Citrus Kim Karoly, P.E.
LTP file

# BOARD OF COUNTY COMMISSIONERS
# DEPARTMENT OF PUBLIC WORKS

RECEIVED
JAN 15 1998
Department of Environmental Protection
SOUTHWEST DISTRICT
BY

January 12, 1998

Ms. Allison Amram, P.G.
Environmental Specialist III
Dept. Of Environmental Protection
3804 Coconut Palm Drive
Tampa, Fl 33619-8318

**REPLY TO:**
Solid Waste Management

**RE: QUARTERLY LEACHATE MONITORING REPORT FOR CITRUS COUNTY CENTRAL LANDFILL 60 AND 80 ACRE SITES - PERMIT NO. S009-274381**

Dear Ms. Amram:

Enclosed please find the leachate monitoring results for the Citrus County Central Landfill site, together with the Operator's monthly reports, covering the period 10-97 through 12-97.

There are no exceedences of permit limits for treated leachate during this period.

In response to your review comments of 1/7/98 as to effluent discharge/flow per day, we are reporting meter readings of discharge. This does not necessarily correspond to the previous 24-hour treatment amount and is part of the reason that the reported amounts are occasionally higher than 30,000 gallons. The amount in a treatment batch is controlled. After treatment (nitrification then denitrification) each batch goes to tank #4 (24,000 gallons capacity for flow equalization). At this point, the controlled batch size is no longer in effect. Effluent is then sent through the flow meter to the chlorine contact chamber and finally to the percolation ponds. At one extreme, 39,000 gallons could be sent to the percolation ponds in one day after treating only 15,000. At the other end of the spectrum, two 12,000-gallon batches could be treated with zero discharge through the flow meter to the percolation ponds.

A second reason for showing greater than 30,000 gallons is that on some days the plant is operating automatically and no operator is on duty to take readings. Mondays or the day after a holiday are the most common days for such a situation.

The third reason for the apparent discrepancy is that, infrequently, meter readings are not taken 24-hours apart. The normal routine is to take those meter readings at the beginning of the shift, however if unusual circumstances confront the operator, the readings may be taken later in the day.

At no time was the plant operated to treat more than 30,000 gallons in a single 24-hour day. The maximum has been two 15,000- gallon batches in a day. The monthly operating reports for this quarter indicates the same type of readings for plant flow.

If this is not an acceptable procedure, please let me know.


3600 W. Sovereign Path
Lecanto, Florida 34461

Administration Office
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352-527-5477 Phone
352-527-5479 Fax

Engineering Division:
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352-527-5476 Fax

- Land Section
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  352-527-5459 Fax
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1300 S. Lecanto Highway
Lecanto, Florida 34461

Maintenance Operations:
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352-746-4107 Phone
352-746-1203 Fax

Utilities Division
PO Box 440
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We are compiling information on leachate flows, influent and effluent quality, treatment times, costs of onsite vs. offsite treatment and other information. We may, at some time in the future, request a modification of the permit conditions related to allowable leachate treatment volumes, however at the present time we intend to comply with the existing permit.

Your other review comments dated 1/7/98 concerning the third quarter 1997 leachate quality submittal are addressed in a separate letter.

Should further information or clarification be necessary, please do not hesitate to contact me.

Sincerely,

Susan J. Metcalfe

Susan J. Metcalfe, P.G.
Director, Division of Solid Waste Management

SJM:CJW:cjw

CC: Chongman Lee, GW Analysis - Solid Waste - Tallahassee
Kenneth Saunders, Director, Dept. Public Works w/xls.sheet
Kim Ford, P.E., Department of Environmental Protection w/xls.sheet
Citrus County Utilities Division/Plant Operator w/xls.sheets

(swmF:shared;swm_adm:amramlea.doc)

CITRUS COUNTY CENTRAL LANDFILL
OCTOBER, NOVEMBER, DECEMBER, 1997

| MCL | | 200 CUF/100ML | | 20 | 6.0 - | | . | | | | 12 | | | TOTAL | | 20 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FECAL | | | 8.5 | | AMMONIA | | | | | | TOTAL | PHOS- | | | | |
| DATE | < | COLIFORM | < | CBOD | PH | < | NITROGEN | < | COD | < | NITRATE-N | < | NITROGEN | < | PHOROUS | < | TSS | < | TKN |
| 10/2/97 | < | 1.0 | | 4.0 | 8.2 | | 0.066 | | 42 | | 0.20 | | 1.3 | | 6.8 | < | 5.0 | | 1.1 |
| 10/9/97 | < | 1.0 | | 9.1 | 8.3 | < | 0.050 | | 45 | < | 0.60 | | 1.4 | | 5.2 | | 5.5 | | 1.4 |
| *10/15/1997 | | 4.0 | | 5.2 | 8.4 | | 0.067 | | 120 | | 0.35 | | 2.75 | | 5.6 | | 2.0 | | 2.4 |
| 10/22/97 | | ND | | 11.0 | 8.2 | | ND | | 81 | | 0.14 | | 2.6 | | 5.7 | | ND | | 2.5 |
| 10/29/97 | | 12 | | 4.1 | 7.85 | < | 0.05 | | 39 | | 0.12 | | 1.5 | | 5.5 | < | 2.0 | | 1.4 |
| *Quarterly Analytical Results Attached | | | | | | | | | | | | | | | | | | | |
| 11/5/97 | < | 1.0 | | 4.2 | 8.1 | < | 0.05 | | 36 | | 0.062 | < | 1.0 | | 6.3 | < | 2.5 | < | 1.0 |
| 11/12/97 | | 14 | < | 2.0 | 8.0 | < | 0.05 | | 80 | < | 0.06 | | 1.6 | | 2.3 | | 4.2 | | 1.4 |
| 11/19/97 | < | 1.0 | | 2.2 | 7.9 | < | 0.05 | | 34 | | 0.068 | | 0.76 | | 5.7 | | 3.2 | | 0.69 |
| 11/25/97 | < | 1.0 | | 3.4 | 8.2 | < | 0.05 | | 46 | | 0.032 | | 0.87 | | 2.1 | < | 1.0 | | 0.84 |
| 12/3/97 | | ND | | 4.2 | 7.5 | | ND | | 52 | | 0.10 | | 1.2 | | 3.5 | | 1.0 | | 1.1 |
| 12/10/97 | < | 1.0 | | 7.7 | 7.1 | | 0.11 | | 32 | | 2.50 | | 3.5 | | 2.5 | | 2.6 | | 0.92 |
| 12/17/97 | < | 1.0 | | 6.4 | 7.4 | < | 0.05 | | 52 | < | 0.06 | | 1.11 | | 3.1 | < | 2.0 | | 1.11 |
| 12/23/97 | < | 1.0 | | 3.4 | 7.4 | < | 0.05 | | 38 | < | 0.06 | | 1.19 | | 1.2 | < | 2.0 | | 1.19 |
| 12/30/97 | < | 1.0 | | 4.4 | 7.6 | < | 0.05 | | 36 | < | 0.06 | | 4.2 | | 0.02 | < | 2.0 | | 1.4 |
| | * | Analytical results reported in MG/L except for Fecal Coliform | | | | | | | | | | | | | | | | | |
| /cjw | | | | | | | | | | | | | | | | | | | |

HARBOR BRANCH ENVIRONMENTAL LABORATORY

## PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086
Test Site ID# :

Well Name: Leachate Effluent
Classification of Ground Water:
Ground Water Elevation (NGVD) :
or (MSL):

HBEL Sample ID: 75451001
Sampling Date/Time: 10/15/97 11:45
Report Period: Quarterly October 1997
Well Purged (Y/N) :

Well Type:
- [x] Background
- [x] Intermediate
- [x] Compliance
- [x] Other

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limits/Units | |
|---|---|---|---|---|---|---|---|---|---|
| 004000 | pH | G | N | EPA 150.1 | 10/17/97 15:36 | 8.4 | SU | 0.20 | SU |
| 070304 | Total Dissolved Solids | G | N | EPA 160.1 | 10/16/97 20:10 | 1000 | mg/L | 20 | mg/L |
| 900201 | Total Suspended Solids | G | N | EPA 160.2 | 10/17/97 9:20 | 2.0 | mg/L | 1.0 | mg/L |
| 000940 | Chloride | G | N | EPA 300.0 | 10/17/97 11:30 | 400 | mg/L | 15 | mg/L |
| 000620 | Nitrate | G | N | EPA 300.0 | 10/17/97 10:55 | 0.35 | mg/L | 0.060 | mg/L |
| 000620 | Nitrite | G | N | EPA 300.0 | 10/17/97 10:55 | ND | mg/L | 0.044 | mg/L |
| 000610 | Ammonia | G | N | EPA 350.1 | 10/21/97 11:11 | 0.067 | mg/L | 0.050 | mg/L |
| 000625 | Total Kjeldahl Nitrogen | G | N | EPA 351.2 | 10/20/97 15:37 | 2.4 | mg/L | 0.20 | mg/L |
| 000600 | Total Nitrogen | G | N | EPA 351.2 | 10/22/97 11:27 | 2.7 | mg/L | 0.20 | mg/L |
| 000665 | Total Phosphorus | G | N | EPA 365.4 | 10/20/97 15:37 | 5.6 | mg/L | 0.50 | mg/L |
| 000340 | COD | G | N | EPA 410.4 | 10/21/97 11:00 | 120 | mg/L | 5.0 | mg/L |
| 032101 | Bromodichloromethane | G | N | EPA 601 | 10/21/97 14:42 | 8.3 | ug/L | 1.0 | ug/L |
| 032104 | Bromoform | G | N | EPA 601 | 10/21/97 14:42 | 20 | ug/L | 1.0 | ug/L |
| 032106 | Chloroform | G | N | EPA 601 | 10/21/97 14:42 | 2.4 | ug/L | 1.0 | ug/L |
| 081521 | Dibromochloromethane | G | N | EPA 601 | 10/21/97 14:42 | 20 | ug/L | 1.0 | ug/L |
| 082080 | Total THMs | G | N | EPA 601 | 10/21/97 14:42 | 51 | ug/L | 1.0 | ug/L |
| 034030 | Benzene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 034371 | Ethylbenzene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 034010 | Toluene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 081551 | Total Xylenes | G | N | EPA 602 | 10/21/97 14:42 | 1.8 | ug/L | 1.0 | ug/L |
| 031616 | Fecal Coliform | G | N | SM9222 D | 10/15/97 16:26 | 4.0 | CFU/100mL | 1.0 | CFU/100mL |
| 001002 | Arsenic | G | N | SW-846 6010 | 10/22/97 9:45 | 0.0099 | mg/L | 0.0050 | mg/L |
| 001007 | Barium | G | N | SW-846 6010 | 10/22/97 9:45 | 0.012 | mg/L | 0.010 | mg/L |
| 001027 | Cadmium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0010 | mg/L |

*HARBOR BRANCH ENVIRONMENTAL LABORATORY*

**PART III ANALYTICAL RESULTS**

Facility GMS# : 4009C00086
Test Site ID# : _____

Well Name: Leachate Effluent
Classification of Ground Water: _____
Ground Water Elevation (NGVD) : _____
or (MSL): _____

HBEL Sample ID: 75451001
Sampling Date/Time: 10/15/97 11:45
Report Period: Quarterly October 1997
Well Purged (Y/N) : _____

Well Type:
- ☒ Background
- ☒ Intermediate
- ☒ Compliance
- ☒ Other

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limits/Units | |
|---|---|---|---|---|---|---|---|---|---|
| 001034 | Chromium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0020 | mg/L |
| 001045 | Iron | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.040 | mg/L |
| 001051 | Lead | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0030 | mg/L |
| 001147 | Selenium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0050 | mg/L |
| 001077 | Silver | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0010 | mg/L |
| 000929 | Sodium | G | N | SW-846 6010 | 10/22/97 9:45 | 270 | mg/L | 1.0 | mg/L |
| 007900 | Mercury | G | N | SW-846 7470 | 10/22/97 14:15 | ND | mg/L | 0.00050 | mg/L |
| 077651 | 1,2-Dibromoethane | G | N | SW-846 8011 | 10/21/97 11:46 | ND | ug/L | 0.019 | ug/L |

DER Form No. 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month DECEMBER Year 1999

(2) Plant's DER Identification Number 400900086

(3) Plant Name CENTRAL LANDFILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E. LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

[X] Membrane Filter [ ] Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

[ ] Yes [ ] No [X] Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Baumann C8197
Signature Cert. No.

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .027 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .024 |
| (19) Percent of permitted capacity | % | — | 81% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 5.2 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 1.9 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 6.8 |
| (25) Maximum pH | | — | 8.1 |
| (26) Total N | mg/L | 000600 | 2.2 |
| (27) TKN | mg/L | 000625 | 1.1 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | 0.06 |
| (29) Nitrate | mg/L | 071850 | 0.6 |
| (30) Total Phosphorus | mg/L | 000665 | 2.1 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 2.2 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 42 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DER Form 17-601.900(3)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(39)

Month December Year 1997

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Declorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | TOTAL N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33285 | .9 | | | | | | 8.0 | | | | | | | |
| 2 | 7128 | 1.3 | | | | | | 6.8 | | | | | | | |
| 3 | 15495 | 1.5 | | | | 4.2 | 1.0 | 7.5 | 1.1 | N/D | 0.10 | 3.5 | N/D | 52 | 1.2 |
| 4 | 16939 | 1.0 | | | | | | 7.9 | | | | | | | |
| 5 | 26911 | 1.7 | | | | | | 8.0 | | | | | | | |
| 6 | 28217 | .5 | | | | | | 7.9 | | | | | | | |
| 7 | N/R | | | | | | | | | | | | | | |
| 8 | 30927 | 1.7 | | | | | | 7.8 | | | | | | | |
| 9 | 5319 | .5 | | | | | | 7.0 | | | | | | | |
| 10 | 12855 | 1.2 | | | | 7.7 | 2.6 | 7.1 | 0.92 | 0.11 | 2.5 | 2.5 | <1.0 | 32 | 3.5 |
| 11 | 29884 | 1.5 | | | | | | 8.0 | | | | | | | |
| 12 | 36482 | .9 | | | | | | 8.1 | | | | | | | |
| 13 | 23311 | .6 | | | | | | 8.1 | | | | | | | |
| 14 | N/R | | | | | | | | | | | | | | |
| 15 | 48744 | .8 | | | | | | 8.0 | | | | | | | |
| 16 | 9011 | 1.1 | | | | | | 7.9 | | | | | | | |
| 17 | 34485 | 2.2 | | | | 6.4 | <2.0 | 7.4 | 1.11 | <0.05 | <0.06 | 7.1 | <1.0 | 52 | 1.11 |
| 18 | 24909 | 2.2 | | | | | | 7.6 | | | | | | | |
| 19 | 33771 | 1.1 | | | | | | 7.9 | | | | | | | |
| 20 | 29825 | 2.2 | | | | | | 7.8 | | | | | | | |
| 21 | N/A | | | | | | | | | | | | | | |
| 22 | 56892 | 1.7 | | | | | | 7.7 | | | | | | | |
| 23 | 27962 | 1.0 | | | | 3.4 | <2.0 | 7.4 | 1.19 | <0.05 | <0.06 | 1.2 | <1.0 | 38 | 1.19 |
| 24 | 33030 | .6 | | | | | | 7.8 | | | | | | | |
| 25 | 36349 | 1.3 | | | | | | 8.0 | | | | | | | |
| 26 | 24388 | 1.4 | | | | | | 7.8 | | | | | | | |
| 27 | 24569 | 1.9 | | | | | | 8.0 | | | | | | | |
| 28 | 31399 | 1.4 | | | | | | 8.0 | | | | | | | |
| 29 | 34009 | 2.2 | | | | | | 7.3 | | | | | | | |
| 30 | 26119 | 2.2 | | | | 4.4 | <2.0 | 7.6 | 1.4 | <0.05 | <0.06 | 0.02 | <1.0 | 36 | 1.4 |
| 31 | 26020 | 2.2 | | | | | | 8.0 | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete, and accurate.

Signed: James A. Brunswick

Date: 1/8/98

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division

Telephone No. (Please Type)

LTP F.6

# BOARD OF COUNTY COMMISSIONERS
# DEPARTMENT OF PUBLIC WORKS


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January 12, 1998

Ms. Allison Amram, P.G.
Environmental Specialist III
Dept. Of Environmental Protection
3804 Coconut Palm Drive
Tampa, Fl 33619-8318

**REPLY TO:**
Solid Waste Management

**RE: QUARTERLY LEACHATE MONITORING REPORT FOR CITRUS COUNTY CENTRAL LANDFILL 60 AND 80 ACRE SITES - PERMIT NO. S009-274381**

Dear Ms. Amram:

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There are no exceedences of permit limits for treated leachate during this period.

In response to your review comments of 1/7/98 as to effluent discharge/flow per day, we are reporting meter readings of discharge. This does not necessarily correspond to the previous 24-hour treatment amount and is part of the reason that the reported amounts are occasionally higher than 30,000 gallons. The amount in a treatment batch is controlled. After treatment (nitrification then denitrification) each batch goes to tank #4 (24,000 gallons capacity for flow equalization). At this point, the controlled batch size is no longer in effect. Effluent is then sent through the flow meter to the chlorine contact chamber and finally to the percolation ponds. At one extreme, 39,000 gallons could be sent to the percolation ponds in one day after treating only 15,000. At the other end of the spectrum, two 12,000-gallon batches could be treated with zero discharge through the flow meter to the percolation ponds.

A second reason for showing greater than 30,000 gallons is that on some days the plant is operating automatically and no operator is on duty to take readings. Mondays or the day after a holiday are the most common days for such a situation.

The third reason for the apparent discrepancy is that, infrequently, meter readings are not taken 24-hours apart. The normal routine is to take those meter readings at the beginning of the shift, however if unusual circumstances confront the operator, the readings may be taken later in the day.

At no time was the plant operated to treat more than 30,000 gallons in a single 24-hour day. The maximum has been two 15,000- gallon batches in a day. The monthly operating reports for this quarter indicates the same type of readings for plant flow.

If this is not an acceptable procedure, please let me know.

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Sincerely,

Susan J. Metcalfe, P.G.
Director, Division of Solid Waste Management

SJM:CJW:cjw

CC: Chongman Lee, GW Analysis - Solid Waste - Tallahassee
Kenneth Saunders, Director, Dept. Public Works w/xls.sheet
Kim Ford, P.E., Department of Environmental Protection w/xls.sheet
Citrus County Utilities Division/Plant Operator w/xls.sheets

(swmF:shared;swm_adm:amramlea.doc)

CITRUS COUNTY CENTRAL LANDFILL
OCTOBER, NOVEMBER, DECEMBER, 1997

| MCL | | 200 CUF/100ML | | 20 | 6.0 - | | | | | 12 | | | | TOTAL | | 20 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FECAL | | | 8.5 | | AMMONIA | | | | | TOTAL | | PHOS- | | | | |
| DATE | < | COLIFORM | < | CBOD | PH | < | NITROGEN | < | COD | < | NITRATE-N | < | NITROGEN | < | PHOROUS | < | TSS | < | TKN |
| 10/2/97 | < | 1.0 | | 4.0 | 8.2 | | 0.066 | | 42 | | 0.20 | | 1.3 | | 6.8 | < | 5.0 | | 1.1 |
| 10/9/97 | < | 1.0 | | 9.1 | 8.3 | < | 0.050 | | 45 | < | 0.60 | | 1.4 | | 5.2 | | 5.5 | | 1.4 |
| *10/15/1997 | | 4.0 | | 5.2 | 8.4 | | 0.067 | | 120 | | 0.35 | | 2.75 | | 5.6 | | 2.0 | | 2.4 |
| 10/22/97 | | ND | | 11.0 | 8.2 | | ND | | 81 | | 0.14 | | 2.6 | | 5.7 | | ND | | 2.5 |
| 10/29/97 | | 12 | | 4.1 | 7.85 | < | 0.05 | | 39 | | 0.12 | | 1.5 | | 5.5 | < | 2.0 | | 1.4 |
| *Quarterly Analytical Results Attached | | | | | | | | | | | | | | | | | | | |
| 11/5/97 | < | 1.0 | | 4.2 | 8.1 | < | 0.05 | | 36 | | 0.062 | < | 1.0 | | 6.3 | < | 2.5 | < | 1.0 |
| 11/12/97 | | 14 | < | 2.0 | 8.0 | < | 0.05 | | 80 | < | 0.06 | | 1.6 | | 2.3 | | 4.2 | | 1.4 |
| 11/19/97 | < | 1.0 | | 2.2 | 7.9 | < | 0.05 | | 34 | | 0.068 | | 0.76 | | 5.7 | | 3.2 | | 0.69 |
| 11/25/97 | < | 1.0 | | 3.4 | 8.2 | < | 0.05 | | 46 | | 0.032 | | 0.87 | | 2.1 | < | 1.0 | | 0.84 |
| 12/3/97 | | ND | | 4.2 | 7.5 | | ND | | 52 | | 0.10 | | 1.2 | | 3.5 | | 1.0 | | 1.1 |
| 12/10/97 | < | 1.0 | | 7.7 | 7.1 | | 0.11 | | 32 | | 2.50 | | 3.5 | | 2.5 | | 2.6 | | 0.92 |
| 12/17/97 | < | 1.0 | | 6.4 | 7.4 | < | 0.05 | | 52 | < | 0.06 | | 1.11 | | 3.1 | < | 2.0 | | 1.11 |
| 12/23/97 | < | 1.0 | | 3.4 | 7.4 | < | 0.05 | | 38 | < | 0.06 | | 1.19 | | 1.2 | < | 2.0 | | 1.19 |
| 12/30/97 | < | 1.0 | | 4.4 | 7.6 | < | 0.05 | | 36 | < | 0.06 | | 4.2 | | 0.02 | < | 2.0 | | 1.4 |
| | * | Analytical results reported in MG/L except for Fecal Coliform | | | | | | | | | | | | | | | | | |
| /cjw | | | | | | | | | | | | | | | | | | | |

OER Form No. 17-6015003(1)
Form Title: Commercial Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
OER Accession No. (Filled in by OER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month DECEMBER Year 1999

(2) Plant's OER Identification Number 4009000086

(3) Plant Name CENTRAL LANDFILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E. LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

[X] Membrane Filter [ ] Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

[ ] Yes [ ] No [X] Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Brunaugh C8197
Signature Cert. No.

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .027 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .024 |
| (19) Percent of permitted capacity | % | — | 81% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 5.2 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 1.9 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 6.8 |
| (25) Maximum pH | | — | 8.1 |
| (26) Total N | mg/L | 000600 | 2.2 |
| (27) TKN | mg/L | 000625 | 1.1 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | 0.06 |
| (29) Nitrate | mg/L | 071850 | 0.6 |
| (30) Total Phosphorus | mg/L | 000665 | 2.1 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 2.2 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 42 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Florida Department of Environmental Regulation
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Accession No. (Assigned by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) A | B | C | D |
|---|---|---|---|---|---|
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | --- |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | --- |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | --- | --- | --- | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2896
813-332-6975

Southeast District
1900 S. Congress Ave., Suite A
West Palm Beach, Florida 33406
407-433-2650

DER Form 17-601.900(3)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month DECEMBER Year 1997

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | TOX N | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 33285 | .9 | | | | | | 8.0 | | | | | | | | | | | | | |
| 2 | 728 | 1.3 | | | | | | 6.8 | | | | | | | | | | | | | |
| 3 | 15495 | 1.5 | | | | 4.2 | 1.0 | 7.5 | 1.1 | N/D | 0.10 | 3.5 | N/D | 52 | 1.2 | | | | | | |
| 4 | 16939 | 1.0 | | | | | | 7.9 | | | | | | | | | | | | | |
| 5 | 26911 | 1.7 | | | | | | 8.0 | | | | | | | | | | | | | |
| 6 | 28217 | 1.5 | | | | | | 7.9 | | | | | | | | | | | | | |
| 7 | N/R | | | | | | | | | | | | | | | | | | | | |
| 8 | 30927 | 1.7 | | | | | | 7.8 | | | | | | | | | | | | | |
| 9 | 5319 | .5 | | | | | | 7.0 | | | | | | | | | | | | | |
| 10 | 12855 | 1.2 | | | | 7.7 | 2.6 | 7.1 | 0.92 | 0.11 | 2.5 | 2.5 | <1.0 | 32 | 3.5 | | | | | | |
| 11 | 29884 | 1.5 | | | | | | 8.0 | | | | | | | | | | | | | |
| 12 | 36482 | .9 | | | | | | 8.1 | | | | | | | | | | | | | |
| 13 | 23311 | .6 | | | | | | 8.1 | | | | | | | | | | | | | |
| 14 | N/R | | | | | | | | | | | | | | | | | | | | |
| 15 | 48744 | .8 | | | | | | 8.0 | | | | | | | | | | | | | |
| 16 | 9011 | 1.1 | | | | | | 7.9 | | | | | | | | | | | | | |
| 17 | 34485 | 2.2 | | | | 6.4 | <2.0 | 7.4 | 1.11 | <0.05 | <0.06 | 7.1 | <1.0 | 52 | 1.11 | | | | | | |
| 18 | 24909 | 2.2 | | | | | | 7.6 | | | | | | | | | | | | | |
| 19 | 33771 | 1.1 | | | | | | 7.9 | | | | | | | | | | | | | |
| 20 | 29825 | 2.2 | | | | | | 7.8 | | | | | | | | | | | | | |
| 21 | N/A | | | | | | | | | | | | | | | | | | | | |
| 22 | 56892 | 1.7 | | | | | | 7.7 | | | | | | | | | | | | | |
| 23 | 27962 | 1.10 | | | | 3.4 | <2.0 | 7.4 | 1.19 | <0.05 | <0.06 | 1.2 | <1.0 | 38 | 1.19 | | | | | | |
| 24 | 33030 | .6 | | | | | | 7.8 | | | | | | | | | | | | | |
| 25 | 36249 | 1.3 | | | | | | 8.0 | | | | | | | | | | | | | |
| 26 | 24388 | 1.4 | | | | | | 7.8 | | | | | | | | | | | | | |
| 27 | 24569 | 1.9 | | | | | | 8.0 | | | | | | | | | | | | | |
| 28 | 31399 | 1.4 | | | | | | 8.0 | | | | | | | | | | | | | |
| 29 | 24009 | 2.2 | | | | | | 7.3 | | | | | | | | | | | | | |
| 30 | 26119 | 2.24 | | | | 4.4 | <2.0 | 7.16 | 1.4 | <0.05 | <0.06 | 0.02 | <1.0 | 36 | 4.24 | | | | | | |
| 31 | 26020 | 2.24 | | | | | | 8.0 | | | | | | | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete, and accurate.

