

ENVIRONMENTAL RISK MANAGEMENT AUTHORITY

THE BULLETIN

The Bulletin is published eleven times per year. It is a listing of applications being processed and the Authority's decisions as well as other activities under the Hazardous Substances and New Organisms (HSNO) Act. The public register is the official record of all applications received and any controls attached to approvals and may be viewed at our Wellington office.

Alternatively, you may view the applications and associated documents on the ERMA

New Zealand website: www.ermanz.govt.nz

NEW ORGANISMS

NOTIFIED APPLICATIONS RECEIVED AND OPEN FOR SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@ermanz.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

There are currently no notified applications open for submission

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Application Code: GMD04110

Purpose: Modification of the apple scab fungus (*Venturia inaequalis*) to determine specificity of apple disease resistance and virulence determinants in the fungus. This will assist development of sustainable control strategies for the apple industry

Date Formally Received: 08 November 2004

Applicant: IRL BioPharm

Application Code: NFM04001

Purpose: To ferment in containment the imported marine bacterial strain '*Salinospora*' sp. CNB392 (Feling et al., 2003) to produce a novel chemical

Date Formally Received: 02 November 2004

Applicant: New Zealand Institute for Crop & Food Research Limited

Application Code: NOC04008

Purpose: Import into containment *Ferroplasma acidarmanus* for the purpose of conducting research into its metabolism

Date Formally Received: 01 November 2004

Applicant: Horticulture and Food Research Institute (HortResearch Auckland)

Application Code: NOC04017

Purpose: To import plant material infected with phytoplasmas to test the effectiveness of current detection methods for identifying phytoplasmas in plant imports

Date Formally Received: 11 November 2004

Please feel free to photocopy this material. Acknowledgement of ERMA New Zealand would be appreciated.

ERMA NEW ZEALAND

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Email: info@ermanz.govt.nz

Website: www.ermanz.govt.nz

Applicant: Ministry of Agriculture and Forestry

Application Code: S2604021

Purpose: To determine the new organism status of *Pleurotus eryngii* under section 26 of the Hazardous Substances and New Organisms Act 1996

Date Formally Received: 03 November 2004

DECISIONS ON APPLICATIONS

The following decision was published in Issue 58 of The Bulletin with errors in organism names.

Applicant: Cactus and Succulent Society New Zealand (CSSNZ)

Application Code: S2604008

Purpose: To have a number of species and their synonyms in the genus *Haworthia* determined to be not new organisms under Section 26 of the HSNO Act

Decision Notified: 02 August 2004

Decision: Determined to be not new organisms

Description of Organisms:

Haworthia x cassytha Baker 1896

Haworthia x cuspidata Haworth 1819

Haworthia x henriquesii Resende 1941

Haworthia x janseana Uitewaal 1940

x Astroworthia bicarinata (Haworth) G.D. Rowley 1973

Haworthia x revendettii Uitewaal 1940

Haworthia x rubrobrunnea von Poellnitz 1940

Haworthia x sampaiana (Resende) Resende 1940

Haworthia x sessiliflora Baker 1896

Haworthia x subattenuata (Salm-Dyck) Baker 1880

Haworthia x mantelii Uitewaal 1947

Haworthia x coarctatoides Resende & Viveiros 1948

Haworthia x perplexa von Poellnitz 1938

Haworthia x submaculata von Poellnitz 1939

Haworthia x semiglabrata Haworth 1819

Haworthia x uitewaaliana von Poellnitz 1939

x Astroworthia skinneri (A. Berger) Groen 1987

Haworthia x broteriana Resende 1941

Haworthia x tauteae Archibald 1946

Haworthia x subrigida (Roemer & Schultes) Baker 1880

Haworthia x rigida (Lamarck) Haworth 1821

Applicant: Victoria University of Wellington

Application Code: NOC04016

Purpose: To import into containment samples of Antarctic water (both fresh and marine in all states) and soil, sediments and rocks containing unidentified microorganisms for identification and long term culture

Decision Notified: 26 November 2004

Description of Organisms: Prokaryotic (primarily bacteria, archaea, cyanobacteria¹) and eukaryotic microorganisms² (algae, phytoplankton, zooplankton³, protozoa, and micro-invertebrates) present in water⁴, soils/sediments, rock and microbial mat samples taken from Antarctic marine and freshwater environments.

Decision: Approved with Controls

ERMA Approval Code: NOC002379

Controls:

In order to satisfactorily address the matters detailed in the Third Schedule Part II: Containment controls for new organisms excluding genetically modified organisms⁵ of the Act, and other matters in order to give effect to the purpose of the Act, the approved organisms are subject to the following controls:

- 1. To limit the likelihood of any accidental release of any organism or any viable genetic material⁶:**
 - 1.1 The approved organisms shall be imported into, and maintained within a containment facility which complies with these controls.
 - 1.2 The construction, operation, and management of the microorganism containment facility shall be in accordance with the:

1 Cyanobacteria are also referred to as 'blue-green algae' or 'blue-green bacteria'. These organisms were originally grouped with algae because of their photosynthetic ability. It is now realised that they are bacteria and not related to any of the algae.

2 Organisms that may only be observed under a microscope.

3 Zooplankton are a community of floating, aquatic, minute animals and non-photosynthetic protists.

4 Including water in all states: such as sea ice, snow and sea water.

5 Bold headings refer to matters to be addressed by containment controls for new organisms excluding genetically modified organisms, specified in the Third Schedule (Part II) of the HSNO Act 1996.

6 Viable Genetic Material is biological material that can be resuscitated to grow into tissues or organisms. It can be defined to mean biological material capable of growth even though resuscitation procedures may be required, e.g. when organisms or parts thereof are sublethally damaged by being frozen, dried, heated, or affected by chemical.

- a) Ministry of Agriculture and Forestry (MAF)/ ERMA New Zealand Standard 154.03.02. Containment Facilities for Microorganisms.
 - b) Australian New Zealand Standard AS/NZS 2243:3 2002 Safety in Laboratories: Part 3: (Microbiological aspects and containment facilities).
 - c) Physical Containment Level 1 (PC1) requirements of the above Standards.
- 1.3 The person responsible for a particular research area and/or the person responsible for the operation of the containment facility shall inform all personnel involved in the handling of the organisms of the Authority's controls.
- 1.4 The containment facility shall be approved by Ministry of Agriculture and Forestry (MAF), in accordance with section 39 of the Biosecurity Act and the MAF Biosecurity Authority/ERMA New Zealand Standard 154.03.02: Containment Facilities for Microorganisms.
- 2. To exclude unauthorised people from the facility:**
- 2.1 The identification of entrances, numbers of and access to entrances, and the security requirements for the entrances and the facility shall be in compliance with the standards listed in Control 1.2 of this document.
- 3. To control the effects of any accidental release or escape of an organism:**
- 3.1 Construction and operation of the containment facility shall comply with the requirements of the standards listed in control 1.2 relating to the control of the effects of any accidental release or escape of an organism.
- 3.2 If for any reason a breach of containment occurs the facility Supervisor⁷, MAF Biosecurity Authority and ERMA New Zealand shall be notified promptly as soon as is practicable after the event is noticed.
- 3.3 In the event of any breach of containment of the organism, the contingency plan for the attempted retrieval or destruction of any viable material of the organism that has escaped shall be implemented immediately. The contingency plan shall be included in the containment manual in accordance with the requirements of standards listed in Control 1.2.
- 3.4 The applicant shall comply with the requirements of the standards listed in control 1.2 listed above relating to the maintenance of records demonstrating compliance with the Standard 154.03.02, as required by the quality assurance programme, and documented in the containment manual.

⁷ An inspector appointed under the Biosecurity Act.

⁸ AS 2647 Biological safety cabinets-Installation and use.

⁹ Risk Group 2 (moderate individual risk, limited community risk)- a pathogen that can cause human, plant or animal disease, but is unlikely to be a serious hazard to laboratory workers, the community, livestock or the environment, laboratory exposures may cause infection, but effective treatment and preventive measures are available, and the risk of spread is limited.

4. Inspection and monitoring requirements for containment facilities:

- 4.1 The inspection and monitoring requirements for the containment facility shall be in compliance with the standards listed in control 1.2 of this document.
- 4.2 The Authority, or its authorised agent or properly authorised enforcement officers, may inspect the facilities at any reasonable time.
- 4.3 The containment manuals shall be updated, as necessary, to address the implementation of the controls imposed by this approval, in accordance with the MAF/ERMA New Zealand Standard 154.03.02.

5. Qualifications required of the persons responsible for implementing these controls:

- 5.1 The training of personnel working in the facility shall be in compliance with the standards listed in Control 1.2.

