SYNAGRO

*A Residuals Management Company*

RECEIVED
SEP 18 2006
SURFACE WATER

September 13, 2006

Mr. Steve Rohm
Delaware Department of Natural Resources
& Environmental Control
Division of Water Resources
Surface Water Discharge Section
89 Kings Highway
Dover, Delaware 19901

Dear Mr. Rohm:

Please find enclosed a revised Nutriment Management Plan for the Baxter Farm for the land application of the Vlassic/Pinnacle Foods lagoon Material. With operations beginning soon, Synagro obtained two samples from the lagoon to average with the spring sample and give a more representative value for nitrogen.

The following information is included in this revised plan:

1. Revised biosolids application rates for the Fall 2006 application
2. Current biosolids analysis for the Pinnacel/Vlassic Foods Project
3. Biosolids Plant Available Nitrogen calculations and past Residuals
4. Guideline Sheet showing PAN Numbers and Truck contents information

If you have any questions or require any additional information please contact me at (410)-284-4120.

Sincerely,

Phil Upton, CCA
Technical Services Manager

Enclosures
cc: Beth Sise – Vlassic Foods Inc.
Laurie Nicholls – Synagro Mid-Atlantic, Inc.
Jay Baxter - Baxter Farms
Jack Kimbles, Special Projects Manager, Synagro Central LLC

7014 E. Baltimore St., Baltimore, MD 21224 • Ph: (410) 284-4120 • Fax: (410) 282-7466 • Toll Free: (800) 825-5698

# Nutrient Management Plan
## Pinnacle/Vlassic Project

**Site : SX-3** Revised

| | | | | | | |
|---|---|---|---|---|---|---|
| | Date: | 09/07/06 | Water Shed: | | Net | 302.9 |
| County: | Sussex | | | | Acres Permitted | |

**Operator Information**

| | | | | | | |
|---|---|---|---|---|---|---|
| Name | Jay Baxter | | | | | |
| Address | 23073 Zoar Road | | | | | |
| Post Off | Georgetown, Delaware | | | | | |
| Zip Code | 19947 | | Phone No. | 1-302-856-9526 | | |
| | | | | | | |
| | | | | | | |

*
*

* **Yields for this plan were obtained from:** **Farmers Statement of Yields**

| Account ID No.'s | Total Acres |
|---|---|
| | |
| | |
| | |
| | |
| | |

This plan applies to the Baxter Farms Property (SX-3 ), consisting of 302.9 permitted acres, located in Sussex County, Delware,

The Nutrient Management recommendations provided herein conform to the Delaware Nutrient Management and sewage sludge management regulations and supercede any prior nutrient management plans or field fertililty recommendations.

Prepared by:

Phil Upton
Nutrient Management Consultant
Certificate No. 1312
for Synagro Mid-Atlantic Inc.
License No. 2018

