

29 May 2015

Commissioner Weatherall & Commissioner Pullar  
C/o. Howard Alchin, Senior Planner  
Gore District Council  
PO Box 8  
Gore 9740

Mataura Resource Consent Hearing  
IZ001300

## Provision of Supplementary Information

Dear Commissioners,

### 1. Introduction

Taha Fertilizer Industries Limited (Taha) seeks land use consent from Gore District Council (Council) to store Ouvea Premix plus a small number of other hazardous substances in minor quantities in the former Mataura Paper Mill buildings. The resource consent application hearing was adjourned on 14 May 2015 pending the provision of further information as requested by the Commissioners.

On 20 May 2015, Counsel filed a Memorandum of Counsel outlining the information Taha would provide to the Commissioners and a timeframe for providing this information. The timeframe included the provision of readily available information by 29 May 2015, and the provision of all remaining information by 3 July 2015.

By the 29 May 2015, the applicant agreed to provide the following information:

- (a) an assessment of flood protection measures that can be permanently installed, including a proposed timeframe for permanent installation;
- (b) a definitive status of what material is currently stored on site and where it is stored, including:
  - i. a marked-up site layout plan showing the quantities of material and where material is stored;
  - ii. an assessment on whether other material could be permanently removed from the site (e.g. Sulphate of Ammonia and Citric Acid Crystals); and
  - iii. if any movements are proposed as per (ii), an outline of steps taken to instigate this removal, traffic management, proposed consultation and a timeframe;
- (c) an outline of the process for drafting Safety Data Sheets (SDS) and obtaining the Status of Substance (SoS) for Ouvea Premix, including independent tests that have been undertaken and the status of other mixes;

- (d) the correct SDS for Ouvea Premix and Aluminium Dross, and the full EPA SoS decision document with appendices;
- (e) the correct street address for buildings;
- (f) a summary of communications with NZTA;
- (g) a draft communications plan through the Community Liaison Group;
- (h) a detailed timeframe for removal; and
- (i) more detail on company structure and relationships between companies and key personnel.

In your Minute of 22 May 2015, you accepted the provision of information and timeframe, which was again confirmed by the applicant in the Memorandum of Counsel, dated 28 May 2015.

For completeness and ease of reference, this letter provides a package of information I have obtained from Taha representatives, Jacobs New Zealand Limited (Jacobs) and Greg Paterson to respond to the information requests, and particularly the information Taha agreed to provide by 29 May 2015.

## **2. Flood protection measures to be permanently installed**

Appendix A contains a memorandum from Nathan Burgess, Plant Manager at Taha, providing an update on Taha's consideration of permanently installing flood protection measures.

In summary, through consultation with Mr Tony Dackers of Fire Compliance Limited, Taha has identified that, from a fire safety point of view, it will not be possible to permanently install steel panels across the "man doors" (i.e. the doors used to enter and exit the building). However, it will be possible to permanently install steel panels across the roller doors as these doors are only used for loading and unloading materials. Doing so would reduce the time required for installing flood response measures in a flood situation.

Taha is assessing which doors could be permanently blocked without affecting loading operations. The outcome of this assessment will be provided as part of the Flood Protection Plan as supplementary evidence by 3 July 2015.

## **3. Definitive status of material stored on site**

Taha has confirmed that the following list of materials represents an accurate reflection of the material currently stored at Mataura:

- Ouvea Premix, made up of:
  - Cast-House Ouvea Premix: 7,556 tonnes
  - Landfill Ouvea Premix: 1,614 tonnes
  - Bag-house Ouvea Premix: 774 tonnes
  - MRP Bag-House Ouvea Premix: 8 tonnes
- Sulphate of Ammonia: 8 tonnes

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- Citric Acid: 350 kg
- Diesel: 100 litres

The list is based on TNL's trucking records of material that has been transported from the NZAS smelter to the site. As such, I understand that any variance from this list is expected to be minimal.

Appendix B contains a Site Layout Plan, which has been marked-up by Taha, indicating exactly in which buildings and where in the buildings material are stored and estimated amounts. It should be noted that the Site Layout Plan is based on a visual inspection of the site so the actual amounts are an approximate. As such, the total of amounts in the Site Layout Plan varies slightly from the definitive amount indicated in this memo.

Regarding the non-Ouvea material, Taha has undertaken an assessment of which of these materials could be removed permanently. Appendix C contains a memo from Mr Burgess detailing the outcome of this assessment.

In summary, the sulphate of ammonia is the only (non-Ouvea) material Taha considers could be removed from the site. Taha has suggested this material could be removed and transported to Taha's storage site on Liddel St, which has resource consent to store up to 200 tonnes of sulphate of ammonia. The diesel is required for forklifts and the citric acid crystals are used as a mitigation measure to reduce ammonia gas emissions in the building. As such, Taha does not consider removing these materials to be viable.

Taha has advised that the intention is also to remove the 8 tonnes of MRP Bag-House material from the site and return it to Taha Asia Pacific prior to obtaining resource consent for storage.

#### **4. Safety Data Sheets and Status of Substance for Ouvea Premix**

Appendix D contains a memo from Jacobs to clarify the current status of the Cast-House Ouvea Premix Safety Data Sheet (SDS) and Status of Substance (SoS). The memo also describes the process by which the Ouvea Premix SoS request was made, how the SDS was drafted (including independent testing of Ouvea Premix for composition analysis) and subsequent material testing on Ouvea Premix. The memo also provides a status update on SDS's for Landfill and Bag-House Ouvea Premix.

The memo contains the current SDS for Cast-House Ouvea Premix (dated 12 August 2013). I have also attached the SDS for Aluminium Dross, which I obtained from Taha, as Appendix E to this report. I understand Jacobs was not involved in drafting this SDS.

#### **5. Correct Street Address**

I have confirmed with Greg Paterson that the correct street address for the buildings occupied by Taha is as follows:

- The buildings on the river-side of Kana Street have the street address 65-121 Kana Street (Valuation No. 29860/430.00); and
- The buildings on the bank-side of Kana Street have the street address 116-128 Kana Street (Valuation No. 29860/499.00)

## **6. Communications with NZTA**

Appendix F contains a file note regarding the current status of consultation with NZTA. In summary, NZTA provided written approval on the original consent application on 3 October 2014. Through the Officer's section 95 report, we were advised that NZTA had withdrawn its approval. We were further advised from NZTA on 26 March 2015 that NZTA had withdrawn approval as they had concerns about the access arrangements and particularly whether loading / unloading would occur on site.

I discussed NZTA's concerns about loading with James Coutts, Planning Advisor at NZTA. Subsequently, I provided information to NZTA on 7 May 2015 confirming that loading / unloading will occur on site. This will be addressed in the Traffic Management Plan, which is currently being drafted. We have not received any further communications from NZTA on the matter.

## **7. Draft communications plan through the Community Liaison Group**

Taha has advised that they will set up a Community Liaison Group, as suggested by the Commissioners. Appendix G contains a memo from Mr Burgess regarding the status of discussions with the Community Liaison Group. In summary, Mr Burgess has confirmed that Alan Taylor, Howard Alchin and Lindsay Buckingham will meet to discuss the scope and format of the Community Liaison Group on 11 June 2015 and develop a communications plan.

## **8. Detailed timeframe for removal**

Appendix H provides an updated and a more detailed schematic of the project management plan for Taha to develop the site at Awarua and move materials from the Mataura site to Awarua, which was drafted by Mr Lindsay Buckingham, Project Manager. This document will form part of supplementary evidence to be provided by Mr Buckingham by 3 July 2015, including an update on progress with confirming the Awarua site.

## **9. Company structure and personnel**

Mr John Witter is the Managing Director for Taha International for Industrial Services (Bahrain) and Chairman of Taha International S.A (Luxemburg). Mr Witter has provided an overview of the company structure and relationships, and this information will be presented as evidence from Mr Witter by 3 July 2015. In summary:

- Taha International S.A. is the registered company for Taha with the registered company headquarters based in Luxemburg. Taha International Industrial Services W.L.L is the operational company for Taha, with the operational headquarters based in Bahrain.
- Taha Asia Pacific Industries Limited and Taha Fertilizer Industries Limited are New Zealand registered companies. Both companies report to a New Zealand-based Director, who reports to the Company's Chief Operating Officer, who then reports to Mr Witter and the Board of Directors.
- Both the New Zealand Director and Chief Operations Officer positions are currently vacant and the Board is actively recruiting to fill these positions. Two candidates have been short listed and will be interviewed by Taha's equity investors next month. Both candidates have extensive operational experience in the aluminium industry, specifically in the field of dross processing.
- Until the New Zealand Director position is filled, the Board has engaged Mr Buckingham to manage the New Zealand-based operations and specifically to secure an integrated site in

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Southland. Br Buckingham reports directly to the Board of Directors. For the time-being, NZ-based managers are channelling information through Mr Buckingham to the Board.

For all matters relating to Taha's operations in New Zealand, Mr Buckingham is the primary contact. This will remain the case until a New Zealand Director has been appointed. Mr Buckingham's contact details are 0275255443 or [lindsay.buckingham@extra.co.nz](mailto:lindsay.buckingham@extra.co.nz).

For all operational matters relating to Taha Asia Pacific Industries Limited and its activities at the Tiwai Point Smelter, Maurice Shaw, Plant Manager, is the primary contact. Mr Shaw's contact details are 021 550 218 or [maurice@tahacorp.com](mailto:maurice@tahacorp.com).

For all operational matters relating to Taha Fertilizer Industries Limited and its activities at Bond Row and in Mataura, Nathan Burgess, Plant Manager, is the primary contact. Mr Burgess's contact details are 027 230 8663 or [nathan@tahacorp.com](mailto:nathan@tahacorp.com).

## 10. Next steps

I trust the information I have provided is sufficient. As agreed, Taha and Jacobs will provide all remaining information requested by the Commissioners by 3 July 2015.

Yours sincerely



**Tess Drewitt**

Environmental Consultant

04 914 8414

[Tess.Drewitt@Jacobs.com](mailto:Tess.Drewitt@Jacobs.com)

CC: Lindsay Buckingham, Project Manager  
John Witter, Taha Board of Directors  
Nathan Burgess, Taha Plant Manager  
Maurice Shaw, Taha Plant Manager  
Robert Makgill, Counsel for Taha

## **Appendix A. Permanent installation of flood protection measures**

# Memorandum

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**To:** Tess Drewitt, Environmental Consultant, Jacobs

**CC:** Maurice Shaw, Lindsay Buckingham, Michael Oldenhof, John Witter, Frank Pollmann,  
Robert Makgill

**From:** Nathan Burgess, Plant Manager, Taha Fertiliser Industries

**Date:** 28/05/2015

**Re:** Assessment of Flood protection measures that could be permanently installed.

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## PRE FITTING FLOOD PROTECTION PANELS

At the hearing for Taha's resource consent application, it was suggested as a precautionary measure, and to reduce time taken to install panels in a flood event, where possible steel panels forming part of the buildings flood protection, could be fitted permanently.

On Mon 18<sup>th</sup> May I contacted Tony Dackers, Managing Director of Fire Protection Compliance Limited, for information on which doors could have panels permanently fitted, which would block the door off meaning it could no longer be used as a fire escape.

Tony suggested that permanently blocking the doors with steel panels would not be an allowable practice, as the doorways need to be accessible and usable if there was a fire or emergency situation where people needed to evacuate the building.

The opportunity exists for some of the larger (roller) doors to have the steel panels fitted to them permanently. These doors are primarily used for loading and unloading goods or vehicle access to the buildings so wouldn't necessarily be used as an exit/escape door in a fire or an emergency situation.

This option has been confirmed as being allowable by Tony Dackers, Managing Director of Fire Protection Compliance Limited.

