

**Remediation (NZ) Ltd.**

Think of it as a State of the Art Fertiliser Production Facility

PO Box 8045, New Plymouth 4342  
208 DeHavilland Drive, Bell Block  
Ph: 06 755 0923 Fax: 06 755 4649

 **Revital<sup>®</sup>**  
Fertilisers

**RECEIVED**

**02 AUG 2018**

Taranaki Regional Council

30<sup>th</sup> July 2018

Taranaki Regional Council  
Private Bag 713  
Stratford 4352

Att: Consents Manager

Dear Colin

Re: Response to letter 1 February 2018, Doc 1991784

Further information has been provided as per your request 1 February 2018.

Suitably qualified consultants have been engaged by Remediation (NZ) Ltd to assist us in providing the information requested. They are Colin Kay B Agr Sc. QSA and Katherine Hooper MSc, both being engaged to assist with the review and development of the AEE and CIA.

Colin has been involved with the review and re-writing of the AEE, including model calculations. Kathryn has prepared the CIA and reviewed the AEE against the Regional Freshwater Plan, as well as having a general overview of the AEE.

**Response to Section 92 request 1 Feb 2018**

1. Drilling waste sample results that have been collected in accordance with condition 3 of your existing consent.

**Condition 3**

Before bringing waste to the site the consent holder shall take a representative sample of each type of drilling waste permitted under condition two from each individual source, and have it analysed for the following:

- a. total petroleum hydrocarbons (C<sub>6</sub>-C<sub>9</sub>, C<sub>10</sub>-C<sub>14</sub>, C<sub>15</sub>-C<sub>36</sub>);
- b. benzene, toluene, ethylbenzene, and xylenes;
- c. polycyclic aromatic hydrocarbons screening;
- d. heavy metals screening; and
- e. chloride, nitrogen, pH, potassium, and sodium.

The results of the analysis require by this condition shall be forwarded to the Chief Executive, Taranaki Regional Council every three months or upon request.

*Latest analysis attached -see Appendix 'O'.*

2. An assessment of the volume of drilling muds used in the composting process versus the volume of drilling muds received onsite i.e. the rate at which this material is used in the composting process compared to the amount received, and what any excess material is used for.

*All drilling muds received on site used in composting process-see AEE section 3.3.5*

3. Waste water irrigation system  
Hydraulic loading of the soil  
Rate and depth – (soil infiltration rate and soil water holding capacity).  
*Refer to Appendix F – Leachate and Stormwater Management Plan sections 3.5.3.1 and 3.5.3.2*

The volume of pond storage required to ensure there is no overflow during periods when irrigation cannot occur because the soils are saturated.

*Refer to Appendix F – Irrigation model*

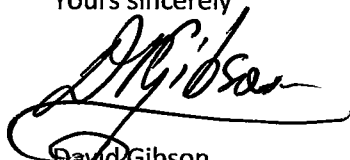
Provide the assumptions and calculations used to determine the necessary storage volumes.

*Refer to Appendix F – Irrigation model*

4. Pond management Plan  
*Refer to Appendix F – section 3.3 and Irrigation model*
5. An aerial map identifying the location of stormwater channels including Stormwater flows from each pad, sediment traps, sediment ponds and flow paths.  
*Refer to Appendix F – Stormwater channels*
6. Use ground water data to provide an assessment of the impact on ground water as a result of irrigation to ground  
*Refer to Appendix X – Ground water sampling of monitoring bores*
7. Use soil sample data to provide an assessment of the impact on soil quality as a result of irrigation to ground  
*Refer to Appendix X – Soil sampling of irrigation blocks*
8. Cultural impact assessment  
*Refer to Appendix 3 – Assessment of Cultural Effects*
9. Assessment against Objective 4.1.1 and Policies 4.1.1  
*Refer to Appendix 3 – Assessment of Cultural Effects*

Please be aware that portions of this AEE are commercially sensitive. The AEE and appendices has been shared with Ngati Mutunga who have signed a confidentiality agreement with Remediation (NZ) Ltd. Certain parts of the Appendices have been marked 'commercial in confidence' and have not been included in the AEE.

Yours sincerely

A handwritten signature in black ink, appearing to read 'D Gibson', with a large, sweeping flourish underneath.

David Gibson  
General manager-Operations  
Remediation (NZ) Ltd