**Signed:** _____

**Dated:** **9/7/2006**

# Nutrient Recommendations

Farm: SX-3
Acres: 302.9

Sheet 1
9/7/2006

* Values of P and K are averages of values of each soil type

| Field No. | Field Acres | Soil pH | FIV P | FIV K | Crops Planted | Yield Goals | Crop Requirements N | Crop Requirements P205 | Crop Requirements K20 | Manure and Legume Credits: Leg Cred | Bios Credit | Man Cred | Manure N | Manure P205 | Manure K20 | Fertilizer Recommendations N | P205 | K20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 83.5 | 5.9 | 229 Excess | 55 Opt | Corn | 200 | 200 | 0 | 40 | 0 | 58.5 | 0 | 0 | 0 | 0 | 142 | 0 | 40 |
| | | | | | Soybeans | 45 | 143 | 0 | 40 | | | | | | | 85 | 0 | 40 |
| | | | | | Wheat | 60 | 60 | 0 | 30 | | | | | | | 2 | 0 | 30 |
| 7 | 219.4 | 6 | 349 Excess | 68 Opt | Corn | 200 | 200 | 0 | 40 | 0 | 85.7 | 0 | 0 | 0 | 0 | 114 | 0 | 40 |
| | | | | | Soybeans | 57 | 143 | 0 | 40 | | | | | | | 57 | 0 | 40 |
| | | | | | Wheat | 60 | 60 | 0 | 40 | | | | | | | 0 | 0 | 40 |
| 0 | 0 | 0 | 0 Low | 0 Low | Corn | 200 | 200 | 100 | 139 | 0 | 0.0 | 0 | 0 | 0 | 0 | 200 | 100 | 139 |
| | | | | | Soybeans | 57 | 142.5 | 100 | 139 | | | | | | | 143 | 100 | 139 |
| | | | | | Wheat | 60 | 60 | 100 | 139 | | | | | | | 60 | 100 | 139 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 Low | 0 Low | Corn | 200 | 200 | 100 | 139 | 0 | 0.0 | 0 | 0 | 0 | 0 | 200 | 100 | 139 |
| | | | | | Soybeans | 57 | 142.5 | 100 | 139 | | | | | | | 143 | 100 | 139 |
| | | | | | Wheat | 60 | 60 | 100 | 139 | | | | | | | 60 | 100 | 139 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |
| | | | | | | | | | | | | | | | | 0 | 0 | 0 |

# Residual Biosolids from Past Applications

% Organic N from Biosolids Applied
Km - Mineralization Factor from the year applied (MDE Table)
S - Biosolids applied in that year (Total Dry Tons)
Formula: (%Organic N * Km * S) / Field acres

Sheet 1 | Site: SX-3

* Field acres must be "1" or wil not calulate

| Field Number | Year Applied | Biosolids Source | % Organic N | Km Factor | S (Dry Tns) | Field Acres | Lbs/ Acre |
|---|---|---|---|---|---|---|---|
| 5 | | | | | | | |
| | 1998-5A | Vlassic Project | 4.35 | 0.30 | 98.2 | 20.5 | 6.3 |
| | 1999-5B | Vlassic Project | 4.51 | 0.30 | 289.4 | 63.9 | 6.1 |
| | 2001-5A | Vlassic Project | 0.76 | 0.30 | 138.1 | 42.0 | 0.7 |
| | 2001-5B | Laurel Delaware | 2.54 | 0.30 | 266.3 | 41.5 | 4.9 |
| | 2002-5 | Vlassic Project | 3.81 | 0.32 | 287.0 | 83.5 | 4.2 |
| | 2005-5 | Vlassic Project | 4.95 | 2.10 | 296.9 | 83.5 | 37.0 |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | Total | 58.5 |
| 7 | 1997-7B | Vlassic Project | 5.11 | 0.30 | 454.53 | 50.1 | 13.9 |
| | 1998-7C | Vlassic Project | 4.85 | 0.30 | 190.28 | 45.0 | 6.2 |
| | 1998-7D | Vlassic Project | 4.85 | 0.30 | 24.30 | 7.2 | 4.9 |
| | 2000-7A | Vlassic Project | 4.13 | 0.30 | 65.10 | 17.0 | 4.7 |
| | 2000-7B | Vlassic Project | 4.13 | 0.30 | 116.05 | 29.0 | 5.0 |
| | 2001-7AB | Laurel Delaware | 2.54 | 0.30 | 340.51 | 67.1 | 3.9 |
| | 2001-7C | Laurel Delaware | 2.54 | 0.30 | 329.10 | 45.0 | 5.6 |
| | 2001-7E1 | Laurel Delaware | 2.54 | 0.30 | 169.31 | 100.1 | 1.3 |
| | 2002-7B | Vlassic Project | 3.81 | 0.32 | 191.40 | 58.0 | 4.0 |
| | 2003-7B | Vlassic Project | 4.99 | 0.90 | 0.00 | 58.0 | 0.0 |
| | 2003-7C | Vlassic Project | 4.99 | 0.42 | 100.85 | 47.0 | 4.5 |
| | 2003-7A | Vlassic Project | 4.99 | 0.42 | 71.40 | 16.0 | 9.4 |
| | 2004-7 | Vlassic Project | 4.79 | 2.10 | 235.22 | 165.0 | 14.3 |
| | 2005-7A | Vlassic Project | 4.95 | 2.10 | 65.03 | 26.0 | 26.0 |
| | | | | | | Total | 85.7 |
| 0 | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | Total | 0.0 |
| 0 | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | Total | 0.0 |
| 0 | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | 0.0 | |
| | | | | | | Total | 0.0 |