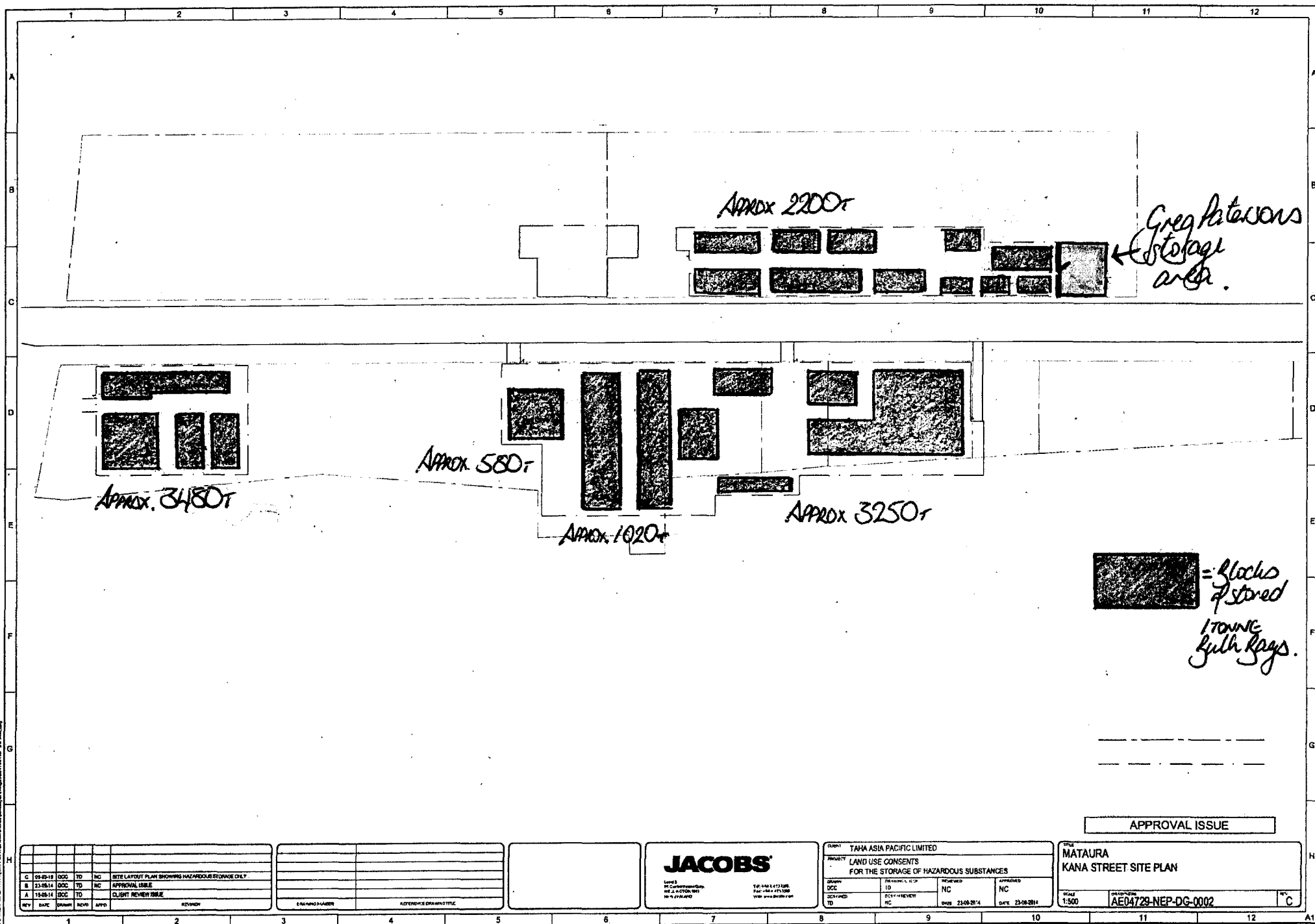
Erecting these panels on these doors would minimise the overall time to install all panels in a flood event as the time taken and difficulty to fit panels to the larger doors far exceeds fitting panels to the 'man doors'.

We will assess which roller doors will not be required for moving and or removing product, and take the steps to get them fitted where possible. The outcome will be presented as part of the Flood Protection Plan as supplementary evidence by 3 July 2015.



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## **Appendix B. Site Layout Plan**



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## Appendix C. Removal on non-Ouvea product

# Memorandum

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**To:** Tess Drewitt, Environmental Consultant, Jacobs

**CC:** Maurice Shaw, Lindsay Buckingham, Michael Oldenhof, John Witter, Frank Pollmann,  
Robert Makgill

**From:** Nathan Burgess, Plant Manager, Taha Fertiliser Industries Limited

**Date:** 28/05/2015

**Re:** Removal of non Ouvea product

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## Removal of non Ouvea product

Currently at the former Carter Holt Harvey paper mill in Mataura, Taha Asia Pacific/Taha Fertiliser Industries are storing its product 'Ouvea Premix'.

Currently in storage at the site is 9952 tonne of Ouvea premix, 8 tonne of Sulphate of Ammonia, approx. 350 kilograms of Citric Acid, and up to 100 litres of diesel.

During discussion arising from the recent Resource Consent application hearing, the possibility of removing 'non Ouvea' products from the facility has been mooted.

The removal of the bulk bags containing Sulphate of Ammonia could be easily achieved. This would be best done by back loading a truck returning from Dunedin, using TNL our regular transport company.

At the time of removing the SOA, the 8.473 tonne of MRP Bag House fines (stored in 1t Bulk Bags) could also be removed. This product would be returned to Taha Asia Pacific.

I would suggest that the removal of the Citric Acid would be unwise, as this product is there as a mitigation measure should an isolated amount of Ouvea happen to become wet. (The Citric Acid is utilised to absorb any Ammonia if it is in fact being produced)

### In summary the following steps could be achieved:

- Transport SOA to Liddel Street storage facility (Invercargill), which has resource consent to store up to 200 tonne of SOA.
- Transport MRP Bag House fines to Taha Asia Pacific.
- Leave Citric Acid in situ.



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## **Appendix D. SDS and SoS**

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<b>Date</b>	25 May 2015
<b>To</b>	Tess Drewitt, Environmental Consultant, Jacobs
<b>From</b>	Chris Bender, Air Quality Scientist, Jacobs
<b>Subject</b>	<b>Supplementary information re Safety Data Sheets and Status of Substance for Ouvea Premix</b>

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## 1. Purpose

This memo provides an overview of the process that Jacobs New Zealand Limited (Jacobs) has followed to:

- (a) Apply for the Status of Substance (SoS) for Cast-House Ouvea Premix from the Environmental Protection Authority (EPA); and
- (b) Draft the finalised Safety Data Sheet (SDS) for Cast-house Ouvea Premix.

This memo also provides a summary of the material testing that has been undertaken to date to support to SoS and SDS for Cast-House Ouvea Premix, and the status of the SDS's currently being drafted for the following additional materials stored at the Maitauna site:

- (a) Landfill Ouvea Premix
- (b) Bag-house Ouvea Premix

This memo is provided as supplementary information for Taha Fertilizer Industries Limited's (Taha) resource consent application to store Ouvea Premix at its storage site in Maitauna.

## 2. Status of Substance

### 2.1 What is a status of substance

Anyone can make a SoS request to the EPA to determine whether a substance is hazardous and, if so, whether it is covered by an existing approval. Based on information provided in the application, including product composition, uses, toxicity, and flammability, the advice provided by the EPA determines:

- Whether or not a substance is hazardous
- Whether the substance is covered by an existing approval
- Whether a new approval is required

- What the hazard classifications of the substance are.<sup>1</sup>

## 2.2 Ouvea Premix Status of Substance

In December 2011, Jacobs (then SKM) applied for a SoS for Cast-house Ouvea Premix. The SoS application was based on testing of Ouvea Premix samples through X-Ray Fluorescence (XRF) analysis undertaken by Coal Research Laboratories (CRL). XRF analysis measures the intensity of X-rays fluoresced by individual elements in a sample. As such, XRF analysis is limited in that it shows the elements present in an individual sample, irrespective of the different compounds in the sample that may contain those elements. XRF testing provides a simple quantitative analysis of a material.

On 7 March 2012, the EPA issued a Determination of the Status of Ouvea Premix based on the information available at the time. The determination said that Ouvea Premix is considered to be hazardous and falls in to the group standard approval *"Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006 [HSNOT Approval Number HSR002503]"*. The preliminary hazard classification assigned to Ouvea Premix was:

- 6.3A (skin irritant)
- 6.4A (eye irritant)
- 9.1C (aquatic irritant)

Under these classifications, Ouvea Premix is not classified as a Dangerous Good for transport. As such, the Land, Transport, Civil Aviation and Maritime Transport rules for dangerous goods do not apply.

## 3. Safety Data Sheet

### 3.1 What is a Safety Data Sheet

The EPA's website describes a Safety Data Sheet (SDS), previously called a Material Safety Data Sheet (MSDS), as a document designed to protect the health and safety of people in the workplace by providing information on the hazards of substances and how they should be safely used, stored, transported and disposed of. SDSs also describe emergency procedures, such as what to do in the event of a spill or fire. SDS's must include information on the material, including:

- hazards identification
- composition and information on ingredients
- first aid and fire-fighting measures
- physical and chemical properties
- transport and disposal considerations.<sup>2</sup>

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<sup>1</sup> Explanation sourced from <http://www.epa.govt.nz/hazardous-substances/about/SOS/Pages/default.aspx>

<sup>2</sup> Explanation sourced from <http://www.epa.govt.nz/hazardous-substances/using-storing/Pages/Safety-data-sheets.aspx>

**3.2 SDS for Ouvea Premix**

Following the provision of the EPA's determination, Jacobs prepared a SDS for Cast-House Ouvea Premix, again based on the results of the XRF analysis, which was also provided to the EPA.

Appendix A contains an internal memo dated 24 April 2012 about the HSNO controls for Ouvea Premix. The memo includes (as Appendices) the original SoS application, the SoS determination dated 7 March 2012 and the draft MSDS for Ouvea Premix based on XRF analysis (dated 10 May 2012).

In January 2013, Jacobs arranged for a series of laboratory tests to be performed on six samples of Cast-House Ouvea Premix, which were provided by Taha to determine the composition of the premix. The six samples were sent to CRL for X-Ray Diffraction (XRD) analysis. XRD analysis measures the intensity of crystal diffraction peaks due to the individual chemical compounds in the sample. Non-crystalline (amorphous) compounds cannot be identified by XRD. However, the compounds in Cast-House Ouvea Premix consist almost entirely in crystalline form, and so are well-suited for identification by XRD. As such, XRD analysis, unlike XRF analysis, can estimate percentages of each compound in the Ouvea Premix samples, as opposed to just the elemental composition.

XRD testing provides a qualitative and quantitative analysis of the material. The XRD results give measure and determination of the chemical compounds in Cast-House Ouvea Premix. As such, the results of the tests were used to update the Cast-House Ouvea Premix SDS to its current form. The revised and current SDS, dated 12 August 2013, is attached as Appendix B.

The revised composition of Ouvea Premix as determined by XRD does not change the hazard classification of the substance for the purpose of the SoS, as none of the bulk components of the substance are hazardous in themselves beyond what was originally assumed.

**4. Further Material Testing**

In 2015, Taha was in contact with the EPA to enquire about the necessary approvals to transport Ouvea Premix off-shore. The EPA suggested that, based on the information available, the Ouvea Premix could be classified as a Class 4.3 hazardous substance (substances which in contact with water emit flammable gases) and be treated as a dangerous good for transport under UN3170 "Aluminium smelting by-products or aluminium re-melting by-products". The EPA noted that if, when tested, the product does not meet the defining criteria for class 4.3 then it would not need to be assigned to UN3170.

Following these communications, Jacobs sent a sample of the Cast-House Ouvea Premix to CRL to conduct a gas evolution analysis of the material and identify whether the material meets the thresholds for a class 4.3 substance. The analysis was undertaken by CRL according to section 4.3 of the UN Part 3 classification procedures, testing methods and criteria relating to class 3 materials.

The gas evolution analysis found that hazardous gasses are capable of being produced on water contact, as is consistent with the available literature. The rate of gas evolution (0.74 L/kg/hr) is less than the limit of 1 L/kg/hr that would classify the sample as a packing group III. The findings of the gas analysis are attached in Appendix C.

As such, the gas analysis confirmed the original assessment that the Ouvea Premix is classified a Class 6 and 9 hazardous substance and not a Class 4.3 substance.

### 5. Safety Data Sheets for Other Mixes

Taha has asked Jacobs to prepare SDS's for other material mixes stored at the Mataura site, being:

- (a) Landfill Ouvea Premix; and
- (b) Bag-house Ouvea Premix.

The SDS for the Landfill Ouvea Premix has been prepared as a draft using independent laboratory test results from samples provided by Taha in December 2014.

The SDS for the Bag-House Ouvea Premix material has not yet been prepared, as we consider laboratory tests are warranted to determine the composition of the material. It is likely that the substance will have a slightly different composition from Cast-House Ouvea Premix as it will consist of a finer fraction of the material. A will be sent to CRL for testing on 29 May 2015. We would recommend both XRD and XRF analysis on the sample. The turn-around time for these analyses is dependent on laboratory workload, but is usually around one to two weeks. A formal status of substance application with EPA would be considered following interpretation of these results.