Signed: James A. Brunswick

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division

Date: 1/8/98

Telephone No. (Please Type) _____

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

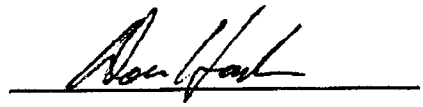
(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**



**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**January 7, 1998**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/30/97 77099001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 12/31/97 | 7.6 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 12/31/97 | <2.0 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 12/31/97 | <0.060 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 12/31/97 | 2.8 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 01/05/98 | <0.05 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 01/05/98 | 1.4 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 01/07/98 | 4.2 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 01/05/98 | 0.02 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 01/05/98 | 36 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 12/31/97 | 4.4 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 12/30/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

# CHAIN OF CUSTODY RECORD

## The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto, Fla. 34460
PHONE: 904-746-5000
FAX: 904-527-1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 7099

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 12/30/97
TIME: 9:45 Am
METHOD OF SHIPMENT:
COOLER NO.(s)

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

G = Grab
C = Composite
O = Other

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: PH, TSS, CBOD, Nitrate, COD, TP, NH3, TKN, TN | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | U | $H_2SO_4$ | | | | | | |
| | 12/30 | 9:45 | G | WW | 3 | Leachate | 2 | 1 | | | | | | PH - 7.36<br>Temp - 18° C |
| | | | | | | | | | | | | | | |
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| RELINQUISHED BY** | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
|---|---|---|---|
| Jim Resinger | | | |
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED FOR LAB BY: / LAB NAME: B. Nath | DATE: 123197 / TIME: 1015 |

PINK - To Courier; GOLDENROD - Client at Pick-up



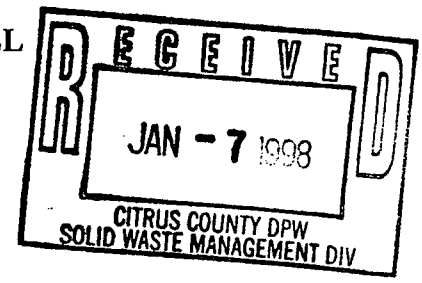
01/07/98 WED 13:22 FAX 1 561 467 1584 HBEL →→→ CITRUS COUNTY 004
01/07/98 14:26 TX/RX NO.6221 P.004

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086




**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**DECEMBER 31, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/23/97 77012001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 12/247 | 7.4 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 12/26/97 | <2.0 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 12/25/97 | <0.060 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 12/25/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 12/24/97 | <0.05 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 12/31/97 | 1.19 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 12/31/97 | 1.19 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 12/30/97 | 1.2 | mg/L | 0.25 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 12/24/97 | 38 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 12/24/97 | 3.4 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 12/23/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto, Fla. 34461
PHONE: 904-746-5000
FAX: 904-527-1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 7012

**SPECIAL INSTRUCTIONS:**
☐ **RUSH in ___ BUSINESS DAYS**
***SAMPLE SAFETY INFORMATION*** **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 12-23-97
TIME: 10:00 Am
METHOD OF SHIPMENT:
COOLER NO.(s)

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

G = Grab
C = Composite
O = Other

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: pH, cBOD, TSS, Nitrate, COD, TP, $NH_3$, TKN, TN | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | U | $H_2SO_4$ | | | | | | |
| | 12-23 | 10:00 Am | G | WW | 3 | Leachate | 2 | 1 | | | | | | |
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| RELINQUISHED BY**: | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
|---|---|---|---|
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED FOR LAB BY: LAB NAME: Ben North | DATE: 122497 / TIME: 1025 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE _____ OF _____

**HARBOR BRANCH**
***ENVIRONMENTAL LABORATORY***

*5600 U.S. 1 NORTH*
*FORT PIERCE, FLORIDA 34946*

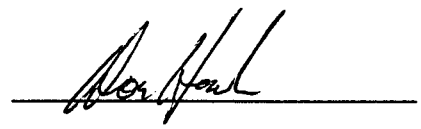
*(561) 465-2400, Ext. 285 or 448*
*FAX (561) 467-1584*

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

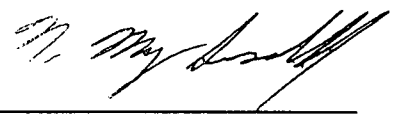
**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**



**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**



**DECEMBER 24, 1997**

RECEIVED
DEC 30 1997

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/17/97 76841001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 12/19/97 | 7.4 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 12/19/97 | <2.0 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 12/18/97 | <0.060 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 12/18/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 12/22/97 | <0.05 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 12/22/97 | 1.11 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 12/22/97 | 1.11 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 12/22/97 | 3.1 | mg/L | 0.25 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 12/19/97 | 52 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 12/19/97 | 6.4 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 12/17/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

Harbor Branch
Environmental Laboratory

Form 300
Revision 005
03/07/97

# Field Data Sheet

Sampler (s) Dienst. Date 12/17/97 Sample Time _____ Field ID# 1
Project Name Citrus Co. Landfill

Sample Type (circle one): (WW) SW GW DW ReagWtr. Sludge Sediment Soil Other
Sample Site Identification Leachate Eff.

Sampling Method: (Grab) Composite Monitoring Well: Bailer Pump
Sampling Equipment: _____
Site and Weather Conditions Sunny, 70's, calm, damp.

## *Field Instrument Beginning Calibration*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| pH meter | (Yes) | No | Buffer | 4.0 | _____ | (7.0) | 7.22 | (10.0) | 10.13 Slope = |
| Conductivity meter | (Yes) | No | Buffer | 147 | _____ | (1414) | 1384-1413 | 12900 | _____ |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ 98.3 |

Field Filtered: Yes (No) Duplicate: Yes (No) Field Decontamination: (Yes) No

| Parameter | Sample Containers | pH Check |
|---|---|---|
| Nutrient | Plastic - $H_2SO_4$ | <2 |
| Metals | Plastic - $HNO_3$ | <2 |
| Sulfide | Plastic - NaOH / Zn Acetate | >12 |
| Cyanide | Plastic - NaOH / (NO Sulfide) / Ascorbic Acid | >12 |
| Bacteriological | Glass - Thiosulfate ( DW NO Chlorine Res.) | |
| Oil and Grease | Glass - HCl | <2 |
| TRPH | Glass - HCl | <2 |
| VOA | Glass - HCl | <2 |
| SVOC | Glass - (DRW NO Chlorine Res.) | |
| ~~Other~~ Phenols | Glass - $H_3PO_4$ | < 2 |
| Other | | |

| Well Diameter | Multiplier |
|---|---|
| 1.5 inches | 0.092 |
| 2.0 inches | 0.163 |
| 4.0 inches | 0.653 |
| 6.0 inches | 1.469 |

## *Field Instrument Ending Calibration*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| pH meter | (Yes) | No | Buffer | 4.0 | _____ | (7.0) | 7.02 | (10.0) | 10.11 Slope = |
| Conductivity meter | (Yes) | No | Buffer | 147 | _____ | (1414) | 1356-1413 | 12900 | _____ |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ 98.5 |

## General Site Information/Comments

_____

Harbor Branch
Environmental Laboratory

# ANALYTICAL FIELD DATA

Analytical Field Data Sheet
030497

Project Name Citrus Co. Landfill
Date 12/17/97



| LOCATION | Time | pH | Specific Conductivity | Temperature | D.O. | Turbidity | Residual Chlorine | Comments |
|---|---|---|---|---|---|---|---|---|
| Leach. Eff. | 13:44 | 6.68 | 1500 | 15.6° | | | | |
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CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus Co. Landfill
ADDRESS:
PHONE:
FAX :
CLIENT CONTACT: S. Metcalfe
PURCHASE ORDER #:

DATE NEEDED: Normal TAT
CLIENT PROJECT:
PROJECT NAME / #: Leachate Weekly
HBOI W/O & HPN: 6841

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes (No) If Yes,

SAMPLED BY: Dienst.
DATE: 12/17/97
TIME:
METHOD OF SHIPMENT: Courier
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW= Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: COD, TKN, TOT-N (S) | TOT-P, NH3 (ST) | Fecal Coli, Ph, CBOD, TSS, NO3, NO2 (U) | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | S | ST | U | |
| | 12/17/97 | 13:44 | G. | WW. | 4 | Leachate Eff. | 2 | 1 | 1 | Ph: 6.68 SC: 1500 T: 16° |
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| | | | | | 4 | Total | | | | |

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|---|---|---|---|
| RELINQUISHED BY**: D. Dienstberger | DATE: 12/17/97 | RECEIVED BY: | DATE: |
| | TIME: 17:50 | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 12/19/97 |
| | TIME: | LAB NAME: [illegible] | TIME: 1750 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**DECEMBER 18, 1997**

RECEIVED
DEC 22 1997
CITRUS COUNTY DPW
SOLID WASTE MANAGEMENT DIV

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/10/97 76668001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 12/15/97 | 7.1 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 12/12/97 | 2.6 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 12/11/97 | 2.5 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 12/11/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 12/15/97 | 0.11 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 12/14/97 | 0.92 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 12/18/97 | 3.5 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 12/14/97 | 2.5 | mg/L | 0.25 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 12/12/97 | 32 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 12/11/97 | 7.7 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 12/10/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

(1805)

# CHAIN OF CUSTODY RECORD

## The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto Fl. 34460
PHONE: 352-746-5000
FAX: 352-527-1207
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 76668

**SPECIAL INSTRUCTIONS:**
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 12/10/97
TIME: 10:00AM
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW= Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: pH, cBOD, TSS, Nitrate-Nitrite, COD, TP, NH3, TKN, TN | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | V | $H_2SO_4$ | | | | | | |
| | | | G | WW | 3 | Leachate | | | | | | | | |
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| RELINQUISHED BY**: T. Resinger | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 12·11·97 |
| | TIME: | LAB NAME: | TIME: 10:48 |

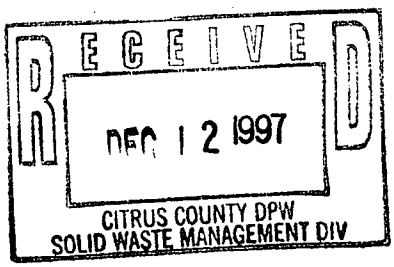
***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584




# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**DECEMBER 11, 1997**

## Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

*HARBOR BRANCH ENVIRONMENTAL LABORATORY*

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.600 (11)

**GMS #** 4009C00086

**Sample Date/Lab ID:** 12/03/97 10:10 (76506001)

**Test Site #:**_____

**Site Type:** [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

**Test Site Name:** Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Detection Limit | Sample Filtered/ Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | EPA 150.1 | 12/05/97 | 7.5 | S.U. | 0.20 | U | None |
| 900201 | Total Suspended Solids | EPA 160.2 | 12/05/97 | 1.0 | mg/L | 1.0 | U | None |
| 000620 | Nitrite | EPA 300.0 | 12/05/97 | ND | mg/L | 0.044 | U | None |
| 000620 | Nitrate | EPA 300.0 | 12/05/97 | 0.10 | mg/L | 0.060 | U | None |
| 000610 | Ammonia | EPA 350.1 | 12/05/97 | ND | mg/L | 0.050 | U | None |
| 000600 | Total Nitrogen | EPA 351.2 | 12/10/97 | 1.2 | mg/L | 0.20 | U | None |
| 000625 | Total Kjeldahl Nitrogen | EPA 351.2 | 12/08/97 | 1.1 | mg/L | 0.40 | U | None |
| 000665 | Total Phosphorus | EPA 365.4 | 12/08/97 | 3.5 | mg/L | 0.20 | U | None |
| 000340 | COD | EPA 410.4 | 12/08/97 | 52 | mg/L | 5.0 | U | None |
| 80082 | CBOD5 | SM5210 B | 12/04/97 | 4.2 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 12/03/97 | ND | CFU/100mL | 1.0 | U | None |

*Well development is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.
DEP Form 17-1.216(2)
Effective January 1, 1983

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto Fla. 34460
PHONE: 904-746-5000
FAX: 904-527-1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 6506

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 12-3-93
TIME: 10:10
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | PH, COD, TSS, Nitrate-Nitrite, COD, TP, NH3, TKN, TN | COMMENTS |
|---|---|---|---|---|---|---|---|---|
| | 12/3 | 10:10am | G | WW | 3 | Leachate | | PH 7.1 Temp 20 °C |
| | | | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY**: Terry Resinger | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 120497 |
| | TIME: | LAB NAME: B Nath | TIME: 0950 |

*DISTRIBUTION*: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE _____ OF _____

OER Form No. 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
OER Accession No. (Filled in by OER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month NOVEMBER Year 1997

(2) Plant's OER Identification Number 4009000086

(3) Plant Name CENTRAL LAND FILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E. LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

☒ Membrane Filter ☐ Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

☐ Yes ☐ No ☒ Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Blumsweed Signature C8197 Cert. No.

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .024 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .021 |
| (19) Percent of permitted capacity | % | — | 72% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 49 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 2.7 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 7.4 |
| (25) Maximum pH | | — | 8.2 |
| (26) Total N | mg/L | 000600 | 1.0 |
| (27) TKN | mg/L | 000625 | .98 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | <.05 |
| (29) Nitrate | mg/L | 071850 | .05 |
| (30) Total Phosphorus | mg/L | 000665 | 4.1 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 2.2 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 49 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DER Form # 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) A | B | C | D |
|---|---|---|---|---|---|
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | ... |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | ... |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | ... | ... | ... | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite 8200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2896
813-332-6975

Southeast District
3900 S. Congress Ave., Suite A
Post Palm Beach, Florida 33406
407-433-2650

DER Form 17-601.900(3)
Form Title Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date July 1, 1991
DER Application No. (Also on ay 0356)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month November Year 1997

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | TOTAL N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 28382 | 2.2 | | | | | | 7.5 | | | | | | | |
| 2 | N/R | | | | | | | 7.5 | | | | | | | |
| 3 | 44913 | 1.8 | | | | | | 7.4 | | | | | | | |
| 4 | 24037 | 2.2 | | | | | | 7.5 | | | | | | | |
| 5 | 26174 | 2.2 | | | | 4.2 | <2.5 | 8.1 | <1.0 | <.05 | .062 | 6.3 | <1.0 | 36 | <1.0 |
| 6 | 22256 | 2.2 | | | | | | 7.4 | | | | | | | |
| 7 | 19552 | 2.2 | | | | | | 7.8 | | | | | | | |
| 8 | 26425 | .5 | | | | | | 7.8 | | | | | | | |
| 9 | N/R | | | | | | | 7.8 | | | | | | | |
| 10 | 56204 | .5 | | | | | | 7.8 | | | | | | | |
| 11 | 21025 | .5 | | | | | | 7.9 | | | | | | | |
| 12 | 22333 | .9 | | | | <2.0 | 4.2 | 8.0 | 1.4 | <.05 | <.06 | 2.3 | 14 | 80 | 1.6 |
| 13 | 12921 | .6 | | | | | | 7.9 | | | | | | | |
| 14 | 18157 | .8 | | | | | | 7.8 | | | | | | | |
| 15 | 22707 | 1.1 | | | | | | 8.1 | | | | | | | |
| 16 | N/R | | | | | | | | | | | | | | |
| 17 | 61990 | .6 | | | | | | 7.9 | | | | | | | |
| 18 | 28420 | .9 | | | | | | 7.5 | | | | | | | |
| 19 | 17685 | 1.6 | | | | <2.2 | 3.2 | 7.9 | .69 | <.05 | .068 | 5.7 | <1.0 | 34 | .76 |
| 20 | 21288 | .7 | | | | | | 7.5 | | | | | | | |
| 21 | 24813 | .8 | | | | | | 7.5 | | | | | | | |
| 22 | 26603 | .7 | | | | | | 7.7 | | | | | | | |
| 23 | N/R | | | | | | | 7.7 | | | | | | | |
| 24 | 53969 | .6 | | | | | | 7.7 | | | | | | | |
| 25 | 24971 | 1.2 | | | | 3.4 | <1.0 | 8.2 | .84 | <.05 | .032 | 2.1 | <1.0 | 46 | .87 |
| 26 | 14400 | .6 | | | | | | 7.7 | | | | | | | |
| 27 | 21032 | .6 | | | | | | 7.7 | | | | | | | |
| 28 | 26120 | .7 | | | | | | 7.7 | | | | | | | |
| 29 | 27201 | .5 | | | | | | 8.1 | | | | | | | |
| 30 | N/R | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete and accurate.

Signed: James A. Brunswick CB197 Date: 12/10/97

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division Telephone No. (Please Type)

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**DECEMBER 3, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 11/25/97 76381001

Test Site #:_____

Site Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Test Site Name: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 11/26/97 | 8.2 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 11/28/97 | < 1.0 | mg/L | 1.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 11/26/97 | 0.032 | mg/L | 0.030 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 11/26/97 | < 0.022 | mg/L | 0.022 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 12/02/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 12/01/97 | 0.84 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 12/02/97 | 0.87 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 12/01/97 | 2.1 | mg/L | 0.10 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 12/01/97 | 46 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 11/27/97 | 3.4 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 11/25/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County handfill
ADDRESS: P.O. Box 340
Lecanto Fla. 34460
PHONE: 904-746-5000
FAX: 904-527-1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County handfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 163381

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE:
TIME:
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: U | H2SO4 | pH, CBOD, TSS, Nitrate, Nitrite | COD, TP, NH3, TKN, TN | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11/25 | 10:00 | G | WW | 3 | Leachate | 2 | 1 | | | | | | | pH- 7.7 12.6 C |
| | | | | | | | | | | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY**: Terry Resinger | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 11 26 97 |
| | TIME: | LAB NAME: L. Burgess | TIME: 0930 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

RECEIVED
DEC - 1 1997
CITRUS COUNTY DPW
SOLID WASTE MANAGEMENT DIV

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**November 26, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 11/19/97 76244001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 11/22/97 | 7.9 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 11/21/97 | 3.2 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 11/20/97 | 0.068 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 11/20/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 11/20/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 11/21/97 | 0.69 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 11/25/97 | 0.76 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 11/21/97 | 5.7 | mg/L | 0.50 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 11/21/97 | 34 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 11/20/97 | 2.2 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 11/19/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto FL. 34460
PHONE: 904-746-5000
FAX: 904-527-1264
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: weekly leachate
HBOI W/O & HPN: 6244

SPECIAL INSTRUCTIONS:
☐ RUSH in ___BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 11-19-97
TIME: 10:00 Am
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

**MATRIX KEY**
S = Solid
SL = Sludge
DW = Drinking
GW= Ground
SW = Surface
WW = Waste

**PRESERVATION KEY**
H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

**ANALYSES REQUESTED**

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ph | $H_2SO_4$ | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 11/19 | 10:00 Am | G | WW | 3 | Leachate | 2 | 1 | | | | | | PH 7.5 Temp 15° C |
| | | | | | | | | | | | | | | |
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ph, cBOD, TSS, Nitrate, Nitrite, cBOD, NH3, TP, TKN, TN

| | | | |
|---|---|---|---|
| RELINQUISHED BY*** Terry Resinger | DATE: TIME: | RECEIVED BY: | DATE: TIME: |
| RELINQUISHED BY: | DATE: TIME: | RECEIVED BY: | DATE: TIME: |
| RELINQUISHED BY: | DATE: TIME: | RECEIVED FOR LAB BY: LAB NAME: Ben Nath | DATE: 112097 TIME: 0930 |

*DISTRIBUTION: WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

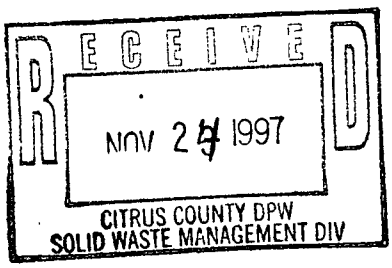
FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086




**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**November 19, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 11/12/97 76087001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.11 | 11/18/97 | 8.0 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 11/14/97 | 4.2 | mg/L | 1.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 11/13/97 | <0.060 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 11/13/97 | 0.17 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 11/14/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 11/14/97 | 1.4 | mg/L | 1.0 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 11/19/97 | 1.6 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 11/14/97 | 2.3 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 11/13/97 | 80 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 11/13/97 | <2.0 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 11/12/97 | 14 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto Fla. 34460
PHONE: 904-746-5000
FAX: 904 527 1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus Country Landfill
PROJECT NAME / #: weekly leachate
HBOI W/O & HPN: 16087

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: Terry Resinger
DATE: 11-12-97
TIME:
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

**MATRIX KEY**
S = Solid
SL = Sludge
DW = Drinking
GW = Ground
SW = Surface
WW = Waste

**PRESERVATION KEY**
H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

**ANALYSES REQUESTED**

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | PH CBOD TSS Nitrate Nitrite | C&R NH3 TP TKN TN | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | U | $H_2SO_4$ | | | | | | PH 7.9 Temp 20°C |
| | 11-12-97 | 10:03 AM | G | WW | 3 | Leachate | 2 | 1 | | | | | | |
| | | | | | | | | | | | | | | |
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| | | | |
|---|---|---|---|
| RELINQUISHED BY**: Terry Resinger | DATE: 11/ /97 | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 11.13.97 |
| | TIME: | LAB NAME: B Nath | TIME: 0935 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

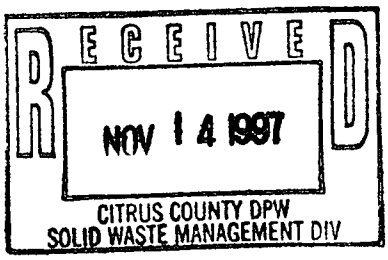
FORM 1936 - PRINTING BY HEARN

PAGE _____ OF _____

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584




# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**
**SAC HRS#84470/E84492 FOR FECAL COLIFORMS**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**November 12, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 11/05/97 75950001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.11 | 11/11/97 | 8.1 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 11/07/97 | < 2.5 | mg/L | 2.5 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 11/07/97 | 0.062 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 11/07/97 | < 0.022 | mg/L | 0.022 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 11/07/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 11/07/97 | <1.0 | mg/L | 1.0 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 11/07/97 | <1.0 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 11/07/97 | 6.3 | mg/L | 0.50 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 11/07/97 | 36 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 11/06/97 | 4.2 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 11/05/97 | <1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

# REQUEST FORM A

SHADED AREA FOR LAB USE ONLY


**S. A. C.**
**Environmental Laboratory, Inc.**

5376 S. Suncoast Blvd.
Homosassa, FL 34446
(352) 621-3513 • FAX (352) 621-3514


## CHAIN OF CUSTODY — ENVIRONMENTAL

| CLIENT/COMPANY ORDERING TEST | PROJECT/SITE NAME |
|---|---|
| HBEL 1-800-333-9260 Don Nash | Citrus County Landfill |
| SAMPLER'S: (Signature) | PERMIT # |

| LABORATORY # | COLLECTION DATE | COLLECTION TIME | DESCRIPTION OF COLLECTION SITE | # OF CONTAINERS | MATRIX CODE | SAMPLE METHOD | OTHER | TESTS REQUESTED (√) CBOD | BOD | TSS | NITRATE | MLSS | FECAL | INITIALS & DATE TEST COMPLETED | IN-HOUSE QUALITY CONTROL | REMARKS | FIELD CONTROL | CUSTODY SEAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E [illegible] | 11-5-97 | 1010 am | leachate | 1 | GW | | | | | | | | ✓ | | | | | |
| E | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | |
| E | | | | | | | | | | | | | | | | | | |

FIELD COMMENTS: CARRIER _____ AIRBILL NO. _____ COOLER NO. _____ DATE SHIPPED _____

**LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.**

| RELINQUISHED BY (SIGNATURE) | RECEIVED BY (SIGNATURE) | DATE | TIME |
|---|---|---|---|
| [signature] | [signature] | 11/7 | [illegible] |
| RELINQUISHED BY (SIGNATURE) | RECEIVED BY (SIGNATURE) | DATE | TIME |
| RELINQUISHED BY (SIGNATURE) | RECEIVED BY (SIGNATURE) | DATE | TIME |

**LABORATORY COMMENTS:**

MATRIX CODES
GW — GROUND WATER
SW — SURFACE WATER
SO — SOIL
SL — SLUDGE
WW — WASTE WATER

**LOGGED BY:**
**DATE:** **TIME:**

**ACCT. # / PROJECT #**

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Leanto Fla. 34460
PHONE: 904-746-5000
FAX: 904-527-8204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 5950

**SPECIAL INSTRUCTIONS:**
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No __ If Yes, _____

SAMPLED BY: T. Resinger
DATE: 11-5-97
TIME: 10:10 AM
METHOD OF SHIPMENT:
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: pH <BOD TSS Nitrate Nitrite COD TP NH3 TKN TN | | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | U | $H_2SO_4$ | | | | | | |
| | 11/5 | 1010AM | G | WW | 3 | Leachate | 2 | 1 | | | | | | Temp 20°C pH 7.4 |
| | | | | | | | | | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY**: Terry Resinger | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED BY: | DATE: / TIME: |
| RELINQUISHED BY: | DATE: / TIME: | RECEIVED FOR LAB BY: LAB NAME: L. North | DATE: 11.06.97 / TIME: 1125 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE _____ OF _____

DER Form No. 17-601.900(3)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month OCTOBER Year 1997

(2) Plant's DER Identification Number 4009000086

(3) Plant Name CENTRAL LANDFILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E. LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

[X] Membrane Filter [ ] Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

[ ] Yes [ ] No [X] Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James D. Bunsworth (Signature) C8197 Cert. No.

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .020 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .019 |
| (19) Percent of permitted capacity | % | — | 57% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 6.7 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 2.9 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 7.1 |
| (25) Maximum pH | | — | 8.4 |
| (26) Total N | mg/L | 000600 | 1.9 |
| (27) TKN | mg/L | 000625 | 1.8 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | 0.057 |
| (29) Nitrate | mg/L | 071850 | 0.28 |
| (30) Total Phosphorus | mg/L | 000665 | 5.8 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 2.2 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 65.4 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DER Form # 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Accession No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) A | B | C | D |
|---|---|---|---|---|---|
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | ... |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | ... |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | ... | ... | ... | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd., Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2896
813-332-6975

Southeast District
1900 S. Congress Ave., Suite A
West Palm Beach, Florida 33406
407-433-2650

DER Form 17-601(8/00)
Form Title Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date July 1, 1991
DER Application No. (Also in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month Oct Year 1997

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | TOTAL N | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 22064 | .5 | | | | | | 7.8 | | | | | | | | | | | | | |
| 2 | 28792 | 1.2 | | | | 4.0 | <5.0 | 8.2 | 1.1 | .066 | 0.20 | 6.8 | <1.0 | 42 | 1.3 | | | | | | |
| 3 | 21131 | .9 | | | | | | 8.2 | | | | | | | | | | | | | |
| 4 | 26736 | .7 | | | | | | 7.8 | | | | | | | | | | | | | |
| 5 | N/R | | | | | | | 7.8 | | | | | | | | | | | | | |
| 6 | 53256 | .7 | | | | | | 7.7 | | | | | | | | | | | | | |
| 7 | 20849 | .6 | | | | | | 7.9 | | | | | | | | | | | | | |
| 8 | 24237 | .7 | | | | | | 7.7 | | | | | | | | | | | | | |
| 9 | 27227 | .5 | | | | 9.1 | 5.5 | 8.3 | 1.4 | <0.05 | <0.6 | 5.2 | <1.0 | 45 | 1.4 | | | | | | |
| 10 | 20574 | .7 | | | | | | 7.6 | | | | | | | | | | | | | |
| 11 | 15612 | .7 | | | | | | 7.6 | | | | | | | | | | | | | |
| 12 | N/R | | | | | | | | | | | | | | | | | | | | |
| 13 | 19281 | .5 | | | | | | 7.3 | | | | | | | | | | | | | |
| 14 | N/R | | | | | | | 7.6 | | | | | | | | | | | | | |
| 15 | 19813 | .5 | | | | 5.2 | 2.0 | 8.4 | 2.4 | 0.067 | 0.35 | 5.6 | 4.0 | 120 | 2.75 | | | | | | |
| 16 | 12649 | .7 | | | | | | 8.1 | | | | | | | | | | | | | |
| 17 | 23252 | .7 | | | | | | 7.1 | | | | | | | | | | | | | |
| 18 | 17527 | .5 | | | | | | 7.3 | | | | | | | | | | | | | |
| 19 | N/R | | | | | | | | | | | | | | | | | | | | |
| 20 | 22154 | 1.2 | | | | | | 7.9 | | | | | | | | | | | | | |
| 21 | 7086 | 2.2 | | | | | | 7.8 | | | | | | | | | | | | | |
| 22 | 15207 | 1.2 | | | | 11 | ND | 8.2 | 2.5 | ND | 0.14 | 5.7 | ND | 81 | 2.6 | | | | | | |
| 23 | 13960 | .9 | | | | | | 8.3 | | | | | | | | | | | | | |
| 24 | 15690 | .9 | | | | | | 8.3 | | | | | | | | | | | | | |
| 25 | 10899 | .5 | | | | | | 8.2 | | | | | | | | | | | | | |
| 26 | N/R | | | | | | | | | | | | | | | | | | | | |
| 27 | 23239 | 1.3 | | | | | | 8.1 | | | | | | | | | | | | | |
| 28 | 8053 | 1.9 | | | | | | 8.1 | | | | | | | | | | | | | |
| 29 | 13843 | 2.2 | | | | 4.1 | <2.0 | 7.85 | 1.4 | <0.05 | 0.12 | 5.5 | 12 | 39 | 1.5 | | | | | | |
| 30 | 26030 | .9 | | | | | | 7.5 | | | | | | | | | | | | | |
| 31 | 16418 | 2.2 | | | | | | 7.6 | | | | | | | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete and accurate.

Signed: James A. Brunswick Date: _____

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division Telephone No. (Please Type) _____

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

RECEIVED
NOV 12 1997
CITRUS COUNTY DPW
SOLID WASTE MANAGEMENT DIV

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**November 5, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

*HARBOR BRANCH ENVIRONMENTAL LABORATORY*

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT

Rule 62-522.600 (11)

GMS # 4009C00086

Sample Date/Lab ID: 10/029/97 75780001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 10/31/97 | 7.85 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 10/31/97 | < 2.0 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 10/31/97 | 0.12 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 10/31/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 10/31/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 11/02/97 | 1.4 | mg/L | 1.0 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 11/05/97 | 1.5 | mg/L | N/A | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 11/02/97 | 5.5 | mg/L | 0.50 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 11/04/97 | 39 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 10/30/97 | 4.1 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 10/29/97 | 12 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: P.O. Box 340
Lecanto, Fl. 34460
PHONE: 904-746-5000
FAX: 904-527-1204
CLIENT CONTACT: Jim Brunswick
PURCHASE ORDER #:

DATE NEEDED:
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 5780

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No X If Yes, _____

SAMPLED BY: L. Gallegher
DATE: 10/29/97
TIME:
METHOD OF SHIPMENT: Q
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: PH, CBOD, TSS, Nitrate, Nitrite — U | COD, TP, NH3, TKN, TN — $H_2SO_4$ | | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10/29 | 1010 | G | WW | 3 | Leachate | 2 | 1 | | | | | | Cond PH Temp 1926 6.81 19.6°C |
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|---|---|---|---|
| RELINQUISHED BY**: Elizabeth Gallegher | DATE: 10/30/97<br>TIME: 0930 | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED FOR LAB BY:<br>LAB NAME: Ken North | DATE: 10.30.97<br>TIME: 0930 |

*DISTRIBUTION*: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**OCTOBER 30, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

Due to a dilution of the matrix spike and matrix spike duplicate, precision could not be determined for Total Kjeldahl Nitrogen and Total Phosphorus. Accuracy was demonstrated in the laboratory control sample for both analyses.

