



URUTI COMPOSTING & VERMICULTURE FACILITY



Release of Final Product

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Release of Final Product

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1.0 Purpose of the Plan

The purpose of this document is to provide the methodology and procedures required to certify products produced on the Uruti site are suitable for release.

2.0 General

Products produced on the Uruti site must achieve a specified specification before they are categorised as suitable for release to be transferred off site or used on site. The Release of Final Product documents the specifications the products must achieve before they are permitted to be released.

3.0 Define Finished Product

3.1 Vermicast

Vermicast is the end process of vermiculture. Vermicast is produced using the Bio-gro standards for the production of vermicast and is ready for release after one year.

The vermiculture process is described in RNZ Organic Production Protocols – RW-P-751-001-B

3.2 Compost

Compost is the end product of the composting process. Compost is produced using the NZ Standards NZS 4454:2005 – Compost, Soil Conditioners and Mulch.

Before compost can be released for use on site it must pass/meet the following specifications as shown in table 1 below.

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Table 1: Uruti Site Minimum Guidelines for release of Product

		Guidelines NZS 4454:2005	Guidlines for assessing & Managing Petroleum Hydrocarbon Contaminated Sites in NZ – MfE August 1999	Optimum	Uruti Site Minimum Guidelines for Release
Organic Matter	%	>25			
Total Carbon	%				
Total Nitrogen	%	>0.6			
C/N Ratio				15:1	
Total Phosphorus	mg/kg	>0.1			
Total Sulphur	mg/kg				
Total Potassium	mg/kg				
Total Calcium	mg/kg				
Total Magnesium	mg/kg				
Total Sodium	mg/kg				
Total Iron	mg/kg				
Total Manganese	mg/kg				
Total Zinc	mg/kg	<600			
Total Copper	mg/kg	<300			
Total Boron	mg/kg	<200			
C7 – C9	mg/kg		<2,700		<2,700
C10 – C14	mg/kg		<58		<58
C15 – C36	mg/kg		<4,000		<4,000
Total Hydrocarbons	mg/kg				

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3.2.1 Compost Sampling Plan

3.2.1.1 Quality Assurance

- Personnel collecting samples will be familiar with the sampling plan and have been certified as competent to collect samples by the QA Manger/Site Manager
- A list of certified samplers will be held by the QA Manager/Site Manager

3.2.1.2 Health and Safety

- Personnel collecting samples will be familiar with the Uruti Site Health & Safety Plan and are required to carry out procedures in the plan while carrying out the sampling
- Wear Hi vis vest during sampling
- Assure secure footing when sampling on slopes or near water

3.2.1.3 Equipment

- Sample containers supplied by the Laboratory
- Chain of custody form supplied by the Laboratory
- Water proof pen
- Field note book
- Sampling probe
- Recording Sheet

3.2.1.4 Sampling Locations

The locations of the sampling sites are listed in RU-D-650-.....-A

3.2.1.5 Timing & Frequency of sampling

3.2.1.6 Preparation

- Acquire sample containers from the Laboratory
- Mark or attach labels to the containers
- Make an entry into the field note book
 - Location
 - Date
 - Time

3.2.1.7 Field sampling

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- Note any unusual conditions

3.2.1.8 Transport to Laboratory

Only applicable if samples are to be sent to the Laboratory

3.2.1.9 Reporting

- Forward results to GM - Operations

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3.3 Standing Hay or Silage

Grass suitable for processing into silage or hay is sold on a standing basis to Agricultural contractor and Farmers.

Before standing hay or silage can be approved for sale it must pass/meet the following specifications.....

3.4 Hay and silage

Hay or silage is harvested from the irrigation areas for sale.

Before hay or silage can be approved for sale it must pass/meet the following specifications.....

3.5 Crops