

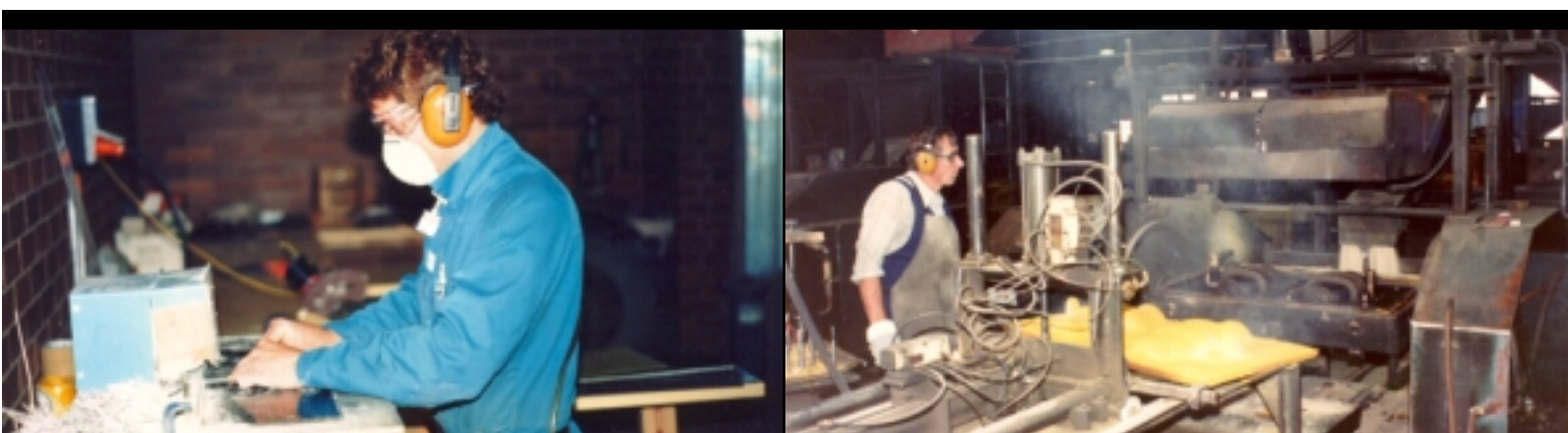
## 6.0 OCCUPATIONAL HYGIENE ASSESSMENTS

All occupational hygiene projects conducted by A.W.N. (Air Water Noise) Consultants are project managed by a Full Member of the Australian Institute of Occupational Hygienists (AIOH).

A.W.N. is one of the few consulting laboratories to have been granted NATA accreditation for the sampling of a large range of atmospheric contaminants in workplace atmospheres, including:-

- Ammonia;
- Asbestos;
- Carbon monoxide;
- Chlorine;
- Crystalline silica;
- Inhalable dust;
- Metals and metal compounds;
- Organic vapours;
- Respirable dust;
- Synthetic mineral fibres.

A number of specific projects are described in detail to demonstrate the extent of the experience available.



LEFT  
SMF monitoring

RIGHT  
Foundry fugitive emissions into  
the workplace

### 1. Automotive Parts Manufacturer

Monitoring and health risk assessment of electroplating plant operator exposed to chromic acid mist.

### 2. Australian National Line

Identification, monitoring and assessment of employee exposure to airborne asbestos fibres on all ANL ships working in Australian waters. Recommendations for handling procedures.

Assessment of heat stress potential for employees located in a ship's engine room.

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### 3. ACI Closures

Workplace noise survey to determine employee noise exposure. Recommendations for equipment noise control and employee hearing protection.

Monitoring and health risk assessment of employees exposed to organic solvents in the lithographic metal printing process.

### 4. ACI Glass

Workplace noise survey to determine employee noise exposure. Recommendations for equipment noise control and employee hearing protection.

Monitoring and risk assessment of employees exposed to sodium hydroxide mist during caustic cleaning operations.

### 5. Paper Manufacturer

Monitoring and health risk assessment of employees exposed to cellulose fibre during wastepaper processing.

### 6. Phenolic Resin Manufacturer

Monitoring and health risk assessment of employees exposed to phenol and formaldehyde. Recommendations for modified handling procedures, installation of an exhaust ventilation system and air pollution control equipment.

### 7. ACI Insulation

Workplace monitoring programmes to determine employee exposure to ammonia, formaldehyde and synthetic mineral fibres (glass and ceramic).

### 8. Vic Grain

Assessment of airborne concentrations of crystalline silica, respirable dust and inhalable dust, together with recommendations for control and medical surveillance.

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## 9. Metal Fabricating

Assessment of employee exposure to cutting oil fume and recommendations for exhaust ventilation.

## 10. Roof Tile Manufacturer

Monitoring and assessment of employee exposure to xylene during roof tile coating operations.

## 11. Beecham Research Laboratories

Monitoring and assessment of employee exposure to antibiotic powders.