Eric Charest
Quality Assurance Manager

# CITRUS COUNTY CENTRAL LANDFILL

PARAMETER MONITORING REPORT
Rule 62-522.600 (11)

GMS # 4009C00086

Sample Date/Lab ID: 10/022/97 75615001

Test Site #:_____

Test Site Name: Leachate

Site Type:
[ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance
[X] Other: Leachate

Sample Method: Grab, where applicable

| Storet Code | Parameter Monitored | Analysis Method | Analysis Date | Analysis Result | Units | Practical Quant. Level | Sample Filtered /Unfiltered | Preservative Added |
|---|---|---|---|---|---|---|---|---|
| 004000 | pH | 150.1 | 10/24/97 | 8.2 | S.U. | 0.20 | -- | -- |
| 900201 | Total Suspended Solids | 160.2 | 10/23/97 | < 2.0 | mg/L | 2.0 | U | None |
| 000620 | Nitrate-Nitrogen | 300.0 | 10/24/97 | 0.14 | mg/L | 0.060 | U | None |
| 000620 | Nitrite-Nitrogen | 300.0 | 10/24/97 | < 0.044 | mg/L | 0.044 | U | None |
| 000610 | Ammonia-Nitrogen | 350.1 | 10/28/97 | < 0.050 | mg/L | 0.050 | U | $H_2SO_4$ |
| 000625 | Total Kjeldahl Nitrogen | 351.2 | 10/28/97 | 2.5 | mg/L | 2.0 | U | $H_2SO_4$ |
| 000600 | Total Nitrogen | 351.2 | 10/30/97 | 2.6 | mg/L | 0.20 | U | $H_2SO_4$ |
| 000665 | Total Phosphorus | 365.4 | 10/26/97 | 5.7 | mg/L | 0.50 | U | $H_2SO_4$ |
| 000340 | COD | 410.4 | 10/28/97 | 81 | mg/L | 5.0 | U | $H_2SO_4$ |
| 80082 | CBOD5 | SM5210 B | 10/23/97 | 11 | mg/L | 2.0 | U | None |
| 031616 | Fecal Coliform | SM9222 D | 10/22/97 | < 1.0 | CFU/100mL | 1.0 | U | $Na_2S_2O_3$ |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: _____
PHONE: _____
FAX : _____
CLIENT CONTACT: Susan Metcalf
PURCHASE ORDER #: _____

DATE NEEDED: _____
CLIENT PROJECT: Citrus County Landfill
PROJECT NAME / #: Weekly Leachate sample
HBOI W/O & HPN: 19615

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No X If Yes, _____

SAMPLED BY: 10/22/97 L G
DATE: _____
TIME: _____
METHOD OF SHIPMENT: Courier
COOLER NO.(s) _____

G = Grab
C = Composite
O = Other

**MATRIX KEY**
S = Solid
SL = Sludge
DW = Drinking
GW = Ground
SW = Surface
WW = Waste

**PRESERVATION KEY**
H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

**ANALYSES REQUESTED**

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | Fecal Coliform | pH, cBOD, TSS, NO2, NO3, cond | COD, T-phos, NH3, TKN, TN | | | | | COMMENTS ↓ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | $Na_2S_2O_3$ | U | $H_2SO_4$ | | | | | |
| | 10/22 | 1000 | G | WW | 4 | Leachate | 1 | 2 | 1 | | | | | PH Cond Temp 8.13 2003 26.1 |
| | | | | | | | | | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY:** Elyse Gallagher | DATE: 10/22/97<br>TIME: 1400 | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED FOR LAB BY:<br>LAB NAME: Lindquist | DATE: 10-22-97<br>TIME: 1400 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

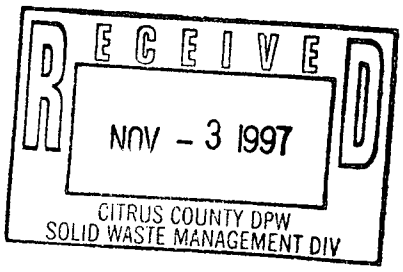
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**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086




**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**OCTOBER 22, 1997 - WEEKLY**
**OCTOBER 30, 1997 - QUARTERLY**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

## HARBOR BRANCH ENVIRONMENTAL LABORATORY

**PART III ANALYTICAL RESULTS**

HBEL Sample ID: 75451001

Facility GMS #: 4009C00086
Test Site ID#: N/A

Sampling Date/Time: 10/15/97 11:45

Report Period: 1997/Weekly

Test Site Name: Leachate Effluent

Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type: Background
Intermediate
Compliance
Other

Ground Water Elevation (NGVD): _____ (ft)
or (MSL): _____

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date | Analysis Result | Units | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|
| 004000 | pH | G | N | EPA 150.1 | 10/17/97 | 8.4 | S.U. | 0.20 | S.U. |
| 900201 | Total Suspended Solids | G | N | EPA 160.2 | 10/17/97 | 2.0 | mg/L | 1.0 | mg/L |
| 000620 | Nitrate-Nitrogen | G | N | EPA 300.0 | 10/17/97 | 0.35 | mg/L | 0.06 | mg/L |
| 000620 | Nitrite-Nitrogen | G | N | EPA 300.0 | 10/17/97 | < 0.04 | mg/L | 0.04 | mg/L |
| 000610 | Ammonia-Nitrogen | G | N | EPA 350.1 | 10/21/97 | 0.067 | mg/L | 0.050 | mg/L |
| 000625 | Total Kjeldahl Nitrogen | G | N | EPA 351.2 | 10/20/97 | 2.4 | mg/L | 0.20 | mg/L |
| 000600 | Total Nitrogen | G | N | EPA 351.2 | 10/20/97 | 2.75 | mg/L | 0.20 | mg/L |
| 000665 | Total Phosphorus | G | N | EPA 365.4 | 10/20/97 | 5.6 | mg/L | 0.50 | mg/L |
| 000340 | COD | G | N | EPA 410.4 | 10/21/97 | 120 | mg/L | 5.0 | mg/L |
| 080082 | CBOD5 | G | N | SM5210 B | 10/17/97 | 5.2 | mg/L | 2.0 | mg/L |
| 031616 | Fecal Coliform | G | N | SM9222 D | 10/17/97 | 4.0 | CFU/100mL | 1.0 | CFU/100mL |

*HARBOR BRANCH ENVIRONMENTAL LABORATORY*

**PART III ANALYTICAL RESULTS**

Facility GMS# : 4009C00086
Test Site ID# : _____

HBEL Sample ID: 75451001
Sampling Date/Time: 10/15/97 11:45
Report Period: Quarterly October 1997
Well Purged (Y/N) : _____

Well Name: Leachate Effluent
Classification of Ground Water: _____
Ground Water Elevation (NGVD) : _____
or (MSL): _____

Well Type: ☒ Background ☒ Intermediate ☒ Compliance ☒ Other

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limits/Units | |
|---|---|---|---|---|---|---|---|---|---|
| 004000 | pH | G | N | EPA 150.1 | 10/17/97 15:36 | 8.4 | SU | 0.20 | SU |
| 070304 | Total Dissolved Solids | G | N | EPA 160.1 | 10/16/97 20:10 | 1000 | mg/L | 20 | mg/L |
| 900201 | Total Suspended Solids | G | N | EPA 160.2 | 10/17/97 9:20 | 2.0 | mg/L | 1.0 | mg/L |
| 000940 | Chloride | G | N | EPA 300.0 | 10/17/97 11:30 | 400 | mg/L | 15 | mg/L |
| 000620 | Nitrate | G | N | EPA 300.0 | 10/17/97 10:55 | 0.35 | mg/L | 0.060 | mg/L |
| 000620 | Nitrite | G | N | EPA 300.0 | 10/17/97 10:55 | ND | mg/L | 0.044 | mg/L |
| 000610 | Ammonia | G | N | EPA 350.1 | 10/21/97 11:11 | 0.067 | mg/L | 0.050 | mg/L |
| 000625 | Total Kjeldahl Nitrogen | G | N | EPA 351.2 | 10/20/97 15:37 | 2.4 | mg/L | 0.20 | mg/L |
| 000600 | Total Nitrogen | G | N | EPA 351.2 | 10/22/97 11:27 | 2.7 | mg/L | 0.20 | mg/L |
| 000665 | Total Phosphorus | G | N | EPA 365.4 | 10/20/97 15:37 | 5.6 | mg/L | 0.50 | mg/L |
| 000340 | COD | G | N | EPA 410.4 | 10/21/97 11:00 | 120 | mg/L | 5.0 | mg/L |
| 032101 | Bromodichloromethane | G | N | EPA 601 | 10/21/97 14:42 | 8.3 | ug/L | 1.0 | ug/L |
| 032104 | Bromoform | G | N | EPA 601 | 10/21/97 14:42 | 20 | ug/L | 1.0 | ug/L |
| 032106 | Chloroform | G | N | EPA 601 | 10/21/97 14:42 | 2.4 | ug/L | 1.0 | ug/L |
| 081521 | Dibromochloromethane | G | N | EPA 601 | 10/21/97 14:42 | 20 | ug/L | 1.0 | ug/L |
| 082080 | Total THMs | G | N | EPA 601 | 10/21/97 14:42 | 51 | ug/L | 1.0 | ug/L |
| 034030 | Benzene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 034371 | Ethylbenzene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 034010 | Toluene | G | N | EPA 602 | 10/21/97 14:42 | ND | ug/L | 1.0 | ug/L |
| 081551 | Total Xylenes | G | N | EPA 602 | 10/21/97 14:42 | 1.8 | ug/L | 1.0 | ug/L |
| 031616 | Fecal Coliform | G | N | SM9222 D | 10/15/97 16:26 | 4.0 | CFU/100mL | 1.0 | CFU/100mL |
| 001002 | Arsenic | G | N | SW-846 6010 | 10/22/97 9:45 | 0.0099 | mg/L | 0.0050 | mg/L |
| 001007 | Barium | G | N | SW-846 6010 | 10/22/97 9:45 | 0.012 | mg/L | 0.010 | mg/L |
| 001027 | Cadmium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0010 | mg/L |

*HARBOR BRANCH ENVIRONMENTAL LABORATORY*

**PART III ANALYTICAL RESULTS**

Facility GMS# : 4009C00086
Test Site ID# :

Well Name: Leachate Effluent
Classification of Ground Water:
Ground Water Elevation (NGVD) :
or (MSL):

HBEL Sample ID: 75451001
Sampling Date/Time: 10/15/97 11:45
Report Period: Quarterly October 1997
Well Purged (Y/N) :
Well Type: ☒ Background ☒ Intermediate ☒ Compliance ☒ Other

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limits/Units | |
|---|---|---|---|---|---|---|---|---|---|
| 001034 | Chromium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0020 | mg/L |
| 001045 | Iron | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.040 | mg/L |
| 001051 | Lead | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0030 | mg/L |
| 001147 | Selenium | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0050 | mg/L |
| 001077 | Silver | G | N | SW-846 6010 | 10/22/97 9:45 | ND | mg/L | 0.0010 | mg/L |
| 000929 | Sodium | G | N | SW-846 6010 | 10/22/97 9:45 | 270 | mg/L | 1.0 | mg/L |
| 007900 | Mercury | G | N | SW-846 7470 | 10/22/97 14:15 | ND | mg/L | 0.00050 | mg/L |
| 077651 | 1,2-Dibromoethane | G | N | SW-846 8011 | 10/21/97 11:46 | ND | ug/L | 0.019 | ug/L |

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County Landfill
ADDRESS: _____
PHONE: _____
FAX : _____
CLIENT CONTACT: Susan Metcalf
PURCHASE ORDER #: _____

DATE NEEDED: _____
CLIENT PROJECT: _____
PROJECT NAME / #: Weekly Leachate
HBOI W/O & HPN: 5451

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No X If Yes, _____

SAMPLED BY: Craig Martin
DATE: 10/15/97
TIME: _____
METHOD OF SHIPMENT: courier
COOLER NO.(s) 48-122

G = Grab
C = Composite
O = Other

**MATRIX KEY**
S = Solid
SL = Sludge
DW = Drinking
GW= Ground
SW = Surface
WW = Waste

**PRESERVATION KEY**
H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

**ANALYSES REQUESTED**

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | Fecal Coliform | Ph, CBOD, TSS NO2 NO3 | COD, Tphos NH3 TKN, TN | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | No Thio | — | Sulfuric | | | | | |
| | 10/15 | 1145 | G | WW | 3 | Leachate | 1 | 1 | 1 | | | | | Cond pH Temp 1927 7.63 27.5 |
| | | | | | | | | | | | | | | |
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|---|---|---|---|
| RELINQUISHED BY**: Craig Martin | DATE: 10/15/97<br>TIME: 15:53 | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED FOR LAB BY:<br>LAB NAME: | DATE: 10 15 97<br>TIME: 1553 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE 1 OF 1

CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

1605

COMPANY: Citrus County Landfill Leachate
ADDRESS: _____
PHONE: _____
FAX: _____
CLIENT CONTACT: Susan Metcalf
PURCHASE ORDER #: _____

DATE NEEDED: _____
CLIENT PROJECT: _____
PROJECT NAME / #: Quarterly Effluent
HBOI W/O & HPN: 5451

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes __ No X If Yes, _____

SAMPLED BY: L. Gerken
DATE: 10/15/97
TIME: _____
METHOD OF SHIPMENT: Courier
COOLER NO.(s) 48-122

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW = Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

G = Grab
C = Composite
O = Other

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | Metals | 601(THMs) 602(BTEX) | 8011 EDB | Fecal | Coliform Chloride, pH COD, TSS | TDS NO3 | COD, Tphos NH3 TKN TN | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | HNO3 | HCl | U | No Thio | U | Sulfuric | | | |
| | 10/15 | 1145 | G | WW | 10 | Leachate | 1 | B EDB | 3 | 1 | 1 | 1 | | | Cond PH Temp 1927 7.63 27.5 |
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|---|---|---|---|
| RELINQUISHED BY**: Gary Martin | DATE: 10/15/97<br>TIME: 15:53 | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED FOR LAB BY:<br>LAB NAME: L. Lindquist | DATE: 10/15/97<br>TIME: 1553 |

*DISTRIBUTION*: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE 1 OF 1

Harbor Branch
Environmental Laboratory

Analytical Field Data Sheet
030497

# ANALYTICAL FIELD DATA

**Project Name** Citrus County Landfill
**Date**



| LOCATION | Time | pH | Specific Conductivity | Temperature | D.O. | Turbidity | Residual Chlorine | Comments |
|---|---|---|---|---|---|---|---|---|
| Leachate | 1145 | 7.63 | 1927 | 27.5 | | | | |
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Harbor Branch
Environmental Laboratory

Form 300
Revision 005
03/07/97

# Field Data Sheet



**Sampler (s)** Craig Martin **Date** 10/15 **Sample Time** _____ **Field ID#** _____
**Project Name** Citrus County Landfill

**Sample Type** (circle one): (WW) SW GW DW ReagWtr. Sludge Sediment Soil Other
**Sample Site Identification** Leachate

**Sampling Method:** (Grab) Composite Monitoring Well: Bailer Pump
**Sampling Equipment:** None
**Site and Weather Conditions** Partly Cloudy, warm

## *Field Instrument Beginning Calibration*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| pH meter | (Yes) | No | Buffer | 4.0 | _____ | 7.0 | 6.99 | 10.0 | 9.97 | Slope |
| Conductivity meter | (Yes) | No | Buffer | 147 | _____ | 1414 | _____ | 12900 | _____ | 97.6 |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ | |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ | |

**Field Filtered:** Yes (No) **Duplicate:** Yes (No) **Field Decontamination:** Yes (No)

| Parameter | Sample Containers | pH Check | |
|---|---|---|---|
| Nutrient | Plastic - $H_2SO_4$ | <2 | ✓ |
| Metals | Plastic - $HNO_3$ | <2 | |
| Sulfide | Plastic - NaOH / Zn Acetate | >12 | |
| Cyanide | Plastic - NaOH / (NO Sulfide) / Ascorbic Acid | >12 | |
| Bacteriological | Glass - Thiosulfate ( DW NO Chlorine Res.) | | |
| Oil and Grease | Glass - HCl | <2 | |
| TRPH | Glass - HCl | <2 | |
| VOA | Glass - HCl | <2 | |
| SVOC | Glass - (DRW NO Chlorine Res.) | | |
| ~~Other~~ Phenols | Glass - $H_3PO_4$ | <2 | |
| Other | | | |

| Well Diameter | Multiplier |
|---|---|
| 1.5 inches | 0.092 |
| 2.0 inches | 0.163 |
| 4.0 inches | 0.653 |
| 6.0 inches | 1.469 |

## *Field Instrument Ending Calibration*

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| pH meter | Yes | No | Buffer | 4.0 | _____ | 7.0 | _____ | 10.0 | _____ |
| Conductivity meter | Yes | No | Buffer | 147 | _____ | 1414 | _____ | 12900 | _____ |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ |

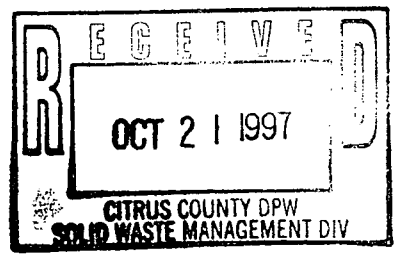
**General Site Information/Comments** A copy of the chain of custody was left at the front office for Jim Brunswick.

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086




**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**

**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**OCTOBER 16, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

## HARBOR BRANCH ENVIRONMENTAL LABORATORY

**PART III ANALYTICAL RESULTS**

HBEL Sample ID: 75272001

Facility GMS #: 4009C00086
Test Site ID#: N/A

Sampling Date/Time: 10/09/97 75272001

Report Period: 1997/Weekly

Test Site Name: Leachate Effluent

Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type: Background
Intermediate
Compliance
Other

Ground Water Elevation (NGVD): _____ (ft)
or (MSL): _____

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date | Analysis Result | Units | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|
| 004000 | pH | G | N | EPA 150.1 | 10/13/97 | 8.3 | S.U. | 0.20 | S.U. |
| 900201 | Total Suspended Solids | G | N | EPA 160.2 | 10/11/97 | 5.5 | mg/L | 5.0 | mg/L |
| 000620 | Nitrate-Nitrogen | G | N | EPA 300.0 | 10/11/97 | < 0.60 | mg/L | 0.60 | mg/L |
| 000620 | Nitrite-Nitrogen | G | N | EPA 300.0 | 10/11/97 | < 0.44 | mg/L | 0.44 | mg/L |
| 000610 | Ammonia-Nitrogen | G | N | EPA 350.1 | 10/13/97 | < 0.050 | mg/L | 0.050 | mg/L |
| 000625 | Total Kjeldahl Nitrogen | G | N | EPA 351.2 | 10/14/97 | 1.4 | mg/L | 0.20 | mg/L |
| 000600 | Total Nitrogen | G | N | EPA 351.2 | 10/15/97 | 1.4 | mg/L | 0.20 | mg/L |
| 000665 | Total Phosphorus | G | N | EPA 365.4 | 10/14/97 | 5.2 | mg/L | 0.50 | mg/L |
| 000340 | COD | G | N | EPA 410.4 | 10/13/97 | 45 | mg/L | 5.0 | mg/L |
| 080082 | CBOD5 | G | N | SM5210 B | 10/10/97 | 9.1 | mg/L | 2.0 | mg/L |
| 031616 | Fecal Coliform | G | N | SM9222 D | 10/09/97 | < 1.0 | CFU/100mL | 1.0 | CFU/100mL |

Harbor Branch
Environmental Laboratory

Form 300
Revision 005
03/07/97

# Field Data Sheet

Sampler (s) Drexel, Date 10/9/97 Sample Time _____ Field ID# 1
Project Name Citrus Co.

Sample Type (circle one): (WW) SW GW DW ReagWtr Sludge Sediment Soil Other
Sample Site Identification Leachate Effluent

Sampling Method: (Grab) Composite Monitoring Well: Bailer Pump
Sampling Equipment: _____
Site and Weather Conditions Sunny; mild; E. wind @ 5-10; dry

## *Field Instrument Beginning Calibration*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| pH meter | (Yes) | No | Buffer | 4.0 | _____ | ~~7.0~~ | 6.99 | (10.0) | 10.00 | Slope = |
| Conductivity meter | (Yes) | No | Buffer | 147 | _____ | (1414) | 1412-1413 | 12900 | _____ | 97.4 |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ | |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ | |

Field Filtered: Yes (No) Duplicate: Yes (No) Field Decontamination: (Yes) No

| Parameter | Sample Containers | pH Check | |
|---|---|---|---|
| Nutrient | Plastic - $H_2SO_4$ | <2 | |
| Metals | Plastic - $HNO_3$ | <2 | |
| Sulfide | Plastic - NaOH / Zn Acetate | >12 | |
| Cyanide | Plastic - NaOH / (NO Sulfide) / Ascorbic Acid | >12 | |
| Bacteriological | Glass - Thiosulfate ( DW NO Chlorine Res.) | | |
| Oil and Grease | Glass - HCl | <2 | |
| TRPH | Glass - HCl | <2 | |
| VOA | Glass - HCl | <2 | |
| SVOC | Glass - (DRW NO Chlorine Res.) | | |
| ~~Other~~ Phenols | Glass - $H_3PO_4$ | <2 | |
| Other | | | |

| Well Diameter | Multiplier |
|---|---|
| 1.5 inches | 0.092 |
| 2.0 inches | 0.163 |
| 4.0 inches | 0.653 |
| 6.0 inches | 1.469 |

## *Field Instrument Ending Calibration*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| pH meter | (Yes) | No | Buffer | 4.0 | _____ | ~~7.0~~ | 6.99 | (10.0) | 9.99 | Slope = |
| Conductivity meter | (Yes) | No | Buffer | 147 | _____ | 1414 | 1413-1413 | 12900 | _____ | 99.4 |
| Turbidity meter | Yes | No | Buffer | 0.5 | _____ | 5.0 | _____ | 20 | _____ | |
| DO meter | Yes | No | Temp C° | | _____ | Adjust | _____ | from | _____ | |

## General Site Information/Comments _____

Harbor Branch
Environmental Laboratory

Analytical Field Data Sheet
030497

# ANALYTICAL FIELD DATA

Project Name Citrus Cr. Leachate Weekly
Date 10-9-97



| LOCATION | Time | pH | Specific Conductivity | Temperature | D.O. | Turbidity | Residual Chlorine | Comments |
|---|---|---|---|---|---|---|---|---|
| Leachate Eff. | 9:45 | 7.25 | 1500 | 26.3° | | | | |
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CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
ADDRESS:
PHONE:
FAX :
CLIENT CONTACT:
PURCHASE ORDER #:

DATE NEEDED: Normal TAT
CLIENT PROJECT:
PROJECT NAME / #: Leachate - Weekly
HBOI W/O & HPN: 5272

**SPECIAL INSTRUCTIONS:**
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes ___ (No) If Yes, ___

SAMPLED BY: Dienst.
DATE: 10/9/97
TIME:
METHOD OF SHIPMENT: Courier
COOLER NO.(s)

G = Grab
C = Composite
O = Other

| MATRIX KEY | PRESERVATION KEY |
|---|---|
| S = Solid | H = Hydrochloric Acid |
| SL = Sludge | N = Nitric Acid |
| DW = Drinking | S = Sulfuric Acid |
| GW= Ground | SH = Sodium Hydroxide |
| SW = Surface | P = Phosphoric Acid |
| WW = Waste | ST = Sodium Thiosulfate |
| | U = None / Unpreserved |

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | ANALYSES REQUESTED: Fecal; Ph, CBOD, TSS; NO2, NO3; COD; NH3; Tot-P; TKN — ST | U | S | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 9/97 | 9:45 | G. | WW. | 3 | Leachate Eff. | 1 | 1 | 1 | | | | | Ph: 7.25 SC: 1500 T: 26° |
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|---|---|---|---|
| RELINQUISHED BY**: D. Dienstberger | DATE: 10/9/97 | RECEIVED BY: | DATE: |
| | TIME: 13:10 | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED BY: | DATE: |
| | TIME: | | TIME: |
| RELINQUISHED BY: | DATE: | RECEIVED FOR LAB BY: | DATE: 10.9.97 |
| | TIME: | LAB NAME: Ron Nath | TIME: 1310 |

***DISTRIBUTION***: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

**HARBOR BRANCH**
**ENVIRONMENTAL LABORATORY**

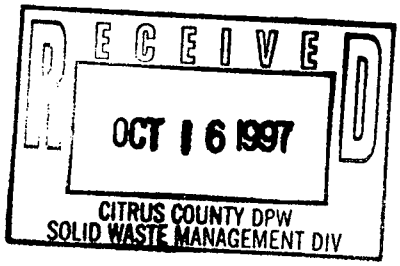
5600 U.S. 1 NORTH
FORT PIERCE, FLORIDA 34946

(561) 465-2400, Ext. 285 or 448
FAX (561) 467-1584

# ANALYTICAL REPORT FOR:
# CITRUS COUNTY CENTRAL LANDFILL
# LEACHATE SAMPLE
# GMS # 4009C00086

**PRESENTED TO:**
**CATHY WINTER**

**ANALYSIS BY:**
**HARBOR BRANCH ENVIRONMENTAL LABORATORY**
**CompQAP #870174G**
**HRS #E96080/96230**




**PROJECT MANAGER:**
**DON HASH**

**LABORATORY DIRECTOR:**
**N. MYRON GUNSALUS, JR.**

**OCTOBER 10, 1997**

# Quality Control Summary

- **Laboratory Blank:** All analytes were below Reporting Detection Limits (RDL).
- **Laboratory Control Sample:** Recoveries for analytes were within laboratory accuracy limits.
- **Matrix Spike/Matrix Spike Duplicate:** Recoveries for analytes were within laboratory precision and accuracy limits.
- **Sample Duplicate:** Analysis data demonstrated acceptable reproducibility of laboratory processes.

**HARBOR BRANCH ENVIRONMENTAL LABORATORY**

**PART III ANALYTICAL RESULTS**

HBEL Sample ID: 75127001

Facility GMS #: 4009C00086
Test Site ID#: _____

Sampling Date/Time: 10/02/97 75127001

Report Period: 1997/Weekly

Well Name: Leachate

Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type:
- ☐ Background
- ☐ Intermediate
- ☐ Compliance
- ☐ Other

Ground Water Elevation (NGVD): _____ (ft)
or (MSL): _____

| Storet Code | Parameter Monitored | Sampling Method | Field Filtered Y/N | Analysis Method | Analysis Date | Analysis Result | Units | Detection Limits | Units |
|---|---|---|---|---|---|---|---|---|---|
| 004000 | pH | G | N | EPA 150.1 | 10/03/97 | 8.2 | S.U. | 0.20 | S.U. |
| 900201 | Total Suspended Solids | G | N | EPA 160.2 | 10/06/97 | < 5.0 | mg/L | 5.0 | mg/L |
| 000620 | Nitrate-Nitrogen | G | N | EPA 300.0 | 10/04/97 | 0.20 | mg/L | 0.060 | mg/L |
| 000620 | Nitrite-Nitrogen | G | N | EPA 300.0 | 10/04/97 | < 0.044 | mg/L | 0.044 | mg/L |
| 000610 | Ammonia-Nitrogen | G | N | EPA 350.1 | 10/07/97 | 0.066 | mg/L | 0.050 | mg/L |
| 000625 | Total Kjeldahl Nitrogen | G | N | EPA 351.2 | 10/09/97 | 1.1 | mg/L | 0.20 | mg/L |
| 000600 | Total Nitrogen | G | N | EPA 351.2 | 10/10/97 | 1.3 | mg/L | 0.20 | mg/L |
| 000665 | Total Phosphorus | G | N | EPA 365.4 | 10/09/97 | 6.8 | mg/L | 2.0 | mg/L |
| 000340 | COD | G | N | EPA 410.4 | 10/05/97 | 42 | mg/L | 5.0 | mg/L |
| 80082 | CBOD5 | G | N | SM5210 B | 10/03/97 | 4.0 | mg/L | 2.0 | mg/L |
| 031616 | Fecal Coliform | G | N | SM9222 D | 10/02/97 | < 1.0 | CFU/100mL | 1.0 | CFU/100mL |

Harbor Branch
Environmental Laboratory

Form 300
Revision 005
03/07/97

# Field Data Sheet

Sampler (s) Dienat / Gallagher Date 10/2/97 Sample Time 11:08 Field ID# 1
Project Name Crystal R. Landfill (Citrus Cr.)