The finalised SDS's for Landfill and Bag-House Ouvea Premix can be submitted as supplementary information by 3 July 2015.

A formal SoS assessment from the EPA has not been requested for either Landfill or Bag-House Ouvea Premix. However, based on the similarities in composition and toxicity, we would expect both mixes to fall under the same group standard and have the same hazard classifications as Ouvea Premix. This is based on the existing analysis of these materials and the largely mechanical processing of the dross materials at the NZAS site.



Sheets and Status of Substance for Ouvea Premix

## Memorandum

Supplementary information re Safety Data

Chris Bender, Air Quality Scientist, Jacobs

### Appendix A. HSNO Controls, SDS and SoS

# Internal Memo



To Nic Conland Date 24 April 2012  
From Tim Strange Project No AE04036  
Copy  
Subject Description of Hazardous Substances Controls for Ouvea Premix

## 1. Introduction

This document describes the controls that need to be in place for Ouvea Premix under the Hazardous Substances and New Organisms Act 1996.

## 2. HSNO Classification

The Environmental Protection Authority (EPA) has classified Ouvea premix as:

- 6.3A Skin irritant
- 6.4A Eye irritant
- 9.1C Aquatic ecotoxificant

This product has been assigned to the 'Additives, Process Chemicals and Raw Materials (Subsidiary hazard)' group standard HSR002503.

A copy of the Status of Substance request and the letter from the EPA providing the classification of this product is provided in **Appendix A** and **B**. It is recommended that a copy of these be retained on file as a record of the classification under the HSNO regime.

## 3. HSNO Controls

In order to comply with the Hazardous Substances and New Organisms Act 1996, this product must be controlled in the manner that meets the conditions of the 'Additives, Process Chemicals and Raw Materials (Subsidiary hazard) Group Standard 2006, which are set out in Schedule 1 of the Group Standard.

The Group Standard refers to the following regulations and guidance documents:

- Labelling of Hazardous Substances: Hazard and Precautionary Information (July 2006)
- Hazardous Substances (Identification) Regulations 2001
- The Land Transport Rule
- The Civil Aviation Rule
- The Maritime rule

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- Hazardous Substances (Emergency Management) Regulations 2001
- Hazardous Substances (Disposal) Regulations 2001
- Site and Storage Conditions for Toxic, Corrosive and Ecotoxic Substances (July 2006)
- UN Model Regulations
- Hazardous Substances (Tank Wagons and Transportable Containers) Regulations 2004
- Workplace Exposure Standards. Occupational Safety and Health Service, Department of Labour, January 2002.

The following sections describe the relevant requirements as of 26 April 2012. However, any amendments to the Group Standard or associated regulations should be monitored in order to determine whether the requirements change.

Currently this product is not classified as a Dangerous Good for transport. Therefore the Land Transport, Civil Aviation and Maritime Transport rules for DGs do not apply.

### **3.1 Labelling**

This substance may not be sold or supplied unless labelled according to these provisions.

#### **3.1.1 Hazard information**

- 1) Label must provide:
  - Product name
  - Contact details for NZ importer, supplier or manufacturer
  - A 24 hour emergency telephone number
- 2) Label must state "Read label before use".
- 3) The label must include the information contained in **Appendix C**. This information has been obtained from the 'Labelling of Hazardous Substances (hazard and precautionary information)' document published by ERMA New Zealand (now the EPA):

#### **3.1.2 Small Packages**

If this product is contained in small packages (5kg or less) the pictogram in column 3 of Table 1 is not required. Neither are the signal words, hazard or response statements for the 9.1C classification.

#### **3.1.3 Disposal information**

The label must describe an appropriate means for disposing of the substance (see Disposal below for what is considered to be appropriate)



### **3.1.4 Multiple packages**

If labelling is obscured by outer packaging, the outer packaging must be labelled as per the Table in Appendix C.

### **3.1.5 Exporting**

If this product is being exported from New Zealand it must be labelled as per the Table in Appendix C.

### **3.1.6 Bulk Transport**

If this product is being transported in bulk it must be labelled as per the Table in Appendix C.

## **3.2 Approved Handler**

Approved handler requirements do not apply to this product.

## **3.3 Material Safety Data Sheets**

The following requirements relate to the Material Safety Data Sheets (MSDSs) for this product:

- When selling or supplying this product a safety data sheet will need to be provided unless one has already been provided to the receiver.
- An MSDS should be carried when transporting this product
- The MSDS must be available in every place of work where this product is being manufactured, stored or used
- The MSDS must be readily available (within 10 minutes) and be easy to understand by any fully trained worker
- If asked the manufacturer or supplier of the premix must provide a MSDS to any person in charge of a place of work where this product is stored or used.

### **3.3.1 Contents of MSDS**

Information on an MSDS must provide the following information in the order listed below:

#### **Identification of the substance and supplier**

- Product name
- Recommended uses
- Name of supplier, NZ contact details including emergency contact



#### **Hazards identification**

- Describe hazards of the substance, which may include its HSNO hazard classification
- Hazard information, including signal words, hazard statement(s) and precautionary statement(s)

#### **Composition/information on ingredients**

- Chemical identity of each hazardous ingredient, their CAS number and their concentration ranges

#### **First aid measures**

- First aid instructions according to each relevant route of exposure
- Whether medical attention is required and its urgency
- Information on the most important symptoms and effects, acute and delayed, from exposure

#### **Fire fighting measures**

- Information on the appropriate type of extinguishers or fire fighting agents, including extinguishers that may not be appropriate for a particular situation
- Any advice on hazards that may arise from combustion products; and
- Precautions for fire fighters and protective clothing requirements

#### **Accidental release measures**

- Advice on protective clothing requirements and emergency procedures
- Any environmental precautions from accidental spills and release
- Advice on how to contain and clean up a spill or release

#### **Handling and storage**

- Precautions for safe handling
- Conditions for safe storage, including incompatibilities

#### **Exposure controls/personal protection**

- Exposure limits set for the substance or any of its components, or in their absence, relevant overseas exposure limits
- Engineering controls
- Individual protection measures, including PPE

#### **Physical and Chemical Properties**

- Description of relevant physical and chemical properties for the substance, including units of measurement and reference conditions where appropriate

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- Where necessary for interpretation of data reported, the method of determination

#### **Stability and reactivity**

- An indication of the chemical stability of the substance under normal anticipated storage and handling conditions
- List of conditions to avoid to prevent a hazardous situation
- Information on incompatible substances or materials

#### **Toxicological information**

- A full description of the tox effects including the symptoms or signs of injury or ill health associated with each likely route of exposure
- The dose, concentration or conditions of exposure likely to cause injury or ill health
- Summary of data used to identify health effects

#### **Ecological information**

- Ecotoxicity
- Persistence and degradability
- Mobility

#### **Disposal considerations**

- Disposal methods (including packaging)
- Special precautions to be undertaken during disposal
- Any methods of disposal that should not be used

#### **Transport information**

- The UN number – **If applicable**
- The proper shipping name – **If applicable**
- UN Dangerous Goods class and subsidiary risk – **If applicable**
- UN Packing Group – **If applicable**

#### **Regulatory info**

- HSNO approval number and/or title of the Group Standard
- Info on conditions of the group standard and any other regulatory requirements

#### **Other information**

- Date of preparation or revision of the MSDS
- Key/legend to abbreviations and acronyms used

A copy of the MSDS for this product is provided in **Appendix D**.

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### 3.4 Site and Storage

Site storage conditions apply when the quantity of this product at any site exceeds 1000 kg. If this quantity is exceeded the relevant conditions set out in 'Site and Storage Conditions for Toxic, Corrosive and Ecotoxic Substances' must be complied with.

For this product the current requirements relate to Emergency Response Plans and signage as described below.

#### 3.4.1 Emergency Response Plan

An Emergency Response Plan will need to be prepared, or if there is an existing plan, information regarding this product must be included in it. The requirements of an Emergency Response Plan are described below.

##### Content of Plan

An emergency response plan must describe all of the reasonably likely emergencies that may arise from the breach or failure of the conditions on substances of the hazard classifications concerned.

For each emergency, the plan must:

- a) Describe the actions to be taken to—
  - warn people at the place, and in surrounding areas that may be adversely affected by the emergency, that an emergency has occurred
  - advise those people about the actions they should take to protect themselves
  - help or treat any person injured in the emergency
  - manage the emergency so that its adverse effects are first restricted to the area initially affected, then as soon as practicable reduced in severity, then if reasonably possible eliminated
  - if any of the substances concerned remain, re-establish the conditions imposed on it when it was approved
- b) Identify every person with responsibility for undertaking any of the actions described in subclause (a) (or any part of any of those actions) and give information on—
  - how to contact the person
  - any skills the person is required to have
  - any actions that person is expected to take

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c) Specify—

- how to obtain information about the hazardous properties of and means of controlling the substance or substances that may be involved
- actions to be taken to contact any emergency service provider
- the purpose and location of each item of equipment or material to be used to manage the emergency
- how to decide which actions to take
- the sequence in which actions should be taken.

**Availability of equipment, materials, and people**

All equipment and materials described in an Emergency Response Plan, and all responsible people described in an emergency response plan who are on duty, must—

- be present at the location concerned; or
- be available to reach the location of the substance within the times specified in the plan; or
- in the case of a trained person, be available to provide the advice or information specified in the plan within a time specified in the plan.

**Availability of plans**

An emergency response plan must be available to every person identified in (b) above as being responsible for executing the plan or a specific part of it, and to every emergency service provider identified in it.

**Testing plans**

An Emergency Response Plan must be tested at least every 12 months; and the test must demonstrate that every procedure or action in the plan is workable and effective. If there is a change to the persons, procedures, or actions specified in an emergency response plan, the plan must be tested within 3 months of the change; and the test must demonstrate that:

- the changed persons can perform their functions under the plan
- each changed procedure or action is workable and effective.

The carrying out and the results of every test must be documented and the documentation must be retained for at least 2 years.



### **Plan can be part of other management documentation**

An Emergency Response Plan can be part of any other management documentation for an emergency whether:

- required by the Hazardous Substances and New Organisms Act 1996 or some other Act, or
- undertaken by a person or organisation for some other reason.

### **3.4.2 Signage**

#### **Duties of persons in charge of places in respect of signage**

The person identified as being in charge in the Emergency Response Plan must ensure that appropriate signage is provided. The signage requirements are provided below:

#### **Signage requirements**

If this product is located in a building (but not within a specific Hazardous Substance storage room or compartment within that building) there must signage at every vehicular and pedestrian access to the building as well as at every vehicular and pedestrian access to land where the building is located. The signage must:

- state that hazardous substances are present
- describe the general type of hazard
- advise the action to be taken in an emergency

If hazardous substances are located in a particular room or compartment within a building or in an outdoor area signage must be erected at each entrance to the room/compartment or next to the storage area. This signage must:

- state that hazardous substances are present
- describe the general type of hazard of each of them
- advise the action to be taken in an emergency.

### **3.5 Packaging**

When filled and closed packaging:

- Must not leak
- Should maintain its ability to retain contents, if parts are removed and packaging is resealed
- Must not react with the product in a way that weakens the packaging

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If packaging has been used to store another substance previously:

- The substances must be compatible
- All practicable steps must be taken to remove all residues from the original substance

When the product is packed in quantities smaller than 400 kg packaging must comply with requirements of Schedule 4 of the Hazardous Substances (Packaging) Regulations 2001. This requires packaging to comply with the following test:

Packaging must withstand the impact at any orientation of a drop of 0.5 m on to a hard surface without losing its ability to retain its contents. If/when tested it must be done using Ouvea premix or another substance similar in physical characteristics (density, viscosity and particle size).

The above tests must be done with the closure mechanism fully closed and, in the case of vented packaging, the vent must be sealed.

### 3.6 Equipment

People handling this product must wear protective clothing or equipment that is designed to ensure the person:

- does not come into contact with it
- is not exposed to a concentration of the substance that is greater than the work place exposure standard for the substance

This does not apply if the product is packed in closed containers that comply with the packaging requirements specified in **Section 3.5**.

The supervisor of the place of work must ensure that PPE is accompanied by documentation containing information specifying:

- Circumstances in which PPE should be used
- Requirements for maintaining PPE

Equipment used to handle this product must retain the substance, without leaking at all temps and pressures for which the equipment is intended to be used. It must also dispense or apply the substance without leakage at a rate and in a manner that the equipment is designed for.

Equipment must be accompanied by documentation containing information about the use and maintenance of the equipment to enable the equipment to be used and maintained.