# Nitrogen Source Rate Table

Site: SX-3

## Pan Sheet 1

| | Permitted Source | Sym | Process | | PAN | DT | 5 | | | | DT | 7 | | | | | 0 | | | | | 0 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Corn | SB | Wht | Bar | Gr Hy | Corn | SB | Wht | Bar | GrHy | Corn | SB | Wht | Bar | GrHy | Corn | SB | Wht | Bar | GrHy |
| x | Pinnacle/Vlassic | VL | AerDig | Sur/Inc | 33.4 | 4.2 | 2.5 | 0.0 | | | 3.4 | 1.7 | 0.0 | | | | | | | | | | | | |
| x | Pinnacle/Vlassic | VL | AerDig | Sur/Inc | 25.8 | 5.5 | 3.3 | 0.7 | | | 4.4 | 2.2 | 0.0 | | | | | | | | | | | | |
| | | | | | 0.0 | | | | | | | | | | | | | | | | | | | | |
| | | | | | 0.0 | | | | | | | | | | | | | | | | | | | | |

# PAN Calculation Sheet

Pinnacle/Vlassic Project  Date: 9/7/2006

| Date Sample | Sample No. | Percent Solids | Organic Nitrogen | NO3 Nitrogen | NH4 Nitrogen | Km Factor |
|---|---|---|---|---|---|---|
| | | | | | | |
| 04/25/06 | 1 | 5 | 6.90 | 0.005 | 1.6 | 0.3 |
| 08/28/06 | 2 | 1.82 | 1.43 | 0 | 0.38 | 0.3 |
| 08/28/06 | 3 | 2.42 | 0.780 | 0 | 0.29 | 0.3 |
| | 4 | | | | | 0.3 |
| | 5 | | | | | 0.3 |
| Average | | 3.08 | 3.0 | 0.002 | 0.76 | 0.3 |

→ FM = 1 Incorporated  FM = .5 Surface Applied

→ **PAN Incorp** ((%ORGN*Km)+(%NO3 N)+(%NH4 N* 1))*20

33.4

→ **PAN Surface** ((%ORGN*Km)+(%NO3 N)+(%NH4 N* .5))*20

25.82

# Phosphorus Calculations

| Date | Sample # | %Elem P | % P205 | PPM P205 | P2O5/DT |
|---|---|---|---|---|---|
| 4/25/2006 | 1 | 2.20 | 5.04 | 50380.0 | 100.8 |
| 8/28/2006 | 2 | 0.83 | 1.90 | 19007.0 | 38.0 |
| 8/28/2006 | 3 | 0.80 | 1.83 | 18320.0 | 36.6 |
| | 4 | | 0.00 | 0.0 | 0.0 |
| | 5 | | 0.00 | 0.0 | 0.0 |
| | 6 | | 0.00 | 0.0 | 0.0 |
| | Average | 1.28 | 1.46 | 14617.8 | 29.2 |

**Average P205/DT** 29.2 ←

# Guidelines for Application Rate

## Pinnacle/Vlassic Project

| Period: | Spring 2006 |
|---|---|

| | |
|---|---|
| PAN (Incorporated) (Lbs/DT) | 33.4 |
| PAN (Surface applied) lbs/DT | 25.8 |
| % Total Solids | 3.08 |

| | | |
|---|---|---|
| Truck Data | DT/Truck (23wt) | 7.08 |
| | Avg Lbs N/Truck | 237 |