Sample Type (circle one): (WW) SW GW DW ReagWtr. Sludge Sediment Soil Other
Sample Site Identification Leachate

Sampling Method: (Grab) Composite Monitoring Well: Bailer Pump
Sampling Equipment:
Site and Weather Conditions Sunny, Warm, dry, calm

## *Field Instrument Beginning Calibration*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| pH meter | ~~Yes~~ | No | Buffer | 4.0 | | (7.0) | 6.99 | (10.0) | 9.99 | Slope = |
| Conductivity meter | (Yes) | No | Buffer | 147 | | (1414) | 1406-1413 | 12900 | | |
| Turbidity meter | Yes | No | Buffer | 0.5 | | 5.0 | | 20 | | 98.3 |
| DO meter | Yes | No | Temp C° | | | Adjust | | from | | |

Field Filtered: Yes (No) Duplicate: Yes (No) Field Decontamination: (Yes) No

| Parameter | Sample Containers | pH Check |
|---|---|---|
| Nutrient | Plastic - $H_2SO_4$ | <2 |
| Metals | Plastic - $HNO_3$ | <2 |
| Sulfide | Plastic - NaOH / Zn Acetate | >12 |
| Cyanide | Plastic - NaOH / (NO Sulfide) / Ascorbic Acid | >12 |
| Bacteriological | Glass - Thiosulfate ( DW NO Chlorine Res.) | |
| Oil and Grease | Glass - HCl | <2 |
| TRPH | Glass - HCl | <2 |
| VOA | Glass - HCl | <2 |
| SVOC | Glass - (DRW NO Chlorine Res.) | |
| ~~Other~~ Phenols | Glass - $H_3PO_4$ | < 2 |
| Other | | |

| Well Diameter | Multiplier |
|---|---|
| 1.5 inches | 0.092 |
| 2.0 inches | 0.163 |
| 4.0 inches | 0.653 |
| 6.0 inches | 1.469 |

## *Field Instrument Ending Calibration*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| pH meter | ~~Yes~~ | No | Buffer | 4.0 | | (7.0) | 6.99 | (10.0) | 9.99 | Slope = |
| Conductivity meter | ~~Yes~~ | No | Buffer | 147 | | (1414) | 1418-1413 | 12900 | | |
| Turbidity meter | Yes | No | Buffer | 0.5 | | 5.0 | | 20 | | 97.9 |
| DO meter | Yes | No | Temp C° | | | Adjust | | from | | |

## General Site Information/Comments

Harbor Branch
Environmental Laboratory

Analytical Field Data Sheet
030497

# ANALYTICAL FIELD DATA

Project Name Citrus Co. (Crystal R.) Landfill
Date 10/2/97



| LOCATION | Time | pH | Specific Conductivity | Temperature | D.O. | Turbidity | Residual Chlorine | Comments |
|---|---|---|---|---|---|---|---|---|
| Leachate | 11:08 | 7.68 | 1519 | 27.6° | | | | |
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CHAIN OF CUSTODY RECORD

# The ENVIRONMENTAL LABORATORY at Harbor Branch

5600 U. S. 1 North, Ft. Pierce, FL 34946 • (561) 465-2400, Ext. 285 • Fax (561) 467-1584

COMPANY: Citrus County
ADDRESS:
PHONE:
FAX :
CLIENT CONTACT:
PURCHASE ORDER #:

DATE NEEDED: Normal TAT
CLIENT PROJECT:
PROJECT NAME / #: Leachate Sample
HBOI W/O & HPN: 5127

SPECIAL INSTRUCTIONS:
☐ RUSH in ___ BUSINESS DAYS
*SAMPLE SAFETY INFORMATION* **:
Are there any other known or suspected safety hazards associated with these samples other than those listed below?
Yes (No) If Yes,

SAMPLED BY: Gallagher / Dienst
DATE: 10-2-97
TIME:
METHOD OF SHIPMENT: Courier
COOLER NO.(s)

G = Grab
C = Composite
O = Other

**MATRIX KEY**
S = Solid
SL = Sludge
DW = Drinking
GW = Ground
SW = Surface
WW = Waste

**PRESERVATION KEY**
H = Hydrochloric Acid
N = Nitric Acid
S = Sulfuric Acid
SH = Sodium Hydroxide
P = Phosphoric Acid
ST = Sodium Thiosulfate
U = None / Unpreserved

**ANALYSES REQUESTED**

| FIELD ID | SAMPLING DATE | SAMPLING TIME | SAMPLE TYPE | MATRIX | # | PRESERVATIVE → / SAMPLE LOCATION ↓ | U (Ph; CBOD; NO2; NO3; TSS) | ST (Fecal) | S (COD; T-P; TKN; NH3) | | | | | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/2/97 | | 11:08 | G. | WW. | 3 | Leachate | 1 | 1 | 1 | | | | | Ph: 7.68 Sa: 1519 T: 28° |
| | | | | | | | | | | | | | | |
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| | | | | | 3 | Total | 1 | 1 | 1 | | | | | |

| | | | |
|---|---|---|---|
| RELINQUISHED BY**: D. Dienstberger | DATE: 10-2-97<br>TIME: 16:00 | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED BY: | DATE:<br>TIME: |
| RELINQUISHED BY: | DATE:<br>TIME: | RECEIVED FOR LAB BY:<br>LAB NAME: Sandquist | DATE: 10-02-97<br>TIME: 1600 |

*DISTRIBUTION*: *WHITE - For HBOI; CANARY - With Report; PINK - To Courier; GOLDENROD - Client at Pick-up*

FORM 1936 - PRINTING BY HEARN

PAGE 1 OF 1

# Board of County Commissioners

## Department of Public Works

**REPLY TO:**
Solid Waste Management
P.O. Box 340
Lecanto, Fl 34460

October 14, 1997

RECEIVED
OCT 17 1997
D E P

RECEIVED
OCT 17 1997
D E P

Ms. Allison Amram, P.G.
Environmental Specialist III
Dept. of Environmental Protection
3804 Coconut Palm Drive
Tampa, FL 33619-8318

**RE: QUARTERLY LEACHATE MONITORING REPORT FOR CITRUS COUNTY CENTRAL LANDFILL 60 AND 80 ACRE SITES- PERMIT NO. SO09-274381**

Dear Ms. Amram:

Enclosed please find the following leachate monitoring results for the 80 and 60 Acre Sites, together with the Operator's monthly reports, covering the period 7-97 to 9-97:

✓1) Annual Waste Sludge ok
2) Annual Effluent
3) Weekly and Quarterly Effluent
✓4) Semi-Annual and Annual Influent

There are no exceedences of permit limits for treated leachate during this period.

Should further information or clarification be necessary, please do not hesitate to contact me.

Sincerely,

Susan J Metcalfe

Susan J. Metcalfe, P.G.
Director, Division of Solid Waste Management

cc: Chongman Lee, GW Analysis- Solid Waste - Tallahassee
Kenneth E. Saunders, Jr., Dept. Public Works w/o attachments
Lou Badami, Director, Utilities Division w/o attachments
Bob Merkel, Supervisor, Utilities Division w/o attachments

CITRUS COUNTY CENTRAL LANDFILL
JULY, AUGUST, SEPTEMBER, 1997

| MCL | | 200 CUF/100ML | | 20 | 6.0 - | | | | | 12 | | | | | 20 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FECAL | | | 8.5 | | AMMONIA | | | | | TOTAL | | TOTAL | | | |
| DATE | | COLIFORM | | CBOD | PH | | NITROGEN | | COD | | NITRATE-N | NITROGEN | | PHOSPHOROUS | | TSS | | TKN |
| 7/2/97 | | Absent | | 3.00 | 7.80 | | 0.16 | | 200.00 | < | 0.05 | 4.30 | | 14.00 | | 10.00 | | 4.30 |
| 7/10/97 | | Absent | | 2.00 | 8.70 | < | 0.05 | | 200.00 | | BDL | 3.20 | | 14.00 | | 8.00 | | 3.2 |
| *7/17/97 | < | 1.0 | < | 2.00 | 7.00 | | 0.23 | | 160.00 | < | 0.50 | 0.76 | | 18.00 | | 11.00 | | 0.76 |
| 7/24/97 | | 1.0 | < | 2.00 | 8.10 | | 0.11 | | 140.00 | < | 0.50 | 2.90 | | 14.00 | | 12.00 | | 2.9 |
| 7/31/97 | | 1.0 | < | 2.00 | 7.60 | < | 0.05 | | 110.00 | < | 0.50 | 2.60 | | 16.00 | < | 4.00 | | 2.6 |
| 8/7/97 | < | 1.0 | | 2.00 | 7.80 | < | 0.05 | | 100.00 | | 0.70 | 2.50 | | 17.00 | < | 4.00 | | 2.4 |
| 8/14/97 | | 7.0 | < | 2.00 | 7.80 | < | 0.50 | | 26.00 | < | 0.50 | 0.97 | | 8.80 | < | 4.00 | | 0.97 |
| 8/21/97 | | 3.0 | | 3.00 | 7.40 | < | 0.50 | | 56.00 | < | 0.50 | 0.98 | | 7.80 | < | 4.00 | | 0.98 |
| 8/28/97 | < | 1.0 | | 2.00 | 7.50 | < | 0.50 | | 340.00 | | 0.45 | 1.20 | | 8.10 | < | 4.00 | | 0.74 |
| 9/4/97 | | BDL | | 2.00 | 7.80 | | BDL | | 26.00 | | 0.48 | 1.70 | | 5.10 | | 5.10 | | 1.2 |
| 9/11/97 | | BDL | | 2.00 | 7.90 | | BDL | | 26.00 | | 0.16 | 1.30 | | 4.00 | | 4.00 | | 1.1 |
| 9/18/97 | | BDL | | 2.00 | 8.10 | | BDL | | BDL | | BDL | 1.20 | | 4.20 | | BDL | | 1.2 |
| 9/25/97 | | 21 | | 2.00 | 7.60 | < | 0.50 | | 54.00 | < | 0.05 | 1.80 | | 5.10 | | 7.00 | | 1.8 |

*Quarterly, Semi-Annual and Annual Analytical results attached

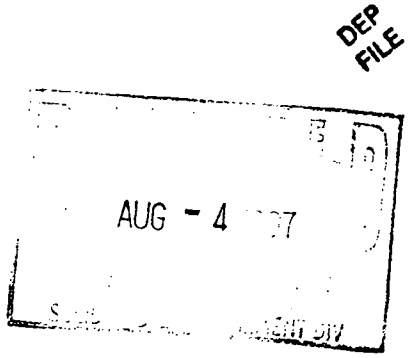
*Analytical results reported in MG/L except for Fecal Coliform

/cjw

BEST AVAILABLE COPY



Our Quality Control Is Your Quality Assurance




**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Page:** Page 1 of 3
**Date:** 08/01/97
**Log #:** L21674-1

**Sample Description:**

Annual Sludge
Task 8

**Label:** Annual Sludge
**Date Sampled:** 07/16/97
**Time Sampled:** 14:50
**Date Received:** 07/16/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| **TCLP Metals** | | | | | | | |
| Arsenic | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Barium | 5.5 | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Cadmium | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Chromium | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Lead | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Mercury | BDL | mg/l | 1311/7470 | 0.010 | 07/21 | 07/21 | VF |
| Selenium | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| Silver | BDL | mg/l | 1311/6010 | 0.10 | 07/18 | 07/21 | PVP |
| **TCLP Organochlorine Pesticides and PCB's** | | | | | | | |
| Chlordane | BDL | mg/l | 1311/8080 | 0.0020 | 07/23 | 07/23 | DM |
| Lindane | BDL | mg/l | 1311/8080 | 0.00080 | 07/23 | 07/23 | DM |
| Methoxychlor | BDL | mg/l | 1311/8080 | 0.0015 | 07/23 | 07/23 | DM |
| Toxaphene | BDL | mg/l | 1311/8080 | 0.010 | 07/23 | 07/23 | DM |
| Endrin | BDL | mg/l | 1311/8080 | 0.0016 | 07/23 | 07/23 | DM |
| Heptachlor | BDL | mg/l | 1311/8080 | 0.0012 | 07/23 | 07/23 | DM |
| Heptachlor Epoxide | BDL | mg/l | 1311/8080 | 0.0019 | 07/23 | 07/23 | DM |
| Dilution Factor | 1.0 | | 1311/8080 | | 07/23 | 07/23 | DM |
| **Percent Solids** | | | | | | | |
| Percent Solid | 9.7 | % | SM2540B | 0.10 | 07/15 | 07/15 | SC |
| **TCLP Volatile Organic Compounds** | | | | | | | |
| Benzene | BDL | mg/l | 1311/8260 | 0.50 | 07/24 | 07/24 | KS |
| Chlorobenzene | BDL | mg/l | 1311/8260 | 100 | 07/24 | 07/24 | KS |
| Chloroform | BDL | mg/l | 1311/8260 | 6.0 | 07/24 | 07/24 | KS |
| Carbon Tetrachloride | BDL | mg/l | 1311/8260 | 0.50 | 07/24 | 07/24 | KS |
| 1,2-Dichloroethane | BDL | mg/l | 1311/8260 | 0.50 | 07/24 | 07/24 | KS |
| 1,1-Dichloroethene | BDL | mg/l | 1311/8260 | 0.70 | 07/24 | 07/24 | KS |
| Methyl Ethyl Ketone | BDL | mg/l | 1311/8260 | 200 | 07/24 | 07/24 | KS |

**Client #:** OLI-97-05[illegible]04
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Date:** 08/01/97
**Log #:** L21674-1

**Sample Description:**

Annual Sludge
Task 8

**Label:** Annual Sludge
**Date Sampled:** 07/16/97
**Time Sampled:** 14:50
**Date Received:** 07/16/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| **TCLP Volatile Organic Compounds (continued)** | | | | | | | |
| Tetrachloroethene | BDL | mg/l | 1311/8260 | 0.70 | 07/24 | 07/24 | KS |
| Trichloroethene | BDL | mg/l | 1311/8260 | 0.50 | 07/24 | 07/24 | KS |
| Vinyl Chloride | BDL | mg/l | 1311/8260 | 0.20 | 07/24 | 07/24 | KS |
| 1,4-Dichlorobenzene | BDL | mg/l | 1311/8260 | 7.5 | 07/24 | 07/24 | KS |
| Dilution Factor | 1.0 | | 1311/8260 | | 07/24 | 07/24 | KS |
| **Surrogate Recoveries:** | | | | | | | |
| 4-Bromofluorobenzene | 104 | % | 1311/8260 | 76-130 | 07/24 | 07/24 | KS |
| Dibromofluoromethane | 94 | % | 1311/8260 | 58-146 | 07/24 | 07/24 | KS |
| Toluene-D8 | 99 | % | 1311/8260 | 76-119 | 07/24 | 07/24 | KS |
| **General Chemistry** | | | | | | | |
| pH | 7.0 | | 9045 | 0.10 | 07/18 | 07/18 | JM |
| **TCLP Semivolatile Organic Compounds** | | | | | | | |
| o-Cresol | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| m,p-Cresols | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| 2,4-Dinitrotoluene | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| Hexachlorobenzene | BDL | mg/l | 1311/8270 | 0.030 | 07/21 | 07/21 | SW |
| Hexachlorobutadiene | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| Hexachloroethane | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| Nitrobenzene | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| Pentachlorophenol | BDL | mg/l | 1311/8270 | 0.25 | 07/21 | 07/21 | SW |
| Pyridine | BDL | mg/l | 1311/8270 | 0.10 | 07/21 | 07/21 | SW |
| 2,4,5-Trichlorophenol | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| 2,4,6-Trichlorophenol | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| 1,4-Dichlorobenzene | BDL | mg/l | 1311/8270 | 0.050 | 07/21 | 07/21 | SW |
| Dilution Factor | 5.0 | | 1311/8270 | | 07/21 | 07/21 | SW |
| **Surrogate Recoveries:** | | | | | | | |
| 2-Fluorophenol | 47.0 | % | 1311/8270 | 21-100 | 07/21 | 07/21 | SW |
| Phenol-d5 | 60.0 | % | 1311/8270 | 10-94 | 07/21 | 07/21 | SW |
| Nitrobenzene-d5 | 37.0 | % | 1311/8270 | 35-114 | 07/21 | 07/21 | SW |
| 2-Fluorobiphenyl | 46.0 | % | 1311/8270 | 43-111 | 07/21 | 07/21 | SW |
| 2,4,6-Tribromophenol | 52.0 | % | 1311/8270 | 10-123 | 07/21 | 07/21 | SW |
| Terphenyl-d14 | 46.0 | % | 1311/8270 | 33-141 | 07/21 | 07/21 | SW |

**Client #:** OLI-97-05[illegible]4
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Date:** 08/01/97
**Log #:** L21674-1

**Sample Description:**

Annual Sludge
Task 8

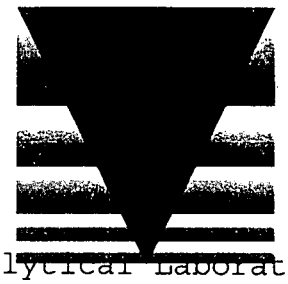
**Label:** Annual Sludge
**Date Sampled:** 07/16/97
**Time Sampled:** 14:50
**Date Received:** 07/16/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**TCLP Semivolatile Organic Compounds (continued)**

BDL = Below Detection Limits
* Compounds are Screened Only, with an estimated detection limit.
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.
All analyses were performed within EPA holding times unless otherwise noted.
Analyses are reported in dry weight unless otherwise indicated by units.

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | Respectfully submitted, |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | ND CERT# R-148 | |
| SC CERT# 96031 | TN CERT# 02985 | CT CERT# PH-0122 | |
| ELPAT# 13801 | CA CERT# I-1068 | USACE CERT | Project Manager |
| VA CERT# 00395 | RI CERT# 191 | MA CERT# M-FL449 | L21674-1 |



V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21673

Cathy Winter

Client Project ID: Task 7S
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L21673-1 | Semi-Annual Influent |

Respectfully Submitted,

Signature: Kay Hofmann

Date: 8/26/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

# MAXIMUM CONTAMINATION LEVEL REPORT

**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Page:** Page 1 of 1
**Date:** 08/06/97
**Log #:** L21673-1

**Sample Description:**

Wastewater Analysis
Task 7S

**Label:** Semi-Annual Influen
**Date Sampled:** 07/16/97
**Time Sampled:** 14:20
**Date Received:** 07/16/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Maximum Contamination Level | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**Metals**

No target analytes/analyses were above the maximum contamination level.

**Field Services**

No target analytes/analyses were above the maximum contamination level.

**Appendix I - Volatiles**

No target analytes/analyses were above the maximum contamination level.

**Sample Appearance**

No target analytes/analyses were above the maximum contamination level.

**Environmental Conditions**

No target analytes/analyses were above the maximum contamination level.

**General Chemistry**

No target analytes/analyses were above the maximum contamination level.

**EDB/DBCP**

This summary page indicating compound concentrations above the June, 1994 FDEP Ground Water Guidance Concentrations 'MCL' for primary and secondary standards is an enhancement to your standard reports. While V.O.C. Analytical Laboratories has made every effort to ensure its validity, we caution you to please verify its contents.
If the summary page fails, please notify your Project Manager immediately.

No target analytes/analyses were above the maximum contamination level.

**Metals**

This summary page indicating compound concentrations above the June, 1994 FDEP Ground Water Guidance Concentrations 'MCL' for primary and secondary standards is an enhancement to your standard reports. While V.O.C. Analytical Laboratories has made every effort to ensure its validity, we caution you to please verify its contents.
If the summary page fails, please notify your Project Manager immediately.

Order #: L21673-1
Client: Citrus County Solid Waste

V.O.C. Analytical Laboratories
Report of Analysis for DEP



Task 7S

Well Specifications
Diameter (in):
Water Level (ft):
Total Depth (ft):
Column Height (ft):
Column Volume (gal):
Evacuation (gal):
Actual (gal):

Evacuation Method: NA

Sample Appearance
Tint: Dark
Color: Tan
Turbidity: 14
Odor: Medium

Environmental Conditions
Wind: E 0-5
Rain: Light
Air (^C): 36.5
Atmosphere: PC
Other: NA

## PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Semi-Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:20
Report Period: 1997/2nd Semi-Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | |
| 01097 | Antimony | Grab | Y | 3010/6010A | 07/21 00:00 | <6.0 ug/l | 6.0 ug/l |
| 01002 | Arsenic | Grab | Y | 3010/6010A | 07/21 00:00 | <50 ug/l | 50 ug/l |
| 001007 | Barium | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 01012 | Beryllium | Grab | Y | 3010/6010A | 07/21 00:00 | <4.0 ug/l | 4.0 ug/l |
| 01027 | Cadmium | Grab | Y | 3010/6010A | 07/21 00:00 | <5.0 ug/l | 5.0 ug/l |
| 01034 | Chromium | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 1037 | Cobalt | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 001042 | Copper | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 001045 | Iron | Grab | Y | 3010/6010 | 07/21 00:00 | 1600 ug/l | 100 ug/l |
| 001051 | Lead | Grab | Y | 3010/6010A | 07/21 00:00 | <15 ug/l | 15 ug/l |
| 71900 | Mercury | Grab | Y | 245.2 | 07/21 00:00 | <0.50 ug/l | 0.50 ug/l |
| 1067 | Nickel | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 001147 | Selenium | Grab | Y | 3010/6010A | 07/21 00:00 | <50 ug/l | 50 ug/l |
| 001077 | Silver | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 000929 | Sodium | Grab | Y | 3010/6010 | 07/21 00:00 | 460000 ug/l | 500 ug/l |
| 001059 | Thallium | Grab | Y | 3010/6010A | 07/21 00:00 | <2.0 ug/l | 2.0 ug/l |
| 001087 | Vanadium | Grab | Y | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 001092 | Zinc | Grab | Y | 3010/6010 | 07/21 00:00 | <5000 ug/l | 5000 ug/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/16 00:00 | 2650umhos/cm | |
| 00299 | Dissolved O2 | Grab | N | 360.1 | 07/16 00:00 | 4.70 mg/l | 0.50 |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7S

**Well Specifications**

Diameter (in):
Water Level (ft):
Total Depth (ft):
Column Height (ft):
Column Volume (gal):
Evacuation (gal):
Actual (gal):

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 14
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 36.5
Atmosphere: PC
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Semi-Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:20
Report Period: 1997/2nd Semi-Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Field Services (continued)** | | | | | | | |
| 000406 | Field pH | Grab | N | 150.1 | 07/16 00:00 | 8.3 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/16 00:00 | 31.0 Deg. C | 0.10 |
| **Appendix I - Volatiles** | | | | | | | |
| 81552 | Acetone | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 034215 | Acrylonitrile | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 034030 | Benzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 73085 | Bromochloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32101 | Bromodichloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32104 | Bromoform | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77041 | Carbon Disulfide | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32102 | Carbon Tetrachloride | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34301 | Chlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34311 | Chloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32106 | Chloroform | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32105 | Dibromochloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 38760 | 1,2-Dibromo-3-Chloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 77651 | 1,2-Dibromoethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34536 | 1,2-Dichlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34571 | 1,4-Dichlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 077268 | trans-1,4-Dichloro-2-Butene | Grab | N | 5030/8260 | 07/22 00:00 | <10 ug/l | 10 ug/l |
| 34496 | 1,1-Dichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7S

**Well Specifications**

Diameter (in):
Water Level (ft):
Total Depth (ft):
Column Height (ft):
Column Volume (gal):
Evacuation (gal):
Actual (gal):

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 14
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 36.5
Atmosphere: PC
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Semi-Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:20
Report Period: 1997/2nd Semi-Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix I - Volatiles (continued)** | | | | | | | |
| 34531 | 1,2-Dichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34501 | 1,1-Dichloroethylene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77093 | cis-1,2-Dichloroethylene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34546 | trans-1,2-Dichloroethylene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34541 | 1,2-Dichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34704 | cis-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34699 | trans-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34371 | Ethylbenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77103 | 2-Hexanone | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 34413 | Methyl Bromide | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34418 | Methyl Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77596 | Methylene Bromide | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 34423 | Methylene Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <5.0 ug/l | 5.0 ug/l |
| 81595 | Methyl Ethyl Ketone | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 77424 | Methyl Iodide | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 78133 | 4-Methyl-2-Pentanone | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 77128 | Styrene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77562 | 1,1,1,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34516 | 1,1,2,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34475 | Tetrachloroethylene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 034010 | Toluene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34506 | 1,1,1-Trichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7S

**Well Specifications**

Diameter (in):
Water Level (ft):
Total Depth (ft):
Column Height (ft):
Column Volume (gal):
Evacuation (gal):
Actual (gal):

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 14
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 36.5
Atmosphere: PC

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Semi-Annual Influent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/16/97 14:20
**Report Period:** 1997/2nd Semi-Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result | Units | Detection Limit | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Appendix I - Volatiles (continued)** | | | | | | | | | |
| 34511 | 1,1,2-Trichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 39180 | Trichloroethylene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34488 | Trichlorofluoromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 77443 | 1,2,3-Trichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 77057 | Vinyl Acetate | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 39175 | Vinyl Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 034020 | Total Xylenes | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| | Dilution Factor | Grab | N | 5030/8260 | 07/22 00:00 | 1.0 | | 1.0 | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 4-Bromofluorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | 105 | % | 82-119 | |
| | Dibromofluoromethane | Grab | N | 5030/8260 | 07/22 00:00 | 95.0 | % | 75-112 | |
| | Toluene-D8 | Grab | N | 5030/8260 | 07/22 00:00 | 102 | % | 82-116 | |
| **General Chemistry** | | | | | | | | | |
| 45635 | Alkalinity-Bicarb | Grab | N | 4500-CO2D | 07/24 00:00 | 870 | mg/l | 2.0 | mg/l |
| 000610 | Ammonia | Grab | N | 350.1 | 07/24 00:00 | 86 | mg/l | 2.5 | mg/l |
| 00940 | Chloride | Grab | N | 300.0 | 07/17 00:00 | 730 | mg/l | 25 | mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 07/17 00:00 | 3.0 | mg/l | 0.50 | mg/l |
| 000515 | Total Dissolved Solids | Grab | N | 160.1 | 07/20 00:00 | 1900 | mg/l | 40 | mg/l |
| **EDB/DBCP** | | | | | | | | | |
| 77651 | EDB | Grab | N | 8011 | 07/23 00:00 | <0.020 | ug/l | 0.020 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7S

**Well Specifications**

Diameter (in):
Water Level (ft):
Total Depth (ft):
Column Height (ft):
Column Volume (gal):
Evacuation (gal):
Actual (gal):

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 14
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 36.5
Atmosphere: PC
Other: NA

## PARAMETER MONITORING REPORT

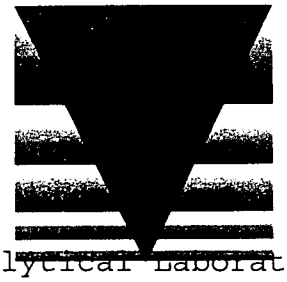
**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Semi-Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:20
Report Period: 1997/2nd Semi-Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| EDB/DBCP (continued) | | | | | | | |
| 38760 | DBCP | Grab | N | 8011 | 07/23 00:00 | <0.20 ug/l | 0.20 ug/l |
| | Dilution Factor | Grab | N | 8011 | 07/23 00:00 | 1.0 | |

Well development: pumping the well prior to sampling to obtain representative ground water samples.



V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21672

Cathy Winter

Client Project ID: Task 7A
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L21672-1 | Annual Influent |

Respectfully Submitted,

Signature: Karl Hoffman

Date: 8/26/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

# MAXIMUM CONTAMINATION LEVEL REPORT

**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Page:** Page 1 of 1
**Date:** 08/07/97
**Log #:** L21672-1

**Sample Description:**

Wastewater Analysis
Task 7A

**Label:** Annual Influent
**Date Sampled:** 07/16/97
**Time Sampled:** 14:30
**Date Received:** 07/16/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Maximum Contamination Level | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**Metals**

No target analytes/analyses were above the maximum contamination level.

**Organophosphorus Compounds**

No target analytes/analyses were above the maximum contamination level.

**Organochlorine Pesticides and PCB's**

No target analytes/analyses were above the maximum contamination level.

**Field Services**

No target analytes/analyses were above the maximum contamination level.

**Chlorinated Herbicides**

No target analytes/analyses were above the maximum contamination level.

**Sample Appearance**

No target analytes/analyses were above the maximum contamination level.

**Environmental Conditions**

No target analytes/analyses were above the maximum contamination level.

**Appendix II - Semivolatiles**

No target analytes/analyses were above the maximum contamination level.

**General Chemistry**

No target analytes/analyses were above the maximum contamination level.