6. Additional controls:

- 6.1 Any person exercising this approval shall forward to ERMA New Zealand any publication in which any unidentified organism imported in accordance with this approval, (and which are not already recorded on the ERMA New Zealand Register of new organisms), is assigned a taxonomic classification.
- 6.2 All manipulations involving samples that may contain terrestrial or freshwater algal spores should be performed in a biological safety cabinet that is operated in accordance with the requirements of AS/NZS 2647⁸.
- 6.3 If organisms are subsequently identified or found to be Risk Group 2⁹ organisms, as defined in the AS/NZS2243.3: 2002 Safety in Laboratories: Part 3 (Microbiology), then they shall be transferred to a registered PC2 containment facility or preserved as non viable material or destroyed, as soon as practically possible and this fact noted in the facility register(s).

DELEGATED AUTHORITY

There were no applications decided by the Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority.

The following applications were decided by institutions acting under delegated powers from the Authority.

Applicant: AgResearch Limited

Institute Code: GMO04/ARR005

Application Code: GMD04112

Purpose: Routine Production of GM rats and mice

Decision Notified: 27 October 2004

Description of Organism: *Mus musculus* Linnaeus, 1758

Laboratory mice will be modified by the addition of extra copies of DNA consisting of: genes of vertebrate origin (including human DNA), commercially available marker and selection genes and vertebrate gene sequences modified to introduce specific changes for experimental purposes or by inactivating sequences of DNA in their genome

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003420

Description of Organism: *Rattus norvegicus* (Berkenhout, 1769)

Laboratory rats will be modified by the addition of extra copies of DNA consisting of: genes of vertebrate origin (including human DNA), commercially available marker and selection genes and vertebrate gene sequences modified to introduce specific changes for experimental purposes or by inactivating sequences of DNA in their genome

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003421

Applicant: Genesis Research and Development Corporation Limited

Institute Code: GMO04/GR045

Application Code: GMD04067

Purpose: Cloning and expression of genes and proteins in plants, yeast, bacteria, and insect and mammalian expression systems for improvement of wood bio-processing

Decision Notified: 15 November 2004

Description of Organism: *Agrobacterium tumefaciens* (Smith & Townsend 1907) Conn 1942

Agrobacterium tumefaciens (disarmed laboratory strains) modified with non-conjugative plasmid vectors; DNA

encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.* (poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003438

Description of Organism: *Arabidopsis thaliana* (L.) Heynh (1842)

Arabidopsis thaliana modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.* (poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003439

Description of Organism: *Drosophila melanogaster* (Meigen, 1830)

Drosophila melanogaster (Schneider S2 cell line) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon),

Cucurbita maxima (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003440

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strains K12 and B derivatives) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003441

Description of Organism: *Homo sapiens* (Linnaeus, 1758)

Homo sapiens (293T cell lines) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar),

Botrytis cinerea, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003442

Description of Organism: *Kluyveromyces lactis* (Boidin, Abadie, J.L. Jacob & Pignal) Van der Walt (1971)

Kluyveromyces lactis (strain CBS1065 and derivatives) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003443

Description of Organism: *Nicotiana benthamiana* Domin.

Nicotiana benthamiana modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma*

reesei, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003444

Description of Organism: *Nicotiana tabacum* L.

Nicotiana tabacum modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003445

Description of Organism: *Pichia methanolica*

Pichia methanolica (laboratory strains) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003446

Description of Organism: *Pichia pastoris*

Pichia pastoris (laboratory strains) modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003447

Description of Organism: *Saccharomyces cerevisiae* Gasp. (1883)

Saccharomyces cerevisiae modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.*(poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003448

Description of Organism: *Schizosaccharomyces pombe* Linder (1893)

Schizosaccharomyces pombe (laboratory strains) modified with non-conjugative plasmid vectors; DNA encoding proteins

that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.* (poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003449

Description of Organism: *Zymomonas mobilis* subsp. *mobilis* and subsp. *pomaceae*

Zymomonas mobilis subsp. *mobilis* and subsp. *pomaceae* modified with non-conjugative plasmid vectors; DNA encoding proteins that can modify wood in bioprocessing isolated from *Festuca spp.* (fescue grass), *Lolium spp.* (ryegrass), *Cucumis sativus* (cucumber), *Cucumis melo* (melon), *Cucurbita maxima* (pumpkin), *Cucurbita moschata*, *Sicyos angulatus*, *Pinus radiata*, *Pinus taeda*, *Eucalyptus spp.*, *Arabidopsis thaliana*, *Nicotiana tabacum*, *Nicotiana benthamiana*, *Populus spp.* (poplar), *Botrytis cinerea*, *Phanerochaete chrysosporium*, *Coprinus cinereus*, *Clostridium thermocellum*, *Neurospora crassa*, *Zymomonas mobilis*, *Trichoderma reesei*, *Candida wickerhamii*, *Trametes versicolor*.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003450

Applicant: Genesis Research and Development Corporation Limited

Institute Code: GMO04/GR046

Application Code: GMD04068

Purpose: To create a DNA sequence database of Linum species by creating cDNA libraries and determine the DNA sequence of the cDNA clones

Decision Notified: 29 July 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strain K12 and derivatives) modified with non-conjugative plasmid vectors containing DNA sequences derived from Linum species and characterised reporter genes or selectable marker genes

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003432

Applicant: Lincoln University

Institute Code: GMO04/LU001

Application Code: GMD04124

Purpose: Cloning of genes from *Haemonchus contortus* into *Escherichia coli* (K12 derived) and *Pichia pastoris* for the generation of sufficient DNA and protein to use as vaccines

Decision Notified: 03 May 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (DH5alpha) modified with pVAXI (INVITROGEN) pGAP (INVITROGEN) pET-23 vector (NOVAGEN) pET-32 vector (NOVAGEN), containing DNA sequences from *Haemonchus contortus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003457

Description of Organism: *Pichia pastoris*

Pichia pastoris modified with pVAXI (INVITROGEN) pGAP (INVITROGEN), containing DNA sequences from *Haemonchus contortus*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003458

Applicant: Lincoln University

Institute Code: GMO04/LU005

Application Code: GMD04126

Purpose: To create organisms to be used to maintain and multiply DNA from various unspecified fungal spores collected from the surface of insects and characterise the species diversity of the fungal spores

Decision Notified: 03 May 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli modified with non-conjugative pGEM-T type vectors containing internal transcribed spacer (ITS) sequences derived from fungal spores located on the surface of New Zealand insects

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003456

Applicant: Massey University

Institute Code: GMO04/MU016

Application Code: GMD04106

Purpose: Use of phage display of protein-protein interactions, confirming same by utilising yeast two-hybrid system and affinity co-purification.

Update of GMO03/MU06

Decision Notified: 06 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (K12 and B derivatives) modified with non-conjugative vectors containing *Saccharomyces cerevisiae* (Baker's yeast), bacteriophage Ff, *Arabidopsis thaliana*, *Malus domestica* or *Mus musculus* DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003396

Description of Organism: bacteriophage Ff

bacteriophage Ff modified with deletion of Ff DNA or insertion of *Saccharomyces cerevisiae* (Baker's yeast), bacteriophage Ff, *Arabidopsis thaliana*, *Malus domestica* or *Mus musculus* DNA

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003397

Applicant: Massey University

Institute Code: GMO04/MU019

Application Code: GMD04109

Purpose: To study the role of dothistromin toxin in Dothistroma needle blight by making gene replacement mutants that are deficient in toxin production.

Update of GMO99/MU010

Decision Notified: 14 October 2004

Description of Organism: *Dothistroma pini*

Dothistroma pini modified with non-conjugative pUC-based vectors containing DNA from *Dothistroma pini*, *Aequorea victoria*, *Aspergillus nidulans*, *Streptoalloteichus hindustanus*, *Discosoma* species and *Escherichia coli*

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003395

Applicant: New Zealand Institute for Crop & Food Research Limited

Institute Code: GMO04/CFR002

Application Code: GMC04019

Purpose: Importation of seed of glyphosate tolerant onions from United States of America

Decision Notified: 15 November 2004

Description of Organism: *Allium cepa*

Allium cepa modified with CP4 EPSPS gene from *Agrobacterium* strain CP4, transformed by *Agrobacterium tumefaciens* strain LBA4404 using T-DNA from three pMON binary vectors

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001248

Applicant: New Zealand Institute for Crop & Food Research Limited

Institute Code: GMO04/CFR004

Application Code: GMC04020

Purpose: Importation into containment of GM maize and soybean grain to quantitate the effect of food processing or cooking on transgene DNA degradation rates

Decision Notified: 15 November 2004

Description of Organism: *Glycine max* L.

Glycine max (RoundUp Ready event) modified with vector system based on pUC19 and carrying a range of genes or gene regulatory elements. Transformed by biolistics

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001249

Description of Organism: *Zea mays* L.