### **3.7 Transportation**

This product is not classified as a Dangerous Good for transport, therefore the Land Transport, Civil Aviation and Maritime Transport rules for Dangerous Goods do not apply.

If using Tank Wagons or UN approved transportable containers for transport they must meet the requirements of the Hazardous Substances (Tank Wagons and Transportable Containers) Regulations 2004.

If being carried on a passenger service vehicle the product must:

- Be packed in a sealed container
- Not exceed 5 kg per package

### **3.8 Disposal**

If necessary to dispose of this product, it must be disposed of by:

- Exporting from NZ as waste
- Treating it so that it is no longer a hazardous substance
- Discharging it into the environment in way that has no significant environmental effect

Treating includes depositing it in a landfill, incinerator or sewage facility providing this renders the substance non-hazardous by a means other than dilution, or where the concentration of the substance from the landfill does not exceed any relevant tolerable exposure limit.

#### **3.8.1 Disposal of Packaging**

The following requirements apply to packaging:

- Used to contain this product
- That has been in direct contact with it
- That is no longer to be used to contain the substance and is intended for disposal

If packaging is to be disposed of it must

- Be rendered incapable of containing any substance
- Be disposed of in a manner that is consistent with that of the substance it contained

However, packaging may be reused or recycled if:

- It has been treated to remove any residue
- The residue has been rendered non-hazardous

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### 3.9 Exposure Limits

#### 3.9.1 Workplace Exposure Standards

No specific Time Weighted Average (TWA) or Short Term Exposure Limit (STEL) has been assigned to this product. However, the following TWAs are relevant to the ingredients in this product:

- TWA – Aluminium oxide 10 mg/m<sup>3</sup>
- TWA – Copper (dust) 1 mg/m<sup>3</sup>
- TWA – Silicon 10 mg/m<sup>3</sup>
- TWA – Manganese (dust) 1 mg/m<sup>3</sup>
- TWA – Beryllium 0.002 mg/m<sup>3</sup>

Definitions:

#### Time-Weighted Average (WES-TWA)

Most WES in New Zealand have a eight-hour TWA, representing a work shift of 8 hours over one day. This means that the value assigned for a WES-TWA should not be exceeded over the period of 8 hours during a working shift.

#### Short-Term Exposure Limit (WES-STEL)

The 15-minute exposure standard. Applies to any 15-minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Yours sincerely

**Tim Strange**

*Environmental Consultant*

Phone: +64 4 914 8466

E-mail: tstrange@globalskm.com

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## **Appendix A Status of Substance Request**

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Environmental  
Protection Authority  
*Te Mana Rauhi Taiao*

# APPLICATION FORM

## STATUS OF SUBSTANCE

## Form HS6A for Advice on the Status of a Substance

(If your substance is a pesticide or veterinary medicine, please use application form HS6B)

Send by post to: Environmental Protection Authority, PO Box 131, Wellington 6140 OR email to: [sos@epa.govt.nz](mailto:sos@epa.govt.nz)  
Payment must accompany application; see our fees and charges schedule for details. Please allow 20 working days for processing.

Name of Product(s)

Ouvea Premix

Date

21 December 2011

## Instructions to complete form

**You need to ensure that all relevant information is provided in full before you send in the form. If the form is incomplete, we will be unable to process your application and will need to contact you to fill in the missing information.**

**Product name** – this is the name of the product/substance for which you are seeking advice.

**Synonyms** – list alternative names for the product/substance for which you are seeking advice.

**Uses** – please be as specific as possible

**Physical form** – please indicate whether the substance is a solid, liquid or gas.

**Proposed group standard the substance will fall under** – A list of the group standards and their documents containing information about the group standard can be found at <http://www.epa.govt.nz/hazardous-substances/about/approvals/group-standards/Pages/default.aspx>

### Full composition

If you do not have access to the full composition of the substance, you will need to ask the company who does to supply the information to the EPA directly, with an appropriate cover letter to ensure that we can link your application to that information.

Please ensure that the composition totals 100%. If it doesn't we will not be able to start work on your application. If the composition of your substance includes ranges [e.g. 5-10%] for different components, please indicate where possible if some ingredients are optional, or are not always present [for example a base paint with a range of different pigments which may be used in varying proportions]. In the column headed 'function' please indicate what the purpose of the component is within the mixture.

Please check that the names of components and their accompanying CAS numbers match. A useful website for checking these details is ChemID Plus <http://chem.sis.nlm.nih.gov/chemidplus/>. If these details don't match, we will need to ask you for more information i.e. to confirm whether the name or the CAS number is correct.

**MSDS** – please attach a Material Safety Data Sheet for the substance if you have one. The MSDS is not a substitute for the other information on the form, but may assist us with related information.

**Initial fee** – if the request requires more than 1 hour to complete, you will be asked whether you wish to continue, and a *further fee* will apply.

## 1. Company details

Company name: Taha Fertilisers Industries Limited

Company address: C/- SKM, Level 3, 86 Customhouse Quay, Wellington

Postal address: SKM, PO Box 10-283, Wellington 6143  
[if different to company address]

Contact name: Tim strange

Job title: Environmental Consultant

Contact person phone: 04 914 8466

Contact person e-mail: [tstrange@globalskm.com](mailto:tstrange@globalskm.com)

## 2. Please indicate which options you would like:

I would like informal advice on whether the substance is hazardous in terms of the HSNO Act	Yes
I would like informal advice on whether the substance is covered by an approval under the HSNO Act.	Yes
I would like the HSNO classification for the substance.	Yes

## 3. Product name

Ouvea Premix

## 4. Synonyms

None

## 5. Physical form

Solid

## 6. Uses

This product is used as an ingredient in the manufacture of Taha Fertiliser

## 7. Proposed group standard the substance will fall under

HSR002503

## 8. Full composition

(attach if insufficient room. **NB:** We cannot process your application without full composition details.)

### 8.1. Components

CAS number	Component name	Function of component	Percentage (specify w/w or w/v*)
1344-28-1	Aluminium oxide	Intermediary product	75-95
Not available	Metal fluoride salts	Intermediary product	0-15
7440-50-8	Copper	Intermediary product	<0.1
Not available	Metal nitrides	Intermediary product	<3
7439-95-4	Magnesium	Intermediary product	<1
7440-21-3	Silicon	Intermediary product	<1
7439-89-6	Manganese	Intermediary product	<1
7439-89-6	Iron	Intermediary product	<1.5
7440-02-0	Nickel	Intermediary product	<0.1
7440-41-7	Beryllium	Intermediary product	<0.02

If any of the components in Table 8.1 react to give new substances upon mixing, please indicate the **FULL COMPOSITION** of the final formulation in table 8.2. New substances and amounts of any left-over components should be included.

### 8.2. Final Composition



CAS number	Component name	Function of component	Percentage (specify w/w or w/v*)
<p>* If the units are w/v, what is the density of the substance?</p>			

**9. Flashpoint (if flammable)**

NA

**10. pH (if an aqueous liquid)**

9.7

**11. MSDS attached**

No

**12. Initial fee is included**

Yes

Please refer to *Fees & Charges Schedule* (<http://www.epa.govt.nz/about-us/fees/Pages/default.aspx>)

(If fee is not included, you will be invoiced and processing will not start until payment is received)



## **Appendix B Status of Substance Decision**

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Environmental  
Protection Authority  
Te Mana Rauhi Taiao

7 March 2012

File Ref R:DMHS-02-10-01  
SOS #1001568

Tim Strange  
Taha Fertilisers Industries Limited  
SKM, PO Box 10283  
Wellington 6143

Dear Tim

#### Determination of the Status of Ouvea Premix

Thank you for your application to determine if Ouvea Premix is considered to be hazardous and if it is covered by an existing approval under the Hazardous Substances and New Organisms (HSNO) Act 1996.

Based on the information available and the details you have provided, our advice is that Ouvea Premix is considered to be hazardous and will fall into the group standard approval **Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006 [HSNOT Approval Number HSR002503]**, which has an approval under the HSNO Act. A copy of this group standard can be found on the EPA website at <http://www.epa.govt.nz/hazardous-substances/about/approvals/group-standards/Pages/default.aspx>

If you consider that Ouvea Premix may fit more appropriately into a different group standard, or if you use Ouvea Premix for a different purpose, you may move the product to another group standard providing it fits within the scope of that group standard. You do not need to contact us further in this situation but must ensure that the appropriate conditions are applied. If you need further help regarding which group standard may be applicable, please contact us for advice. In further correspondence with us regarding Ouvea Premix, please be sure to quote our reference number (SOS1001568).

Please also note that although we consider the product, Ouvea Premix to be covered by an existing approval, the constituent components will need their own individual approvals if they are to be separately imported. Therefore, if you are intending to manufacture Ouvea Premix in New Zealand, you will need to ensure that each component has its own approval under the HSNO Act. Your supplier should be able to advise you on this.

For your information, the preliminary hazard classification assigned to Ouvea Premix is 6.3A (skin irritant), 6.4A (eye irritant), 9.1C (aquatic ecotoxicant).

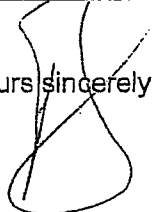
#### The following substances may require notification to the New Zealand Inventory of Chemicals (NZIoC):

Aluminium Carbide, CAS#1299-86-1  
Aluminium Nitride CAS#24304-00-5

This advice is provided in good faith and to the best of our ability given the information available.

Note: The 'User Guide to Thresholds and Classifications under the HSNO Act' has been revised (March 2008). An electronic version is available at <http://www.epa.govt.nz/Publications/ER-UG-03-2.pdf>.

Yours sincerely

A handwritten signature in black ink, appearing to be 'Benjamin Sowman', written over the 'Yours sincerely' text.

Benjamin Sowman  
**Administration Assistant**  
**Hazardous Substances**



Appendix C Hazard and Precautionary Information to be included on labelling for Ouvea premix

Classification	Transport of DG pictogram	GHS Pictogram	Signal Word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
6.3A	NA		Warning	H315 - Causes skin irritation	P264 - Wash hands thoroughly after handling	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water	No storage statements	P501
					P280 - Wear protective gloves	P321 - Specific treatment: use of specific cleansing agent not required.		
						P332 + P313 - If skin irritation occurs: get medical advice/attention		
6.4A	NA	No pictogram	Warning	H320 - Causes eye irritation	P264 - Wash eyes thoroughly after handling	P362 - Take off contaminated clothing and wash before re-use	No storage statements	P501
						P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.		
	NA	No pictogram	No signal word	H412 - Harmful to aquatic life with long lasting effects	P273 - Avoid release to the environment	P337 + P313 - If eye irritation persists; get medical advice/attention	No storage statements	P501
						No response statements		

Note: The classification in the left hand column does not need to be included on the label

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## **Appendix D Draft Material Safety Data Sheet for Ouvea**

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# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 10 May 2012

## PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Ouvea Premix

DESCRIPTION: Solid grey powder

PRODUCT USE: Ingredient in the preparation of mineral fertiliser

SUPPLIER:: Taha Fertilizer Industries Limited

CONTACT INFORMATION: Telephone: 03 218 1002; Address: 162b Bond Row, Invercargill, New Zealand

EMERGENCY PHONE:

## HAZARD IDENTIFICATION

DANGEROUS GOODS Not applicable

HSNO CLASSIFICATION **6.3A Skin irritant.**  
**6.4A Eye irritant.**  
**9.1C Aquatic ecotoxicant**

SIGNAL WORDS: **WARNING**

HAZARD STATEMENT: H315 Causes skin irritation.  
H320 Causes eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

PREVENTION STATEMENTS: P264 Wash hands and eyes thoroughly after handling.  
P280 Wear protective gloves.  
P273 Avoid release to the environment.

RESPONSE STATEMENTS: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatment: use of specific cleansing agent not required.  
P332 + P313 If skin irritation occurs: get medical advice/attention.  
P362 Take off contaminated clothing and wash before re-use.  
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.  
P338 Remove contact lenses, if present and easy to do so. Continue rinsing.  
P337 + P313 If eye irritation persists; get medical advice/attention.

## COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration (%)
Aluminium oxide	1344-28-1	75-95
Metal fluoride salts	Not available	0-15
Copper	7440-50-8	<0.1
Metal nitrides	Not available	<3
Magnesium	7439-95-4	<1
Silicon	7440-21-3	<1
Manganese	7439-89-6	<1
Iron	7439-89-6	<1.5
Nickel	7440-02-0	<0.1
Beryllium	7440-41-7	<0.02

## FIRST AID MEASURES

SKIN CONTACT: Quickly remove contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. Seek medical attention if irritation persists.

