



US COMPOSTING COUNCIL

Seal of Testing Assurance

Hawaiian Earth Products, LTD.
 Ron Westmoerland
 91-400 Malakole Street
 Kapolei
 HI 96707

Date Sampled/Received: 16 Apr. 07 / 18 Apr. 07

Product Identification Compost April
 15-04-2007 B section Compost with Manure

COMPOST TECHNICAL DATA SHEET

| LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.724.3188 | | | |
|--|--|--------------------------|-------------------------------|
| <i>Compost Parameters</i> | <i>Reported as (units of measure)</i> | <i>Test Results</i> | <i>Test Results</i> |
| Plant Nutrients: | % weight basis | % wet weight basis | % dry weight basis |
| Nitrogen | Total N | 1.0 | 1.3 |
| Phosphorus | P ₂ O ₅ | 0.48 | 0.64 |
| Potassium | K ₂ O | 0.76 | 1.0 |
| Calcium | Ca | 3.3 | 4.4 |
| Magnesium | Mg | 0.57 | 0.76 |
| Moisture Content | % wet weight basis | 25.8 | |
| Organic Matter Content | % dry weight basis | 44.7 | |
| pH | units | 8.49 | |
| Soluble Salts <i>(electrical conductivity EC_s)</i> | dS/m (mmhos/cm) | 4.430 | |
| Particle Size or Sieve Size | % under 9.5 mm, dw basis | 100.0 | |
| <i>Stability Indicator (respirometry)</i> | | <i>Stability Rating:</i> | |
| CO ₂ Evolution | mg CO ₂ -C/g OM/day | 3.1 | Stable |
| | mg CO ₂ -C/g TS/day | 1.4 | |
| <i>Maturity Indicator (bioassay)</i> | | | |
| Percent Emergence | average % of control | 100 | |
| Relative Seedling Vigor | average % of control | 100 | |
| Select Pathogens | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a) | Pass | <i>Fecal coliform</i> |
| | | Pass | <i>Salmonella</i> |
| Trace Metals | PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3. | Pass | <i>As, Cd, Cr, Cu, Pb, Hg</i> |
| | | | <i>Mo, Ni, Se, Zn</i> |

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group: Apr.07.C Laboratory Number: 70407342/2226210
 Analyst: Kate Kurtz www.compostlab.com

SOIL CONTROL LAB

42 HANGAR WAY
WATSONVILLE
CALIFORNIA
95076
USA

Account No.:
7040734 - 2/2 - 2262
Group: Apr.07.C No.10

Hawaiian Earth Products, LTD.
91-400 Malakole Street
Kapolei, HI 96707
Attn: Ron Westmoerland

DATE RECEIVED: 18 Apr. 07
SAMPLE ID: 15-04-2007 B section Compost with Manure
SAMPLE ID. No.: 2/2 7040734

*Sample was received and handled in accordance with TMECC procedures.

| Nutrients | Dry wt. | As Rcvd. | units | Stability Indicator: | Respirometry | Biologically Available C |
|---|---------|----------|----------|--|--------------|--------------------------|
| Total Nitrogen: | 1.3 | 1.0 | % | CO2 Evolution | | |
| Ammonia (NH ₄ -N): | 86 | 63 | mg/kg | mg CO ₂ -C/g OM/day | 3.1 | 8.4 |
| Nitrate (NO ₃ -N): | 7.7 | 5.7 | mg/kg | mg CO ₂ -C/g TS/day | 1.4 | 3.8 |
| Org. Nitrogen (Org.-N): | 1.3 | 1.0 | % | Stability Rating | stable | moderately unstable |
| Phosphorus (as P ₂ O ₅): | 0.64 | 0.48 | % | Maturity Indicator: Cucumber Bioassay | | |
| Phosphorus (P): | 2819 | 2092 | mg/kg | Compost:Vermiculite(v:v) | 1:1 | 1:3 |
| Potassium (as K ₂ O): | 1.0 | 0.76 | % | Emergence (%) | 100 | 100 |
| Potassium (K): | 8492 | 6301 | mg/kg | Seedling Vigor (%) | 100 | 100 |
| Calcium (Ca): | 4.4 | 3.3 | % | Description of Plants | healthy | healthy |
| Magnesium (Mg): | 0.76 | 0.57 | % | Pathogens Date Tested: 18 Apr. 07 | | |
| Sulfate (SO ₄ -S): | 470 | 349 | mg/kg | Fecal Coliform | < 2 MPN/g | pass |
| Boron (Total B): | 26 | 19 | mg/kg | Salmonella | < 3 MPN/4g | pass |
| Moisture: | 0.0 | 25.8 | % | Inerts % by weight | | |
| Sodium (Na): | 0.22 | 0.16 | % | Plastic | < 0.5 | |
| Chloride (Cl): | 0.37 | 0.28 | % | Glass | < 0.5 | |
| pH Value: | NA | 8.49 | unit | Metal | < 0.5 | |
| Bulk Density : | 20 | 26 | lb/cu ft | Sharps | ND | |
| Carbonates (CaCO ₃): | 161 | 120 | lb/ton | | | |
| Conductivity (EC5): | 4.430 | 3.287 | mmhos/cm | | | |
| Organic Matter: | 44.7 | 33.2 | % | | | |
| Organic Carbon: | 26.6 | 19.7 | % | | | |
| Ash: | 55.3 | 41.0 | % | | | |
| C/N Ratio | 20 | 20 | ratio | | | |
| AgIndex | 5 | 5 | ratio | | | |

| Metals | Dry wt. | EPA Limit | units | Size & Volume Distribution | MM | % by weight | % by volume | BD g/cc |
|------------------|---------|-----------|-------|---|------|-------------|-------------|---------|
| Alumnium (Al) | 11890 | - | mg/kg | > 50 | 0.0 | 0.0 | 0.00 | 0.00 |
| Arsenic (As): | 4 | 41 | mg/kg | 25 to 50 | 0.0 | 0.0 | 0.00 | 0.00 |
| Cadmium (Cd): | 2 | 39 | mg/kg | 16 to 25 | 0.0 | 0.0 | 0.00 | 0.00 |
| Chromium (Cr): | 50 | 1200 | mg/kg | 9.5 to 16 | 0.0 | 0.0 | 0.00 | 0.00 |
| Cobolt (Co) | 13 | - | mg/kg | 6.3 to 9.5 | 0.0 | 0.0 | 0.00 | 0.00 |
| Copper (Cu): | 88 | 1500 | mg/kg | 4.0 to 6.3 | 1.7 | 3.6 | 0.18 | 0.18 |
| Lead (Pb): | 14 | 300 | mg/kg | 2.0 to 4.0 | 15.5 | 20.3 | 0.28 | 0.28 |
| Mercury (Hg): | < 1 | 17 | mg/kg | < 2.0 | 82.8 | 76.1 | 0.40 | 0.40 |
| Molybdenum (Mo): | 1 | - | mg/kg | Bulk Density Description: <.35 Light Materials, .35-.60 medium weight materials, >.60 Heavy Materials | | | | |
| Nickel (Ni): | 46 | 420 | mg/kg | Analyst: Kate Kurtz | | | | |
| Selenium (Se): | < 1 | 36 | mg/kg | | | | | |
| Zinc (Zn): | 125 | 2800 | mg/kg | | | | | |