Zea mays (Bt events) modified with pUC-based vectors that carry a standard set of genes used for laboratory DNA cloning steps and a range of genes or gene regulatory elements

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001250

Applicant: New Zealand Institute for Crop & Food Research Limited

Institute Code: GMO04/CFR003

Application Code: GMD04122

Purpose: To develop and assess rapid and efficient methods for interfering with expression of endogenous plant genes to assist in determination of the gene to phenotype relationship

Decision Notified: 15 November 2004

Description of Organism: *Pisum sativum* L.

Pisum sativum modified with standard *Escherichia coli* cloning vectors; non-tumorigenic *Agrobacterium* plasmid vectors; double stranded RNA; double stranded DNA. Donor DNA will contain genomic DNA or cDNA sequences derived from *Pisum sativum*, *Solanum tuberosum*, *Escherichia coli*,

Agrobacterium tumefaciens and marine invertebrates such as *Aequorea victoria* or *Discosoma* species coral

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003436

Description of Organism: *Solanum tuberosum* L.

Solanum tuberosum modified with standard *Escherichia coli* cloning vectors; non-tumorigenic *Agrobacterium* plasmid vectors; double stranded RNA; double stranded DNA. Donor DNA will contain genomic DNA or cDNA sequences derived from *Pisum sativum*, *Solanum tuberosum*, *Escherichia coli*, *Agrobacterium tumefaciens* and marine invertebrates such as *Aequorea victoria* or *Discosoma* species coral

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003437

Applicant: University of Auckland

Institute Code: GMO04/UA025

Application Code: GMD04107

Purpose: Gene expression in cell lines

Decision Notified: 17 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic laboratory adapted strains) modified by non self-transmissible vectors and genes derived from mouse (*Mus musculus*), rat (*Rattus norvegicus*), human (*Homo sapiens*) or chicken (*Gallus gallus*) encoding:

- Gap junction proteins (cell-cell communication)
- The growth factors and their receptors
- Patterning factors
- Apoptotic and anti-apoptotic factors
- Transcription factors
- Cell adhesion molecules and extracellular matrix molecules
- Signalling molecules and naturally occurring antagonists to growth factors

- Proteins involved in chondrogenesis
- Marker proteins
- Housekeeping proteins
- Reporter constructs
- Anti-sense constructs including nucleotide deletions and substitutions (as well as RNA interference sequences) directed against the same genes as above
- Promoter elements

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003415

Description of Organism: *Gallus gallus* cell lines

Gallus gallus cell lines modified by non self-transmissible vectors and genes derived from mouse (*Mus musculus*), rat (*Rattus norvegicus*), human (*Homo sapiens*) or chicken (*Gallus gallus*) encoding:

- § Gap junction proteins (cell-cell communication)
- The growth factors and their receptors
- Patterning factors
- Apoptotic and anti-apoptotic factors
- Transcription factors
- Cell adhesion molecules and extracellular matrix molecules
- Signalling molecules and naturally occurring antagonists to growth factors
- Proteins involved in chondrogenesis
- Marker proteins
- Housekeeping proteins
- Reporter constructs
- Anti-sense constructs including nucleotide deletions and substitutions (as well as RNA interference sequences) directed against the same genes as above
- Promoter elements

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003416

Description of Organism: *Homo sapiens* cell lines

Homo sapiens cell lines modified by non self-transmissible vectors and genes derived from mouse (*Mus musculus*), rat (*Rattus norvegicus*), human (*Homo sapiens*) or chicken (*Gallus gallus*) encoding:

- Gap junction proteins (cell-cell communication)
- The growth factors and their receptors
- Patterning factors
- Apoptotic and anti-apoptotic factors
- Transcription factors
- Cell adhesion molecules and extracellular matrix molecules
- Signalling molecules and naturally occurring antagonists to growth factors
- Proteins involved in chondrogenesis
- Marker proteins
- Housekeeping proteins
- Reporter constructs
- Anti-sense constructs including nucleotide deletions and substitutions (as well as RNA interference sequences) directed against the same genes as above
- Promoter elements

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003417

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus cell lines modified by non self-transmissible vectors and genes derived from mouse (*Mus musculus*), rat (*Rattus norvegicus*), human (*Homo sapiens*) or chicken (*Gallus gallus*) encoding:

- Gap junction proteins (cell-cell communication)
- The growth factors and their receptors
- Patterning factors
- Apoptotic and anti-apoptotic factors
- Transcription factors
- Cell adhesion molecules and extracellular matrix molecules

- Signalling molecules and naturally occurring antagonists to growth factors
- Proteins involved in chondrogenesis
- Marker proteins
- Housekeeping proteins
- Reporter constructs
- Anti-sense constructs including nucleotide deletions and substitutions (as well as RNA interference sequences) directed against the same genes as above
- Promoter elements

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003418

Description of Organism: *Rattus norvegicus* (Berkenhout, 1796)

Rattus norvegicus cell lines modified by non self-transmissible vectors and genes derived from mouse (*Mus musculus*), rat (*Rattus norvegicus*), human (*Homo sapiens*) or chicken (*Gallus gallus*) encoding:

- Gap junction proteins (cell-cell communication)
- The growth factors and their receptors
- Patterning factors
- Apoptotic and anti-apoptotic factors
- Transcription factors
- Cell adhesion molecules and extracellular matrix molecules
- Signalling molecules and naturally occurring antagonists to growth factors
- Proteins involved in chondrogenesis
- Marker proteins
- Housekeeping proteins
- Reporter constructs
- Anti-sense constructs including nucleotide deletions and substitutions (as well as RNA interference sequences) directed against the same genes as above
- Promoter elements

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003419

Applicant: University of Auckland

Institute Code: GMO04/UA027

Application Code: GMD04108

Purpose: Tagging bacteria with reporter gene labels

Decision Notified: 17 September 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic strains) as modified by plasmids or transposons containing reporter genes (genes sourced from bacteria and invertebrates)

Containment: PC1

Category: A

and

Escherichia coli (all enteropathogenic, enterotoxigenic, enteroinvasive, enteroaggregative and bacteraemic strains, and all uropathogenic strains but not including shiga toxin positive *Escherichia coli* O157:H7) as modified by plasmids or transposons containing reporter genes (genes sourced from bacteria and invertebrates)

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003414

Applicant: University of Auckland

Institute Code: GMO04/UA028

Application Code: GMD04111

Purpose: Integrin signalling in T cell activation and cancer.

Update of GMO99/UA039

Decision Notified: 08 October 2004

Description of Organism: bacteriophage *lambda*

bacteriophage *lambda* modified by NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003402

Description of Organism: bacteriophage *M13*

bacteriophage *M13* modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003403

Description of Organism: *Cercopithecus aethiops* cell lines

Cercopithecus aethiops cell lines modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003404

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non pathogenic laboratory-adapted strains) modified by NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003405

Description of Organism: *Homo sapiens* cell lines

Homo sapiens cell lines modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003406

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus cell lines modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003407

Description of Organism: *Rattus norvegicus* cell lines

Rattus norvegicus cell lines modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003408

Description of Organism: *Saccharomyces cerevisiae*

Saccharomyces cerevisiae modified with NTAP (such as Interplay) vectors and expression vectors with cytoplasmic regions of human adhesion molecules, human and mouse tetraspan proteins and human and mouse integrin binding proteins.

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003409

Applicant: University of Auckland

Institute Code: GMD004/UA016

Application Code: GMD04113

Purpose: Expression of human blood group A and B glycosyltransferase enzymes

Decision Notified: 01 November 2004

Description of Organism: *Cercopithecus aethiops* (*Chlorocebus aethiops*)

Cercopithecus aethiops (*Chlorocebus aethiops*) cell lines modified with non self-transmissible vectors such as pSG-5 with human (*Homo sapiens*), mouse (*Mus musculus*) or rat (*Rattus norvegicus*) genes encoding blood group A and B glycosyltransferases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003410

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic strains) modified with non self-transmissible vectors such as pSG-5 with human (*Homo sapiens*), mouse (*Mus musculus*) or rat (*Rattus norvegicus*) genes encoding blood group A and B glycosyltransferases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003411

Description of Organism: *Spodoptera frugiperda*

Spodoptera frugiperda cell lines modified with non self-transmissible vectors such as pSG-5 with human (*Homo sapiens*), mouse (*Mus musculus*) or rat (*Rattus norvegicus*) genes encoding blood group A and B glycosyltransferases

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003412

Applicant: University of Auckland

Institute Code: GMO04/UA029

Application Code: GMD04117

Purpose: Cytochrome c peroxidase production

Decision Notified: 15 November 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic, laboratory adapted strains) modified with non self-transmissible *Escherichia coli* cloning vectors with c type maturation genes from *Escherichia coli* and cytochrome c from *Pseudomonas aeruginosa*

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003430

Applicant: University of Auckland

Institute Code: GMO04/UA030

Application Code: GMD04118

Purpose: Molecular characterisation of plant and fungal viruses

Decision Notified: 15 November 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (non-pathogenic, laboratory adapted strains) modified with non self-transmissible *Escherichia coli* cloning vectors with plant and fungal viral or viroid DNA sequences generated using RT-PCR (RNA viruses) or PCR (DNA viruses).