EYE CONTACT: Remove contact lenses if present. Cautiously rinse eye with gently running water for 15 minutes. Do not rub the eye. Seek medical attention if eye irritation persists.

INHALATION: If inhaled, remove to fresh air.

# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 10 May 2012

INGESTION: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

## FIRE FIGHTING MEASURES

HAZARDS: Non-flammable.  
EXTINGUISHING MEDIA: Water fog, foam, Carbon dioxide or dry chemical.  
PROTECTIVE CLOTHING: Wear protective gloves.  
OTHER INFORMATION: Do not allow washings to reach aquatic environment.

## ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHOD: Contain and recover. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid contamination of waterways. If material does enter waterways contact the local authority.  
PROTECTIVE CLOTHING: Wear protective gloves.

## HANDLING AND STORAGE

HANDLING: Wear gloves. Avoid contact with the skin and eyes  
Ecotoxic in the environment, avoid loss into waterways.  
STORAGE: Keep containers tightly closed.

## EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Handle in well ventilated area  
PERSONAL PROTECTION: Wear gloves.  
EXPOSURE LIMITS: No exposure limits have been specifically assigned to this product and there are no Short Term Exposure Limits (STELs).  
TWA – Aluminium oxide 10 mg/m<sup>3</sup>  
TWA – Copper (dust) 1 mg/m<sup>3</sup>  
TWA – Silicon 10 mg/m<sup>3</sup>  
TWA – Manganese (dust) 1 mg/m<sup>3</sup>  
TWA – Beryllium 0.002 mg/m<sup>3</sup>

## PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid (grey powder)  
pH: Not applicable  
SOLUBILITY: Negligible  
BOILING POINT: 2980°C  
MELTING POINT: 2072°C

## STABILITY AND REACTIVITY

STABILITY: Stable, will not polymerise  
REACTIVITY: Reactive with acids

## TOXICOLOGICAL INFORMATION

SKIN CONTACT: May cause skin irritation  
EYE CONTACT: May cause eye irritation

## ECOLOGICAL INFORMATION

Ecotoxic in the environment. Avoid loss into waterways.

## DISPOSAL CONSIDERATIONS

CONTAINER DISPOSAL: Dispose of empty containers safely. Avoid contamination of any water suppl with product or empty container.  
PRODUCT DISPOSAL: Dispose of product safely. Avoid contamination of any water supply with product or empty container.

## TRANSPORT INFORMATION

UN NUMBER: Not applicable  
PROPER SHIPPING NAME: Not applicable  
DANGEROUS GOODS: Not applicable

# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 10 May 2012

CLASS

PACKING GROUP: Not applicable

## NZ REGULATORY INFORMATION

HSNO APPROVAL NUMBER: HSR002503  
GROUP STANDARD: Additives, Process Chemicals and Raw Materials (Subsidiary hazard)  
HSNO CLASSIFICATIONS: 6.3A Skin irritant  
6.4A Eye irritant  
9.1C Aquatic ecotoxicant  
HSNO CONTROLS: Approved handler requirements: Not applicable

## OTHER INFORMATION

ISSUE DATE: 22 March 2012  
DEFINITIONS: TWA – Time Weighted Average (The 8 hour time-weighted average exposure standard designed to protect the worker from the effects of long term exposure)



Sheets and Status of Substance for Ouvea Premix

## Memorandum

Supplementary information re Safety Data

Chris Bender, Air Quality Scientist, Jacobs

### Appendix B. Current SDS for Cast-House Ouvea Premix

# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 12 August 2013

## PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Ouvea Premix

DESCRIPTION: Solid grey powder

PRODUCT USE: Ingredient in the preparation of mineral fertiliser

SUPPLIER:: Taha Fertilizer Industries Limited

CONTACT INFORMATION: Telephone: 03 218 1002; Address: 162b Bond Row, Invercargill, New Zealand

EMERGENCY PHONE:

## HAZARD IDENTIFICATION

DANGEROUS GOODS Not applicable

HSNO CLASSIFICATION **6.3A Skin irritant.**  
**6.4A Eye irritant.**  
**9.1C Aquatic ecotoxicant**

SIGNAL WORDS: **WARNING**

HAZARD STATEMENT: H315 Causes skin irritation.  
H320 Causes eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

PREVENTION STATEMENTS: P264 Wash hands and eyes thoroughly after handling.  
P280 Wear protective gloves.  
P273 Avoid release to the environment.

RESPONSE STATEMENTS: P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatment: use of specific cleansing agent not required.  
P332 + P313 If skin irritation occurs: get medical advice/attention.  
P362 Take off contaminated clothing and wash before re-use.  
P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes.  
P338 Remove contact lenses, if present and easy to do so. Continue rinsing.  
P337 + P313 If eye irritation persists; get medical advice/attention.

## COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration (%)
Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	25-50
Aluminium nitride (AlN)	24304-00-5	25-40
Magnesium Aluminate (MgAl <sub>2</sub> O <sub>4</sub> )	12068-51-8	5-30
Cryolite (Na <sub>3</sub> AlF <sub>6</sub> )	7429-90-5	2-4
Aluminium (Al)	7429-90-5	2-4
Sodium aluminate (NaAl <sub>11</sub> O <sub>17</sub> )	1302-42-7	2-5
Potassium Fluoride (KF)	7789-23-3	<1
Potassium Chloride (KCl)	7447-40-7	<1
Fluorite (CaF <sub>2</sub> )	7789-75-5	<1
Quartz (SiO <sub>2</sub> )	14808-60-7	<1

## FIRST AID MEASURES

SKIN CONTACT: Quickly remove contaminated clothing and wash before re-use. Wash skin with plenty of soap and water. Seek medical attention if irritation persists.

EYE CONTACT: Remove contact lenses if present. Cautiously rinse eye with gently running water for 15 minutes. Do not rub the eye. Seek medical attention if eye irritation persists.

INHALATION: If inhaled, remove to fresh air.

# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 12 August 2013

INGESTION: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

## FIRE FIGHTING MEASURES

HAZARDS: Non-flammable.  
EXTINGUISHING MEDIA: Water fog, foam, Carbon dioxide or dry chemical.  
PROTECTIVE CLOTHING: Wear protective gloves.  
OTHER INFORMATION: Do not allow washings to reach aquatic environment.

## ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHOD: Contain and recover. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Avoid contamination of waterways. If material does enter waterways contact the local authority.  
PROTECTIVE CLOTHING: Wear protective gloves.

## HANDLING AND STORAGE

HANDLING: Wear gloves. Avoid contact with the skin and eyes.  
Ecotoxic in the environment, avoid loss into waterways.  
STORAGE: Keep containers tightly closed.

## EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Handle in well ventilated area  
PERSONAL PROTECTION: Wear gloves.  
EXPOSURE LIMITS: No exposure limits have been specifically assigned to this product. Exposure limits for individual constituents are provided below:  
TWA – Aluminium oxide 10 mg/m<sup>3</sup>  
TWA – Aluminium nitride 2 mg/m<sup>3</sup> (as Al)  
TWA – Cryolite 2.5 mg/m<sup>3</sup> (as F)  
TWA – Aluminium 5 mg/m<sup>3</sup> (resp)  
STEL – Sodium aluminate 2 mg/m<sup>3</sup>  
TWA – Potassium Chloride 3 mg/m<sup>3</sup>  
TWA – Potassium Fluoride 2.5 mg/m<sup>3</sup> (as F)  
TWA – Fluorite 2.5 mg/m<sup>3</sup> (as F)  
TWA – Quartz 10 mg/m<sup>3</sup>

## PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid (grey powder)  
pH: Not applicable  
SOLUBILITY: Negligible  
BOILING POINT: 2980°C  
MELTING POINT: 2072°C

## STABILITY AND REACTIVITY

STABILITY: Stable, will not polymerise  
REACTIVITY: Reactive with acids

## TOXICOLOGICAL INFORMATION

SKIN CONTACT: May cause skin irritation  
EYE CONTACT: May cause eye irritation

## ECOLOGICAL INFORMATION

Ecotoxic in the environment. Avoid loss into waterways.

## DISPOSAL CONSIDERATIONS

CONTAINER DISPOSAL: Dispose of empty containers safely. Avoid contamination of any water supply with product or empty container.  
PRODUCT DISPOSAL: Dispose of product safely. Avoid contamination of any water supply with product or empty

# MATERIAL SAFETY DATA SHEET

Ouvea Premix

Date: 12 August 2013

container.

## TRANSPORT INFORMATION

UN NUMBER: Not applicable  
PROPER SHIPPING NAME: Not applicable  
DANGEROUS GOODS CLASS: Not applicable  
PACKING GROUP: Not applicable

## NZ REGULATORY INFORMATION

HSNO APPROVAL NUMBER: HSR002503  
GROUP STANDARD: Additives, Process Chemicals and Raw Materials (Subsidiary hazard)  
HSNO CLASSIFICATIONS: 6.3A Skin irritant  
6.4A Eye irritant  
9.1C Aquatic ecotoxicant  
HSNO CONTROLS: Approved handler requirements: Not applicable

## OTHER INFORMATION

ISSUE DATE: 12 August 2013  
DEFINITIONS: TWA – Time Weighted Average (The 8 hour time-weighted average exposure standard designed to protect the worker from the effects of long term exposure)  
STEL – Short Term Exposure Limit (The acceptable average exposure over a short period of time, usually 15 minutes)



Sheets and Status of Substance for Ouvea Premix

## Memorandum

Supplementary information re Safety Data

Chris Bender, Air Quality Scientist, Jacobs

### Appendix C. Gas Evolution Analysis



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FAX +64 3 789 7489

*Title:* **Dried oxide (Ouvea Premix)  
Gas evolution analysis**

*CRL Reference:* **15-11008-B**

*Client Name:* **Jacobs New Zealand LTD  
Attention: Chris Bender**

*Client Address:* **PO Box 10-283,  
Wellington, 6143**

*Date of Issue:* **5 May 15**

*Author:* **Ben Rumsey - Research Officer**



Quality  
ISO 9001

## Background

A sample of dried oxide (Ouvea Premix) (SKM Ref 573/4) was supplied to CRL for testing according to section 4.3 of the UN Part 3 classification procedures, test methods and criteria relating to class 3 materials. Division 4.3 relates to substances which in contact with water emit flammable gasses.

The below information can be found relating to the substance supplied for testing.

- UN number 3170, Aluminum smelting by-products or Aluminum remelting by-products or Aluminum Dross
- Hazard class 4.3 (Dangerous when wet),
- Packing group 2 or 3.

## Results – Test N.5

Test 33.4.1.4.3.2	No spontaneous ignition, small gas bubbles (as received sample)
Test 33.4.1.4.3.3	No spontaneous ignition, small gas bubbles (as received sample)
Test 33.4.1.4.3.4	No spontaneous ignition, small gas bubbles (as received sample)
Test 33.4.1.4.3.5	No spontaneous ignition, gas results below (powdered sample)

<i>Substance</i>	<i>Rate of gas emission (L/kg.h)</i>	<i>Ignition (yes/no)</i>	<i>Result</i>
<i>Dried oxide (Ouvea premix)</i>	<i>0.74</i>	<i>No</i>	<i>Not 4.3</i>

Total gas evolution (7hrs @ 20°C): 5.20 Litres/kg of sample = 0.74 Litres/kg.hr

Gas composition analysis:

Methane	%	8.9
Carbon dioxide	%	<0.01
Ethylene	%	<0.0010
Ethane	%	<0.0010
Hydrogen	%	91.1
Carbon monoxide	%	<0.0040
Ammonia*	%	Not observed

*\*Ammonia by difference – no observable odour of ammonia was detected.*

*Analysis performed on an Agilent micro gas chromatograph; using BOC alpha and Beta gas standards.*

The above gas analysis shows hazardous gasses are capable of being produced on water contact, as is consistent with the available literature. The rate of gas evolution (0.74 L/kg/hr) is less than, but close to the limit of 1 L/kg/hr that would classify the sample as a packing group III.

Please note that this report represents results based upon the sample as provided by the client. The findings constitute no warranty of the samples representativeness of any goods and strictly relate to the sample.