**Volatiles Appendix II Organic Compounds**

No target analytes/analyses were above the maximum contamination level.

**EDB/DBCP**

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C0086
**Test Site ID #:** NA
**Well Name:** Annual Influent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/16/97 14:30
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | |
| 01097 | Antimony | Grab | N | 3010/6010A | 07/21 00:00 | <6.0 ug/l | 6.0 ug/l |
| 01002 | Arsenic | Grab | N | 3010/6010A | 07/21 00:00 | 20 ug/l | 10 ug/l |
| 001007 | Barium | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| 01012 | Beryllium | Grab | N | 3010/6010A | 07/21 00:00 | <4.0 ug/l | 4.0 ug/l |
| 01027 | Cadmium | Grab | N | 3010/6010A | 07/21 00:00 | <5.0 ug/l | 5.0 ug/l |
| 01034 | Chromium | Grab | N | 3010/6010A | 07/21 00:00 | <5.0 ug/l | 5.0 ug/l |
| 1037 | Cobalt | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| 001042 | Copper | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| 001051 | Lead | Grab | N | 3010/6010A | 07/21 00:00 | <5.0 ug/l | 5.0 ug/l |
| 71900 | Mercury | Grab | N | 245.2 | 07/21 00:00 | <0.50 ug/l | 0.50 ug/l |
| 1067 | Nickel | Grab | N | 3010/6010A | 07/21 00:00 | 35 ug/l | 5.0 ug/l |
| 001147 | Selenium | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| 001077 | Silver | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| NA204 | Tin | Grab | N | 3010/6010 | 07/21 00:00 | <100 ug/l | 100 ug/l |
| 001087 | Vanadium | Grab | N | 3010/6010A | 07/21 00:00 | <10 ug/l | 10 ug/l |
| 001092 | Zinc | Grab | N | 3010/6010A | 07/21 00:00 | 11 ug/l | 10 ug/l |
| **Organophosphorus Compounds** | | | | | | | |
| 46314 | Dimethoate | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |
| 81888 | Disulfoton | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |
| 38462 | Famphur | Grab | N | 3510/8141 | 07/24 00:00 | <0.70 ug/l | 0.70 ug/l |
| 39540 | Parathion, ethyl | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |
| Other: | NA |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Organophosphorus Compounds (continued)** | | | | | | | | | |
| 39600 | Parathion, methyl | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 | ug/l | 0.50 | ug/l |
| 46313 | Phorate | Grab | N | 3510/8141 | 07/24 00:00 | <0.70 | ug/l | 0.70 | ug/l |
| 73553 | Thionazin (Zinophos) | Grab | N | 3510/8141 | 07/24 00:00 | <0.60 | ug/l | 0.60 | ug/l |
| | Dilution Factor | Grab | N | 3510/8141 | 07/24 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 1,3-Dimethyl-2-Nitrobenzene | Grab | N | 3510/8141 | 07/24 00:00 | 74.0 | % | 48-108 | |
| **Organochlorine Pesticides and PCB's** | | | | | | | | | |
| 39337 | alpha-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39340 | gamma-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39410 | Heptachlor | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39330 | Aldrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39338 | beta-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 34259 | delta-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39420 | Heptachlor Epoxide | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 34361 | Endosulfan I | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| NA120 | 4,4'-DDE | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 39380 | Dieldrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 39390 | Endrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| NA119 | 4,4'-DDD | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34356 | Endosulfan II | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| NA121 | 4,4'-DDT | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C0086
**Test Site ID #:** NA
**Well Name:** Annual Influent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/16/97 14:30
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Organochlorine Pesticides and PCB's (continued)** | | | | | | | |
| 34366 | Endrin Aldehyde | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 ug/l | 0.10 ug/l |
| 39480 | Methoxychlor | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 34351 | Endosulfan Sulfate | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 ug/l | 0.10 ug/l |
| 78008 | Endrin Ketone | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 ug/l | 0.10 ug/l |
| 39400 | Toxaphene | Grab | N | 3510/8080 | 07/23 00:00 | <0.60 ug/l | 0.60 ug/l |
| NA118 | Chlordane | Grab | N | 3510/8080 | 07/23 00:00 | <0.60 ug/l | 0.60 ug/l |
| 39516 | PCB 1016 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1221 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1232 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1242 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1248 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1254 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1260 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | Total PCB's | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| | Dilution Factor | Grab | N | 3510/8080 | 07/23 00:00 | 1.0 | |
| | **Surrogate Recoveries:** | | | | | | |
| | 4,4'-Dichlorobiphenyl | Grab | N | 3510/8080 | 07/23 00:00 | 72.0 % | 49-146 |
| | TCMX | Grab | N | 3510/8080 | 07/23 00:00 | 67.0 % | 40-140 |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/16 00:00 | 2750umhos/cm | |
| 00299 | Dissolved O2 | Grab | N | 360.1 | 07/16 00:00 | 4.50 mg/l | 0.50 |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |
| Other: | NA |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Field Services (continued)** | | | | | | | |
| 000406 | Field pH | Grab | N | 150.1 | 07/16 00:00 | 8.5 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/16 00:00 | 28.8 Deg. C | 0.10 |
| **Chlorinated Herbicides** | | | | | | | |
| 39730 | 2,4-D | Grab | N | 3510/8150 | 07/24 00:00 | <3.0 ug/l | 3.0 ug/l |
| 39760 | 2,4,5-TP | Grab | N | 3510/8150 | 07/24 00:00 | <2.5 ug/l | 2.5 ug/l |
| 39740 | 2,4,5-T | Grab | N | 3510/8150 | 07/24 00:00 | <2.5 ug/l | 2.5 ug/l |
| 30191 | Dinoseb | Grab | N | 3510/8150 | 07/24 00:00 | <2.0 ug/l | 2.0 ug/l |
| | Dilution Factor | Grab | N | 3510/8150 | 07/24 00:00 | 1.0 | |
| | **Surrogate Recoveries:** | | | | | | |
| | DCAA | Grab | N | 3510/8150 | 07/24 00:00 | 31.0 % | 20-160 |
| **Appendix II - Semivolatiles** | | | | | | | |
| 34438 | N-Nitrosodimethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 ug/l | 1.9 ug/l |
| 77089 | Aniline | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| 34694 | Phenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.5 ug/l | 2.5 ug/l |
| 34273 | Bis(2-Chloroethyl) Ether | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 34586 | 2-Chlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 34566 | 1,3-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 ug/l | 2.6 ug/l |
| 34571 | 1,4-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.8 ug/l | 1.8 ug/l |
| 77147 | Benzyl alcohol | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34536 | 1,2-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <2.8 ug/l | 2.8 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy

Other: NA

PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 77152 | 2-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 73522 | Bis(2-Chloroisopropyl) Ether | Grab | N | 3510/8270 | 07/23 00:00 | <8.8 ug/l | 8.8 ug/l |
| NA181 | N-Nitrosodi-n-propylamine | Grab | N | 3510/8270 | 07/23 00:00 | <2.9 ug/l | 2.9 ug/l |
| 77151 | 3-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77146 | 4-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 34396 | Hexachloroethane | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34447 | Nitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 34408 | Isophorone | Grab | N | 3510/8270 | 07/23 00:00 | <2.3 ug/l | 2.3 ug/l |
| 34591 | 2-Nitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 34606 | 2,4-Dimethyl Phenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.1 ug/l | 1.1 ug/l |
| 34278 | Bis(2-Chloroethoxy) Methane | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 77247 | Benzoic Acid | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 78200 | N-Nitrosodiethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <2.8 ug/l | 2.8 ug/l |
| 34601 | 2,4-Dichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 ug/l | 2.6 ug/l |
| 34551 | 1,2,4-Trichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.3 ug/l | 1.3 ug/l |
| 34696 | Naphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <2.3 ug/l | 2.3 ug/l |
| 77954 | 4-Chloroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <6.7 ug/l | 6.7 ug/l |
| 34391 | Hexachlorobutadiene | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 ug/l | 1.9 ug/l |
| 77421 | 4-Chloro-3-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 77418 | 1-Methylnaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 77416 | 2-Methylnaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 ug/l | 2.6 ug/l |
| 34386 | Hexachlorocyclopentadiene | Grab | N | 3510/8270 | 07/23 00:00 | <3.4 ug/l | 3.4 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy

Other: NA

PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 34621 | 2,4,6-Trichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 77687 | 2,4,5-Trichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <5.0 ug/l | 5.0 ug/l |
| 34581 | 2-Chloronaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 30195 | 2-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34341 | Dimethylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 34626 | 2,6-Dinitrotoluene | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34200 | Acenaphthylene | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 78300 | 3-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 34205 | Acenaphthene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 81302 | Dibenzofuran | Grab | N | 3510/8270 | 07/23 00:00 | <1.3 ug/l | 1.3 ug/l |
| 34611 | 2,4-Dinitrotoluene | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34616 | 2,4-Dinitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34646 | 4-Nitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34336 | Diethylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <9.1 ug/l | 9.1 ug/l |
| 34381 | Fluorene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34641 | 4-Chlorophenyl-phenylether | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 30342 | 4-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34657 | 4,6-Dinitro-2-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34433 | N-Nitrosodiphenylamine | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 ug/l | 1.9 ug/l |
| | Azobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34636 | 4-Bromophenyl-phenylether | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 39700 | Hexachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C0086
**Test Site ID #:** NA
**Well Name:** Annual Influent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
or **(MSL):** NA

**Sampling Date/Time:** 07/16/97 14:30
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 39032 | Pentachlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 34461 | Phenanthrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34220 | Anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| | Carbazole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39110 | Di-n-butylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| 34376 | Fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 39120 | Benzidine | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34469 | Pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34292 | Butylbenzylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34526 | Benzo(a)anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34631 | 3,3'-Dichlorobenzidine | Grab | N | 3510/8270 | 07/23 00:00 | <4.8 ug/l | 4.8 ug/l |
| 34320 | Chrysene | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 34346 | 1,2-Diphenylhydrazine | Grab | N | 3510/8270 | 07/23 00:00 | <1.1 ug/l | 1.1 ug/l |
| 39100 | Bis(2-Ethylhexyl)Phthalate | Grab | N | 3510/8270 | 07/23 00:00 | <6.0 ug/l | 6.0 ug/l |
| 34596 | Di-n-octyl phthalate | Grab | N | 3510/8270 | 07/23 00:00 | <2.5 ug/l | 2.5 ug/l |
| 34230 | Benzo(b)fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <5.9 ug/l | 5.9 ug/l |
| 34242 | Benzo(k)fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <2.0 ug/l | 2.0 ug/l |
| 34247 | Benzo(a)pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34403 | Indeno(1,2,3-c,d)pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <5.2 ug/l | 5.2 ug/l |
| 34556 | Dibenzo(a,h)Anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <6.9 ug/l | 6.9 ug/l |
| 34521 | Benzo(g,h,i)perylene | Grab | N | 3510/8270 | 07/23 00:00 | <5.2 ug/l | 5.2 ug/l |
| 81597 | Methyl Methacrylate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 77045 | Pyridine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73570 | Ethyl Methacrylate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73613 | N-Nitrosomethylethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73595 | Methyl Methanesulfonate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 81553 | Acetophenone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78206 | N-Nitrosopyrolidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73619 | N-Nitrosopiperidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA082 | o,o,o-Triethylphosphorothioat | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77541 | 2,6-Dichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78200 | N-Nitrosodi-n-Butylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78727 | Isosafrole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73628 | p-Phenylenediamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77734 | 1,2,4,5-Tetrachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77545 | Safrole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73599 | 1,4-Naphthoquinone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 45622 | 1,2-Dinitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77793 | Pentachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73600 | 1-Naphthylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 82191 | 2-Naphthylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77770 | 2,3,4,6-Tetrachlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73553 | Thionazine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73622 | 5-Nitro-o-Toluidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 77579 | Diphenylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 46313 | Phorate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73540 | Diallate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 70003 | Phenacetin | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 46314 | Dimethoate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77581 | Aminobiphenyl | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39080 | Pronamide | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 81888 | Disulfoton | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73571 | Ethyl Methanesulfonate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 30191 | Dinoseb | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 81316 | Pentachloronitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39600 | Methyl Parathion | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39540 | Parathion | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73589 | Methapyrilene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39430 | Isodrin | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73558 | p-Dimethylaminoazobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39460 | Chlorobenzilate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA030 | 3,3-Dimethylbenzidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA099 | Hexachlorophene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 38462 | Famphur | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 82204 | 2-Acetylaminofluorene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39018 | Kepone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C0086
**Test Site ID #:** NA
**Well Name:** Annual Influent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
or (MSL): NA

**Sampling Date/Time:** 07/16/97 14:30
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | | | |
| 73559 | 7,12-Dimethylbenzo(a)anthrace | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| 73591 | 3-Methylcholanthrene | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| 77142 | o-Toluidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| 73653 | 1,3,5-Trinitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| 73522 | bis(2-Chloro-1-Methylethyl)Et | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| | Dilution Factor | Grab | N | 3510/8270 | 07/23 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 2-Fluorophenol | Grab | N | 3510/8270 | 07/23 00:00 | 61.0 | % | 21-100 | |
| | Phenol-d5 | Grab | N | 3510/8270 | 07/23 00:00 | 78.0 | % | 10-94 | |
| | Nitrobenzene-d5 | Grab | N | 3510/8270 | 07/23 00:00 | 61.0 | % | 35-114 | |
| | 2-Fluorobiphenyl | Grab | N | 3510/8270 | 07/23 00:00 | 71.0 | % | 43-111 | |
| | 2,4,6-Tribromophenol | Grab | N | 3510/8270 | 07/23 00:00 | 79.0 | % | 10-123 | |
| | Terphenyl-d14 | Grab | N | 3510/8270 | 07/23 00:00 | 75.0 | % | 33-141 | |
| **General Chemistry** | | | | | | | | | |
| 00722 | Cyanide | Grab | N | 335.4 | 07/23 00:00 | <0.010 | mg/l | 0.010 | mg/l |
| 71875 | Hydrogen Sulfide | Grab | N | 376.1 | 07/23 00:00 | 1.4 | mg/l | 1.0 | mg/l |
| **Volatiles Appendix II Organic Compounds** | | | | | | | | | |
| 34210 | Acrolein | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 034215 | Acrylonitrile | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 76997 | Acetonitrile | Grab | N | 5030/8260 | 07/22 00:00 | <500 | ug/l | 500 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | |
| 034030 | Benzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 73085 | Bromochloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32101 | Bromodichloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32104 | Bromoform | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 034413 | Bromomethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32102 | Carbon Tetrachloride | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34301 | Chlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34311 | Chloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32106 | Chloroform | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 034418 | Chloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 38760 | 1,2-Dibromo-3-Chloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32105 | Dibromochloromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77596 | Dibromomethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34536 | 1,2-Dichlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34571 | 1,4-Dichlorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34668 | Dichlorodifluoromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34496 | 1,1-Dichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34531 | 1,2-Dichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34501 | 1,1-Dichloroethene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77093 | Cis-1,2-Dichloroethene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34546 | trans-1,2-Dichloroethene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34541 | 1,2-Dichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: Dark
Color: Tan
Turbidity: 16.3
Odor: Medium

**Environmental Conditions**

Wind: E 0-5
Rain: Light
Air (^C): 35
Atmosphere: Cloudy
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | |
| 77173 | 1,3-Dichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77170 | 2,2-Dichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77168 | 1,1-Dichloropropene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34699 | trans-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34704 | Cis-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34371 | Ethylbenzene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 78133 | 4-Methyl-2-Pentanone | Grab | N | 5030/8260 | 07/22 00:00 | <50 ug/l | 50 ug/l |
| 22417 | MTBE | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34423 | Methylene Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <4.0 ug/l | 4.0 ug/l |
| 77128 | Styrene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77562 | 1,1,1,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34516 | 1,1,2,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34475 | Tetrachloroethene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 034010 | Toluene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34506 | 1,1,1-Trichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 39180 | Trichloroethene | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34511 | 1,1,2-Trichloroethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77443 | 1,2,3-Trichloropropane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34488 | Trichlorofluoromethane | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 39175 | Vinyl Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 034020 | Total Xylenes | Grab | N | 5030/8260 | 07/22 00:00 | <1.0 ug/l | 1.0 ug/l |
| 78109 | Allyl Chloride | Grab | N | 5030/8260 | 07/22 00:00 | <1000 ug/l | 1000 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result | Units | Detection Limit | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | | | |
| NA095 | 1,4-Dioxane | Grab | N | 5030/8260 | 07/22 00:00 | <100 | ug/l | 100 | ug/l |
| 77033 | Isobutanol | Grab | N | 5030/8260 | 07/22 00:00 | <1000 | ug/l | 1000 | ug/l |
| NA165 | Propionitrile | Grab | N | 5030/8260 | 07/22 00:00 | <1000 | ug/l | 1000 | ug/l |
| 81597 | Methyl Methacrylate | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 73570 | Ethyl Methacrylate | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 81552 | Acetone | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 77041 | Carbon Disulfide | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 77651 | EDB | Grab | N | 5030/8260 | 07/22 00:00 | <10 | ug/l | 10 | ug/l |
| 077268 | trans-1,4-Dichloro-2-butene | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 77103 | 2-Hexanone | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 81595 | MEK | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 77424 | Iodomethane | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| 81520 | Chloropropene | Grab | N | 5030/8260 | 07/22 00:00 | N/D | ug/l | 1000 | ug/l |
| 81593 | Methacrylonitrile | Grab | N | 5030/8260 | 07/22 00:00 | N/D | ug/l | 1000 | ug/l |
| 77057 | Vinyl Acetate | Grab | N | 5030/8260 | 07/22 00:00 | <50 | ug/l | 50 | ug/l |
| | Dilution Factor | Grab | N | 5030/8260 | 07/22 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 4-Bromofluorobenzene | Grab | N | 5030/8260 | 07/22 00:00 | 122 | % | 76-130 | |
| | Dibromofluoromethane | Grab | N | 5030/8260 | 07/22 00:00 | 102 | % | 58-146 | |
| | Toluene-D8 | Grab | N | 5030/8260 | 07/22 00:00 | 100 | % | 76-119 | |

**EDB/DBCP**

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 7A

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | Dark |
| Color: | Tan |
| Turbidity: | 16.3 |
| Odor: | Medium |

**Environmental Conditions**

| | |
|---|---|
| Wind: | E 0-5 |
| Rain: | Light |
| Air (^C): | 35 |
| Atmosphere: | Cloudy |
| Other: | NA |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C0086
Test Site ID #: NA
Well Name: Annual Influent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/16/97 14:30
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **EDB/DBCP (continued)** | | | | | | | | | |
| 77651 | EDB | Grab | N | 8011 | 07/23 00:00 | <0.020 | ug/l | 0.020 | ug/l |
| 38760 | DBCP | Grab | N | 8011 | 07/23 00:00 | <0.20 | ug/l | 0.20 | ug/l |
| | Dilution Factor | Grab | N | 8011 | 07/23 00:00 | 1.0 | | | |
| **Metals** | | | | | | | | | |
| 001059 | Thallium | Grab | N | SM3113B | 07/21 00:00 | <2.0 | ug/l | 2.0 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

*Florida Department of Environmental Regulation*
Twin Towers Office Bldg. 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-601.900(1)
Form Title Domestic Wastewater Monthly Operating Report
Effective Date July 1, 1991
DER Accession No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) A | B | C | D |
|---|---|---|---|---|---|
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | --- |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | --- |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | --- | --- | --- | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St
Fort Myers, Florida 33901-2896
813 332 6975

Southeast District
3900 S Congress Ave Suite A
West Palm Beach Florida 33406
407 433 2650

DER Form No. 17-601.900(3)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month Sept Year 1997

(2) Plant's DER Identification Number 400900.S6

(3) Plant Name Central Landfill Leachate Plant

(4) Plant Address SR 44 3 MILES E LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

☒ Membrane Filter ☐ Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

☐ Yes ☐ No ☒ Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Blumenthal (Signature) C8197 Cert. No.

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .021 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .014 |
| (19) Percent of permitted capacity | % | — | 63% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 2.0 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 1.75 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 7.1 |
| (25) Maximum pH | | — | 8.1 |
| (26) Total N | mg/L | 000600 | 1.5 |
| (27) TKN | mg/L | 000625 | 1.3 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | BDL |
| (29) Nitrate | mg/L | 071850 | 0.2 |
| (30) Total Phosphorus | mg/L | 000665 | 4.6 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | .7 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 34 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| DER Form | 17-6010001 |
|---|---|
| Form Title | Domestic Wastewater Treatment Plant Monthly Operating Report |
| Effective Date | July 1, 1991 |
| DER Application No. | (Filled in by DER) |

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month Sept Year 97

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | Total N | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 29294 | .5 | | | | | | 7.9 | | | | | | | | | | | | | |
| 2 | 11170 | .6 | | | | | | 7.6 | | | | | | | | | | | | | |
| 3 | 23035 | .5 | | | | | | 7.9 | | | | | | | | | | | | | |
| 4 | 21992 | .5 | | | | 2.0 | BDL | 7.8 | 1.2 | BDL | 0.48 | 5.1 | BDL | 26 | 1.7 | | | | | | |
| 5 | 26359 | .55 | | | | | | 7.6 | | | | | | | | | | | | | |
| 6 | 22569 | .6 | | | | | | 7.7 | | | | | | | | | | | | | |
| 7 | Ø | .6 | | | | | | 7.6 | | | | | | | | | | | | | |
| 8 | 63439 | .5 | | | | | | 7.1 | | | | | | | | | | | | | |
| 9 | 41670 | .66 | | | | | | 7.6 | | | | | | | | | | | | | |
| 10 | 33537 | .69 | | | | | | 7.7 | | | | | | | | | | | | | |
| 11 | 28145 | .5 | | | | 2.0 | BDL | 7.9 | 1.1 | BDL | 0.16 | 4.0 | BDL | 56 | 1.3 | | | | | | |
| 12 | 18331 | .7 | | | | | | 7.8 | | | | | | | | | | | | | |
| 13 | 29640 | .5 | | | | | | 7.9 | | | | | | | | | | | | | |
| 14 | Ø | | | | | | | | | | | | | | | | | | | | |
| 15 | 51239 | .6 | | | | | | 7.7 | | | | | | | | | | | | | |
| 16 | 20454 | .55 | | | | | | 7.9 | | | | | | | | | | | | | |
| 17 | 44580 | .54 | | | | | | 7.6 | | | | | | | | | | | | | |
| 18 | 19709 | .6 | | | | 2.0 | BDL | 8.1 | 1.2 | BDL | BDL | 4.2 | BDL | BDL | 1.2 | | | | | | |
| 19 | 20252 | .64 | | | | | | 8.0 | | | | | | | | | | | | | |
| 20 | 20061 | .5 | | | | | | 7.7 | | | | | | | | | | | | | |
| 21 | Ø | .5 | | | | | | | | | | | | | | | | | | | |
| 22 | 42400 | .5 | | | | | | 8.0 | | | | | | | | | | | | | |
| 23 | 5508 | .7 | | | | | | 8.0 | | | | | | | | | | | | | |
| 24 | 13190 | .65 | | | | | | 7.8 | | | | | | | | | | | | | |
| 25 | 8788 | .5 | | | | 2.0 | 7.0 | 7.6 | 1.8 | BDL | BDL | 5.1 | 210 col/100 | 54 | 1.8 | | | | | | |
| 26 | 19101 | .52 | | | | | | 8.1 | | | | | | | | | | | | | |
| 27 | 15891 | .56 | | | | | | 8.1 | | | | | | | | | | | | | |
| 28 | 0 | | | | | | | | | | | | | | | | | | | | |
| 29 | 22111 | .5 | | | | | | 7.9 | | | | | | | | | | | | | |
| 30 | 7196 | .67 | | | | | | 8.1 | | | | | | | | | | | | | |
| 31 | 0 | | | | | | | | | | | | | | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete and accurate.

Signed: James A. Brunswick Date: _____

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division Telephone No. (Please Type) _____

**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Date:** 09/12/97
**Log #:** L23405-1

**Sample Description:**

Task 6
Weekly Effluent

**Label:** Effluent
**Date Sampled:** 09/04/97
**Time Sampled:** 10:50
**Date Received:** 09/05/97
**Collected By:** Bob Dobworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**General Chemistry (continued)**

BDL = Below Detection Limits
* Compounds are Screened Only, with an estimated detection limit.
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.
All analyses were performed within EPA holding times unless otherwise noted.
Analyses are reported in dry weight unless otherwise indicated by units.

| | | |
|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | ND CERT# R-148 |
| SC CERT# 96031 | TN CERT# 02985 | CT CERT# PH-0122 |
| ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | RI CERT# 191 | MA CERT# M-FL449 |

Respectfully submitted,

Karl Hoffmann

Project Manager

L23405-1

## PARAMETER MONITORING REPORT

Order #: L23405-1
Facility GMS #: 4009C00086
Test Site ID #: NA
Site Name: Weekly Effluent
Well Name: Effluent
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 09/04/97 10:50
Report Period: 1997/WEEKLY
Well Purged: NA
Well Type: NA
Groundwater Class: G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | GRAB | N | SM9222D | 09/04/97 00:00 | <1col/100ml | 1 /100mL |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | GRAB | N | SM5210B | 09/10/97 15:00 | 2.0 mg/l | 2.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | GRAB | N | 120.1 | 09/04/97 10:50 | 1900umhos/cm | |
| 000406 | Field pH | GRAB | N | 150.1 | 09/04/97 10:50 | 7.8 | |
| 000010 | Field Temp | GRAB | N | 170.1 | 09/04/97 10:50 | 30.1 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | GRAB | N | 350.1 | 09/01/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | GRAB | N | 410.4 | 09/10/97 00:00 | 26 mg/l | 10 mg/l |
| 00620 | Nitrate | GRAB | N | 300.0 | 09/05/97 00:00 | 0.48 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | GRAB | N | 300.0 | 09/05/97 00:00 | 0.48 mg/l | 0.10 mg/l |
| 00630 | Total Kjeldahl Nitrogen | GRAB | N | 351.2 | 09/09/97 00:00 | 1.2 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | GRAB | N | CALC | 09/12/97 00:00 | 1.7 mg/l | 0.10 mg/l |
| 00665 | Total Phosphate | GRAB | N | 365.1 | 09/08/97 00:00 | 5.1 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | GRAB | N | 160.2 | 09/06/97 00:00 | <4.0 mg/l | 4.0 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

Client: Citrus Co. SW

Project Name / Number: Effluent Task 6 PWSID#

Site Location: Lecanto, Fl.

| Sample ID: | Sampling Date & Time: | Number of Bottles: |
|---|---|---|
| Effluent | 030497 10:50 | 4 |

| Sample Type: | Sample Matrix: | Sampling Method: | Well Evacuation Method: |
|---|---|---|---|
| GRB | WW | GRB | NA |

| Well Specifications | | Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height | |
|---|---|---|---|
| Diameter | in. | Well Casing Composition: | In Place Plumbing Data |
| Water Level | ft. | GPF(x) −CR Gallons | Plumbing Material |
| Total Depth | ft. | | Purge Flow Rate Gal/min |
| Column Height | ft. | | Purge Time min |
| Column Volume | gal. | | Sample Flow Rate ≈60.0 - 80.0 ml/min |
| Min Evac. | gal. | Well Purged: Dry, or 3x and field tests within 5%, or 3x | |
| Actual | gal. | (+) WATER LEVEL/MSL/NGVD / (-) WATER LEVEL/MSL/NGVD / (-) WATER LEVEL/MSL/NGVD | |

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |
| Purging Comments: | | | | | | |

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 30.1 | |
| Cond. | 1900 | |
| pH | 7.78 | |
| D.O. | — | |
| Additional Test Results: | | |

## Sampling Information

| | Depth | Drums: | |
|---|---|---|---|
| Surface Water | | Type | |
| Soil/Sediments | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 28.5 |
| Wind | W 0-5 |
| Rain | none |
| Atmosphere | pc |
| Other | — |

Additional Information:

Field Filtered? Y or N 0.45um or 1.0um

Fuel Power Unit Downline? Y or N

Field Decon Performed? Y or N

Decon Waste Contained? Y or N

Purge Waste Contained? Y or N

Sampler's Signature: Rob D.