The donor DNA shall not include:

1. More than 2/3 of the viral genome
2. Genes encoding vertebrate toxins
3. Sequences that will produce infectious particles

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003431

Applicant: University of Otago

Institute Code: GMO04/UO027

Application Code: GMC04017

Purpose: *Streptococcus equi* subspecies *zooepidemicus* strains 4881KOK and 4881KOE with *zooA* (*zooA*) and *zooA* immunity (*zif*) genes deleted, imported to compare their growth characteristics and the composition of their cell walls to those of their parent

Decision Notified: 05 October 2004

Description of Organism: *Streptococcus equi* subsp. *zooepidemicus* (ex Frost and Englebrecht 1936) Farrow and Collins 1985

Streptococcus equi subsp *zooepidemicus* (strain 4881KOK) modified with *zooA* gene replaced with Kanr gene from omega-Km2 and *Streptococcus equi*

subsp. zooepidemicus (strain 4881KOE)
modified with portion of *zif* gene replaced
with *Emr* gene from pVA838

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001246

Applicant: University of Otago

Institute Code: GMO04/UO036

Application Code: GMC04018

Purpose: To help understand the roles of specific
molecules in the control of
neurodegenerative disorders

Decision Notified: 04 November 2004

Description of Organism: *Mus musculus* Linnaeus,
1758

Mus musculus (strains AMH-KOm,
AMHR11-KOm and Floxed-ALK3)
modified by disruption of the anti-
Mullerian hormone gene or ALK3 gene
with a neomycin resistance gene or loxP

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMC001247

Applicant: University of Otago

Institute Code: GMO04/UO007

Application Code: GMD04114

Purpose: To understand the evolutionary history,
biogeography, functional ecology and
diversity of New Zealand's fungi, plants
and bacteria

Decision Notified: 05 October 2004

Description of Organism: *Escherichia coli* (Migula
1895) Castellani & Chalmers 1919

Escherichia coli (K12 or B derivatives)
modified with non-conjugative plasmids;
PCR products from nucleoid, nuclear,
chloroplast and mitochondrial DNA from
plants, fungi and bacteria. DNA will not
encode pathogenicity genes or particles or
molecules that can cause disease to
humans, plants or animals

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003413

Applicant: University of Otago

Institute Code: GMO04/UO025

Application Code: GMD04115

Purpose: To characterise the properties of the
proteins involved in the transport of ions
and water in possum epithelia

Decision Notified: 04 November 2004

Description of Organism: *Canis familiaris* Linnaeus

Canis familiaris cell lines (such as Madin
Darby Canine Kidney cells) modified with
non-conjugative shuttle vectors;
Trichosurus vulpecula cDNA encoding
genes associated with epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003422

Description of Organism: *Cercopithecus aethiops*

Cercopithecus aethiops cell lines such as
Cos-7(L) modified with non-conjugative
shuttle vectors; *Trichosurus vulpecula*
cDNA encoding genes associated with
epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003423

Description of Organism: *Cricetulus griseus*

Cricetulus griseus cell lines such as chinese
hamster ovary (CHO) cells modified with
non-conjugative shuttle vectors;
Trichosurus vulpecula cDNA encoding
genes associated with epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003424

Description of Organism: *Escherichia coli* (Migula
1895) Castellani & Chalmers 1919

Escherichia coli (strain K12 and B
derivatives) modified with non-conjugative
shuttle vectors; *Trichosurus vulpecula*
cDNA encoding genes associated with
epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003425

Description of Organism: *Mus musculus* Linnaeus, 1758

Mus musculus cell lines such as C127 cells modified with non-conjugative shuttle vectors; *Trichosurus vulpecula* cDNA encoding genes associated with epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003426

Description of Organism: *Rattus norvegicus* (Berkenhout, 1769) cell lines

Rattus norvegicus cell lines (such as Fischer Rat Thyroid cells) modified with non-conjugative shuttle vectors; *Trichosurus vulpecula* cDNA encoding genes associated with epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003427

Description of Organism: *Trichosurus vulpecula* (Kerr 1792)

Trichosurus vulpecula cell lines modified with non-conjugative shuttle vectors; *Trichosurus vulpecula* cDNA encoding genes associated with epithelial transport

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003428

Applicant: University of Otago

Institute Code: GMO04/UO022

Application Code: GMD04116

Purpose: To develop genetically modified human cell lines to study the structure and function of mammalian enamel cell proteins

Decision Notified: 05 October 2004

Description of Organism: *Homo sapiens* cell lines

Homo sapiens cell lines (including A549 and HeLa cell lines) modified with non-conjugative plasmid vectors; native or mutated genomic DNA or cDNA from enamel cells of animals excluding Māori,

native fauna or CITES species. Donor DNA will not encode known vertebrate toxins

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003429

Applicant: University of Otago

Institute Code: GMO04/UO023

Application Code: GMD04119

Purpose: To study genome structure variation and gene expression in New Zealand native coralline algae.
Update of GMO03/UO009

Decision Notified: 09 November 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strain K12 or B derivatives) modified with non-conjugative plasmids; DNA from coralline algae (order: Corallinales) collected from the Chatham Islands

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003433

Applicant: University of Otago

Institute Code: GMO04/UO024

Application Code: GMD04120

Purpose: To use insertional duplication mutagenesis to knock out genes of *Streptococcus pneumoniae* involved in the production of bacteriocins and genes involved in the resistance, or immunity, to heterologous bacteriocins

Decision Notified: 09 November 2004

Description of Organism: *Streptococcus pneumoniae*

Streptococcus pneumoniae (strains Rx1, D39, TIGR4, R6 and clinical isolates) modified with non-conjugative plasmid vectors (that will not confer resistance to antibiotics used for clinical or veterinary *Streptococcus pneumoniae* infections) used to replace *Streptococcus pneumoniae* genomic DNA

Containment: PC2

Category: B

Decision: Approved with Controls

ERMA Approval Code: GMD003434

Applicant: University of Otago

Institute Code: GMO04/UO029

Application Code: GMD04121

Purpose: To investigate the role of matrix metalloproteases, their inhibitors and related enzymes, in neural crest migration, palatogenesis and development of the craniofacial skeleton

Decision Notified: 09 November 2004

Description of Organism: *Escherichia coli* (Migula 1895) Castellani & Chalmers 1919

Escherichia coli (strain K12 and B derivatives) modified with non-conjugative plasmids; mouse cDNA containing genes involved in craniofacial morphogenesis

Containment: PC1

Category: A

Decision: Approved with Controls

ERMA Approval Code: GMD003435

AMENDMENTS TO APPROVALS

Applicant: AgResearch Limited

Application Code: GMF98009 (Part I s67A)

Purpose: To field test, in Waikato, cattle genetically modified with cattle casein genes or the human myelin basic protein gene; or deletion of the cattle β -lactoglobulin gene. Milk may have enhanced nutritive value or be valuable as a drug for multiple sclerosis¹⁰

Decision Amendment Date: 16 November 2004

Amendment: Control 6.4 amended by omitting the words 'five years' and substituting the words 'six years' extending the duration of the approval by 12 months.

The following amendments were decided by institutions acting under delegated powers from the Authority.

Applicant: University of Auckland

Institution Code: GMO00/UA059 s67A

Application Code: GMD00333

Purpose: To study the function of intracellular transport proteins using fluorescent microscopy

Decision Amendment Date: 09 July 2004

Amendment: Amended to change physical containment level for *Pichia pastoris* to PC1 in accordance with Low-Risk Genetic Modification Regulations 2003.

Applicant: University of Auckland

Institution Code: GMO00/UA058 s67A

Application Code: GMD00335

Purpose: To study the function of cell adhesion modules in cancer immunotherapy

Decision Amendment Date: 09 July 2004

Amendment: Amendment to change the physical containment level for *Pichia pastoris* to PC1 in accordance with the Low-Risk Genetic Modification Regulations 2003.

Applicant: University of Auckland

Institution Code: GMO01/UA035 s67A

Application Code: GMD04123

Purpose: Expression and functional characterisation of adipocyte-specific secretory proteins

Decision Amendment Date: 06 July 2004

Amendment: Amendment to change the physical containment level to PC1 in accordance with the Low-Risk Genetic Modification Regulations 2003

Applicant: University of Otago

Institution Code: GMO00/UO077 s67A

Application Code: GMD01167

Purpose: To study plant genes and to develop *Nicotiana tabacum* and *Arabidopsis thaliana* to study the function and expression of genes involved in plant metabolism and development

Decision Amendment Date: 26 October 2004

Amendment: Amendment to wording of a control to clarify meaning and ensure consistency with other approvals

¹⁰ In this decision (GMF98009 Part 1 (approved 18 November 1999)) only two of the three genetic modifications applied for were approved. The decision on the genetic modification involving the insertion of the human myelin basic protein gene (MBP) was adjourned and subsequently approved in the decision GMF98009 Part 2 on 23 May 2001. This amendment does not apply to Decision GMF98009 Part 2.