29 May 2015

Mataura Resource Consent Hearing

## **Appendix E. Aluminium Dross SDS**

# RioTintoAlcan

## 1. Product and company identification

Product name	: ALUMINUM DROSS - (MMC)
Synonym	: Dross (remelt aluminium).
Material uses	: Other non-specified industry: Process by-product to be recycled.
Supplier/Manufacturer	: Rio Tinto Alcan Dubuc plant 2040, Ch. de la Réserve Saguenay, Québec, Canada G7H 5B3 Tel: 1-418-699-6305
Code	: 157
In case of emergency	: +1 215 207 0061 (Rio Tinto Alcan) For advice on chemical emergencies, spillages, fires or first aid.
e-mail address of person responsible for this SDS	: rta.msds@riotinto.com
Product type	: solid (Powder.)

## 2. Hazards identification

### Emergency overview

Physical state	: Solid. [Powder.]
Color	: Gray.
Signal word	: DANGER!
Hazard statements	: SUBSTANCES DANGEROUS WHEN WET. REACTS WITH WATER TO RELEASE FLAMMABLE GAS. REACTS WITH WATER TO RELEASE TOXIC GAS.
Precautionary measures	: Use only with adequate ventilation. Keep away from heat, sparks and flame. Keep away from water or moist air. Keep container tightly closed.
OSHA/HCS status	: Hazard communication Standard (HCS) does not apply to Waste material
Routes of entry	: Dermal contact. Inhalation.

### Potential acute health effects

Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	: Release toxic substances when wet.
Skin	: May cause skin irritation. May cause skin sensitization.
Eyes	: May cause eye irritation.

### Potential chronic health effects

Chronic effects	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Carcinogenicity	: Contains material which may cause cancer.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.

## 2. Hazards identification

- Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.  
**Target organs** : Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes, nose/sinuses.

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties
- Skin** : Adverse symptoms may include the following:  
irritation  
redness
- Eyes** : Adverse symptoms may include the following:  
irritation  
watering  
redness

- Medical conditions aggravated by over-exposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

## 3. Composition/information on ingredients

Name	CAS number	%
aluminium	7429-90-5	10 - 90
aluminium oxide	1344-28-1	10 - 50
silicon carbide	409-21-2	1 - 30
aluminium nitride	24304-00-5	2 - 10
silicon	7440-21-3	0 - 15
lithium	7439-93-2	0 - 10
Zinc	7440-66-6	0 - 10
tetraaluminium tricarbide	1299-86-1	<5
magnesium oxide	1309-48-4	<5
copper	7440-50-8	0 - 5
magnesium	7439-95-4	0 - 5
Iron	7439-89-6	0 - 2
manganese	7439-96-5	0 - 2
nickel	7440-02-0	0 - 2
tin	7440-31-5	0 - 2
lithium chloride	7447-41-8	<1
chromium	7440-47-3	0 - 0.5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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**4. First aid measures**

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- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
- Ingestion** : Wash out mouth with water. Get medical attention if adverse health effects persist or are severe.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. See Section 8 for information on appropriate personal protective equipment.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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**5. Fire-fighting measures**

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- Flammability of the product** : Contact with water liberates toxic, extremely flammable gas. Runoff to sewer may create fire or explosion hazard.
- Extinguishing media**
- Suitable** : Use dry chemical powder. Use approved Class D extinguisher or smother with dry sand, dry clay or dry ground limestone. Cover with dry earth, sand or other non-combustible material.
- Not suitable** : Do not use water. Violent reaction may occur. Products: Ammonia., H<sub>2</sub> and CH<sub>4</sub>
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
Ammonia.  
Hydrogen  
Methane  
metal oxide/oxides  
hydrochloric acid vapor
- Special protective equipment for fire-fighters** : Wear self-contained breathing apparatus during long or intense exposure or when spray processing.
- Special remarks on explosion hazards** : Molten aluminium may explode on contact with water or moisture, and may react violently with rust, certain metal oxides and nitrates.

## 6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Keep away from water. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods for cleaning up

- Small spill** : Recycle, if possible. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues, unless the quantity remaining is very small. Use spark-proof tools and explosion-proof equipment. Waste must be disposed of according to applicable regulations.
- Large spill** : Recycle, if possible. Avoid allowing the spilled material to get wet or using water to clean up spillages or residues, unless the quantity remaining is very small. Use spark-proof tools and explosion-proof equipment. Waste must be disposed of according to applicable regulations. Avoid creating dusty conditions and prevent wind dispersal.

## 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Avoid creating dusty conditions and prevent wind dispersal. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe dust. Avoid release to the environment. Use only with adequate ventilation. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Use only non-sparking tools. Protect from moisture. Keep away from acids.
- Storage** : Store in accordance with local regulations. Keep away from water. Eliminate all ignition sources if safe to do so. Avoid creating dusty conditions and prevent wind dispersal. Product ready for remelting must be kept dry. Contains moisture-sensitive material. Store in a dry place.

## 8. Exposure controls/personal protection

Ingredient	Exposure limits
aluminium	<b>OSHA PEL (United States, 11/2006).</b> TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> , (as Al) 8 hour(s). Form: Total dust <b>ACGIH TLV (United States, 2/2010).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction; see Appendix C
aluminium oxide	<b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust <b>ACGIH TLV (United States, 2011).</b> TWA: 1 mg/m <sup>3</sup> , (Respirable fraction)
silicon carbide	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 0.1 f/cc 8 hour(s). Form: Fibrous TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction.

## 8. Exposure controls/personal protection

silicon	TWA: 3 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust <b>OSHA PEL (United States, 11/2006).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust
magnesium oxide	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction. <b>OSHA PEL (United States, 6/2010).</b> TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total particulates
copper	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 1 mg/m <sup>3</sup> , (as Cu) 8 hour(s). TWA: 0.2 mg/m <sup>3</sup> 8 hour(s). Form: Fume <b>OSHA PEL (United States, 6/2010).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s). Form: Dusts and mists TWA: 0.1 mg/m <sup>3</sup> 8 hour(s). Form: Fume
manganese	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 0.2 mg/m <sup>3</sup> , (as Mn) 8 hour(s). <b>OSHA PEL (United States, 6/2010).</b> CEIL: 5 mg/m <sup>3</sup> , (as Mn) Form: Fume
tin	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 2 mg/m <sup>3</sup> 8 hour(s).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Engineering controls may be required to control the primary or secondary risks associated with this product. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protection

- Respiratory** : Recommended: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.
- Hands** : Wear suitable gloves.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles. Recommended: face shield
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Recommended: For handling molten metal: Clothing must be resistant to drops of molten metal and radiant heat.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## 8. Exposure controls/personal protection

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**Other protection** : For handling molten metal: Approved safety helmet with neck protection.  
For handling molten metal: Safety boots or shoes with spats.

**Personal protective equipment (Pictograms)** :



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## 9. Physical and chemical properties

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**Physical state** : Solid. [Powder.]  
**Flash point** : Not applicable.  
**Burning time** : Not applicable.  
**Burning rate** : The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.  
**Auto-ignition temperature** : Not applicable.  
**Flammable limits** : Not available.  
**Color** : Gray.  
**Odor** : Ammonia.  
**pH** : Not applicable.  
**Boiling/condensation point** : Not applicable.  
**Melting/freezing point** : Not available.  
**Relative density** : 2.2 to 3 [Water = 1]  
**Bulk Density** : Not available.  
**Granulometry** : Not available.  
**Vapor pressure** : Not applicable.  
**Vapor density** : Not applicable.  
**Odor threshold** : 0.04 to 53 ppm (Ammonia.)  
**Evaporation rate** : Not applicable.  
**Viscosity** : Not applicable.  
**Solubility** : Partially soluble in the following materials: cold water and hot water.  
**Physical/chemical properties comments** : Not available.

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## 10. Stability and reactivity

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**Chemical stability** : The product may not be stable under certain conditions of storage or use. See "Possibility of Hazardous Reactions" for further information.  
**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Molten metal may cause explosive spattering in contact with water.  
Avoid all possible sources of ignition (spark or flame). Molten metal may cause explosive spattering in contact with water.  
**Incompatible materials** : Reactive or incompatible with the following materials: acids and alkalis.  
water  
In the form of particles, may explode when mixed with halogenated acids, halogenated solvents, bromates, iodates or ammonium nitrate. Aluminum particles on contact with copper, lead, or iron oxides can react vigorously with release of heat if there is a source of ignition or intense heat.

**ALUMINUM DROSS - (MMC)****10. Stability and reactivity**

**Hazardous decomposition products** : Contact with water liberates toxic, extremely flammable gas.

**Possibility of hazardous reactions** : Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following:  
contact with water  
Reactions may include the following:  
liberation of toxic gas  
liberation of flammable gas Fine dust presents an explosion hazard if dispersed in air at high concentrations.

**11. Toxicological information****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
aluminium	LD50 Oral	Rat	>5000 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>2350 mg/l	4 hours
silicon	LD50 Oral	Rat	3160 mg/kg	-
iron	LD50 Oral	Rat	7500 mg/kg	-
	LCLo Inhalation Dusts and mists	Rat	250 mg/m <sup>3</sup>	6 hours
manganese	LD50 Oral	Rat	9 g/kg	-
lithium chloride	LD50 Dermal	Rabbit	1629 mg/kg	-
	LD50 Oral	Rat	1530 mg/kg	-

**Conclusion/Summary** : Not applicable

**Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
iron	Sub-chronic LOAEL Oral	Rat	26 mg/kg	12 weeks
	Sub-chronic NOAEL Inhalation Dusts and mists	Rat	5 mg/m <sup>3</sup>	4 weeks

**Conclusion/Summary** : Repeated or prolonged exposure to the substance can produce lung damage.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
lithium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

**Conclusion/Summary**

**Skin** : May cause skin irritation.  
**Eyes** : Irritating to eyes.  
**Respiratory** : May cause respiratory irritation.

**Sensitizer****Conclusion/Summary**

**Skin** : May cause sensitization by skin contact.

**Carcinogenicity**

**Conclusion/Summary** : Contains material which may cause cancer.

**Classification**

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA

**ALUMINUM DROSS - (MMC)****11. Toxicological information**

aluminium	A4	-	-	-	-	-
silicon carbide	A2	-	-	-	-	-
magnesium oxide	A4	-	-	-	-	-
nickel	A5	2B	-	+	Possible	-

**Mutagenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**Teratogenicity**

**Conclusion/Summary** : No teratogenic effect.

**Reproductive toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

**12. Ecological information**

**Ecotoxicity** : No known significant effects or critical hazards.

**Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
aluminium	OECD	EC50 >100 mg/l	Fish - Salmo trutta	96 hours
-	OECD	EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
-	OECD	EC50 >100 mg/l	Algae - Selenastrum capricornutum	72 hours
aluminium oxide	OECD 203 Fish, Acute Toxicity Test	EC50 >100 mg/l	Fish - Salmo trutta	96 hours
-	OECD 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
-	OECD 201 Alga, Growth Inhibition Test	EC50 >100 mg/l	Algae - Selenastrum capricornutum	72 hours
manganese	-	Acute EC50 40000 ug/L Fresh water	Daphnia - Water flea	48 hours
Growth	-	Acute EC50 31000 ug/L Fresh water	Aquatic plants - Duckweed - Lemna minor	4 days
Intoxication	-	Chronic NOEC 28000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours

**Conclusion/Summary** : May cause long-term adverse effects in the aquatic environment.

**Persistence/degradability**

**Conclusion/Summary** : Not applicable.

**Mobility** : Not mobile under normal environmental conditions. May be leached from the ground at low pH (<5.5) or high pH (>8.5)

**13. Disposal considerations**







**Waste disposal** : Recycle, if possible. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## ALUMINUM DROSS - (MMC)

### 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN3170	ALUMINUM REMELTING BY-PRODUCTS	4.3	III		-
TDG Classification	UN3170	ALUMINIUM DROSS	4.3	III		<b>Special provisions</b> Rail transport is possible only via special permit #SP4406 - Dross in vented box car.
Mexico Classification	UN3170	ALUMINUM REMELTING BY-PRODUCTS	4.3	III		-
ADR/RID Class	UN3170	ALUMINUM REMELTING BY-PRODUCTS	4.3	III		-
IMDG Class	UN3170	ALUMINUM REMELTING BY-PRODUCTS	4.3	III		-
IATA-DGR Class	UN3170	ALUMINUM REMELTING BY-PRODUCTS	4.3	III		-

PG\* : Packing group

### 15. Regulatory information

HCS Classification : Water-reactive material

U.S. Federal regulations : TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:  
aluminium: Fire hazard, reactive

Clean Water Act (CWA) 307: Zinc; copper; nickel; chromium

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

## 15. Regulatory information

Clean Air Act Section 602 : Not listed  
Class II Substances

DEA List I Chemicals : Not listed  
(Precursor Chemicals)

DEA List II Chemicals : Not listed  
(Essential Chemicals)

### State regulations

**Massachusetts** : The following components are listed: ALUMINUM; ALUMINUM OXIDE; SILICON CARBIDE; SILICON DUST; LITHIUM; ZINC; MAGNESIUM OXIDE FUME; COPPER; MAGNESIUM; MANGANESE; NICKEL; TIN

**New York** : The following components are listed: Zinc; Copper; Nickel

**New Jersey** : The following components are listed: ALUMINUM; ALUMINUM OXIDE; alpha-ALUMINA; SILICON CARBIDE; SILICON; LITHIUM; ZINC; ALUMINUM CARBIDE; MAGNESIUM OXIDE; COPPER; MAGNESIUM; MANGANESE; NICKEL; TIN

**Pennsylvania** : The following components are listed: ALUMINUM; ALUMINUM OXIDE (AL<sub>2</sub>O<sub>3</sub>); SILICON CARBIDE (SiC); SILICON; LITHIUM; ZINC; MAGNESIUM OXIDE (MGO); COPPER FUME; MAGNESIUM; MANGANESE; NICKEL; TIN

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
nickel	Yes.	No.	No.	No.