* Based on the biosolids analyses from 05/25/06and 08/28/06

PAN - Plant Available Nitrogen

Report Number:
R06237-8005
Account Number:
25002

# A&L EASTERN LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237
(804) 743-9401 • Fax No. (804) 271-6446

TO: SYNAGRO CENTRAL LLC
7014 E BALTIMORE AVE
BALTIMORE, MD 21224

FOR: VLASSIC/PINNACLE

COPY: JACK KIMBLES

LAB NUMBER: 43761
SAMPLE ID: VLASSIC #1

## REPORT OF ANALYSIS

DATE SAMPLED: 8/22/2006
DATE RECEIVED: 8/24/2006 1000
DATE REPORTED: 8/28/2006 PAGE: 1

| PARAMETER | RESULT (%) | RESULT (mg/kg) | DETECTION LIMIT (mg/kg*) | ANALYST | ANALYSIS DATE | ANALYSIS TIME | METHOD |
|---|---|---|---|---|---|---|---|
| Solids, Total (As is) | 1.82 | 18200 | 100 | RD | 08/24/06 | 16:00 | SM 2540G |
| Nitrogen, Total Kjeldahl | 1.81 | 18100 | 100 | JM | 08/25/06 | 16:00 | EPA 351.3 |
| Phosphorus | 0.83 | 8300 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Potassium | 0.16 | 1600 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Sulfur | 3.23 | 32300 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Calcium | 1.20 | 12000 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Magnesium | 0.25 | 2500 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Sodium | 0.37 | 3700 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Iron | | 46800 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Aluminum | | 13600 | 10 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Manganese | | 326 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Copper | | 350 | 1 | JM | 08/25/06 | 15:00 | SW 846-6010B |
| Zinc | | 790 | 1 | JM | 08/25/06 | 16:00 | SW846-6010B |
| Nitrogen, Ammonia (as N) | 0.38 | 3800 | 10 | JM | 08/25/06 | 14:00 | EPA 350.2 |
| Nitrogen, Organic (N) | 1.43 | 14300 | 100 | DCH | | | CALCULATION |
| Nitrogen, NO3+NO2 | | < 1 | 1 | KS | 08/25/06 | 15:00 | SM 4500-NO3F |
| Cadmium | | 3.0 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Chromium | | 46 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |

All values are on a dry weight basis except as noted. *Detection Limit on all N series is on a wet basis.

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PAUL C. H. CHU

Report Number:
R06237-8005
Account Number:
25002

A&L EASTERN LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237
(804) 743-9401 • Fax No. (804) 271-6446

TO: SYNAGRO CENTRAL LLC
7014 E BALTIMORE AVE
BALTIMORE, MD 21224

FOR: VLASSIC/PINNACLE

COPY: JACK KIMBLES

LAB NUMBER: 43761
SAMPLE ID: VLASSIC #1

REPORT OF ANALYSIS

DATE SAMPLED: 8/22/2006
DATE RECEIVED: 8/24/2006 1000
DATE REPORTED: 8/28/2006 PAGE: 2

| PARAMETER | RESULT (%) | RESULT (mg/kg) | DETECTION LIMIT (mg/kg) | ANALYST | ANALYSIS DATE | ANALYSIS TIME | METHOD |
|---|---|---|---|---|---|---|---|
| Nickel | | 51 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Lead | | 61 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Arsenic | | 9.0 | 0.1 | KM | 08/25/06 | 15:00 | SW 846-7061A |
| Mercury | | 0.6 | 0.2 | KM | 08/25/06 | 15:00 | SW 846-7471A |
| Selenium | | 2.8 | 0.1 | KM | 08/25/06 | 15:00 | SW 846-7741A |
| pH (Std. Unit, As is) | 7.0 | | 0.01 | RD | 08/25/06 | 12:30 | SW 846-9045C |
| Calcium Carbonate Equiv (CCE) | < 0.01 | 0 | 100 | JM | 08/25/06 | 15:00 | AOAC 955.01 |
| Solids, Volatile(Organic Matter) | 52.48 | 524800 | 100 | KS | 08/25/06 | 16:00 | SM 2540G |
| Molybdenum | | 7 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |

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PAUL C. H. CHU

Report Number:
R06237-8006
Account Number:
25002

# A&L EASTERN LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237
(804) 743-9401 • Fax No. (804) 271-6446

TO: SYNAGRO CENTRAL LLC
7014 E BALTIMORE AVE
BALTIMORE, MD 21224

FOR: VLASSIC/PINNACLE

COPY: JACK KIMBLES

LAB NUMBER: 43762
SAMPLE ID: VLASSIC #2

## REPORT OF ANALYSIS

DATE SAMPLED: 8/22/2006
DATE RECEIVED: 8/24/2006 1000
DATE REPORTED: 8/28/2006 PAGE: 1

| PARAMETER | RESULT (%) | RESULT (mg/kg) | DETECTION LIMIT (mg/kg*) | ANALYST | ANALYSIS DATE | ANALYSIS TIME | METHOD |
|---|---|---|---|---|---|---|---|
| Solids, Total (As is) | 2.42 | 24200 | 100 | RD | 08/24/06 | 16:00 | SM 2540G |
| Nitrogen, Total Kjeldahl | 1.07 | 10700 | 100 | JM | 08/25/06 | 16:00 | EPA 351.3 |
| Phosphorus | 0.80 | 8000 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Potassium | 0.13 | 1300 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Sulfur | 4.21 | 42100 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Calcium | 1.08 | 10800 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Magnesium | 0.23 | 2300 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Sodium | 0.30 | 3000 | 100 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Iron | | 49200 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Aluminum | | 13300 | 10 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Manganese | | 306 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Copper | | 389 | 1 | JM | 08/25/06 | 15:00 | SW 846-6010B |
| Zinc | | 808 | 1 | JM | 08/25/06 | 16:00 | SW846-6010B |
| Nitrogen, Ammonia (as N) | 0.29 | 2900 | 10 | JM | 08/25/06 | 14:00 | EPA 350.2 |
| Nitrogen, Organic (N) | 0.78 | 7800 | 100 | DCH | | | CALCULATION |
| Nitrogen, NO3+NO2 | | < 1 | 1 | KS | 08/25/06 | 15:00 | SM 4500-NO3F |
| Cadmium | | 4.0 | 1 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Chromium | | 48 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |

All values are on a dry weight basis except as noted. *Detection Limit on all N series is on a wet basis.

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PAUL C. H. CHU

Report Number:
R06237-8006
Account Number:
25002

A&L EASTERN LABORATORIES, INC.

7621 Whitepine Road • Richmond, Virginia 23237
(804) 743-9401 • Fax No. (804) 271-6446

TO: SYNAGRO CENTRAL LLC
7014 E BALTIMORE AVE
BALTIMORE, MD 21224

FOR: VLASSIC/PINNACLE

COPY: JACK KIMBLES

LAB NUMBER: 43762
SAMPLE ID: VLASSIC #2

REPORT OF ANALYSIS

DATE SAMPLED: 8/22/2006
DATE RECEIVED: 8/24/2006 1000
DATE REPORTED: 8/28/2006 PAGE: 2

| PARAMETER | RESULT (%) | RESULT (mg/kg) | DETECTION LIMIT (mg/kg) | ANALYST | ANALYSIS DATE | ANALYSIS TIME | METHOD |
|---|---|---|---|---|---|---|---|
| Nickel | | 60 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Lead | | 75 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |
| Arsenic | | 9.5 | 0.1 | KM | 08/25/06 | 15:00 | SW 846-7061A |
| Mercury | | 0.7 | 0.2 | KM | 08/25/06 | 15:00 | SW 846-7471A |
| Selenium | | 2.8 | 0.1 | KM | 08/25/06 | 15:00 | SW 846-7741A |
| pH (Std. Unit, As is) | 7.0 | | 0.01 | RD | 08/25/06 | 12:30 | SW 846-9045C |
| Calcium Carbonate Equiv (CCE) | < 0.01 | 0 | 100 | JM | 08/25/06 | 15:00 | AOAC 955.01 |
| Solids, Volatile(Organic Matter) | 48.86 | 488600 | 100 | KS | 08/25/06 | 16:00 | SM 2540G |
| Molybdenum | | 7 | 5 | JM | 08/25/06 | 16:00 | SW 846-6010B |

All values are on a dry weight basis except as noted. *Detection Limit on all N series is on a wet basis.