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 23405

## Chain of Custody Record

Quote # _____

Company Name: Citrus County Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL. Zip: 34460
Attn: Cathy Winter Fax #:
Project Name / Number: Weekly Effluent ~~POT~~ Task 6
Sampler Name / Signature: Bob Johnson Phone #:

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont | Parameters: Eff_Task6 | Field Filtered (Y/N) | Integrity OK (Y/N) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Effluent | 050497 | 10:50 | WW | 4 | X | | | Fecal (Sub → Tri-Tech) |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 0 | | | | | | | | | |

LAB ANALYSIS — Sample, pH, Pres Codes

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

**Pres Codes**

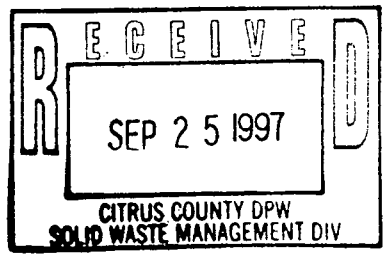
| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

Short Hold: (Y) N
Ice: (Y) N
QA/QC Report Level: None 1 2 3 Other
COC OK: Y (N) Initials: SB
T.A.T. Request: Standard
RUSH: Date required
Custody Seals: Y (N)
Temp Control: Wet Ice
Local Job: Y (N)

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | Bob Johnson | 050497 | 14:45 | Simon Sy | 5.5.97 | 1030 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

C.O.C. # 012844

*Our Quality Control Is Your Quality Assurance*




**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Page:** Page 1 of 2
**Date:** 09/22/97
**Log #:** L23644-1

**Sample Description:**

Weekly Effluent
Task 6

**Label:** Effluent
**Date Sampled:** 09/11/97
**Time Sampled:** 10:25
**Date Received:** 09/11/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| Fecal Coliform | BDL | col/100ml | SM9222D | 1 | 09/11 | 09/11 | RD |
| **Inorganics/Other** | | | | | | | |
| Carbonaceous BOD | 2.0 | mg/l | SM5210B | 2.0 | 09/12 | 09/17 | LH |
| **Field Services** | | | | | | | |
| Conductivity | 1350 | umhos/cm | 120.1 | | 09/12 | 09/12 | BD |
| Field pH | 7.9 | | 150.1 | | 09/12 | 09/12 | BD |
| Field Temp | 28.7 | Deg. C | 170.1 | 0.10 | 09/12 | 09/12 | BD |
| **General Chemistry** | | | | | | | |
| Ammonia | BDL | mg/l | 350.1 | 0.050 | 09/17 | 09/17 | JRG |
| Chemical Oxygen Demand | 56 | mg/l | 410.4 | 10 | 09/19 | 09/19 | JG |
| Nitrate | 0.16 | mg/l | 353.2 | 0.050 | 09/17 | 09/17 | MG |
| Nitrate-Nitrite | 0.16 | mg/l | 353.2 | 0.050 | 09/17 | 09/17 | MG |
| Total Kjeldahl Nitrogen | 1.1 | mg/l | 351.2 | 0.40 | 09/19 | 09/19 | MG |
| Nitrogen, Total | 1.3 | mg/l | CALC | 0.50 | 09/19 | 09/19 | KH |
| Total Phosphate | 4.0 | mg/l | 365.1 | 0.10 | 09/18 | 09/18 | JG |
| Total Suspended Solids | BDL | mg/l | 160.2 | 4.0 | 09/13 | 09/13 | RH |

**Client #:** OLI-97-0516u4
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Date:** 09/22/97
**Log #:** L23644-1

**Sample Description:**

Weekly Effluent
Task 6

**Label:** Effluent
**Date Sampled:** 09/11/97
**Time Sampled:** 10:25
**Date Received:** 09/11/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**General Chemistry (continued)**

BDL = Below Detection Limits
* Compounds are Screened Only, with an estimated detection limit.
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.
All analyses were performed within EPA holding times unless otherwise noted.
Analyses are reported in dry weight unless otherwise indicated by units.

| | | |
|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | ND CERT# R-148 |
| SC CERT# 96031 | TN CERT# 02985 | CT CERT# PH-0122 |
| ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | RI CERT# 191 | MA CERT# M-FL449 |

Respectfully submitted,

Kari Hoffmann

Project Manager

L23644-1

## PARAMETER MONITORING REPORT

Order #: L23644-1
Facility GMS #: 4009C00086
Test Site ID #: NA
Site Name: Task 6
Well Name: Effluent
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 09/11/97 10:25
Report Period: 1997/Weekly
Well Purged: NA
Well Type: NA
Groundwater Class: G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | GRAB | N | SM9222D | 09/11/97 14:50 | <1col/100ml | 1 /100mL |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | GRAB | N | SM5210B | 09/17/97 12:00 | 2.0 mg/l | 2.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | GRAB | N | 120.1 | 09/12/97 00:00 | 1350umhos/cm | |
| 000406 | Field pH | GRAB | N | 150.1 | 09/12/97 00:00 | 7.9 | |
| 000010 | Field Temp | GRAB | N | 170.1 | 09/12/97 00:00 | 28.7 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | GRAB | N | 350.1 | 09/17/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | GRAB | N | 410.4 | 09/19/97 00:00 | 56 mg/l | 10 mg/l |
| 00620 | Nitrate | GRAB | N | 353.2 | 09/17/97 00:00 | 0.16 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | GRAB | N | 353.2 | 09/17/97 00:00 | 0.16 mg/l | 0.050 mg/l |
| 00630 | Total Kjeldahl Nitrogen | GRAB | N | 351.2 | 09/19/97 00:00 | 1.1 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | GRAB | N | CALC | 09/19/97 00:00 | 1.3 mg/l | 0.50 mg/l |
| 00665 | Total Phosphate | GRAB | N | 365.1 | 09/18/97 00:00 | 4.0 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | GRAB | N | 160.2 | 09/13/97 00:00 | <4.0 mg/l | 4.0 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 23644

## Chain of Custody Record

Quote # _____

Company Name: Citrus Co. Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL Zip: 34460
Attn: Cathy Winter Fax #:
Project Name / Number: Weekly Effluent - TASK 6 PO#:
Sampler Name / Signature: Bob Dobert Phone #:

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 091197 | 10:25 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | | | | | | | | | | | | | | | | |
| pH | | | | | | | | | | | | | | | | |
| Pres Codes | | | | | | | | | | | | | | | | |
| Parameters | Eff. Task 6 | | | | | | | | | | | | | | | |
| 1 | X | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

Fecal 5da Tri-Tech

ORIGINAL

Short Hold: Y____ N____
Ice: Y✓ N____
QA/QC Report Level: None____ 1____ 2____ 3____ Other____
COC OK: (Y) N
Initials: LF
T.A.T. Request: Standard
RUSH: 24-7 Date required
Custody Seals: Y (N)
Temp Control: with Ice °C
Local Job: Y (N)

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 9/8/97 | 1203 | Bob Dobert | 091297 | 18:00 |
| 1 | Bob Dobert | 091197 | 18:15 | [signature] | 9/12/97 | 0940 |

C.O.C. # 008153

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1995

Client: Citrus Co SW L23664

Project Name / Number: Effluent Task 6 PWSID#

Site Location: Lecanto, FL

| Sample ID: | Sampling Date & Time: | Number of Bottles: |
|---|---|---|
| Effluent | 05/19/97 10:25 | 4 |

| Sample Type: | Sample Matrix: | Sampling Method: | Well Evacuation Method: |
|---|---|---|---|
| GRB | WW | GRB | NA |

## Well Specifications

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

Well Casing Composition:

GPF(x) -CR Gallons

| In Place Plumbing Data | |
|---|---|
| Plumbing Material | |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ~60.0 - 80.0 ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

| (+) NGVD, MSL/TOC | (-) W/TOC | (-) WATER LEVEL/ MSL/NGVD |
|---|---|---|
| | | |

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |

Purging Comments:

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 28.7 | |
| Cond. | 1350 | |
| pH | 7.88 | |
| D.O. | — | |

Additional Test Results:

## Sampling Information

| | Depth | Drums: | |
|---|---|---|---|
| Surface Water | | Type | |
| Soil/Sediments | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 32.0 |
| Wind | SW 0-5 |
| Rain | none |
| Atmosphere | PC |
| Other | — |
| | |

Additional Information:

Field Filtered? Y or (N) 0.45um or 1.0um

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? Y or (N)

Decon Waste Contained? Y or (N)

Purge Waste Contained? Y or (N)

Sampler's Signature: Bob D.



V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

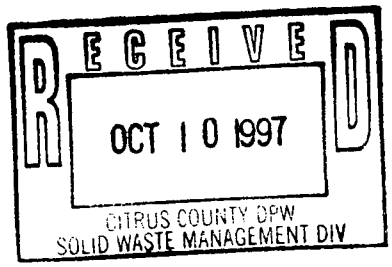
Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340

Log #: L24127

Cathy Winter

Client Project ID: Task 6
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L24127-1 | Effluent |




Respectfully Submitted,

Signature: Kari Hoffmann

Date: 10/6/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

## PARAMETER MONITORING REPORT

**Order #:** L24127-1
**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Site Name:** Task 6
**Well Name:** Effluent
**GW Elevation (NGVD):**
**or (MSL):** NA

**Date Sampled:** 09/25/97 10:40
**Report Period:** 1997/Weekly
**Well Purged:** NA
**Well Type:** NA
**Groundwater Class:** G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 10/01/97 14:30 | 2.0 mg/l | 2.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 09/25/97 10:40 | 1050umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 09/25/97 10:40 | 7.6 | |
| 000010 | Field Temp | Grab | N | 170.1 | 09/25/97 10:40 | 30.0 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.1 | 09/29/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 10/03/97 00:00 | 54 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 09/30/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | Grab | N | 300.0 | 09/30/97 00:00 | <0.50 mg/l | 0.50 mg/l |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 10/03/97 00:00 | 1.8 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | CALC | 10/03/97 00:00 | 1.8 mg/l | 0.10 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.1 | 10/02/97 00:00 | 5.1 mg/l | 0.20 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 09/27/97 00:00 | 7.0 mg/l | 4.0 mg/l |
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 09/25/97 14:40 | 21col/100ml | 1 /100mL |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

BEST AVAILABLE COPY

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1596

Client: Citrus Co. SW

Project Name / Number: Effluent Task 6 PWSID#

Site Location: Lecanto FL

| Sample ID: | Sampling Date & Time: | Number of Bottles: |
|---|---|---|
| Effluent | 09-597 10:40 | 4 |

| Sample Type: | Sample Matrix: | Sampling Method: | Well Evacuation Method: |
|---|---|---|---|
| GRAB | WW | GRAB | NA |

## Well Specifications

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

Well Casing Composition:

GPF(x) -CR Gallons

### In Place Plumbing Data

| | |
|---|---|
| Plumbing Material | |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ≈ 60.0 - 80.0 ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

| NGVD. MSL/TOC | H WL/TOC | (-) WATER LEVEL/ MSL/NGVD |
|---|---|---|
| | | |

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |
| Purging Comments: | | | | | | |

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 30.0 | |
| Cond. | 1050 | |
| pH | 7.64 | |
| D.O. | — | |
| Additional Test Results: | | |

## Sampling Information

| | Depth | | |
|---|---|---|---|
| Surface Water | | Drums: | |
| Soil/Sediments | | Type | |
| | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 28.5 |
| Wind | WD-5 |
| Rain | None |
| Atmosphere | PC |
| Other | — |

Additional Information:

Field Filtered? Y or (N) 0.45um or 1.0um

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? Y or (N)

Decon Waste Contained? Y or (N)

Purge Waste Contained? Y or (N)

Sampler's Signature: BOB D.

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 24127

## Chain of Custody Record

Quote # _____

Company Name Citrus Co. Solid Waste
Address P.O. Box 340
City Lecanto State FL. Zip 34461
Attn: Cathy Winter Fax #
Project Name / Number Eff - Task 6 PO#
Sampler Name / Signature Bob Bobbitt Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 092597 | 10:40 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| Parameters | FECAL | CBOD | COD, $NH_3$, $NO_3$ | TKN, TLP, TLN | $NO_3$, PH, TSS | | | | | | | | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | CBOD | ING | ING | | | | | | | | | | | |
| pH | 7 | 7 | 2 | | | | | | | | | | | |
| Pres Codes | O | A | C | C | A | | | | | | | | | |
| 1 | X | X | X | X | X | | | | | | | | | |

### Matrix Codes *

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

### Pres Codes

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

### REMARKS

Fecal - Sub Tri-Tech

ORIGINAL

Short Hold Y____ N____
Ice Y✓ N____
QA/QC Report Level None____ 1____ 2____ 3____ Other____
COC OK (Y) N Initials LP
T.A.T. Request Standard
RUSH 7 Date required
Custody Seals (Y) N
Temp Control wet ICE
Local Job Y (N)

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | Bob Bobbitt | 092597 | | | 9/26/97 | 1600 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

C.O.C. # 012913

*Our Quality Control Is Your Quality Assurance*

**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
Dept of Technical Services
1300 S. Lecanto Highway
Lecanto, FL 34460
Bob Merkel

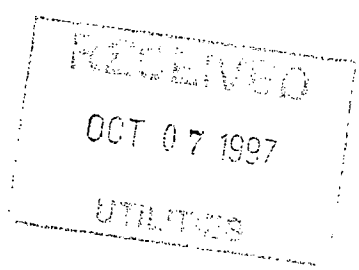

**Date:** 09/29/97
**Log #:** L23903-1

**Sample Description:**

Weekly Effluent
Task 6

**Label:** Effluent
**Date Sampled:** 09/18/97
**Time Sampled:** 10:20
**Date Received:** 09/18/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| Carbonaceous BOD | 2.0 | mg/l | SM5210B | 2.0 | 09/19 | 09/24 | LH |
| **Field Services** | | | | | | | |
| Conductivity | 1650 | umhos/cm | 120.1 | | 09/18 | 09/18 | BD |
| Field pH | 8.1 | | 150.1 | | 09/18 | 09/18 | BD |
| Field Temp | 28.8 | Deg. C | 170.1 | 0.10 | 09/18 | 09/18 | BD |
| **General Chemistry** | | | | | | | |
| Chemical Oxygen Demand | BDL | mg/l | 410.4 | 10 | 09/23 | 09/23 | MG |
| Total Suspended Solids | BDL | mg/l | 160.2 | 4.0 | 09/20 | 09/20 | RH |
| **General Chemistry** | | | | | | | |
| Ammonia | BDL | mg/l | 350.1 | 0.050 | 09/25 | 09/25 | JRG |
| Nitrate | BDL | mg/l | 353.2 | 0.050 | 09/19 | 09/19 | JG |
| Nitrate-Nitrite | BDL | mg/l | 353.2 | 0.050 | 09/19 | 09/19 | JG |
| Total Kjeldahl Nitrogen | 1.2 | mg/l | 351.2 | 0.40 | 09/24 | 09/24 | JG |
| Nitrogen, Total | 1.2 | mg/l | 351.2 | 0.10 | 09/29 | 09/29 | RS |
| Total Phosphate | 4.2 | mg/l | 365.1 | 0.10 | 09/24 | 09/24 | MG |
| **Bacteriological** | | | | | | | |
| Fecal Coliform | BDL | col/100ml | SM9222D | 1 | 09/18 | 09/18 | RD |



**Client #:** OLI-97-05 )4
**Address:** Citrus County Solid Waste
Dept of Technical Services
1300 S. Lecanto Highway
Lecanto, FL 34460
Bob Merkel

**Date:** 09/29/97
**Log #:** L23903-1

**Sample Description:**

Weekly Effluent
Task 6

**Label:** Effluent
**Date Sampled:** 09/18/97
**Time Sampled:** 10:20
**Date Received:** 09/18/97
**Collected By:** Bob Dodsworth

| Parameter | Results | Units | Method | Reportable Limit | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**Bacteriological (continued)**

BDL = Below Detection Limits
* Compounds are Screened Only, with an estimated detection limit.
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.
All analyses were performed within EPA holding times unless otherwise noted.
Analyses are reported in dry weight unless otherwise indicated by units.

QAP# 900376G | HRS# E86240,86356 | NC CERT# 444
SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | ND CERT# R-148
SC CERT# 96031 | TN CERT# 02985 | CT CERT# PH-0122
ELPAT# 13801 | CA CERT# I-1068 | USACE CERT
VA CERT# 00395 | RI CERT# 191 | MA CERT# M-FL449

Respectfully submitted,
Kari Hoffmann
Project Manager
L23903-1

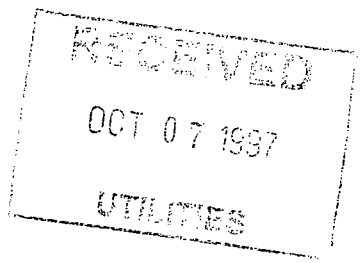
RECEIVED
OCT 07 1997
UTILITIES

## PARAMETER MONITORING REPORT

**Order #:** L23903-1
**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Site Name:** Task 6
**Well Name:** Effluent
**GW Elevation (NGVD):**
**or (MSL):** NA

**Date Sampled:** 09/18/97 10:20
**Report Period:** 1997/Weekly
**Well Purged:** NA
**Well Type:** NA
**Groundwater Class:** G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | GRAB | N | SM5210B | 09/24/97 12:00 | 2.0 mg/l | 2.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | GRAB | N | 120.1 | 09/18/97 00:00 | 1650umhos/cm | |
| 000406 | Field pH | GRAB | N | 150.1 | 09/18/97 00:00 | 8.1 | |
| 000010 | Field Temp | GRAB | N | 170.1 | 09/18/97 00:00 | 28.8 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 00340 | Chemical Oxygen Demand | GRAB | N | 410.4 | 09/23/97 00:00 | <10 mg/l | 10 mg/l |
| 00530 | Total Suspended Solids | GRAB | N | 160.2 | 09/20/97 00:00 | <4.0 mg/l | 4.0 mg/l |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | GRAB | N | 350.1 | 09/25/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00620 | Nitrate | GRAB | N | 353.2 | 09/19/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | GRAB | N | 353.2 | 09/19/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Total Kjeldahl Nitrogen | GRAB | N | 351.2 | 09/24/97 00:00 | 1.2 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | GRAB | N | 351.2 | 09/29/97 00:00 | 1.2 mg/l | 0.10 mg/l |
| 00665 | Total Phosphate | GRAB | N | 365.1 | 09/24/97 00:00 | 4.2 mg/l | 0.10 mg/l |
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | GRAB | N | SM9222D | 09/18/97 00:00 | <1col/100ml | 1 /100mL |




Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 23903

## Chain of Custody Record

Quote # _____

Company Name Citrus Co. Solid Waste
Address P.O. Box 340
City Lecanto State FL. Zip 34460
Attn: Cathy Winter Fax #
Project Name / Number WEEKLY EFFLUENT - TASK 6 PO#
Sampler Name / Signature BoB Robert Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 091897 | 10:20 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| | Parameters | | | | | | | | | | | | | | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | | | | | | | | | | | | | | | | |
| pH | | | | | | | | | | | | | | | | |
| Pres Codes | O | A | A | C | C | | | | | | | | | | | |
| | FilCol | CBOD | NO3, PH, TSS | COD, NH3, PO4 | TKN, T-P, T-N | | | | | | | | | | | |
| 1 | X | X | X | X | X | | | | | | | | | | | |

OCT 07 1997

LABORATORIES

### Matrix Codes *

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

### Pres Codes

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

### REMARKS

Fecal sub → Tri-Tech
(2) 32P
(1) 16P
CBOD TO MICRO
NO3 TO INCS.

ORIGINAL

Short Hold Y ___ N ___
Ice Y ✓ N ___
QA/QC Report Level None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK (Y) N
Initials
T.A.T. Request: Standard
RUSH: Date required
Custody Seals (Y) N
Temp Control 4°C
Local Job (Y) N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | | 9/15/97 | 1135 | BoB Robert | 091197 | 18:30 |
| | BoB Robert | 091897 | 13:50 | | 91497 | 900. |

C.O.C. # 008245

Florida Department of Environmental Regulation
Twin Towers Office Bldg. 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Accession No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | ... |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | ... |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | ... | ... | ... | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St
Fort Myers, Florida 33901-2896
813 332 6975

Southeast District
3900 S Congress Ave, Suite A
West Palm Beach, Florida 33406
407 433 2650

DER Form No. 17-601.900(3)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month August Year 1997

(2) Plant's DER Identification Number 400900.56

(3) Plant Name CENTRAL LANDFILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

☒ Membrane Filter ☐ Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

☐ Yes ☐ No ☒ Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Blumenstock (Signature) C8197 (Cert. No.)

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .015 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .010 |
| (19) Percent of permitted capacity | % | — | 50% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 2.25 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | <4.0 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 6.9 |
| (25) Maximum pH | | — | 8.2 |
| (26) Total N | mg/L | 000600 | 1.4 |
| (27) TKN | mg/L | 000625 | 1.27 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | <.05 |
| (29) Nitrate | mg/L | 071850 | 0.15 |
| (30) Total Phosphorus | mg/L | 000665 | 10.4 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 1.3 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 130.5 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DER Form 17-601(3)(b)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. (Also on DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month August Year 1997

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD | TOTAL N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 8167 | .8 | | | | | | 7.9 | | | | | | | |
| 2 | 6892 | 1.0 | | | | | | 7.8 | | | | | | | |
| 3 | 0 | | | | | | | | | | | | | | |
| 4 | 13546 | 1.0 | | | | | | 7.2 | | | | | | | |
| 5 | 0 | .6 | | | | | | 7.4 | | | | | | | |
| 6 | 8575 | .6 | | | | | | 7.4 | | | | | | | |
| 7 | 9383 | .8 | | | | <2.0 | <4.0 | 7.8 | 2.4 | <.05 | .070 | 17 | <1CFU | 100 | 2.5 |
| 8 | 15132 | .9 | | | | | | 8.2 | | | | | | | |
| 9 | 13111 | .9 | | | | | | 8.2 | | | | | | | |
| 10 | 9689 | .8 | | | | | | 7.4 | | | | | | | |
| 11 | 18594 | .5 | | | | | | 6.9 | | | | | | | |
| 12 | 22836 | .6 | | | | | | 7.7 | | | | | | | |
| 13 | 15152 | .9 | | | | | | 7.8 | | | | | | | |
| 14 | 12339 | .5 | | | | <2.0 | <4.0 | 7.8 | 0.97 | <.05 | <.05 | 8.8 | 7.0CFU | 26 | .97 |
| 15 | 21722 | .6 | | | | | | 7.5 | | | | | | | |
| 16 | 16495 | .5 | | | | | | 7.3 | | | | | | | |
| 17 | 19181 | .6 | | | | | | 7.4 | | | | | | | |
| 18 | 15000 | .5 | | | | | | 7.4 | | | | | | | |
| 19 | 14451 | .6 | | | | | | 7.2 | | | | | | | |
| 20 | 13005 | .5 | | | | | | 7.7 | | | | | | | |
| 21 | 13718 | .6 | | | | 3.0 | <4.0 | 7.4 | .98 | <.05 | <.05 | 7.8 | 3.0CFU | 56 | .98 |
| 22 | 19585 | .7 | | | | | | 7.4 | | | | | | | |
| 23 | 22339 | .8 | | | | | | 7.2 | | | | | | | |
| 24 | 26073 | 1.3 | | | | | | 7.1 | | | | | | | |
| 25 | 16910 | .8 | | | | | | 7.4 | | | | | | | |
| 26 | 3399 | .5 | | | | | | 7.5 | | | | | | | |
| 27 | 26371 | .7 | | | | | | 7.6 | | | | | | | |
| 28 | 14082 | .9 | | | | 3.0 | <4.0 | 7.5 | .74 | <.05 | 0.45 | 8.1 | <1CFU | 340 | 1.2 |
| 29 | 21466 | .6 | | | | | | 7.6 | | | | | | | |
| 30 | 18617 | .9 | | | | | | 7.9 | | | | | | | |
| 31 | 13259 | .8 | | | | | | 7.8 | | | | | | | |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete and accurate.

Signed: James A. Brunswick Date: _____

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division Telephone No. (Please Type) _____

V.O.C. Analytical Laboratories

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# REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L23220

Cathy Winter

Client Project ID: Task 6
Collected By: Michael Patterson

| Laboratory Sample # | Client Sample # |
|---|---|
| L23220-1 | Effluent |




Respectfully Submitted,

Signature: Kari Hoffmann

Date: 9/5/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

Order #: L23220-1 | V.O.C. Analytical Laboratories | Page: Page 1 of 1

Client: Citrus County Solid Waste | Report of Analysis for DEP

Task 6

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: NA
Color: NA
Turbidity: NA
Odor: NA

**Environmental Conditions**

Wind: NA
Rain: NA
Air (^C): NA
Atmosphere: NA

Other: NA

---

**PARAMETER MONITORING REPORT**

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Effluent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 08/28/97 11:20
**Report Period:** 1997/Weekly
**Well Purged:** NA
**Well Type:** NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 09/03 12:00 | 2.0 mg/l | 2.0 mg/l |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 08/28 00:00 | <1cfu/100ml | 1cfu/100ml |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 08/28 00:00 | 1250umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 08/28 00:00 | 7.5 | |
| 000010 | Field Temp | Grab | N | 170.1 | 08/28 00:00 | 29.1 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.1 | 09/02 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 09/02 00:00 | 340 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 08/29 00:00 | 0.45 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | Grab | N | 300.0 | 08/29 00:00 | 0.45 mg/l | 0.10 mg/l |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 09/04 00:00 | 0.74 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | 351.2 | 09/04 00:00 | 1.2 mg/l | 0.50 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.1 | 09/03 00:00 | 8.1 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 08/30 00:00 | <4.0 mg/l | 4.0 mg/l |

---

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

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1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 23220

## Chain of Custody Record

Quote # Q1665

Company Name: Citrus County Dept of SW
Address: P.O. Box 340
City: Lecanto State: FL Zip: 34460-0340
Attn: Cathy Winter Fax #:
Project Name / Number: Weekly Effluent - TASK-6 PO#:
Sampler Name / Signature: [signature] Phone #: 896 6648

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | EFFLUENT | 8/28/97 | 1120 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**LAB ANALYSIS**

| Parameters | Sample | pH | Pres Codes | CBOD | COD | FCLCOL | NH3-N, PH | NO3-N, TKN | TL-N, TL-P | TSS |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 7.0 | A | X | X | X | X | X | X | X |
| | 1 | | C | | | | | | | |
| | 1 | 8.0 | - | | | | | | | |
| | 1 | 2.0 | C | | | | | | | |
| | 1 | 2.0 | C | | | | | | | |
| | 1 | 2.0 | C | | | | | | | |
| | 1 | 7.0 | A | | | | | | | |

Field Filtered (Y/N)
Integrity OK (Y/N)

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

PH = 7.47
TEMP = 29.1
COND = 1250
① 1L P ② 32P
Orlando Field office
Sampling Fee $100.00
CBOD TO LICLO
NO3 TO INC.