HAZARDOUS SUBSTANCES

NOTIFIED APPLICATIONS AND PUBLIC SUBMISSIONS

The applications in the Bulletin are for reference only. Our public notification process includes alerts in four main daily newspapers with the full information and submission forms available on our website.

To ensure that you are advised directly about applications open for public submission contact us at info@ermanız.govt.nz to be added to our interested party list. You will need to nominate the types of applications that you are interested in.

Applicant: Taranaki Nuchem Limited

Application Code: HSR04060

Purpose: Sniper is an insecticide to control porina grass grub and clover flea in short fresh pasture and Scarid fly in commercial mushroom houses

Date Publicly Notified: 02 November 2004

Date Submissions Close: 14 December 2004

Applicant: Mattersmiths Holdings Limited

Application Code: HSR04062

Purpose: To import or manufacture SureBor, a timber preservative to be used on wood at industrial sites only

Date Publicly Notified: 04 November 2004

Date Submissions Close: 16 December 2004

Applicant: Phibro Animal Health

Application Code: HSR04022

Purpose: To import Monensin (mycelial form) for use as a raw material in the manufacture of medicated feeds for cattle, poultry, pigs, sheep and goats

Date Publicly Notified: 09 November 2004

Date Submissions Close: 18 January 2005

Applicant: Nalco New Zealand Limited

Application Code: HSR04042

Purpose: To import for release a corrosion inhibitor (EC1440A) used for protection of gas condensate pipeline

Date Publicly Notified: 10 November 2004

Date Submissions Close: 19 January 2005

Applicant: Reckitt Benckiser (New Zealand) Limited

Application Code: HSR04056

Purpose: To import RB-2-115, a laundry care product, into New Zealand

Date Publicly Notified: 10 November 2004

Date Submissions Close: 19 January 2005

Applicant: Phibro Animal Health

Application Code: HSR04021

Purpose: To import salinomycin (mycelial form) for use as a veterinary medicine

Date Publicly Notified: 11 November 2004

Date Submissions Close: 20 January 2005

Applicant: ATCO Controls Limited

Application Code: HSR04065

Purpose: To import Hardener H 58 to use as a hardener for a polyester varnish

Date Publicly Notified: 12 November 2004

Date Submissions Close: 21 January 2005

Applicant: Nalco New Zealand Limited

Application Code: HSR04049

Purpose: To import for release EC1120A, a product used in oil and gas well completion for corrosion control

Date Publicly Notified: 19 November 2004

Date Submissions Close: 28 January 2005

Applicant: Dow AgroSciences

Application Code: HSR04025

Purpose: To import or manufacture substances containing aminopyralid, for use as herbicides to control weeds in pastures. The substances are identified as GF-389, GF-871, GF-982, GF-1118 and GF-1397

Date Publicly Notified: 25 November 2004

Date Submissions Close: 03 February 2005

NON-NOTIFIED APPLICATIONS RECEIVED

Applicant: IRL BioPharm

Application Code: HSC04027

Purpose: To import or manufacture in containment a range of pharmaceutical ingredients which will be sold to research laboratories overseas

Date Formally Received: 20 October 2004

Applicant: Caledonian Holdings

Application Code: HSC04034

Purpose: To field test a substance to assess its efficacy and safety in stimulating the ovaries of horses

Date Formally Received: 15 November 2004

Applicant: Syngenta Crop Protection Limited

Application Code: HSC04035

Purpose: To import into containment the substance NZH7 to conduct field trials to evaluate whether the substance is suitable for use in New Zealand agriculture and horticulture and to provide data for a future release application (ERMA) and registration (ACVM)

Date Formally Received: 03 November 2004

Applicant: FMC Corporation

Application Code: HSC04036

Purpose: To evaluate the efficacy, crop safety and residue profile under New Zealand cropping conditions of two toxic and ecotoxic insecticides

Date Formally Received: 15 November 2004

APPLICATIONS WITHDRAWN

Applicant: Baker Petrolite

Application Code: HSR04052

Purpose: To import FLO XS Pipeline Booster a substance used in petroleum product pipelines where it reduces frictional pressure loss and increases fluid flow

Date Formally Received: 07 October 2004

Date Withdrawn: 02 November 2004

DECISIONS ON APPLICATIONS

Applicant: Feral R&D

Application Code: HSC04020

Purpose: To allow research and development of a new vertebrate toxic agent, testing the efficiency of bait containing micro encapsulated PAPP toxin for mustelid control

Decision Notified: 09 November 2004

Decision: Approved with Controls

Identifier for Substance: FeraCon

ERMA Approval Code: HSC000124

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that the following controls are also complied with.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. FeraCon shall only be manufactured at Feral R&D Limited premises in Auckland. The trials shall take place at Woodville Animal Test Facility, according to the Management Plan supplied with the application.
4. The maximum total quantity of FeraCon that shall be manufactured under this approval is 3 kg.
5. When not in use, FeraCon shall be held in locked storage throughout its lifecycle.
6. The substance shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001 for a substance with a 6.1C hazard classification, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001 for a substance with a 6.1C hazard classification. A Safety Data Sheet shall accompany each shipment.
7. The substance shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
8. Surplus substance remaining at the end of the trials shall be returned to Feral R&D Limited for secure storage in an exempt laboratory, or destroyed by incineration (note that once the trials are complete the substance does not have approval to be present in New Zealand except in an exempt laboratory).

9. All animal carcasses shall be incinerated after autopsy.
10. Any accidental spillage of the substance shall be contained, and placed in an appropriate container. These containers shall be incinerated or returned to Feral R&D Limited for incineration.
11. The location and movement of Feracon shall be recorded at each stage of its lifecycle.
12. Information on appropriate safety precautions necessary to provide safeguards against the substance's toxic and ecotoxic properties shall accompany the substance at all stages of its lifecycle. Personal protective equipment shall be worn when handling the substance throughout the lifecycle.
13. Occupational Safety & Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:

Substance name	FeraCon
ERMA Application number	HSC04020
ERMA Approval number	HSC000124
ERMA Applications Advisor	Beth Dye

14. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
15. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
16. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.

Applicant: Dow AgroSciences

Application Code: HSC04026

Purpose: To import or manufacture under containment for field testing WRS-X-D1 and WRS-X-D2 for the purpose of control of plant-damaging organisms in various horticultural crops

Decision Notified: 09 November 2004

Decision: Approved with Controls

Identifier for Substance: WRS-X-D1, WRS-X-D2

ERMA Approval Code: HSC000125-26

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The trials may be carried out at a location that is not defined until an infestation of the target pest has been found, only if the applicant;
 - has permission from the owner of the land to carry out the trial; and
 - notifies ERMA New Zealand of the locations as per control 22.
4. The trial sites shall be chosen so as to prevent the substances entering any surface water or groundwater system.
5. The trial sites shall be located to prevent any building where people live or work being exposed to the substances.
6. Access to the trial sites shall be by permission of the Trial Director¹¹ or owner of the property on which it is located. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trials. The trial sites shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the crops should not be removed or disturbed.
7. In any location where it is possible for grazing animals to access the trial site, the trial sites shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.

¹¹ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

8. The substances shall be stored in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004
9. The substances shall be mixed, diluted and prepared in any other way prior to application in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409:2004.
10. The substances shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. A Safety Data Sheet shall accompany each shipment.
11. The substances shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
12. The substances shall be applied by way of hand-held/operator-worn equipment, using hydraulic pressure or compressed CO2 or air on plots specifically designated and marked for each treatment, in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004. Special attention shall be paid to the minimisation of spray drift, and in particular to the avoidance of drift beyond boundaries agreed with the owner of the trial site.
13. The personnel applying the substances to the crops shall be able to demonstrate that they have the qualifications necessary to carry out the trial. Ways of demonstrating this would include the holding of an appropriate Growsafe certification or an Approved Handler qualification.
14. No sprayed produce shall be consumed by people or animals or offered for sale.
15. Sprayed produce shall be disposed of by ploughing in, by mulching or by burial at an approved landfill (not to be diverted to any composting operation).
16. The amount of spray prepared shall be adequate for the trial site, but if there is any surplus spray mix it shall be disposed of within the trial site by being further diluted and sprayed over a marked and designated non-crop and non-grazed area at the site.
17. Any equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of within the trial site by being sprayed over a marked and designated non-crop and non-grazed area at the site.
18. Surplus substances remaining at the end of the trials shall be returned to Dow AgroSciences Limited for secure storage in an exempt laboratory, exported or degraded to non-hazardous substances (note that once the trials are complete the substances do not have approval to be present in New Zealand except in an exempt laboratory).
19. Any accidental spillage of the unmixed substance or spray mix shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed into sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
20. A record shall be kept of all use of the substances. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations.
21. Information on appropriate safety precautions necessary to provide safeguards against the substances' toxic and ecotoxic properties shall accompany the substances at all stages of their lifecycle. Personal protective equipment shall be worn when handling the substance throughout the lifecycle.
22. Occupational Safety & Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:

Substance name	WRS-X-D1
ERMA Application number	HSC04026
ERMA Approval number	HSC000125
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-D2
ERMA Application number	HSC04026
ERMA Approval number	HSC000126
ERMA Applications Advisor	Beth Dye

23. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.

24. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
 25. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
 26. The maximum total quantity of WRS-X-D1 that shall be imported or manufactured under this approval is ten litres. The maximum total quantity of WRS-X-D2 that shall be imported or manufactured under this approval is ten litres.
6. Where it is possible for grazing animals to access the trial site, the trial site shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.
 7. The substance shall be prepared in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409.
 8. The substance shall be stored in a secure storage facility at Crop & Food Research, Palmerston North.
 9. The substance shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001.
 10. The substance shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
 11. All personnel in the trial area during treatment shall be required to wear full protective clothing including a suitable respirator or self-contained breathing apparatus.
 12. Any unused substance remaining at the end a trial shall be returned to the Crop & Food Research Facility for secure storage. (Note that once the trials are completed Mitemist Envirosol® does not have approval to be present in New Zealand except in an exempt laboratory).
 13. A record shall be kept of all use of the substance. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations.
 14. Information on appropriate safety precautions necessary to provide safeguards against the substance's toxic and ecotoxic properties shall accompany the substance at all stages of its lifecycle.
 15. Occupational Safety & Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing of the location, start, and completion of the trials. The OSH project manager shall be informed by fax or email at least three working days prior to application at specific sites.
 16. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, Tanenuiarangi Manawatu Incorporated be advised.

Applicant: New Zealand Institute for Crop & Food Research Limited

Application Code: HSC04014

Purpose: To trial, in containment, the substance Mitemist Envirosol to obtain efficacy and residue data

Decision Notified: 12 November 2004

Decision: Approved with Controls

Identifier for Substance: Mitemist Envirosol®

ERMA Approval Code: HSC000127

Controls:

1. The trials shall be undertaken in accordance with the Management Plan provided with the application. Modifications of the procedures may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls.
3. The Trial Director¹² shall ensure that Mitemist Envirosol® is applied through the hive entrances which shall be blocked during and immediately after treatment.
4. The relevant provisions of the Hazardous Substances (Compressed Gas) Regulations 2004 shall be complied with.
5. Access to the trial sites shall be by permission of the Trial Director. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trial. The trial site shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the hives should not be removed or disturbed.

¹² The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

17. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
18. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
19. The maximum quantity of Mitemist Envirosol® that shall be manufactured under this approval is 18kg.

Applicant: Dow AgroSciences

Application Code: HSC04028

Purpose: To import or manufacture under containment for field testing WRS-X-Q1, WRS-X-Q2, WRS-X-Q3, WRS-X-Q4 and WRS-X-Q5 for the purpose of control of plant-damaging organisms in various horticultural and agricultural crops

Decision Notified: 12 November 2004

Decision: Approved with Controls

Identifier for Substance: WRS-X-Q1, WRS-X-Q2, WRS-X-Q3, WRS-X-Q4, WRS-X-Q5

ERMA Approval Code: HSC000128-32

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The trials may be carried out at a location that is not defined until an infestation of the target pest has been found, only if the applicant;
 - has permission from the owner of the land to carry out the trial; and
 - notifies ERMA New Zealand of the locations as per control 22.
4. The trial sites shall be chosen so as to prevent the substances entering any surface water or groundwater system.
5. The trial sites shall be located to prevent any building where people live or work being exposed to the substances.
6. Access to the trial sites shall be by permission of the Trial Director¹³ or owner of the property on which it is located. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trials. The trial sites shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the crops should not be removed or disturbed.
7. In any location where it is possible for grazing animals to access the trial site, the trial sites shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.
8. The substances shall be stored in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004
9. The substances shall be mixed, diluted and prepared in any other way prior to application in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409:2004.
10. The substances shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. A Safety Data Sheet shall accompany each shipment.
11. The substances shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
12. The substances shall be applied by way of hand-held/operator-worn equipment, using hydraulic pressure or compressed CO₂ or air on plots specifically designated and marked for each treatment, in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004. Special attention shall be paid to the minimisation of spray drift, and in particular to the avoidance of drift beyond boundaries agreed with the owner of the trial site.
13. The personnel applying the substances to the crops shall be able to demonstrate that they have the qualifications necessary to carry out the trial. Ways of demonstrating this would include the holding of an appropriate Growsafe certification or an Approved Handler qualification.
14. No sprayed produce shall be consumed by people or animals or offered for sale.

¹³ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

15. Sprayed produce shall be disposed of by ploughing in, by mulching or by burial at an approved landfill (not to be diverted to any composting operation).
16. The amount of spray prepared shall be adequate for the trial site, but if there is any surplus spray mix it shall be disposed of within the trial site by being further diluted and sprayed over a marked and designated non-crop and non-grazed area at the site.
17. Any equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of within the trial site by being sprayed over a marked and designated non-crop and non-grazed area at the site.
18. Surplus substances remaining at the end of the trials shall be returned to Dow AgroSciences Limited for secure storage in an exempt laboratory, exported or degraded to non-hazardous substances (note that once the trials are complete the substances do not have approval to be present in New Zealand except in an exempt laboratory).
19. Any accidental spillage of the unmixed substance or spray mix shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed into sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
20. A record shall be kept of all use of the substances. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Class 6, 8 and 9 Controls) Regulations.
21. Information on appropriate safety precautions necessary to provide safeguards against the substances' toxic and ecotoxic properties shall accompany the substances at all stages of their lifecycle. Personal protective equipment shall be worn when handling the substance throughout the lifecycle.
22. Occupational Safety & Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:

Substance name	WRS-X-Q1
ERMA Application number	HSC04028
ERMA Approval number	HSC000128
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-Q2
ERMA Application number	HSC04028
ERMA Approval number	HSC000129
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-Q3
ERMA Application number	HSC04028
ERMA Approval number	HSC000130
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-Q4
ERMA Application number	HSC04028
ERMA Approval number	HSC000131
ERMA Applications Advisor	Beth Dye

Substance name	WRS-X-Q5
ERMA Application number	HSC04028
ERMA Approval number	HSC000132
ERMA Applications Advisor	Beth Dye

23. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
24. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
25. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
26. The maximum total quantity of the five substances that shall be imported or manufactured under this approval is ten litres for each substance.

Applicant: Osmose New Zealand

Application Code: HSR03028

Purpose: To manufacture ACQ Timber Preservative, a combination fungicide/insecticide treatment for timber and wood products

Decision Notified: 24 November 2004

Decision: Approved with Controls

Identifier for Substance: ACQ Timber Preservative

Classification: 8.1A metal corrosive, 6.1D acute oral toxicant, 6.1D acute oral toxicant, 6.1E acute inhalation toxicant, 8.2C skin corrosive, 8.3A eye corrosive, 6.5A respiratory sensitizer, 6.5B contact sensitizer, 6.9B target organ systemic toxicant, 9.1A highly toxic to aquatic environment, 9.3C toxic to terrestrial vertebrates

ERMA Approval Code: HSR000940

Controls:

Control Code ¹⁴	Regulation ¹⁵	Explanation ¹⁶
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Toxic Property Controls		
T2	29, 30	Controlling exposure in places of work
T4, E6	7	Requirements for equipment used to handle hazardous substances
T5	8	Requirements for protective clothing and equipment
T7	10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E1	32–45	Limiting exposure to ecotoxic substances
E5	5(2), 6	Requirements for keeping records of use
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I2	8	Priority identifiers for corrosive substances
I3	9	Priority identifiers for ecotoxic substances
I8	14	Priority identifiers for certain toxic substances
I9	18	Secondary identifiers for all hazardous substances
I10	19	Secondary identifiers for corrosive substances
I11	20	Secondary identifiers for ecotoxic substances
I16	25	Secondary identifiers for toxic substances
I17	26	Use of Generic Names

14 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control Regulations*.

15 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

16 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

I18	27	Use of Concentration Ranges
I19	29–31	Alternative information in certain cases
I20	36(8)	Durability of information for class 6.1 substances
I21	37–39, 47–50	Documentation required in places of work
I22	40	Specific documentation requirements for corrosive substances
I23	41	Specific documentation requirements for ecotoxic substances
I28	46	Specific documentation requirements for toxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
I30	53	Advertising corrosive and toxic substances
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P13, P14, P15	19, 20, 21	Packaging requirements for ACQ Timber Preservative
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII)
Hazardous Substances (Disposal) Regulations 2001		
D4, D5	8, 9	Disposal requirements for ACQ Timber Preservative
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM2	8(a)	Information requirements for corrosive substances
EM6	8(e)	Information requirements for toxic substances
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage
Controls under section 77A		
ACQ Timber Preservative shall only be used as an agent in the preservation treatment of timber, (section 77A(3)(a)).		