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PAUL C. H. CHU

Microbac
www.microbac.com

# Microbac Laboratories, Inc.
Gascoyne Division

2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800
Fax: 410-633-6553
www.microbac.com

## Test Results



**Client:** Synagro
**Report No:** 0604552 **(Revised)**
**Project:** Vlasic Foods, Inc.
**Matrix:** SLUDGE

**Client Sample ID:** Sludge Pond-Dry
**Lab ID:** 0604552-001
**Collection Date:** 4/25/2006 13:35

| Analyses | Test Results | Reporting Limit | Units | Date/Time Analyzed | |
|---|---|---|---|---|---|
| **MERCURY, TOTAL ( EPA 7471A )** | | | | Analyst: APS | |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA | |
| Mercury | **< 0.50** | 0.50 | mg/kg-dry | 5/4/2006 | 11:23 |
| **METALS, TOTAL ( EPA 6010B )** | | | | Analyst: APS | |
| Prep. Method: EPA 3050B | Prep. Date: | 4/28/2006 11:01:00 AM | Prep Analyst | EDW | |
| Aluminum | **20,000** | 1,000 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Calcium | **18,000** | 5,000 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Chromium | **< 100** | 100 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Copper | **< 100** | 100 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Iron | **19,000** | 1,000 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Lead | **< 100** | 100 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Magnesium | **3,100** | 1,000 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Nickel | **< 100** | 100 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Potassium | **5,800** | 1,000 | mg/Kg-dry | 5/1/2006 | 14:37 |
| Sodium | **54,000** | 5,000 | mg/Kg-dry | 5/5/2006 | 10:51 |
| Zinc | **320** | 200 | mg/Kg-dry | 5/1/2006 | 14:37 |
| **ICP/MS METALS, TOTAL ( SW846 6020 )** | | | | Analyst: PRM | |
| Prep. Method: NA | Prep. Date: | 4/28/2006 11:01:00 AM | Prep Analyst | NA | |
| Arsenic | **5.8** | 2.0 | mg/Kg-dry | 5/10/2006 | 14:19 |
| Cadmium | **1.6** | 0.50 | mg/Kg-dry | 5/10/2006 | 14:19 |
| Molybdenum | **11** | 10 | mg/Kg-dry | 5/10/2006 | 16:57 |
| Selenium | **< 5.0** | 5.0 | mg/Kg-dry | 5/10/2006 | 14:19 |
| **NITROGEN, ORGANIC (N) ( CALCULATION )** | | | | Analyst: RED | |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA | |
| Organic Nitrogen | **69,000** | 1,900 | mg/Kg-dry | 5/9/2006 | 15:25 |

6.9

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Gascoyne Division

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## Test Results



**Client:** Synagro
**Client Sample ID:** Sludge Pond-Dry
**Report No:** 0604552 **(Revised)**
**Project:** Vlasic Foods, Inc.
**Lab ID:** 0604552-001
**Matrix:** SLUDGE
**Collection Date:** 4/25/2006 13:35