ORIGINAL

Short Hold: Y X N
Ice: Y X N
QA/QC Report Level: None X 1 2 3 Other
COC OK: Y N
Initials:
T.A.T. Request: Standard 7 RUSH Date required
Custody Seals: Y N
Temp Control: °C
Local Job: Y N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 8/24/97 | 0953 | [signature] | 8/25/97 | |
| | [signature] | 8/25/97 | 1100 | CW | 8/26/97 | 1500 |
| | | | | [signature] | 8/29/97 | 10 |

C.O.C. # 008049

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# REPORT OF ANALYSIS

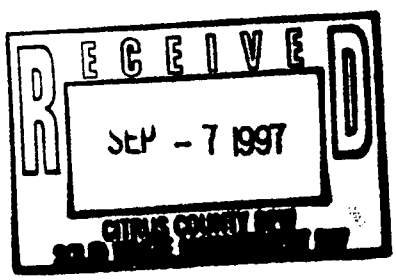
Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L22984

Cathy Winter

Client Project ID: Task 6
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L22984-1 | Effluent |




Respectfully Submitted,

Signature: Kari Hoffmann

Date: 9/2/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

## PARAMETER MONITORING REPORT

Order #: L22984-1
Facility GMS #: 4009C00086
Test Site ID #: NA
Site Name: Task 6
Well Name: Effluent
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 08/21/97 10:45
Report Period: 1997/Weekly
Well Purged: NA
Well Type: NA
Groundwater Class: G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 08/21/97 00:00 | 3.0col/100ml | 1 /100mL |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 08/27/97 12:00 | 3.0 mg/l | 2.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 08/21/97 00:00 | 1650umhos/cm | |
| 000010 | Field Temp | Grab | N | 170.1 | 08/21/97 00:00 | 31.6 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.1 | 08/27/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 09/02/97 00:00 | 56 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 08/22/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | Grab | N | 300.0 | 08/22/97 00:00 | <0.50 mg/l | 0.50 mg/l |
| 00406 | pH | Grab | N | 150.1 | 08/22/97 00:00 | 7.4 | |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 08/28/97 00:00 | 0.98 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | 351.2 | 08/28/97 00:00 | 0.98 mg/l | 0.50 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.1 | 08/26/97 00:00 | 7.8 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 08/23/97 00:00 | <4.0 mg/l | 4.0 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

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V.O.C. Log # 22984

## Chain of Custody Record

Quote # _____

Company Name: Citrus County Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL Zip: 34460
Attn: Cathy Winter Fax #
Project Name / Number: WEEKLY EFFLUENT - TASK 6 PO#
Sampler Name / Signature: BB Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 082197 | 10:45 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| | | | | | | | | | | | | | | | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | | 01 | | 01 | 01 | 01 | | | | | | | | | | |
| pH | | 6 | | 6/2 | 6/2 | 2/6 | | | | | | | | | | |
| Pres Codes | | | | | | | | | | | | | | | | |
| Parameters | Task 6 | CBOD | FECOL | NH3-N, NO3N | OK, TKN, TP-P | TP-P, TSS | | | | | | | | | | |
| | X | X | X | X | X | X | | | | | | | | | | |

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

DATE 08-22-97
TIME 1120
JHC 7-36
DONE BY SS. VOC. BOCA

ORIGINAL

Short Hold: (Y) N
Ice: (Y) N
QA/QC Report Level: None 1 2 3 Other
COC OK: Y (N) Initials
T.A.T. Request: Standard
RUSH: Date required
Custody Seals: (Y) N
Temp Control: 4 °C
Local Job: Y N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 8/19/97 | 1234 | Bob Pollard | 082197 | 17:50 |
| 1 | Bob Pollard | 082197 | 14:05 | [signature] | 8/21/97 | 1500 |
| | [signature] | 8/21/97 | 1600 | CO | 8/21/97 | 1600 |
| | | | | [signature] | 8/22/97 | 1145 |

C.O.C. # 007998

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# REPORT OF ANALYSIS

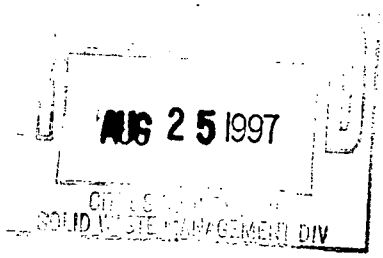
Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L22728

Cathy Winter

Client Project ID: Task 6
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L22728-1 | Effluent |




Respectfully Submitted,

Signature: Kari Hoffmann

Date: 8/21/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

## PARAMETER MONITORING REPORT

Order #: L22728-1
Facility GMS #: 4009C00086
Test Site ID #: NA
Site Name: Task 6
Well Name: Effluent
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 08/14/97 10:50
Report Period: 1997/Weekly
Well Purged: NA
Well Type: NA
Groundwater Class: G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | GRAB | N | SM9222D | 08/18 00:00 | 7.0col/100ml | 1 /100mL |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | GRAB | N | SM5210B | 08/20 18:00 | <2.0 mg/l | 2.0 mg/l |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | GRAB | N | 350.1 | 08/20 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00620 | Nitrate | GRAB | N | 300.0 | 08/15 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | GRAB | N | 300.0 | 08/15 00:00 | <0.10 mg/l | 0.10 mg/l |
| 00630 | Total Kjeldahl Nitrogen | GRAB | N | 351.2 | 08/19 00:00 | 0.97 mg/l | 0.40 mg/l |
| 00665 | Total Phosphate | GRAB | N | 365.1 | 08/19 00:00 | 8.8 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | GRAB | N | 160.2 | 08/16 00:00 | <4.0 mg/l | 4.0 mg/l |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | GRAB | N | 120.1 | 08/14 00:00 | 1850umhos/cm | |
| 000406 | Field pH | GRAB | N | 150.1 | 08/14 00:00 | 7.8 | |
| 000010 | Field Temp | GRAB | N | 170.1 | 08/14 00:00 | 31.4 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 00340 | Chemical Oxygen Demand | GRAB | N | 410.4 | 08/20 00:00 | 26 mg/l | 10 mg/l |
| **General Chemistry** | | | | | | | |
| 00600 | Nitrogen, Total | GRAB | N | SM4500N | 08/19 00:00 | 0.97 mg/l | 0.50 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

Client: Citrus County Solid Waste

Project Name / Number: Effluent Task 6 PWSID#

Site Location: Lecanto, FL.

| Sample ID: | Sampling Date & Time: | Number of Bottles: |
|---|---|---|
| Effluent | 081497 10:50 | 4 |

| Sample Type: | Sample Matrix: | Sampling Method: | Well Evacuation Method: |
|---|---|---|---|
| GRB | WW | GRB | NA |

## Well Specifications

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

Well Casing Composition:

GPF(x) -CR Gallons

### In Place Plumbing Data

| | |
|---|---|
| Plumbing Material | |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ~60.0-80.0 ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

| NGVD. MSL/TOC | (+) WL/TOC | (-) WATER LEVEL/ MSL.NGVD |
|---|---|---|
| | | |

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |
| Purging Comments: | | | | | | |

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 31.4 | |
| Cond. | 1850 | |
| pH | 7.75 | |
| D.O. | — | |
| Additional Test Results: | | |

## Sampling Information

| | Depth | Drums: | |
|---|---|---|---|
| Surface Water | | Type | |
| Soil/Sediments | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 32.5 |
| Wind | W 0-5 |
| Rain | None |
| Atmosphere | PC |
| Other | |

Additional Information:

Field Filtered? Y or (N) 0.45um or 1.0um

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? Y or (N)

Decon Waste Contained? Y or (N)

Purge Waste Contained? Y or (N)

Sampler's Signature: Bob D. Bob Poteet

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

**SHORT-HOLD**

V.O.C. Log # 122728

## Chain of Custody Record

Quote # _____

Company Name: Citrus County Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL. Zip: 34460
Attn: Cathy Winter Fax #
Project Name / Number: WEEKLY EFFLUENT - TASK 6 PO#
Sampler Name / Signature: Bob Robert Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 081497 | 10:50 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**LAB ANALYSIS**

| Parameters | 1 | 2 | 3 | | | | | | | | | | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | CBOD | ZNC | ING | | | | | | | | | | | |
| pH | 7 | 2 | 7 | | | | | | | | | | | |
| Pres Codes | O | A | C | A | | | | | | | | | | |
| | FCLCOL | CBOD | COD, $NH_3$-N, $NO_3$-N, TKN, TL-N, TL-P | $NO_3$-N, PH, TSS | | | | | | | | | | |
| 1 | X | X | X | X | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

PH@ 7.56
8115197 1225 by L.P.

ORIGINAL

Short Hold: Y ✓ N ___
Ice: Y ✓ N ___
QA/QC Report Level: None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK: O N
Initials: BR
T.A.T. Request: Standard
RUSH: 97 Date required
Custody Seals: Y (N)
Temp Control: wet ice C
Local Job: (Y) N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 8/14/97 | 1253 | Bob Robert | 081397 | 17:00 |
| | Bob Robert | 081497 | 13:53 | [signature] | 8/15/97 | 1218 |

**C.O.C. # 007931**



V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L22482

Cathy Winter

Client Project ID: Task 6
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L22482-1 | Effluent |

AUG 18 1997

DIV

Respectfully Submitted,

Signature: Kari Hoffman

Date: 8/14/97

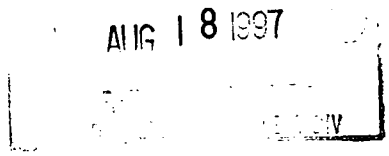
| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

## PARAMETER MONITORING REPORT

**Order #:** L22482-1
**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Site Name:** Task 6
**Well Name:** Effluent
**GW Elevation (NGVD):**
**or (MSL):** NA

**Date Sampled:** 08/07/97 10:55
**Report Period:** 1997/Weekly
**Well Purged:** NA
**Well Type:** NA
**Groundwater Class:** G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 08/13/97 12:00 | 2.0 mg/l | 2.0 mg/l |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 08/08/97 00:00 | <1cfu/100ml | 1cfu/100ml |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.1 | 08/13/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 08/11/97 00:00 | 100 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 08/08/97 00:00 | 0.070 mg/l | 0.050 mg/l |
| 00406 | pH | Grab | N | 150.1 | 08/08/97 00:00 | 7.8 | 0.10 |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 08/13/97 00:00 | 2.4 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | Calc. | 08/14/97 00:00 | 2.5 mg/l | 0.040 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.2 | 08/12/97 00:00 | 17 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 08/09/97 00:00 | <4.0 mg/l | 4.0 mg/l |




Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

L-22482

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # L 22482

## Chain of Custody Record

Quote # _____

Company Name: Citrus Co. Department of Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL Zip: 34460
Attn: Cathy Winter Fax #
Project Name / Number: ~~BAB~~ PO#
Sampler Name / Signature: Weekly EFFLUENT - TASK 6 Bob Bolant Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 080797 | 10:55 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**LAB ANALYSIS**

| Parameters | CBOD | COD, $NH_3$-N, $NO_3$-N TKN, TL-N, TL-P | FCLCOL | $NO_3$-N, PH, TSS |
|---|---|---|---|---|
| Sample | 01 | 01 | | 01 |
| pH | 6 | ✓ | | 6 |
| Pres Codes | A | C | O | A |
| Sample 1 | X | X | X | X |

Field Filtered (Y/N)

Integrity OK (Y/N)

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

DATE 8/8/97
TIME 1300
pH = 7.76
DOH by SI. FOC 1304

ORIGINAL

| Short Hold | Ice | Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|
| (Y) N | (Y) N | 1 | E Pruitt | 8/5/97 | 0933 | Bob Bolant | 080797 | 8:00 |
| QA/QC Report Level: None 1 2 3 Other | COC OK: Y (N) | | Bob Bolant | 080797 | 2000 | CD | 080797 | 2000 |
| T.A.T. Request: Standard | RUSH: Date required | Custody Seals: (Y) N | Temp Control: 1.5°C | Local Job: Y (N) | | | | |
| | | | | | | | 8/8/97 | 1330 |

C.O.C. # 007867

BEST AVAILABLE COPY

*Florida Department of Environmental Regulation*
Twin Towers Office Bldg. 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-601.900(1)
Form Title Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date July 1, 1991
DER Accession No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part I - Instructions

(1) Enter the month and the year of this report.

(2) Enter the plant's DER identification number (also known as the GMS number). This number should be obtained from the FDER District Office issuing the permit and will remain the same throughout the life of the plant.

(3)-(7) Enter the plant's name, address, city, county, and phone number.

(8) Enter the plant's current State of Florida permit number.

(9) Enter one digit and one letter code to indicate the type of treatment and the plant size. First record the number from 1 to 4 that indicates the type of treatment. Then record the letter A to D that indicates the plant size as shown below.

| | Type of Treatment | Plant Size (mgd) A | B | C | D |
|---|---|---|---|---|---|
| 1 | Activated Sludge, Attached Growth, or Combined Treatment systems that include nutrient removal processes. (Nitrification alone is not considered nutrient removal.) | ≥3.0 | ≥0.5 but <3.0 | ≥0.002 but <0.5 | ... |
| 2 | Activated Sludge or Combined Treatment systems that do not include nutrient removal processes. | ≥5.0 | ≥1.0 but <5.0 | ≥0.002 but <1.0 | ... |
| 3 | Activated Sludge operated in the extended aeration mode. | ≥8.0 | ≥2.0 but <8.0 | ≥0.025 but <2.0 | ≥0.002 but <0.025 |
| 4 | Attached Growth Treatment systems (trickling filters or RBC's) that do not include nutrient removal processes. | ≥10.0 | ≥3.0 but <10.0 | ≥0.025 but <3.0 | ≥0.002 but <0.025 |
| 5 | Septic tank or other on-site waste treatment systems with subsurface disposal. | ... | ... | ... | ≥0.005 |

(10) Enter the test site identification number.

(11) Check the type of fecal coliform sample method used.

(12) Enter the type of effluent disposal or reclaimed water reuse (e.g., surface water discharge, ocean outfall, slow rate land application-public access, slow rate land application-restricted public access, rapid rate land application, absorption field, under ground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.860(5), F.A.C., check not applicable. If the plant has a wet weather discharge permitted and did not activate the discharge during the reporting month, check no. If the plant activated the wet weather discharge during the reporting month, check yes and attach DER Form 17-601.900(2), F.A.C.

(14) Enter the total number of days during the current calendar year that the limited wet weather discharge was activated, if applicable.

(15) Enter the operator Class A, B, C, or D and the certification number of the operator who will have responsibility for the plant or shift for the majority of the time. For example, in shift rotations, enter the operator who will cover that shift most of the time throughout the year. The lead operator is usually in charge of the day shift. Note: This form must be signed by the lead operator as defined in Rule 17-602.200(11).

(16) Enter the monthly average daily flow in mgd, recorded to three significant figures.

(17) Enter the permitted capacity in mgd, recorded to three significant figures.

(18) Enter the three month average daily flow as defined in Rule 17-601.200(46) in mgd, recorded to three significant figures.

(19) Enter the percent the three month average daily flow is of the permitted capacity.

(20) Enter the average monthly $CBOD_5$ of the effluent as recorded in Item 34.

(21) Enter the average monthly $CBOD_5$ of the effluent in lbs/day if required by permit.

(22) Enter the average monthly TSS of the effluent in mg/L as recorded in Item 34.

(23) Enter the average monthly TSS of the effluent in lbs/day if required by permit.

(24) Enter the minimum monthly pH of the effluent recorded to the nearest 0.1.

(25) Enter the maximum monthly pH of the effluent recorded to the nearest 0.1.

(26)-(30) Enter the results of the nutrient analysis in mg/L as required by the permit.

(31) Enter the minimum value of total chlorine residual (mg/L to nearest 0.1) measured for disinfection effectiveness after chlorine contact as recorded in Item 34.

(32) If applicable, enter the maximum value of total chlorine residual (mg/L to nearest 0.01) measured after dechlorination for dechlorination effectiveness as recorded in Item 34.

(33) This space is provided for plants which may have additional reporting requirements (i.e., dissolved oxygen).

(34) Record parameters as directed by Chapter 17-600, F.A.C., this chapter, and the permit. Record units as indicated on the form (e.g., mgd, mg/L, lbs/day, etc.) Use blank columns as needed. If there are no fecal coliforms detected, enter ND in the column labeled fecal coliform.



Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
7825 Baymeadows, Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

Central District
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St
Fort Myers, Florida 33901-2896
813 332 6975

Southeast District
1900 S Congress Ave, Suite A
West Palm Beach, Florida 33406
407 433 2650

DER Form No. 17-601.900(1)
Form Title: Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

## Part II - General Information

(1) Month July Year 1997

(2) Plant's DER Identification Number 400900,S6

(3) Plant Name CENTRAL LANDFILL LEACHATE PLANT

(4) Plant Address SR 44 3 MILES E LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number (352) 746-2694

(8) Permit Number S-009-187229

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

[X] Membrane Filter [ ] Most Probable Number

(12) Type of Effluent Disposal or Reclaimed Water Reuse N/A

(13) Limited Wet Weather Discharge Activated

[ ] Yes [ ] No [X] Not Applicable

(14) Cumulative Days of Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator James A. Blumenstock (Signature) 8197 (Cert. No.)

| Parameter | Units | STORET Code | Value |
|---|---|---|---|
| (16) Monthly average daily flow | mgd | 050053 | .006 |
| (17) Permitted capacity | mgd | — | .030 |
| (18) Three-month average daily flow | mgd | — | .008 |
| (19) Percent of permitted capacity | % | — | 18% |
| (20) $CBOD_5$ Effluent | mg/L | 080082 | 2.2 |
| (21) $CBOD_5$ Effluent | lbs/day | — | N/A |
| (22) TSS Effluent | mg/L | 900201 | 9.0 |
| (23) TSS Effluent | lbs/day | — | N/A |
| (24) Minimum pH | | — | 7.0 |
| (25) Maximum pH | | — | 8.1 |
| (26) Total N | mg/L | 000600 | 2.75 |
| (27) TKN | mg/L | 000625 | 2.75 |
| (28) Ammonia ($NH_3$ - N) | mg/L | 000610 | 0.12 |
| (29) Nitrate | mg/L | 071850 | 0.06 |
| (30) Total Phosphorus | mg/L | 000665 | 15.2 |
| (31) Minimum Chlorine Residual | mg/L | — | .5 |
| (32) Maximum Chlorine Residual | mg/L | — | 1.3 |
| (33) Other Effluent Parameters | | | N/A |
| COD | mg/L | | 162 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

DER Form 17-601(30)(3) Domestic Wastewater Residuals Page Monthly Operating Report
Effective Date: July 1, 1991
DER Application No. (Also on Cover)

SOLID WASTE LEACHATE TREATMENT FACILITY

# Monthly Operating Report

(34)

Month July Year 97

| Day of the Month | Flow (mgd) | Chlorine Residual after Contact | Chlorine Residual after Dechlorination | $CBOD_5$ Influent (mg/L) | TSS Influent (mg/L) | $CBOD_5$ Effluent (mg/L) | TSS Effluent (mg/L) | pH Effluent | TKN Effluent (mg/L) | $NH_3$ - N Effluent (mg/L) | Nitrate Effluent (mg/L) | Total P Effluent (mg/L) | Fecal Coliform (#/100ml) | COD TOTAL | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | .5 | | | | | | 7.6 | | | | | | | |
| 2 | 13803 | .5 | | | | 3.0 | 10 | 7.9 | 4.3 | .16 | <0.05 | 14 | ABSENT | 200 | 4.3 |
| 3 | 2397 | .8 | | | | | | 7.7 | | | | | | | |
| 4 | 8772 | .6 | | | | | | 7.7 | | | | | | | |
| 5 | 6002 | .6 | | | | | | 7.7 | | | | | | | |
| 6 | | | | | | | | Ø | | | | | | | |
| 7 | 11614 | .7 | | | | | | 7.8 | | | | | | | |
| 8 | 5783 | 1.3 | | | | | | 7.8 | | | | | | | |
| 9 | 4030 | .5 | | | | | | 7.8 | | | | | | | |
| 10 | 2748 | .5 | | | | 2.0 | 8.0 | 7.8 | 3.2 | 0.05 | BDL | 14 | ABSENT | 200 | 3.2 |
| 11 | 7727 | .9 | | | | | | 7.5 | | | | | | | |
| 12 | 2982 | 1.0 | | | | | | 7.6 | | | | | | | |
| 13 | | | | | | | | Ø | | | | | | | |
| 14 | 11559 | .5 | | | | | | 8.0 | | | | | | | |
| 15 | 19519 | .8 | | | | | | 8.0 | | | | | | | |
| 16 | 819 | .5 | | | | | | 7.3 | | | | | | | |
| 17 | 4780 | .7 | | | | <2.0 | 11 | 7.0 | 0.76 | 0.23 | <0.05 | 18 | <1 CFU | 160 | .76 |
| 18 | 7546 | .7 | | | | | | 7.1 | | | | | | | |
| 19 | 4872 | .9 | | | | | | 7.8 | | | | | | | |
| 20 | | | | | | | | Ø | | | | | | | |
| 21 | 9239 | .5 | | | | | | 8.1 | | | | | | | |
| 22 | 6558 | .5 | | | | | | 7.9 | | | | | | | |
| 23 | 8073 | .7 | | | | | | 8.0 | | | | | | | |
| 24 | 12527 | .9 | | | | <2.0 | 12 | 8.0 | 2.9 | .11 | <0.05 | 14 | <1 CFU | 140 | 2.9 |
| 25 | 682 | 1.0 | | | | | | 7.9 | | | | | | | |
| 26 | 4591 | 1.0 | | | | | | 8.0 | | | | | | | |
| 27 | | | | | | | | Ø | | | | | | | |
| 28 | 14414 | .9 | | | | | | 7.9 | | | | | | | |
| 29 | 11132 | .8 | | | | | | 7.7 | | | | | | | |
| 30 | 2287 | .9 | | | | | | 7.8 | | | | | | | |
| 31 | 2679 | .9 | | | | <2.0 | <4.0 | 7.6 | 2.6 | <0.05 | <0.10 | 16 | 1.0 4CF | 110 | 2.6 |

Lead Operator: This is to certify that I am familiar with the information contained in this report and that to the best of my knowledge and belief, this information is true, complete and accurate.

Signed: James A. Brunswick Date: 8/24/97

Name (Please Type) James A. Brunswick

Company Name Citrus County Utility Division Telephone No. (Please Type)

V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

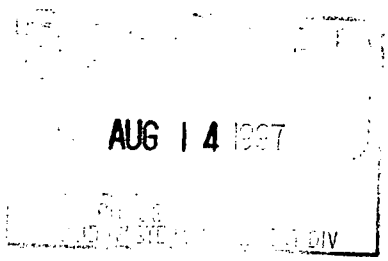
Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L22268

Cathy Winter

Client Project ID: Weekly Effluent
Collected By: Bob Dodsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L22268-1 | Effluent |




Respectfully Submitted,

Signature: Lori Hoffman

Date: 8/11/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

Client #: OLI-97-051604
Client: Citrus County Solid Waste

**V.O.C. Analytical Laboratories**
**Report of Analysis for DER**



**PARAMETER MONITORING REPORT**

**Order #:** L22268-1
**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Site Name:** Weekly Effluent
**Well Name:** Effluent
**GW Elevation (NGVD):**
**or (MSL):** NA

**Date Sampled:** 07/31/97 10:40
**Report Period:** 1997/Weekly
**Well Purged:** NA
**Well Type:** NA
**Groundwater Class:** G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 08/06/97 15:00 | <2.0 mg/l | 2.0 mg/l |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 07/31/97 00:00 | 1.0 Ucfu/100ml | 1cfu/100ml |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.1 | 08/06/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 08/06/97 00:00 | 110 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 08/01/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | Grab | N | 300.0 | 08/01/97 00:00 | <0.10 mg/l | 0.10 mg/l |
| 00406 | pH | Grab | N | 150.1 | 08/02/97 00:00 | 7.6 | 0.10 |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 08/08/97 00:00 | 2.6 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | Calc. | 08/11/97 00:00 | 2.6 mg/l | 0.040 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.2 | 08/05/97 00:00 | 16 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 08/02/97 00:00 | <4.0 mg/l | 4.0 mg/l |

AUG 14 1997
DIV

Well development: pumping the well prior to sampling to obtain representative ground water samples.
DER form 17-522.900(2) Effective: April, 1994

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

Client: Citrus Co. Solid Waste

Project Name / Number: Weekly Effluent PWSID#

Site Location: Lecanto, FL

| Sample ID: | Sampling Date & Time: | Number of Bottles: |
|---|---|---|
| Effluent | 07/15/97 10:40 | 4 |

| Sample Type: | Sample Matrix: | Sampling Method: | Well Evacuation Method: |
|---|---|---|---|
| GRAB | WW | GRAB | N/A |

## Well Specifications

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

Well Casing Composition:

GPF(x) -CR Gallons

### In Place Plumbing Data

| | |
|---|---|
| Plumbing Material | |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ≈80-100 ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

MSL/TOC | (-) WL/TOC | (=) WATER LEVEL/ MSL/NGVD

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |

Purging Comments:

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 32.3 | |
| Cond. | 2000 | |
| pH | 7.60 | |
| D.O. | — | |

Additional Test Results:

## Sampling Information

| | Depth | | |
|---|---|---|---|
| | | Drums: | |
| Surface Water | | Type | |
| Soil/Sediments | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 35.0 |
| Wind | WSW-5 |
| Rain | None |
| Atmosphere | PC |
| Other | |

Additional Information:

AUG 14 1997

Field Filtered? Y or (N) 0.45um or 1.0um

Fuel Power Unit Downline? (Y) or N

Field Decon Performed? Y or (N)

Decon Waste Contained? Y or (N)

Purge Waste Contained? Y or (N)

Sampler's Signature: BOB D Bob Dehart

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

**SHORT-HOLD**

V.O.C. Log # 22268

## Chain of Custody Record

Quote # _____

Company Name: Citrus County Department of Solid Waste
Address: P.O. Box 340
City: Lecanto State: Fl. Zip: 34460
Attn: Cathy Winter Fax #
Project Name / Number: Weekly Effluent PO# Task 6
Sampler Name / Signature: BoB Rodmont Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 073197 | 10:40 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**LAB ANALYSIS**

| Parameters | Sample | pH | Pres Codes |
|---|---|---|---|
| Fecal Coliform | 1 | 7 | O |
| CBOD | 1 | 2 | A |
| pH, NO3-N, TSS | 1 | 7 | A |
| TP-P, TP-N, TKN | | | C |
| COD, Nitrite-N, NO3-N | | | C |

| # | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

AUG 4 1997

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

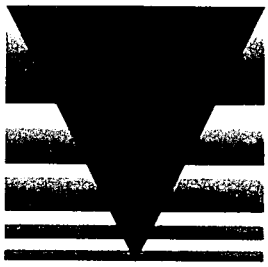
**REMARKS**

ORIGINAL

Short Hold: Y ✓ N ____
Ice: Y ✓ N ____
QA/QC Report Level: None ____ 1 ____ 2 ____ 3 ____ Other ____
COC OK: (Y) N
Initials: LP
T.A.T. Request: Standard
RUSH: 4 7 Date required
Custody Seals: (Y) N
Temp Control: 4°C
Local Job: Y (N)

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | BoB Rodmont | 073197 | 13:50 | [illegible] Paul | 8/1/97 | 1004 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**C.O.C. # 012730**



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# V.O.C. Analytical Laboratories

## REPORT OF ANALYSIS

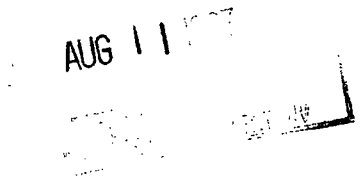
Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L22026

Cathy Winter

Client Project ID: Task 6
Collected By: Bob Dobsworth

| Laboratory Sample # | Client Sample # |
|---|---|
| L22026-1 | Effluent |




Respectfully Submitted,

Signature: Karl Hoffmann

Date: 8/6/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

Order #: L22026-1
Client: Citrus County Solid Waste

**V.O.C. Analytical Laboratories**
**Report of Analysis for DER**



**Task 6**

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | LIGHT |
| Color: | TAN |
| Turbidity: | LIGHT |
| Odor: | LIGHT |

**Environmental Conditions**

| | |
|---|---|
| Wind: | 0-5 W |
| Rain: | NONE |
| Air (^C): | 30.8 |
| Atmosphere: | PC |

Other: NA

**PARAMETER MONITORING REPORT**

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/24/97 10:50
Report Period: 1997/Weekly
Well Purged: NA
Well Type:

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | GRAB | N | SM9222D | 07/24/97 15:10 | <1cfu/100ml | 1 /100mL |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | GRAB | N | 120.1 | 07/24/97 10:50 | 2050umhos/cm | |
| 000406 | Field pH | GRAB | N | 150.1 | 07/24/97 10:50 | 8.1 | |
| 000010 | Field Temp | GRAB | N | 170.1 | 07/24/97 10:50 | 30.5 Deg. C | 0.10 |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | GRAB | N | SM5210B | 07/30/97 12:00 | <2.0 mg/l | 2.0 mg/l |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | GRAB | N | 350.3 | 07/31/97 00:00 | 0.11 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | GRAB | N | 410.4 | 07/30/97 00:00 | 140 mg/l | 10 mg/l |
| 00620 | Nitrate | GRAB | N | 300.0 | 07/25/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00406 | pH | GRAB | N | 150.1 | 07/28/97 00:00 | 8.0 | 0.10 |
| 00630 | Total Kjeldahl Nitrogen | GRAB | N | 351.2 | 07/30/97 00:00 | 2.9 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | GRAB | N | Calc. | 08/01/97 00:00 | 2.9 mg/l | 0.040 mg/l |
| 00665 | Total Phosphate | GRAB | N | 365.2 | 08/05/97 00:00 | 14 mg/l | 0.10 mg/l |
| 00530 | Total Suspended Solids | GRAB | N | 160.2 | 07/27/97 00:00 | 12 mg/l | 4.0 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

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1-(888)VOC-LABS • FAX 1-(888)456-4846

SHORT-HOLD

## Chain of Custody Record

V.O.C. Log # L-22026

Quote # _____

Company Name: Citrus County Department of Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL. Zip: 34460
Attn: Cathy Winter Fax #
Project Name / Number: Task 6 PO#
Sampler Name / Signature: Bob Robert Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 072497 | 10:50 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| Parameters | | | | | | | | | | | | | | | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | | 01 | 01 | 01 | 01 | | | | | | | | | | | |
| pH | | 6 | 6 | 2 | 2 | | | | | | | | | | | |
| Pres Codes | D | A | A | C | C | | | | | | | | | | | |
| Fecal Coliform | X | | | | | | | | | | | | | | | |
| cBOD | | X | | | | | | | | | | | | | | |
| ph, $NO_3$-N, TSS | | | X | | | | | | | | | | | | | |
| COD, $NH_3$-N, $NO_3$N | | | | X | | | | | | | | | | | | |
| TKN, TL-P | | | | | X | | | | | | | | | | | |

### Matrix Codes *

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

### Pres Codes

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

### REMARKS

DATE 7-25-97
TIME 1415
pH 8.17
DONE BY S.S. VOC BOCA

ORIGINAL

Short Hold: Y ___ N ___
Ice: Y ___ N ___
QA/QC Report Level: None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK: Y
Initials:
T.A.T. Request: Standard
RUSH: Date required
Custody Seals: Y N
Temp Control: ___ C
Local Job: Y

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | Bob Robert | 072497 | 13:00 | Bob Robert | 072497 | 13:00 |
| | Bob Robert | 072497 | 13:45 | CD | 72497 | 1540 |
| | | | | | | |
| | | | | S Sy | 7/25/97 | 1500 |

C.O.C. # 012690

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

Client: Citrus Co. Solid Waste PWSID#

Project Name / Number: Weeklies Task 6

Site Location: Lecanto, FL.