The controls relating to stationary container systems, set out in Schedule 8 of the New Zealand Gazette notice of Thursday, 25 March 2004, Issue Number 35, shall apply, as applicable, (section 77A(3)(b)), notwithstanding clause (1)(1) of the schedule.

The controls relating to secondary containment, set out in Schedule 9 of the New Zealand Gazette notice of Thursday, 25 March 2004, Issue Number 35, shall apply, as applicable, (section 77A(3)(b)), notwithstanding clause (1)(1) of the schedule.

Applicant: BASF New Zealand

Application Code: HSC04032

Purpose: To field test the substance BNZ0204 to assess the efficacy and phytotoxicity

Decision Notified: 25 November 2004

Decision: Approved with Controls

Identifier for Substance: BNZ0204

ERMA Approval Code: HSC000133

Controls:

1. The trials shall be undertaken in accordance with the Management Plan, which accompanied the application. Modifications of the Management Plan may be approved in writing by ERMA New Zealand providing that they comply with the following controls.
2. Notwithstanding the requirements of control 1 above, the trials shall also comply with the following controls:
3. The trials may be carried out at a location that is not defined until an infestation of the target pest has been found, only if the applicant;
 - has permission from the owner of the land to carry out the trial; and
 - notifies ERMA New Zealand of the location as per control 22.
4. The trial sites shall be chosen so as to prevent the substance entering any surface water or groundwater system.
5. The trial sites shall be located to prevent any building where people live or work being exposed to the substance.
6. Access to the trial sites shall be by permission of the Trial Director¹⁷ or owner of the property on which it is located. The trial site boundaries shall be clearly marked and distinctly visible from outside the trial site throughout the life of the trials. The trial sites shall be signed indicating that unauthorised access is not allowed, that the site is subject to a trial, and that the crops should not be removed or disturbed.
7. In any location where it is possible for grazing animals to access the trial site, the trial sites shall be secured by stock proof fencing to exclude grazing animals for the duration of the trial.
8. The substance shall be stored in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004.
9. The substance shall be mixed, diluted and prepared in any other way prior to application in accordance with the relevant sections of the Code of Practice for the Management of Agrichemicals NZS8409:2004.
10. The substance shall be securely packed in suitable containers that comply with the Hazardous Substances (Packaging) Regulations 2001, and shall be labelled in accordance with the Hazardous Substances (Identification) Regulations 2001. A Safety Data Sheet shall accompany each shipment.
11. The substance shall be transported in compliance with any relevant requirements of the Land Transport Rule: Dangerous Goods 1999.
12. The substance shall be applied by way of hand-held/operator-worn equipment, using hydraulic pressure or compressed CO₂ or air on plots specifically designated and marked for each treatment, in accordance with the Code of Practice for the Management of Agrichemicals NZS8409:2004. Special attention shall be paid to the minimisation of spray drift, and in particular to the avoidance of drift beyond boundaries agreed with the owner of the trial site.
13. The personnel applying the substance to the crops shall be able to demonstrate that they have the qualifications necessary to carry out the trial. Ways of demonstrating this would include the holding of an appropriate Growsafe certification or an Approved Handler qualification.
14. No sprayed produce shall be consumed by people or animals or offered for sale.

¹⁷ The Trial Director is the individual appointed by the applicant to be responsible for the overall conduct of the trial in accordance with the Management Plan and approval controls.

15. Sprayed produce shall be disposed of by ploughing in, by mulching or by burial at an approved landfill (not to be diverted to any composting operation).
16. The amount of spray prepared shall be adequate for the trial site, but if there is any surplus spray mix it shall be disposed of within the trial site by being further diluted and sprayed over a marked and designated non-crop and non-grazed area at the site.
17. Any equipment used shall be rinsed after use with the appropriate detergent or decontaminant, and rinsate disposed of within the trial site by being sprayed over a marked and designated non-crop and non-grazed area at the site.
18. Surplus substance remaining at the end of the trials shall be returned to BASF New Zealand Limited for secure storage in an exempt laboratory, exported or degraded to non-hazardous substances (note that once the trials are complete the substances do not have approval to be present in New Zealand except in an exempt laboratory).
19. Any accidental spillage of the unmixed substance or spray mix shall be contained, prevented from entering waterways, and absorbed with an appropriate absorbent material. This material shall be placed into sealed containers and disposed of at an appropriate waste disposal facility (which may include a landfill), subject to the facility's waste acceptance policy.
20. A record shall be kept of all use of the substance. This record shall cover all matters referred to in Regulation 6 of the Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001.
21. Information on appropriate safety precautions necessary to provide safeguards against the substance's toxic and ecotoxic properties shall accompany the substance at all stages of its lifecycle. Personal protective equipment shall be worn when handling the substance throughout the lifecycle.
22. Occupational Safety & Health, Head Office [Attn. HSNO Project Manager (OSH) or equivalent position] and ERMA New Zealand shall be informed in writing (by letter, fax or email) of the location, start, and completion of the trials. Notifications shall include the following details:

Substance name	BNZ0204
ERMA Application number	HSC04028
ERMA Approval number	HSC000133
ERMA Applications Advisor	Beth Dye

23. If for any reason a breach of containment occurs, the Trial Director shall notify OSH and ERMA New Zealand within 24 hours of the breach being detected. It is suggested that if a breach in containment results in contamination of a waterway, the relevant iwi authorities be advised.
24. The Authority or its authorised agent or properly authorised enforcement officers, may inspect the facilities and trial sites at any reasonable time.
25. This approval remains in place for the term of any concurrent approval required under the Agricultural Compounds and Veterinary Medicines Act 1997, to a maximum of five years.
26. The maximum total quantity of the substance that shall be imported or manufactured under this approval is twelve litres.

Applicant: Polychem Marketing Limited

Application Code: HSR04038

Purpose: To import Limed Rosin Solution, a raw material in the paint, ink and varnish industries

Decision Notified: 26 November 2004

Decision: Approved with Controls

Identifier for Substance: Limed Rosin Solution

Classification: 3.1C Flammable Liquid, 6.1E Acute Toxicity (aspiration hazard), 6.3B Skin Irritant, 6.4A Eye Irritant, 6.5B Contact Sensitiser, 6.9B Target Organ Systemic Toxicant, 9.1C Toxic to Aquatic Environment

ERMA Approval Code: HSR000941

Controls:

Control Code ¹⁸	Regulation ¹⁹	Explanation ²⁰
Hazardous Substances (Classes 1 to 5 Control Regulations) Regulations 2001 - Flammable Property Controls		
F1	7	General test certification requirements for all class 1 to 5 substances
F3	55	General limits on flammable substances
F5	58–59	Requirements regarding hazardous atmosphere zones for Limed Rosin Solution
F6	60–70	Requirements to prevent unintended ignition of Limed Rosin Solution
F11	76	Segregation of incompatible substances
F12	77	General requirement for hazardous substance locations for flammable substances
F14	81	Test certification requirements for facilities where Limed Rosin Solution is present
F16	83	Controls on transit depots where flammable substances are present
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Toxic Property Controls		
T2	29,30	Controlling exposure in places of work
T4 and E6	7	Requirements for equipment used to handle Limed Rosin Solution
T5	8	Requirements for protective clothing and equipment
T7 and F2	10 and 8 of the Hazardous Substances (Class 1-5 Controls) Regulations 2001	Restrictions on the carriage of hazardous substances on passenger service vehicles
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E1	32–45	Limiting exposure to ecotoxic substances
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances
I5	11	Priority identifiers for flammable substances
I8	14	Priority identifiers for certain toxic substances
I9	18	Secondary identifiers for all hazardous substances
I11	20	Secondary identifiers for ecotoxic substances
I13	22	Secondary identifiers for flammable substances

18 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control Regulations*.

19 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

20 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

I16	25	Secondary identifiers for toxic substances
I17	26	Use of Generic Names
I18	27	Use of Concentration Ranges
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I25	43	Specific documentation requirements for flammable substances
I28	46	Specific documentation requirements for toxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
I30	53	Advertising corrosive and toxic substances
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P5 & P13	11 & 19	Packaging requirements for Limed Rosin Solution
PG3	Schedule 3	This schedule provides the test methods for packaging required to be tested in accordance with this schedule. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII)
PS4	Schedule 4	This schedule describes the (minimum) packaging requirements that must be complied with for this substance
Hazardous Substances (Disposal) Regulations 2001		
D2	6	Disposal requirements for flammable substances
D4 & D5	8 & 9	Disposal requirements for Limed Rosin Solution
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM6	8(e)	Information requirements for toxic substances
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM9	17	Specific documentation requirements for Limed Rosin Solution
EM10	21–24	Fire extinguishers
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage

Controls under section 77A

Limed Rosin Solution shall only be used as a raw material in industrial manufacturing facilities.