| Analyses | Test Results | Reporting Limit | Units | Date/Time Analyzed |
|---|---|---|---|---|
| **NITROGEN, TOTAL (N) ( CALCULATION )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| Total Nitrogen | **85,000** | 1,900 | mg/Kg-dry | 5/9/2006 15:25 |
| **AMMONIA (N) ( EPA 350.2M )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| Ammonia (N) | **16,000** | 1,600 | mg/Kg-dry | 5/9/2006 10:30 |
| **NITRATE PLUS NITRITE (N) ( EPA 353.2 )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| *note: Analysis performed on water extract.* | | | | |
| Nitrogen, Nitrate-Nitrite | **51** | 9.9 | mg/Kg-dry | 4/28/2006 11:10 |
| **PHOSPHORUS (P), TOTAL ( SM 19 4500 P B+EM )** | | | | Analyst: LCR |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| Total Phosphorus | **22,000** | 700 | mg/Kg-dry | 5/2/2006 6:40 |
| **PCBS ( EPA 8082 )** | | | | Analyst: MST |
| Prep. Method: EPA 3550B | Prep. Date: | 4/26/2006 12:00:14 PM | Prep Analyst | SBT |
| Aroclor 1016 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1221 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1232 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1242 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1248 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1254 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Aroclor 1260 | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |
| Total PCBs | **< 20** | 20 | mg/Kg-dry | 5/2/2006 8:58 |

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## Test Results



| | | | |
|---|---|---|---|
| **Client:** | Synagro | **Client Sample ID:** | Sludge Pond-Dry |
| **Report No:** | 0604552 **(Revised)** | | |
| **Project:** | Vlasic Foods, Inc. | **Lab ID:** | 0604552-001 |
| **Matrix:** | SLUDGE | **Collection Date:** | 4/25/2006 13:35 |

| Analyses | Test Results | Reporting Limit | Units | Date/Time Analyzed |
|---|---|---|---|---|
| **MOISTURE CONTENT ( DRIED AT 105°C )** | | | | Analyst: VAS |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| PMOIST | **95** | 0.050 | wt% | 4/27/2006 11:30 |
| **NITROGEN, TOTAL KJELDAHL (N) ( EPA 351.3 )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| TKN | **85,000** | 1,900 | mg/Kg-dry | 5/3/2006 15:10 |

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## Test Results



**Client:** Synagro
**Client Sample ID:** Sludge Pond-As Received
**Report No:** 0604552 **(Revised)**
**Project:** Vlasic Foods, Inc.
**Lab ID:** 0604552-002
**Matrix:** SLUDGE
**Collection Date:** 4/25/2006 13:35

| Analyses | Test Results | Reporting Limit | Units | Date/Time Analyzed |
|---|---|---|---|---|
| **METALS, TOTAL ( EPA 6010B )** | | | | Analyst: APS |
| Prep. Method: EPA 3050B | Prep. Date: | 4/28/2006 11:01:00 AM | Prep Analyst | EDW |
| Aluminum | **990** | 48 | mg/Kg | 5/1/2006 14:41 |
| Arsenic | **< 4.8** | 4.8 | mg/Kg | 5/1/2006 14:41 |
| Iron | **950** | 48 | mg/Kg | 5/1/2006 14:41 |
| Molybdenum | **< 4.8** | 4.8 | mg/Kg | 5/1/2006 14:41 |
| Selenium | **< 4.8** | 4.8 | mg/Kg | 5/1/2006 14:41 |
| **NITROGEN, ORGANIC (N) ( CALCULATION )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: | NA | Prep Analyst | NA |
| Organic Nitrogen | **3,700** | 98 | mg/Kg | 5/9/2006 15:25 |
| **NITROGEN, TOTAL (N) ( CALCULATION )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: | NA | Prep Analyst | NA |
| Total Nitrogen | **4,500** | 98 | mg/Kg | 5/9/2006 15:25 |
| **AMMONIA (N) ( EPA 350.2M )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: | NA | Prep Analyst | NA |
| Ammonia (N) | **740** | 78 | mg/Kg | 5/9/2006 10:30 |
| **NITRATE PLUS NITRITE (N) ( EPA 353.2 )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: | NA | Prep Analyst | NA |
| *note: Analysis performed on water extract.* | | | | |
| Nitrogen, Nitrate-Nitrite | **3.2** | 0.48 | mg/Kg | 4/28/2006 11:10 |
| **PHOSPHORUS (P), TOTAL ( SM 19 4500 P B+EM )** | | | | Analyst: LCR |
| Prep. Method: NA | Prep. Date: | NA | Prep Analyst | NA |
| Total Phosphorus | **990** | 20 | mg/Kg | 5/2/2006 6:40 |

