Bulawayo, Southern Rhodesia

Chief chemist responsible for quality control in a paper, laminate and film converting industry. Processes included flexographic and gravure printing, bag making, wax and film lamination, tissue slitting and rewinding. Duties included quality control of raw materials - paper, solvents, adhesives, printing inks, finished products, printed material, paper bags and laminations. Also in charge of adhesive manufacturing unit.

1964-69 ***Winstones Inks Ltd*** London, England

Development chemist in charge of formulation of printing inks - involved in news ink design for Fleet Street newspapers, export formulations, development of glycol based systems, and introduction of alkyd technology to heatset web offset ink manufacture.

1969-72 ***R Collie & Co. Pty Ltd (Printing Inks)*** Melbourne, Australia

Senior development chemist in charge of medium and long-term projects, evaluation of new raw materials, and cooperation with raw material suppliers and customers on new process formulations. Developed new series of metal decorating inks for steel cans.

Interstate coordination and troubleshooting, investigation of new manufacturing methods and supervision of small research unit.



SUMMARY OF SELF-EMPLOYED WORK EXPERIENCE

1972-82 ***Mercuri Research***

Melbourne, Australia

Self-employed as a consultant to the surface coating industries, i.e. printers, plastics converters, paint and varnish makers.

1972-82 ***Mercuri Research***

Melbourne, Australia

Sub-contracted to a public analyst, working in the fields of environmental analysis, measurement of stack exhaust emissions for EPA/SPCC licensing, assessment of workplace environment hazards and allied subjects. General chemical analysis, mostly instrumental (GC, AA, IR, and UV/Visible) as well as field consultation work.

1982-94 ***Mike Lyons & Associates Pty Ltd***

Melbourne, Australia

Self-employed with own NATA registered laboratory services set up for environmental analysis, working for State and Commonwealth governments, Defence forces, Local governments, chemical engineers, mining industry, manufacturing industries and hospitals. Field surveying and analytical services used in assessment of workplace health and safety. Plume dispersion modelling from the initial models used by EPA - Bosanquet-Sutton, MaxCon, and the earliest versions of Ausplume up to the present version 6.0. Adviser in litigation involving environmental matters.

1987-96 ***Micronisers Pty Ltd***

Melbourne, Australia

Co-director and co-founder of a custom milling operation to produce ultra-fine particles, for use in the plastics and allied industries.

1994- ***Mike Lyons & Associates Pty Ltd***

Melbourne, Australia

Continued expansion of consulting services in the areas of Annual Environmental Reporting, exhaust plume dispersal modelling (Ausplume and Aermol), Works Approvals, NPI reporting, Environmental management, and Cleaner Production. Specialist services to the printing industry, heatset oven safety and VOC management.