The controls relating to adverse effects of unintended ignition of class 2 and class 3.1 hazardous substances, set out in Schedule 10 of the Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004, shall apply, notwithstanding clause (1) of the schedule.

DELEGATED AUTHORITY

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached a decision on the following applications:

Applicant: Elliott Technologies Limited

Application Code: HSR04057

Purpose: To import or manufacture Linflo 450, for use as a herbicide in agriculture and horticulture

Decision Notified: 12 November 2004

Decision: Approved with Controls

Identifier for Substance: Linflo 450

ERMA Approval Code: HSR000938

Controls:

Control Code ²¹	Regulation ²²	Explanation ²³
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Toxic Property Controls		
T2	29, 30	Controlling exposure in places of work
T3	5(1), 6	Requirements for keeping records of use
T4	7	Requirements for equipment used to handle hazardous substances
T5	8	Requirements for protective clothing and equipment
T7	10	Restrictions on the carriage of hazardous substances on passenger service vehicles
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 - Ecotoxic Property Controls		
E7	9	Approved Handler requirements
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I3	9	Priority identifiers for ecotoxic substances
I8	14	Priority identifiers for certain toxic substances
I9	18	Secondary identifiers for all hazardous substances

21 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control Regulations*.

22 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

23 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

I11	20	Secondary identifiers for ecotoxic substances
I16	25	Secondary identifiers for toxic substances
I17	26	Use of Generic Names
I18	27	Use of Concentration Ranges
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I23	41	Specific documentation requirements for ecotoxic substances
I28	46	Specific documentation requirements for toxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
I30	53	Advertising toxic substances
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P13, P15	19, 21	Packaging requirements for Linflo 450
PG3	Schedule 3	This schedule describes the (minimum) packaging requirements that must be complied with for this substance. The tests in Schedule 3 correlate to the packaging requirements of UN Packing Group III (UN PGIII).
PS4	Schedule 4	This schedule describes the (minimum) packaging requirements that must be complied with for this substance.
Hazardous Substances (Disposal) Regulations 2001		
D4, D5	8, 9	Disposal requirements for toxic substances
D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM6	8(e)	Information requirements for toxic substances
EM7	8(f)	Information requirements for ecotoxic substances
EM8	12–16, 18–20	Level 2 emergency management information requirements
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage
Hazardous Substances (Personnel Qualification) Regulations 2001		
AH1	4–6	Approved Handler requirements

Applicant: Baker Petrolite

Application Code: HSR04064

Purpose: To import FLO XS Pipeline Booster a substance used in petroleum product pipelines where it reduces frictional pressure loss and increases fluid flow

Decision Notified: 16 November 2004

Decision: Approved with Controls

Identifier for Substance: Flo XS

Classification:

Hazardous property	Flo XS	Reference Substance
Flammable liquid	3.1A	3.1A
Acute toxicity	6.1E Acute oral toxicant (aspiration hazard and dermal toxicant)	6.1E Acute oral toxicant (aspiration hazard)
Skin Irritation	-	6.3B
Eye irritation	6.4A	6.4A
Aquatic ecotoxicant (crustacea)	-	9.1D

ERMA Approval Code: HSR000939

Controls:

Control Code ²⁴	Regulation ²⁵	Explanation ²⁶
Hazardous Substances (Classes 1 to 5 Control Regulations) Regulations 2001 - Flammable Property Controls		
F1	7	General test certification requirements for all class 1 to 5 substances
F2, T7	8 and Regulation 10 of Classes 6, 8 & 9 Controls Regulations	General public transportation restrictions and requirements for all class 1 to 5 substances
F3	55	General limits on flammable substances
F4	56	Certain flammable substances to be under the control of an approved handler
F5	58–59	Requirements regarding hazardous atmosphere zones for flammable liquids (3.1)
F6	60–70	Requirements to prevent unintended ignition of flammable liquids (3.1)
F11	76	Segregation of incompatible substances
F12	77–78	General requirement for hazardous substance locations for flammable substances
F14	81	Test certification requirements for facilities where class 3.1 substances are present

24 Note: The numbering system used in this column relates to the coding system used in the ERMA New Zealand Controls Matrix. This links the hazard classification categories to the regulatory controls triggered by each category. It is available from the ERMA New Zealand website www.ermanz.govt.nz/resources and is also contained in the ERMA New Zealand *User Guide to HSNO Control Regulations*.

25 These Regulations form the controls applicable to this substance. Refer to the cited Regulations for the formal specification, and for definitions and exemptions. The accompanying explanation is intended for guidance only.

26 These explanations are for guidance only. Refer to the cited Regulations for the formal specification, and for definitions and exemptions.

F16	83	Controls on transit depots where flammable substances are present
Gazette Notice Issue 35		
GN35A	Gazette Notice Issue 35	Schedule 10 of Gazette Notice Issue 35 - Hazardous Substances (Dangerous Goods and Scheduled Toxic Substances) Transfer Notice 2004 prescribes additional requirements relating to controlling the adverse effects of unintended ignition of class 3.1 flammable substances
Hazardous Substances (Classes 6, 8 and 9 Controls) Regulations 2001 –Toxic Property Controls		
T2	29, 30	Controlling exposure in places of work
T4	7	Requirements for equipment used to handle hazardous substances
Hazardous Substances (Identification) Regulations 2001		
I1	6, 7, 32–35, 36 (1)–(7)	General identification requirements
I5	11	Priority identifiers for flammable substances
I8	14	Priority identifiers for certain toxic substances
I9	18	Secondary identifiers for all hazardous substances
I13	22	Secondary identifiers for flammable substances
I16	R 25	Secondary identifiers for toxic substances
I19	29–31	Alternative information in certain cases
I21	37–39, 47–50	Documentation required in places of work
I25	43	Specific documentation requirements for flammable substances
I28	46	Specific documentation requirements for toxic substances
I29	51–52	Duties of persons in charge of places with respect to signage
I30	53	Advertising toxic substances
Hazardous Substances (Packaging) Regulations 2001		
P1	5, 6, 7 (1), 8	General packaging requirements
P3	9	Packaging requirements for substances packed in limited quantities
P5	11	Packaging requirements for flammable liquids (subclass 3.1)
P13,	19	Packaging requirements for Flo XS
PG1	Schedule 1	This schedule describes the (minimum) packaging requirements that must be complied with for this substance. The tests in Schedule 1 correlate to the packaging requirements of UN Packing Group I (UN PGI)
PS4	Schedule 4	This schedule describes the (minimum) packaging requirements that must be complied with for this substance
Hazardous Substances (Disposal) Regulations 2001		
D2	6	Disposal requirements for flammable substances
D4	8	Disposal requirements for toxic substances

D6	10	Disposal requirements for packages
D7	11, 12	Disposal information requirements
D8	13, 14	Disposal documentation requirements
Hazardous Substances (Emergency Management) Regulations 2001		
EM1	6, 7, 9–11	Level 1 emergency management information: General requirements
EM6	8(e)	Information requirements for toxic substances
EM8	12–16, 18–20	Level 2 emergency management documentation requirements
EM9	17	Specific documentation requirements for flammable and oxidising substances and organic peroxides
EM10	21-24	Fire extinguishers
EM11	25–34	Level 3 emergency management requirements – emergency response plans
EM12	35–41	Level 3 emergency management requirements – secondary containment
EM13	42	Level 3 emergency management requirements – signage
Hazardous Substances (Personnel Qualification) Regulations 2001		
AH1	4–6	Approved Handler requirements
TR1	4(1), 5, 6	General tracking requirements

TEST CERTIFIERS

The Chief Executive of the Environmental Risk Management Authority, acting under delegated power from the Authority, reached decisions on the following applications. The full requirements and limitations for the following Test Certifiers is available on our public register or website.

Applicant: Ronald Dobbs

Region: Northland

Decision: Approved with Limitations

Date of Approval: 04 November 2004

ERMA Approval Code: TST000102

Applicant: Murray Beare

Region: Waikato

Decision: Approved with Limitations

Date of Approval: 05 November 2004

ERMA Approval Code: TST000100

Applicant: Roland Tan

Region: Auckland

Decision: Approved with Limitations

Date of Approval: 15 November 2004

ERMA Approval Code: TST000104

Applicant: Terry Blake

Region: Wellington

Decision: Approved with Limitations

Date of Approval: 15 November 2004

ERMA Approval Code: TST000105

Applicant: Richard Singleton

Region: Taranaki

Decision: Approved with Limitations

Date of Approval: 15 November 2004

ERMA Approval Code: TST000103

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