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## Test Results



**Client:** Synagro
**Report No:** 0604552 **(Revised)**
**Project:** Vlasic Foods, Inc.
**Matrix:** SLUDGE

**Client Sample ID:** Sludge Pond-As Received
**Lab ID:** 0604552-002
**Collection Date:** 4/25/2006 13:35

| Analyses | Test Results | Reporting Limit | Units | Date/Time Analyzed |
|---|---|---|---|---|
| **PH (CORROSIVITY) ( EPA 9045C )** | | | | Analyst: LCR |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| pH | **6.8** | 1.0 | pH Units | 4/28/2006 6:30 |
| Temperature | **25.0** | 0.10 | °C | 4/28/2006 6:30 |
| **NITROGEN, TOTAL KJELDAHL (N) ( EPA 351.3 )** | | | | Analyst: RED |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| TKN | **4,500** | 98 | mg/Kg | 5/3/2006 15:10 |
| **TOTAL VOLATILE SOLIDS (550°C) ( SM 18 2540 G )** | | | | Analyst: VAS |
| Prep. Method: NA | Prep. Date: NA | | Prep Analyst | NA |
| Volatile Solids | **70** | 0.050 | wt% | 4/27/2006 11:15 |

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**Gascoyne Division**

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## Terms and Conditions

**Reporting Limit -** is defined by Microbac Laboratories, Inc., Gascoyne Division as the Estimated Quantitation Limit (EQL) and is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. It is dependent upon many factors such as sample matrix (other substances present), sensitivity of test method and sensitivity of instrumentation. The reporting limit therefore varies from sample to sample. The use of the term "Reporting Limit" by Microbac Laboratories, Inc., Gascoyne Division meets the US EPA's definition of Estimated Quantitation Limit (EQL) found in SW846, Third Edition, Chapter One. The term "Reporting Limit" may not be applicable to all tests.

### Units

% - Percent
% Rec - percent recovery
wt% - weight percent
dwb - dry weight basis
% retained - percent retained
L/min - liters per minute
mg LAS/L - mg/L as Linear AlkylSulfonate
$M^3$ - cubic meters
NA - not applicable
ppb - part per billion (ug/liter or ug/kg)
ppm - part per million (mg/liter or mg/kg)
micrograms
$M^3$ - micrograms per cubic meter
ug/area - micrograms per area wiped
ug/$ft^2$ - micrograms per square foot
umhos/cm - micromhos per centimeter
mmhos/cm - millimhos per centimeter
°C - degrees Centigrade (Celsius)
°F - degrees Fahrenheit
< - less than

mv - millivolts
LEL - Lower Explore Limit
wl - water leachate
NTU - Nephelometric Turbidity Units
MPN - Most Probable Number
MPN/g dwb - Most Probable Number per gram on a dry weight basis
mgHCN/kg - mg/kg as Hydrogen Cyanide
TON - Threshold Odor Number
abs/cm - absorbance units per centimeter
cfu/ml- colony forming units per milliliter
cst - centistokes
g/cc - grams per cubic centimeter
gals/day - gallons per day
gals/min - gallons per minute
lb/gal - pounds per gallon
mg -milligrams
mg/$M^3$ - milligrams per cubic meter
mg/L TC - milligrams per liter (ppm) of TCLP extract
BTU/lb (gal) - British Thermal Units per pound (gallon)
> - greater than

To convert ppm to ppb, multiply by 1,000 To convert % to ppm, multiply by 10,000

### Report No. Suffix

Revised - revision to original report

Duplicate - duplicate report

### Interpretation of Report

The results included in this report indicate the findings of this laboratory for the test conducted. **Absence of a test result should not be interpreted or implied as indicating the absence of the substance.** If the report does not contain a result for a test that you requested, please contact us immediately.

### Sample Retention

Samples are retained for three weeks after testing. If longer retention is required, please request. We reserve the right to return samples to our clients. Samples placed "on Hold" for analysis will be retained for six weeks prior to disposal.

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