### Canada

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).

**Canadian NPRI** : The following components are listed: Aluminum; Aluminum oxide; Zinc; Copper; Manganese; Nickel

**Canada inventory** : All components are listed or exempted.

### International regulations

**International lists** : **Australia inventory (AICS):** Not determined.  
**China inventory (IECSC):** Not determined.  
**Japan inventory:** Not determined.  
**Korea inventory:** Not determined.  
**New Zealand Inventory of Chemicals (NZIoC):** Not determined.  
**Philippines inventory (PICCS):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## 16. Other information

**Label requirements** : SUBSTANCES DANGEROUS WHEN WET. REACTS WITH WATER TO RELEASE FLAMMABLE GAS. REACTS WITH WATER TO RELEASE TOXIC GAS.

**Hazardous Material Information System (U.S.A.)** :

Health	2
Flammability	1
Physical hazards	1

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

**National Fire Protection Association (U.S.A.)** :



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**Date of printing** : 10/25/2012.  
**Date of issue** : 10/25/2012.  
**Date of previous issue** : No previous validation.  
**Version** : 1  
**Prepared by** : Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

29 May 2015

Mataura Resource Consent Hearing

## **Appendix F. Status of consultation with NZTA**

Level 3, 86 Customhouse Quay,  
PO Box 10-283  
Wellington, New Zealand  
T +64 4 473 4265  
F +64 4 473 3369  
www.jacobs.com

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**Date** 20 May 2015  
**From** Tess Drewitt  
**Subject** Summary of communications with NZTA

---

### 1. Purpose

This file note provides an update on consultation with NZTA to date regarding Taha Fertilizer Industries Limited's (Taha) resource consent application to store hazardous substances at its storage facility in Maitua.

### 2. Pre-application

The Gore District Council (Council) requires resource consent applicants to consult with NZTA regarding resource consent applications to conduct activities that may affect State Highways.

Jacobs New Zealand Limited (Jacobs) consulted with NZTA in September 2014 prior to submitting the original application, which included the fertiliser manufacturing plant. NZTA provided written approval on 3 October 2014. This approval is attached in Appendix A.

### 3. Section 95 decision

Subsequently to submitting the resource consent application, we were advised, through the Council's section 95 report, that NZTA had withdrawn their written approval. We did not receive notice directly from NZTA that their approval had been withdrawn or NZTA's reasons for withdrawal.

### 4. Pre-hearing

After the section 95 decision was made, Taha made the decision to no longer pursue the fertiliser manufacturing facility on site. As such, the resource consent application was updated to narrow the scope of activities just to storage.

During the notification period, on 26 March 2015, James Coutts of NZTA emailed the Council to advise that NZTA would be withdrawing their written approval for the resource consent application. The Council subsequently forwarded this email to me, in which Mr Coutts stated:

*We need to be certain about the on-site loading and traffic management, and although this is mentioned in the body of the application, it says refer to Appendix B – but it seems there is a plan missing from this appendix and the loading/unloading arrangements are not clear.*

On receiving this email, I phoned Mr Coutts to discuss NZTA's concerns with the proposal. Mr Coutts expressed NZTA's main concerns were:

- (1) Where the trucks will be accessing the site and confirmation that site access will be onsite; and

- (2) Confirmation as to whether there will be cross-road movements and, if so, that there will be a traffic management plan in place.

*I advised I would seek the necessary confirmation from Taha.*

On 7 May 2015, I emailed Mr Coutts to confirm that Taha had advised all access will be onsite and that there will be no cross-road movements. I also provided a marked-up site layout plan indicating where the loading/unloading areas are on site. My email to Mr Coutts is attached in Appendix B.

I received no further feedback from NZTA on the matter.

I note that NZTA did not make a submission on the resource consent or appear at the hearing as an affected party.



## File Note

Summary of communications with NZTA  
Tess Drewitt

## Appendix A



**NZ TRANSPORT AGENCY**  
WAKA KOTAHI

Level 2, AA Centre  
450 Moray Place  
PO Box 5245  
Moray Place  
Dunedin 9058  
New Zealand  
T 64 3 951 3009  
F 64 3 951 3013  
[www.nzta.govt.nz](http://www.nzta.govt.nz)

03 October 2014

Jacobs New Zealand Limited  
PO Box 10-283  
WELLINGTON 6143

Attention: Tess Drewitt

Dear Tess

**Taha Fertiliser Industries Limited – Fertiliser Processing Plant - SH 93 - Maitara**

Thank you for forwarding details of the above-mentioned land use proposal for our consideration and comment. We understand the applicant proposes to operate a fertiliser processing plant at 109 and 116-130 Kana Street, Maitara.

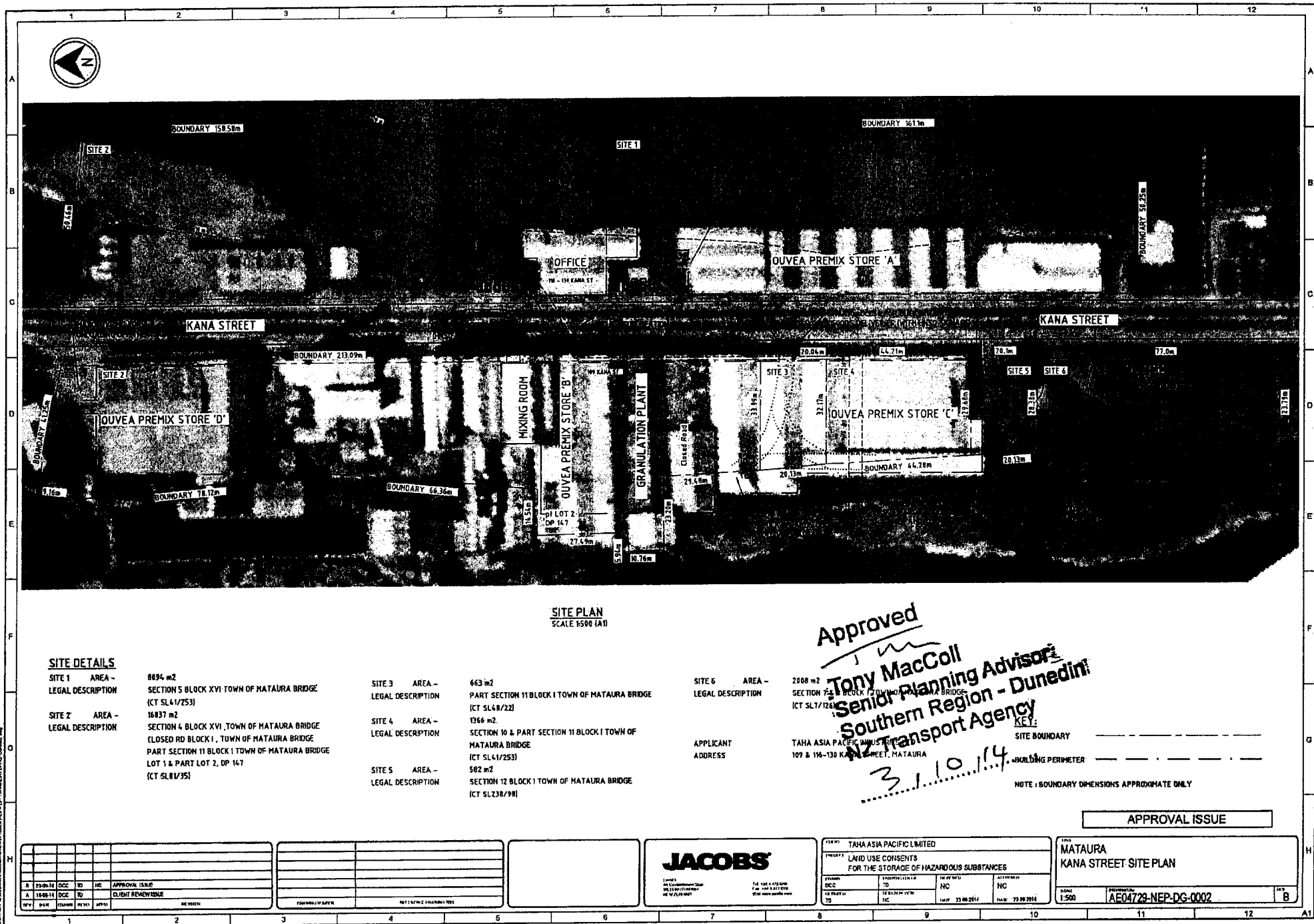
We are satisfied that the proposed activity is unlikely to have an adverse effect on the safety and functionality of the State highway adjacent to the subject site. Accordingly, please find enclosed the NZ Transport Agency's written approval to your proposed activity for your information and further action.

Please do not hesitate to contact me if you have any queries regarding the above information.

Yours sincerely

**Tony MacColl**  
Senior Planning Advisor

cc SNM - Southland  
Opus International Consultants, PO Box 647, Invercargill





## AFFECTED PERSON(S) CONSENT FORM

To: Resource Consents Section  
Gore District Council  
P O Box 8  
GORE

**Tony MacColl**  
Senior Planning Advisor  
Southern Region - Dunedin  
NZ Transport Agency

I/We \_\_\_\_\_

(full names)

being the owner

occupier

owner and occupier

of the property situated at \_\_\_\_\_

State Highway 93 (SH93)

(address and/or legal description of your property)

have read and understand the information on the reverse side of this page and consent to the proposal by:

Taha Fertiliser Industries Limited

(name of applicant(s))

to: \_\_\_\_\_

Operate a fertiliser processing plant

(description of proposed activity)

on the following property: 109 and 116-130 Kana Street (SH93)

Mataura

(address of application site)

as outlined in the application submitted and on the associated plans signed by me/us.

Signed: \_\_\_\_\_

T. MacColl

Date: \_\_\_\_\_

3-10-14

Telephone: \_\_\_\_\_

03 951 3009

If you have any queries regarding the Resource Consent process and the role and rights of adversely affected person(s), please contact:

Resource Consents Section  
Gore District Council  
P O Box 8  
Gore

Telephone: (03) 208 9080  
Facsimile: (03) 208 8875

before you complete and sign this form and the associated plans.

### Appendix B

**Drewitt, Tess**

---

**From:** Howard Alchin <HAlchin@goredc.govt.nz>  
**Sent:** Friday, 27 March 2015 9:17 AM  
**To:** Drewitt, Tess  
**Cc:** Rosie Given; James.Coutts@nzta.govt.nz  
**Subject:** FW: Taha Fertiliser Industries

Hi Tess,

Please see the email below from NZTA. This may be something you will wish to follow up. On the basis of storage alone – you may consider NZTA to be not affected. I would be interested in your comments.

Kind regards

**Howard W Alchin** | Senior Planner

T: 03 2090330 | DDI: 03 209 0387 | M: 027 616 2824 | E: [HAlchin@goredc.govt.nz](mailto:HAlchin@goredc.govt.nz) | W: [goredc.govt.nz](http://goredc.govt.nz)  
Gore District Council, 29 Civic Avenue, PO Box 8, Gore, 9740.



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**From:** James Coutts [<mailto:James.Coutts@nzta.govt.nz>]  
**Sent:** Thursday, 26 March 2015 4:20 p.m.  
**To:** Howard Alchin  
**Subject:** Taha Fertiliser Industries

Hi Howard

We'd like to withdraw our written approval for this application. We need to be certain about the on-site loading and traffic management, and although this is mentioned in the body of the application, it says refer to Appendix B – but it seems there is a plan missing from this appendix and the loading/unloading arrangements are not clear.