## 12. BASF Australia

Monitoring and assessment of employee exposure to acrylamide dust. Recommendations for modified handling procedures.

Monitoring and assessment of employee exposure to acrylonitrile.

## 13. Synthetic Mineral Fibre Mfr.

Workplace monitoring programme to determine employee exposure to synthetic mineral fibres (glass).

## 14. Paint & Allied Coating Mfr.

Workplace monitoring programme to determine employee exposure to crystalline silica and respirable dust during diatomite handling.

## 15. Paint and Allied Coating Manufacturer

Monitoring and health risk assessment of employees exposed to organic solvents.

Review of materials handling procedures and employee work practices. Detailed design of exhaust ventilation systems for powder and solvent handling throughout the manufacturing process.

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## 16. Bendix Mintex

Assessment of exhaust ventilation systems used to capture airborne asbestos fibres generated during brake pad manufacture. Recommendations for ventilation system upgrade.

## 17. Ferrous Foundry

Monitoring and health risk assessment of employee exposure to respirable dust, inhalable dust and crystalline silica.

## 18. Hoechst Aust.

Monitoring and health risk assessment of employee exposure to organic and inorganic pigment dust and aromatic amines.

Detailed design of exhaust ventilation system to minimise employee exposure to airborne dust.

## 19. Commerical Minerals

Assessment of employee exposure to respirable dust and crystalline silica at five sites in Victoria. Recommendations for reducing employee exposure through installation of exhaust ventilation systems and modified work practices.

## 20. Pacific Dunlop

Monitoring and health risk assessment of employees exposed to lead.

## 21. Municipal Council

Assessment of condition of ceiling lining containing asbestiform minerals. Monitoring of airborne asbestos fibre levels.

## 22. Cable Manufacturer

Monitoring of airborne asbestos fibre levels and assessment of health risk resulting from asbestos cement clad building construction.

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### 23. Dorf Industries

Monitoring and health risk assessment of employees exposed to chromic acid mist, sulphuric acid mist and sodium hydroxide mist.

Design of process exhaust ventilation system.

### 24. Plastics Batch Plant

Monitoring and health risk assessment of employees exposed to respirable and inhalable dust.

### 25. Pharmaceutical Manufacturer

Workplace noise survey to determine employee noise exposure.

### 26. Heinz Aust.

Monitoring and health risk assessment of employees exposed to acetic acid during cooking processes.

### 27. Mushroom Grower

Monitoring and health risk assessment of employees exposed to chlorine during chlorinated water application to compost.

### 28. Footwear Manufacturer

Monitoring and health risk assessment of employee exposure to an ammonia based blowing agent.

### 29. Vic Grain

Scanning electron microscope (SEM) identification of airborne fibres found in an asbestos cement clad building.

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### 30. Electronic Circuit Board Mfr.

Assessment of employee exposure to the following atmospheric contaminants:-

- Ammonia;
- Ozone;
- Sulphuric acid mist;
- Copper mist;
- Synthetic mineral fibres;
- Potassium hydroxide mist;
- Nickel mist;
- Tin;
- Cyanide

### 31. Johnson Tiles

Workplace exposure monitoring programme to determine respirable dust and crystalline silica concentrations and associated health risk assessment.

### 32. Tobacco Manufacturer

Workplace exposure monitoring programme to determine employee exposure to tobacco dust and associated health risk assessment.

Workplace noise survey to determine employee noise exposure.

### 33. Road Construction Authority

Assessment of employee exposure to noise, carbon monoxide, sulphur dioxide and nitrogen oxides due to diesel powered pavement test vehicle.

### 34. Bosch

Assessment of employee exposure to airborne asbestos fibres.

### 35. Steel Mill

Workplace exposure monitoring programme to determine employee exposure to respirable dust, inhalable dust, metal oxides and crystalline silica and associated health risk assessment.

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### 36. Powder Coatings Manufacturer

Workplace noise and inhalable dust survey.

### 37. Vulcan

Assessment of employee exposure to welding fumes, metal oxides and airborne asbestos fibres.

### 38. Metal Treatment Plant

Monitoring of employee exposure to phosphoric acid mist, sulphuric acid mist, nitric acid mist and sodium hydroxide mist, resulting from electroplating plant operations.

### 39. Laboratory

Monitoring of employee exposure to inorganic acids and unknown organic compounds. Organics identification by GC/MS.

### 40. Card Coating Operation

Monitoring and health risk assessment of employees exposed to organic solvents.

### 41. Australian Automotive Air

Monitoring of employee exposure to styrene monomer, xylene isomers, toluene, 1, 3-butadiene, particulate fluorides, hydrogen fluoride, refined mineral oil mist, inhalable dust, sodium hydroxide mist, methyl ethyl ketone, methyl isobutyl ketone, chromic acid mist, zirconium compounds, aluminium welding fume, nitric acid and phosphoric acid mist.