A submission will follow sometime before the closing date of April 14.

Regards,

---

**James Coutts** / Planning Advisor

Planning and Investment

DDI 64 3 955 2930

E [james.coutts@nzta.govt.nz](mailto:james.coutts@nzta.govt.nz) / W [nzta.govt.nz](http://nzta.govt.nz)  
Dunedin Office / Level 2 AA Centre, 450 Moray Place, Dunedin  
PO Box 5245, Moray Place, Dunedin 9058, New Zealand

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### Appendix C

## Drewitt, Tess

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**From:** Drewitt, Tess  
**Sent:** Thursday, 7 May 2015 4:54 PM  
**To:** 'James Coutts'  
**Subject:** RE: Taha resource consent application  
**Attachments:** Mataura loadingunloading.pdf

Hi James

In addition, please find attached a marked up site layout plan showing access points.

Hopefully this provides the clarification you were after

Kind regards

Tess

---

**From:** Drewitt, Tess  
**Sent:** Thursday, 7 May 2015 4:39 PM  
**To:** 'James Coutts'  
**Subject:** RE: Taha resource consent application

Hi James

I am just seeking clarification on one more point from Taha. In the mean time I can advise the following:

Nathan Burgess, a Site Manager for Taha, spoke with the manager at TNL freight, the company that previously did the loading and unloading for Taha at the site, to confirm site access arrangements. The TNL freight manager assured that trucks can remain off the road when loading/unloading at the site, and that this is the practice that was used for the unloading. In particular, trucks load in the following on-site areas:

- The turning bay to the south of the main riverside building (marked "C" on the attached plan);
- The turning bay to the north of the smaller riverside building (marked "D"); and
- Another off-site area outside the eastern buildings (marked "A") [note: exactly where this area is is what I am seeking clarification on]

I should note also that only one side of the truck needs to be accessed as the forklift used for loading and unloading has extended forks. As such, there is no need for the forklift to access the road in either of the above circumstances.

If considered necessary, Taha can also obtain a traffic management plan. However, this may not be required given the ability for trucks to load and unload onsite and there will be no cross-road movements.

I trust this is enough information for now. I will update you on access to store A as soon as I receive this information.

Kind regards

Tess

Tess Drewitt | Jacobs | Environmental Consultant | ANZ Infrastructure & Environment | +64 4 914 8414 |  
[Tess.Drewitt@jacobs.com](mailto:Tess.Drewitt@jacobs.com) | [www.Jacobs.com](http://www.Jacobs.com)

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---

**From:** James Coutts [<mailto:James.Coutts@nzta.govt.nz>]  
**Sent:** Thursday, 7 May 2015 4:32 PM  
**To:** Drewitt, Tess  
**Subject:** RE: Taha resource consent application

Hi Tess

Can you get back to us as soon as possible on this please. We have to make a decision about attending the hearing or not, and the associated preparation work.

Thanks

---

**James Coutts / Planning Advisor**

Planning and Investment

DDI 64 3 955 2930

E [james.coutts@nzta.govt.nz](mailto:james.coutts@nzta.govt.nz) / W [nzta.govt.nz](http://nzta.govt.nz)

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**From:** Drewitt, Tess [<mailto:Tess.Drewitt@jacobs.com>]  
**Sent:** Tuesday, 5 May 2015 9:19 a.m.  
**To:** James Coutts  
**Subject:** Taha resource consent application

Hi James

Apologies for not getting back to you earlier.

As I recall, you asked us for information on:

- (1) Where trucks will be accessing the site, with confirmation that access will be onsite; and
- (2) Confirmation as to whether there will be cross-road movements (and if cross-road movements are required that there will be a Traffic Management Plan in place).

I am just getting confirmation from Taha on the points above, and hope to respond later today.

Kind regards

Tess

Tess Drewitt | Jacobs | Environmental Consultant | ANZ Infrastructure & Environment | +64 4 914 8414 |  
[Tess.Drewitt@jacobs.com](mailto:Tess.Drewitt@jacobs.com) | [www.Jacobs.com](http://www.Jacobs.com)

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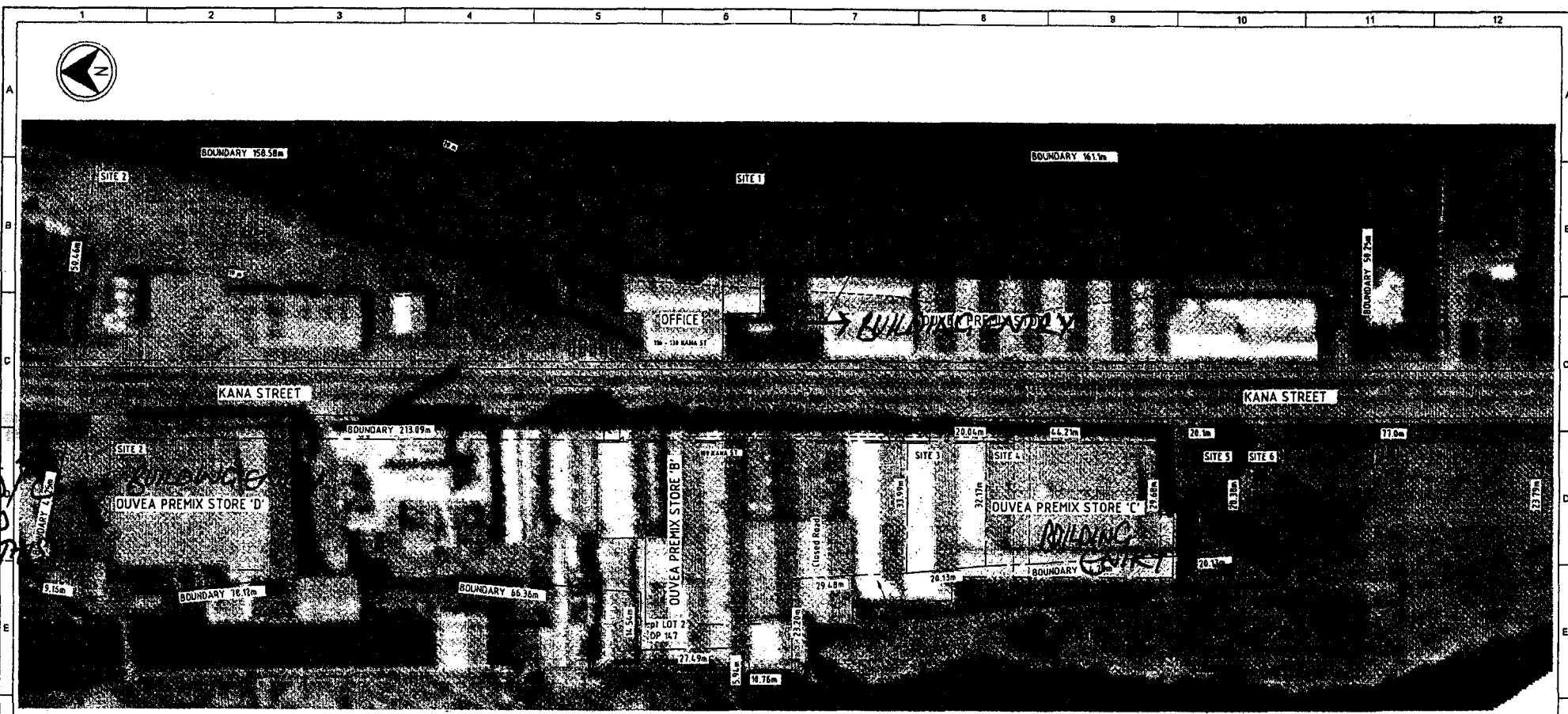
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LOADS  
UNLOAD  
FROM THE  
SIDE



SITE PLAN  
SCALE 1:500 (A8)

SITE DETAILS

SITE 1 AREA - 8094 m <sup>2</sup> LEGAL DESCRIPTION - SECTION 5 BLOCK XVI TOWN OF MATAURA BRIDGE (CT SL41/253)	SITE 3 AREA - 663 m <sup>2</sup> LEGAL DESCRIPTION - PART SECTION 11 BLOCK I TOWN OF MATAURA BRIDGE (CT SL48/223)	SITE 6 AREA - 2008 m <sup>2</sup> LEGAL DESCRIPTION - SECTION 7 & 8 BLOCK I TOWN OF MATAURA BRIDGE (CT SL7/126)
SITE 2 AREA - 16837 m <sup>2</sup> LEGAL DESCRIPTION - SECTION 4 BLOCK XVI, TOWN OF MATAURA BRIDGE CLOSED RD BLOCK I, TOWN OF MATAURA BRIDGE PART SECTION 11 BLOCK I TOWN OF MATAURA BRIDGE LOT 1 & PART LOT 2, OP 147 (CT SL81/35)	SITE 4 AREA - 1366 m <sup>2</sup> LEGAL DESCRIPTION - SECTION 10 & PART SECTION 11 BLOCK I TOWN OF MATAURA BRIDGE (CT SL41/253)	APPLICANT ADDRESS - TATA ASIA PACIFIC INDUSTRIES LTD 109 & 116-130 KANA STREET, MATAURA
SITE 5 AREA - 582 m <sup>2</sup> LEGAL DESCRIPTION - SECTION 12 BLOCK I TOWN OF MATAURA BRIDGE (CT SL238/90)		

KEY:

SITE BOUNDARY

BUILDING PERIMETER

NOTE: BOUNDARY DIMENSIONS APPROXIMATE ONLY

APPROVAL ISSUE

REV	DATE	BY	CHKD	APPD	REVISION
C	18-05-16	DDC	TD	MC	SITE LAYOUT PLAN SHOWING HAZARDOUS STORAGE ONLY
B	22-05-16	DDC	TD	MC	APPROVAL ISSUE
A	16-06-16	DDC	TD	MC	CLIENT REVIEW ISSUE

DESIGNED BY	PROJECT MANAGER
DRAWN BY	PROJECT MANAGER

**JACOBS**

Land & Infrastructure Group  
Wellington, New Zealand  
14. 001 4 075 4000  
Fax: 001 4 075 4000  
Web: www.jacobs.com

CLIENT - TATA ASIA PACIFIC LIMITED	PROJECT - LAND USE CONSENTS FOR THE STORAGE OF HAZARDOUS SUBSTANCES
DRAWN - DDC	DESIGNED - TD
CHECKED - TD	APPROVED - MC
DATE - 22-05-16	DATE - 22-05-16

TITLE - MATAURA KANA STREET SITE PLAN

SCALE - 1:500

PROJECT NUMBER - AE04729-NEP-DG-0002

REV - C



29 May 2015

Mataura Resource Consent Hearing

## **Appendix G. Community Liaison Group**

# Memorandum

---

**To:** Tess Drewitt, Environmental Consultant, Jacobs

**CC:** Maurice Shaw, Lindsay Buckingham, Michael Oldenhof, John Witter, Frank Pollmann,  
Robert Makgill

**From:** Nathan Burgess, Plant Manager, Taha Fertiliser Industries Limited

**Date:** 28/05/2015

**Re:** Maitaura Liaison Group

---

## TAHA / G.D.C MATAURA LIAISON GROUP

At the resource consent hearing, the Commissioners suggested that Taha instigate a Community Liaison Group, in conjunction with the Gore District Council that can relay information to the wider Maitaura community regarding the happenings within the company and the storage facility.

The Community Liaison Group will give the public the opportunity to air their concerns and have them addressed through a community representative who is in direct contact with both Taha and Council representatives.

It has been proposed that this committee should consist of:

- Alan Taylor – Chair Maitaura Community Board
- Howard Alchin – Gore District Council
- Lindsay Buckingham – Latitude 46 Consultancy (Taha representative)
- Robert Makgill (Legal Counsel for Taha)

I have discussed this matter with Howard, Alan Taylor and Lindsay Buckingham, who have agreed to form a Community Liaison Group. Due to prior commitments next week, the inaugural meeting will be held on Thursday 11 June 2015. Maurice Shaw and myself from Taha will also attend the meeting,

At the meeting, we will discuss a communication plan for communicating both with the community and the Commissioners on any developments or queries. The communications plan will be formalised and made available at a later date.

As Mr Makgill is based in Auckland, it is not considered practical for him to be routinely involved in the Community Liaison Group meetings. However, we will communicate the outcomes of the meeting to him and seek advice where required.



29 May 2015

Mataura Resource Consent Hearing

## **Appendix H. Project Management diagram**