Sample ID: Effluent

Sampling Date & Time: 072497 10:50

Number of Bottles: 4

Sample Type: GRB

Sample Matrix: WW

Sampling Method: GRB

Well Evacuation Method: N/A

## Well Specifications

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

Well Casing Composition:

GPF(x) =CR Gallons

## In Place Plumbing Data

| | |
|---|---|
| Plumbing Material | |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ~60-80 ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

NGVD. MSL/TOC | H WL/TOC | (-) WATER LEVEL/ MSL,NGVD

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | | | | | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |

Purging Comments:

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 30.5 | |
| Cond. | 2050 | |
| pH | 8.11 | |
| D.O. | — | |

Additional Test Results:

## Sampling Information

| | Depth | Drums: | |
|---|---|---|---|
| Surface Water | | Type | |
| Soil/Sediments | | Contents | |
| | | Layer Sampled | |
| Wastewater: | | | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | Light |
| Color | Tan |
| Turbidity | Light |
| Odor | Light |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | 30.8 |
| Wind | W 0-5 |
| Rain | none |
| Atmosphere | PC |
| Other | |

Additional Information:

Field Filtered? Y or (N) 0.45um or 1.0um

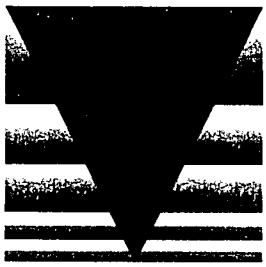
Fuel Power Unit Downline? (Y) or N

Field Decon Performed? Y or (N)

Decon Waste Contained? Y or (N)

Purge Waste Contained? Y or (N)

Sampler's Signature: BOB D. Bob Dubert



*Our Quality Control Is Your Quality Assurance*

# V.O.C. Analytical Laboratories

## REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21766

Cathy Winter

Client Project ID: Task 6 Quart. Eff.
Collected By: Michael Patterson

| Laboratory Sample # | Client Sample # |
|---|---|
| L21766-1 | Effluent |

AUG 11

Respectfully Submitted,

Signature: Kathleen Hamm

Date: 8/7/95

QAP# 900376G
SUB HRS# 86122,86109,E86048
CT CERT# PH-0122
VA CERT# 00395

HRS# E86240,86356
ADEM ID# 40850
ELPAT# 13801
AZ CERT# AZ0529

NC CERT# 444
SC CERT# 96031
CA CERT# I-1068
MA CERT# M-FL449

ND CERT# R-148
TN CERT# 02985
USACE CERT

Task 6 Quart. Eff.

Quarterly effluent testing

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | NA |
| Color: | NA |
| Turbidity: | NA |
| Odor: | NA |

**Environmental Conditions**

| | |
|---|---|
| Wind: | NA |
| Rain: | NA |
| Air (^C): | NA |
| Atmosphere: | NA |

Other: NA

## PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: NA
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/2nd Quarter
Well Purged: NA
Well Type: NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **THM Compounds** | | | | | | | | | |
| 32101 | Bromodichloromethane | Grab | N | 524.2 | 07/26 00:00 | 40 | ug/l | 0.50 | ug/l |
| 32104 | Bromoform | Grab | N | 524.2 | 07/26 00:00 | 17 | ug/l | 0.50 | ug/l |
| 32106 | Chloroform | Grab | N | 524.2 | 07/26 00:00 | 24 | ug/l | 0.50 | ug/l |
| 32105 | Dibromochloromethane | Grab | N | 524.2 | 07/26 00:00 | 34 | ug/l | 0.50 | ug/l |
| 82080 | Total THM's | Grab | N | 524.2 | 07/26 00:00 | 115 | ug/l | 0.50 | ug/l |
| | Dilution Factor | Grab | N | 524.2 | 07/26 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 4-Bromofluorobenzene | Grab | N | 524.2 | 07/26 00:00 | 96.0 | % | - | |
| **Metals** | | | | | | | | | |
| 001045 | Iron | Grab | N | 3010/6010 | 07/21 00:00 | 720 | ug/l | 50 | ug/l |
| 71900 | Mercury | Grab | N | 245.2 | 07/23 00:00 | <0.50 | ug/l | 0.50 | ug/l |
| 000929 | Sodium - can exceed | Grab | N | 3010/6010 | 07/21 00:00 | 390000 | ug/l | 500 | ug/l |
| **BTEX Compounds** | | | | | | | | | |
| 034030 | Benzene | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 034010 | Toluene | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 34371 | Ethylbenzene | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 034020 | Total Xylenes | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| | Total BTEX | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 22417 | MTBE | Grab | N | 5030/8020 | 07/23 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| | Dilution Factor | Grab | N | 5030/8020 | 07/23 05:22 | 1.0 | | | |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 6 Quart. Eff.

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: NA
Color: NA
Turbidity: NA
Odor: NA

**Environmental Conditions**

Wind: NA
Rain: NA
Air (^C): NA
Atmosphere: NA
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: NA
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/~~2nd~~ 3rd Quarter
Well Purged: NA
Well Type: NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **BTEX Compounds (continued)** | | | | | | | | | |
| | Surrogate Recoveries: | | | | | | | | |
| | a,a,a-Trifluorotoluene | Grab | N | 5030/8020 | 07/23/97 05:22 | 113 | % | 50-150 | |
| **Field Services** | | | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/17/97 10:45 | 1250 | umhos/cm | | |
| 000406 | Field pH | Grab | N | 150.1 | 07/17/97 10:45 | 7.0 | | | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/17/97 10:45 | 29.0 | Deg. C | 0.10 | |
| **General Chemistry** | | | | | | | | | |
| 00940 | Chloride — can exceed | Grab | N | 300.0 | 07/23/97 13:00 | 1100 | mg/l | 50 | mg/l |
| 000515 | Total Dissolved Solids ? can exceed | Grab | N | 160.1 | 07/20/97 00:00 | 320 | mg/l | 50 | mg/l |
| **EDB/DBCP** | | | | | | | | | |
| 77651 | EDB | Grab | N | 8011 | 07/23/97 00:00 | <0.020 | ug/l | 0.020 | ug/l |
| 38760 | DBCP | Grab | N | 8011 | 07/23/97 00:00 | <0.20 | ug/l | 0.20 | ug/l |
| | Dilution Factor | Grab | N | 8011 | 07/23/97 00:00 | 1.0 | | | |
| **Metals** | | | | | | | | | |
| 01002 | Arsenic | Grab | N | 3010/6010A | 08/07/97 00:00 | 0.018 | mg/l | 0.010 | mg/l |
| 001007 | Barium | Grab | N | 3010/6010A | 08/07/97 00:00 | 0.022 | mg/l | 0.010 | mg/l |
| 01027 | Cadmium | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.0050 | mg/l | 0.0050 | mg/l |
| 01034 | Chromium | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.0050 | mg/l | 0.0050 | mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 6 Quart. Eff.

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: NA
Color: NA
Turbidity: NA
Odor: NA

**Environmental Conditions**

Wind: NA
Rain: NA
Air (^C): NA
Atmosphere: NA
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: NA
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/~~2nd~~ 3rd Quarter
Well Purged: NA
Well Type: NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals (continued)** | | | | | | | |
| 1037 | Cobalt | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.010 mg/l | 0.010 mg/l |
| 001051 | Lead | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.0050 mg/l | 0.0050 mg/l |
| 001147 | Selenium | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.010 mg/l | 0.010 mg/l |
| 001077 | Silver | Grab | N | 3010/6010A | 08/07/97 00:00 | <0.010 mg/l | 0.010 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

| | |
|---|---|
| Client: | Citrus County Dept of SW |
| Project Name / Number: | Landfill - EFFT6Q |
| PWSID# | |
| Site Location: | Lecanto, FL |

| | | | |
|---|---|---|---|
| Sample ID: EFF - QUARTERLY | | Sampling Date & Time: 07-17-97 1045 | Number of Bottles: 8 |
| Sample Type: GRAB | Sample Matrix: WW | Sampling Method: GRAB | Well Evacuation Method: NA |

| Well Specifications | | Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height | |
|---|---|---|---|
| Diameter | in. | Well Casing Composition: | In Place Plumbing Data |
| Water Level | ft. | GPF(x) -CR Gallons | Plumbing Material |
| Total Depth | ft. | NA | Purge Flow Rate: NA Gal/min |
| Column Height | ft. | NA | Purge Time: min |
| Column Volume | gal. | | Sample Flow Rate: ml/min |
| Min Evac. | gal. | Well Purged: Dry, or 3x and field tests within 5%, or 5x | |
| Actual | gal. | NGVD MSL/TOC: (-) WL/TOC: (-) WATER LEVEL/MSL NGVD | |

| Well Purging Data | | | | | | | Field Parameters | | |
|---|---|---|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | | Tests | 1st | 2nd |
| Temperature | | NA | | | | | Temp. | 29.0 | NA |
| Conductivity | | | | | | | Cond. | 1250 | N |
| pH | | | | | | | pH | 6.95 | |
| Begin time | | End time | | | | | D.O. | | |
| Purging Comments: | | | | | | | Additional Test Results: | | |

| Sampling Information | | | | Sample Appearance | | Environmental Conditions | |
|---|---|---|---|---|---|---|---|
| | Depth | Drums: | | Tint | NONE | Air Temp. | 32.5 |
| Surface Water | | Type | NA | Color | CLEAR | Wind | SE/05 |
| Soil/Sediments NA | | Contents | NA | Turbidity | NIL | Rain | NONE |
| | | Layer Sampled | | Odor | NONE | Atmosphere | P.C. |
| Wastewater: | | | | | | Other | |
| Type of Composite | | Drilling/boring method | | Turbidity before filter | | | |
| Begin time | | Drilling mud used | | Turbidity after filter | | | |
| End time | | | | | | | |

Additional Information:

GRS Cows beside DVF Tank.

| | |
|---|---|
| Field Filtered? | Y or (N) 0.45um or 1.0um |
| Fuel Power Unit Downline? | Y or (N) |
| Field Decon Performed? | Y or N/A |
| Decon Waste Contained? | Y or N/A |
| Purge Waste Contained? | Y or N/A |

Sampler's Signature: Mike Patterson / Mike Patterson

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(838)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 217606

## Chain of Custody Record

Quote # _____

Company Name: Citrus County of Solid Waste
Address: P.O. Box 340
City: Lecanto State: FL Zip: 34460-0340
Attn: Fax #
Project Name / Number: QUARTERLY EFF PO#
Sampler Name / Signature: [signature] Phone # 407 846 6048

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | # of Cont | Parameters | Sample | pH | Pres Codes | SD1 GC | SD4 FI | 602 BTX | As-ICP, As-ICP | BA-ICP, CO-ICP | CL, CR-ICP | FE-ICP, HG-CV | MN-ICP, PB-ICP | SE-ICP, TDS | Field Filtered (Y/N) | Integrity OK (Y/N) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EFF | 7/17/97 | 1045 | WW | 8 | | 01 | 2 | | X | X | X | X | X | X | X | X | X | | | |
| 2 | | | | | | | 01 | 2 | | | | | | | | | | | | | |
| 3 | | | | | | | 01 | 2/6 | | | | | | | | | | | | | |
| 4 | | | | | | | 01 | 2 | | | | | | | | | | | | | |
| 5 | | | | | | | 01 | 2 | | | | | | | | | | | | | |
| 6 | | | | | | | 01 | 2/6 | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | |

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

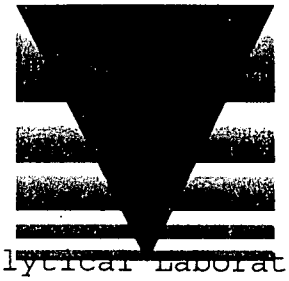
| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

Short Hold: Y ___ (N) ___ Ice: (Y) ___ N ___
QA/QC Report Level: None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK: Y (N) Initials: KC
T.A.T. Request: Standard RUSH: Date required Custody Seals: (Y) N Temp Control: wet ice °C Local Job: Y N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 7/17/97 | 1570 | CD | 7/17/97 | 1500 |
| | | | | | | |
| | | | | | | |
| | | | | S. Sy | 7/18/97 | 1515 |

C.O.C. # 012701

ORIGINAL



V.O.C. Analytical Laboratories

*Our Quality Control Is Your Quality Assurance*

# REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21765

Cathy Winter

Client Project ID: Annual Analysis
Collected By: Client

| Laboratory Sample # | Client Sample # |
|---|---|
| L21765-1 | Effluent |

Respectfully Submitted,

Signature: Kari Hoffman

Date: 8/26/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

# MAXIMUM CONTAMINATION LEVEL REPORT

**Client #:** OLI-97-051604
**Address:** Citrus County Solid Waste
PO Box 340
Lecanto, FL 34460-0340
Cathy Winter

**Page:** Page 1 of 1
**Date:** 08/07/97
**Log #:** L21765-1

**Sample Description:**

Annual Analysis

**Label:** Effluent
**Date Sampled:** 07/17/97
**Time Sampled:** 10:45
**Date Received:** 07/17/97
**Collected By:** Client

| Parameter | Results | Units | Method | Maximum Contamination Level | Extr. Date | Analysis Date | Analyst |
|---|---|---|---|---|---|---|---|

**Metals**

No target analytes/analyses were above the maximum contamination level.

**Organophosphorus Compounds**

No target analytes/analyses were above the maximum contamination level.

**HPLC Polynuclear Aromatic Hydrocarbons**

No target analytes/analyses were above the maximum contamination level.

**Organochlorine Pesticides and PCB's**

No target analytes/analyses were above the maximum contamination level.

**Field Services**

No target analytes/analyses were above the maximum contamination level.

**Chlorinated Herbicides**

No target analytes/analyses were above the maximum contamination level.

**Sample Appearance**

No target analytes/analyses were above the maximum contamination level.

**Environmental Conditions**

No target analytes/analyses were above the maximum contamination level.

**Appendix II - Semivolatiles**

No target analytes/analyses were above the maximum contamination level.

**General Chemistry**

No target analytes/analyses were above the maximum contamination level.

**Volatiles Appendix II Organic Compounds**

No target analytes/analyses were above the maximum contamination level.

**EDB/DBCP**

No target analytes/analyses were above the maximum contamination level.

**Metals**

This summary page indicating compound concentrations above the June, 1994 FDEP Ground Water Guidance Concentrations 'MCL' for primary and secondary standards is an enhancement to your standard reports. While V.O.C. Analytical Laboratories has made every effort to ensure its validity, we caution you to please verify its contents.
If the summary page fails, please notify your Project Manager immediately.

Order #: L21765-1
Client: Citrus County Solid Waste

V.O.C. Analytical Laboratories
Report of Analysis for DEP



Annual Analysis

Annual effluent testing

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | None |
| Color: | Clear |
| Turbidity: | None |
| Odor: | None |

**Environmental Conditions**

| | |
|---|---|
| Wind: | SE 0-5 |
| Rain: | None |
| Air (^C): | 32.5 |
| Atmosphere: | P.C. |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Effluent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
or **(MSL):** NA

**Sampling Date/Time:** 07/17/97 10:45
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | |
| 01097 | Antimony | Grab | N | 3010/6010A | 08/07 00:00 | <6.0 ug/l | 6.0 ug/l |
| 01002 | Arsenic | Grab | N | 3010/6010A | 08/07 00:00 | 18 ug/l | 10 ug/l |
| 001007 | Barium | Grab | N | 3010/6010A | 08/07 00:00 | 19 ug/l | 10 ug/l |
| 01012 | Beryllium | Grab | N | 3010/6010A | 08/07 00:00 | <4.0 ug/l | 4.0 ug/l |
| 01027 | Cadmium | Grab | N | 3010/6010A | 08/07 00:00 | <5.0 ug/l | 5.0 ug/l |
| 01034 | Chromium | Grab | N | 3010/6010A | 08/07 00:00 | <5.0 ug/l | 5.0 ug/l |
| 1037 | Cobalt | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| 001042 | Copper | Grab | N | 3010/6010A | 08/07 00:00 | 12 ug/l | 10 ug/l |
| 001051 | Lead | Grab | N | 3010/6010A | 08/07 00:00 | <5.0 ug/l | 5.0 ug/l |
| 71900 | Mercury | Grab | N | 245.2 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 1067 | Nickel | Grab | N | 3010/6010A | 08/07 00:00 | 33 ug/l | 5.0 ug/l |
| 001147 | Selenium | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| 001077 | Silver | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| NA204 | Tin | Grab | N | 3010/6010 | 07/24 00:00 | <100 ug/l | 100 ug/l |
| 001087 | Vanadium | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| 001092 | Zinc | Grab | N | 3010/6010A | 08/07 00:00 | 39 ug/l | 10 ug/l |
| **Organophosphorus Compounds** | | | | | | | |
| 46314 | Dimethoate | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |
| 81888 | Disulfoton | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |
| 38462 | Famphur | Grab | N | 3510/8141 | 07/24 00:00 | <0.70 ug/l | 0.70 ug/l |
| 39540 | Parathion, ethyl | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 ug/l | 0.50 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | None |
| Color: | Clear |
| Turbidity: | None |
| Odor: | None |

**Environmental Conditions**

| | |
|---|---|
| Wind: | SE 0-5 |
| Rain: | None |
| Air (^C): | 32.5 |
| Atmosphere: | P.C. |

Other: NA

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OCT 17 1997
D E P

## PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Organophosphorus Compounds (continued)** | | | | | | | | | |
| 39600 | Parathion, methyl | Grab | N | 3510/8141 | 07/24 00:00 | <0.50 | ug/l | 0.50 | ug/l |
| 46313 | Phorate | Grab | N | 3510/8141 | 07/24 00:00 | <0.70 | ug/l | 0.70 | ug/l |
| 73553 | Thionazin (Zinophos) | Grab | N | 3510/8141 | 07/24 00:00 | <0.60 | ug/l | 0.60 | ug/l |
| | Dilution Factor | Grab | N | 3510/8141 | 07/24 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 1,3-Dimethyl-2-Nitrobenzene | Grab | N | 3510/8141 | 07/24 00:00 | 54.0 | % | 48-108 | |
| **HPLC Polynuclear Aromatic Hydrocarbons** | | | | | | | | | |
| 34696 | Naphthalene | Grab | N | 3510/8310 | 07/23 00:00 | <5.0 | ug/l | 5.0 | ug/l |
| 34200 | Acenaphthylene | Grab | N | 3510/8310 | 07/23 00:00 | <5.0 | ug/l | 5.0 | ug/l |
| 34205 | Acenaphthene | Grab | N | 3510/8310 | 07/23 00:00 | <5.0 | ug/l | 5.0 | ug/l |
| 34381 | Fluorene | Grab | N | 3510/8310 | 07/23 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34461 | Phenanthrene | Grab | N | 3510/8310 | 07/23 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34220 | Anthracene | Grab | N | 3510/8310 | 07/23 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34376 | Fluoranthene | Grab | N | 3510/8310 | 07/23 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34469 | Pyrene | Grab | N | 3510/8310 | 07/23 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34526 | Benzo(a)anthracene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34320 | Chrysene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34230 | Benzo(b)fluoranthene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34242 | Benzo(k)fluoranthene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34247 | Benzo(a)pyrene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34556 | Dibenzo(a,h)Anthracene | Grab | N | 3510/8310 | 07/23 00:00 | <0.30 | ug/l | 0.30 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.
Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **HPLC Polynuclear Aromatic Hydrocarbons (continued)** | | | | | | | | | |
| 34403 | Indeno(1,2,3-c,d)pyrene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34521 | Benzo(g,h,i)perylene | Grab | N | 3510/8310 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| | Dilution Factor | Grab | N | 3510/8310 | 07/23 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | Decachlorobiphenyl | Grab | N | 3510/8310 | 07/23 00:00 | 82.0 | % | 11-215 | % |
| **Organochlorine Pesticides and PCB's** | | | | | | | | | |
| 39337 | alpha-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39340 | gamma-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39410 | Heptachlor | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39330 | Aldrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39338 | beta-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 34259 | delta-BHC | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 39420 | Heptachlor Epoxide | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| 34361 | Endosulfan I | Grab | N | 3510/8080 | 07/23 00:00 | <0.050 | ug/l | 0.050 | ug/l |
| NA120 | 4,4'-DDE | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 39380 | Dieldrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 39390 | Endrin | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| NA119 | 4,4'-DDD | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34356 | Endosulfan II | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| NA121 | 4,4'-DDT | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |
| 34366 | Endrin Aldehyde | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 | ug/l | 0.10 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | None |
| Color: | Clear |
| Turbidity: | None |
| Odor: | None |

**Environmental Conditions**

| | |
|---|---|
| Wind: | SE 0-5 |
| Rain: | None |
| Air (^C): | 32.5 |
| Atmosphere: | P.C. |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Effluent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/17/97 10:45
**Report Period:** 1997/Annual
**Well Purged:** NA
**Well Type:** OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Organochlorine Pesticides and PCB's** | **(continued)** | | | | | | |
| 39480 | Methoxychlor | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 34351 | Endosulfan Sulfate | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 ug/l | 0.10 ug/l |
| 78008 | Endrin Ketone | Grab | N | 3510/8080 | 07/23 00:00 | <0.10 ug/l | 0.10 ug/l |
| 39400 | Toxaphene | Grab | N | 3510/8080 | 07/23 00:00 | <0.60 ug/l | 0.60 ug/l |
| NA118 | Chlordane | Grab | N | 3510/8080 | 07/23 00:00 | <0.60 ug/l | 0.60 ug/l |
| 39516 | PCB 1016 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1221 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1232 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1242 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1248 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1254 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | PCB 1260 | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| 39516 | Total PCB's | Grab | N | 3510/8080 | 07/23 00:00 | <0.50 ug/l | 0.50 ug/l |
| | Dilution Factor | Grab | N | 3510/8080 | 07/23 00:00 | 1.0 | |
| | **Surrogate Recoveries:** | | | | | | |
| | 4,4'-Dichlorobiphenyl | Grab | N | 3510/8080 | 07/23 00:00 | 80.0 % | 49-146 |
| | TCMX | Grab | N | 3510/8080 | 07/23 00:00 | 130 % | 40-140 |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/17 00:00 | 1250umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 07/17 00:00 | 7.0 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/17 00:00 | 29.0 Deg. C | 0.10 |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| | **Chlorinated Herbicides** | | | | | | | | |
| 39730 | 2,4-D | Grab | N | 3510/8150 | 07/24 00:00 | <3.0 | ug/l | 3.0 | ug/l |
| 39760 | 2,4,5-TP | Grab | N | 3510/8150 | 07/24 00:00 | <2.5 | ug/l | 2.5 | ug/l |
| 39740 | 2,4,5-T | Grab | N | 3510/8150 | 07/24 00:00 | <2.5 | ug/l | 2.5 | ug/l |
| 30191 | Dinoseb | Grab | N | 3510/8150 | 07/24 00:00 | <2.0 | ug/l | 2.0 | ug/l |
| | Dilution Factor | Grab | N | 3510/8150 | 07/24 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | DCAA | Grab | N | 3510/8150 | 07/24 00:00 | 61.0 | % | 20-160 | |
| | **Appendix II - Semivolatiles** | | | | | | | | |
| 34438 | N-Nitrosodimethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 | ug/l | 1.9 | ug/l |
| 77089 | Aniline | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 | ug/l | 1.6 | ug/l |
| 34694 | Phenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.5 | ug/l | 2.5 | ug/l |
| 34273 | Bis(2-Chloroethyl) Ether | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 | ug/l | 1.7 | ug/l |
| 34586 | 2-Chlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 | ug/l | 1.7 | ug/l |
| 34566 | 1,3-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 | ug/l | 2.6 | ug/l |
| 34571 | 1,4-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.8 | ug/l | 1.8 | ug/l |
| 77147 | Benzyl alcohol | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 | ug/l | 2.2 | ug/l |
| 34536 | 1,2-Dichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <2.8 | ug/l | 2.8 | ug/l |
| 77152 | 2-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 | ug/l | 1.2 | ug/l |
| 73522 | Bis(2-Chloroisopropyl) Ether | Grab | N | 3510/8270 | 07/23 00:00 | <8.8 | ug/l | 8.8 | ug/l |
| NA181 | N-Nitrosodi-n-propylamine | Grab | N | 3510/8270 | 07/23 00:00 | <2.9 | ug/l | 2.9 | ug/l |
| 77151 | 3-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 77146 | 4-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 34396 | Hexachloroethane | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34447 | Nitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 34408 | Isophorone | Grab | N | 3510/8270 | 07/23 00:00 | <2.3 ug/l | 2.3 ug/l |
| 34591 | 2-Nitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 34606 | 2,4-Dimethyl Phenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.1 ug/l | 1.1 ug/l |
| 34278 | Bis(2-Chloroethoxy) Methane | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 77247 | Benzoic Acid | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 78200 | N-Nitrosodiethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <2.8 ug/l | 2.8 ug/l |
| 34601 | 2,4-Dichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 ug/l | 2.6 ug/l |
| 34551 | 1,2,4-Trichlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.3 ug/l | 1.3 ug/l |
| 34696 | Naphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <2.3 ug/l | 2.3 ug/l |
| 77954 | 4-Chloroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <6.7 ug/l | 6.7 ug/l |
| 34391 | Hexachlorobutadiene | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 ug/l | 1.9 ug/l |
| 77421 | 4-Chloro-3-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 77418 | 1-Methylnaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 77416 | 2-Methylnaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <2.6 ug/l | 2.6 ug/l |
| 34386 | Hexachlorocyclopentadiene | Grab | N | 3510/8270 | 07/23 00:00 | <3.4 ug/l | 3.4 ug/l |
| 34621 | 2,4,6-Trichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 77687 | 2,4,5-Trichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <5.0 ug/l | 5.0 ug/l |
| 34581 | 2-Chloronaphthalene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 30195 | 2-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 34341 | Dimethylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 34626 | 2,6-Dinitrotoluene | Grab | N | 3510/8270 | 07/23 00:00 | <2.2 ug/l | 2.2 ug/l |
| 34200 | Acenaphthylene | Grab | N | 3510/8270 | 07/23 00:00 | <1.7 ug/l | 1.7 ug/l |
| 78300 | 3-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 34205 | Acenaphthene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 81302 | Dibenzofuran | Grab | N | 3510/8270 | 07/23 00:00 | <1.3 ug/l | 1.3 ug/l |
| 34611 | 2,4-Dinitrotoluene | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34616 | 2,4-Dinitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34646 | 4-Nitrophenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34336 | Diethylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <9.1 ug/l | 9.1 ug/l |
| 34381 | Fluorene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34641 | 4-Chlorophenyl-phenylether | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 30342 | 4-Nitroaniline | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34657 | 4,6-Dinitro-2-Methylphenol | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34433 | N-Nitrosodiphenylamine | Grab | N | 3510/8270 | 07/23 00:00 | <1.9 ug/l | 1.9 ug/l |
| | Azobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34636 | 4-Bromophenyl-phenylether | Grab | N | 3510/8270 | 07/23 00:00 | <2.1 ug/l | 2.1 ug/l |
| 39700 | Hexachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| 39032 | Pentachlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 34461 | Phenanthrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34220 | Anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| | Carbazole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 39110 | Di-n-butylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.6 ug/l | 1.6 ug/l |
| 34376 | Fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 39120 | Benzidine | Grab | N | 3510/8270 | 07/23 00:00 | <20 ug/l | 20 ug/l |
| 34469 | Pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34292 | Butylbenzylphthalate | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34526 | Benzo(a)anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <1.2 ug/l | 1.2 ug/l |
| 34631 | 3,3'-Dichlorobenzidine | Grab | N | 3510/8270 | 07/23 00:00 | <4.8 ug/l | 4.8 ug/l |
| 34320 | Chrysene | Grab | N | 3510/8270 | 07/23 00:00 | <1.5 ug/l | 1.5 ug/l |
| 34346 | 1,2-Diphenylhydrazine | Grab | N | 3510/8270 | 07/23 00:00 | <1.1 ug/l | 1.1 ug/l |
| 39100 | Bis(2-Ethylhexyl)Phthalate | Grab | N | 3510/8270 | 07/23 00:00 | <6.0 ug/l | 6.0 ug/l |
| 34596 | Di-n-octyl phthalate | Grab | N | 3510/8270 | 07/23 00:00 | <2.5 ug/l | 2.5 ug/l |
| 34230 | Benzo(b)fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <5.9 ug/l | 5.9 ug/l |
| 34242 | Benzo(k)fluoranthene | Grab | N | 3510/8270 | 07/23 00:00 | <2.0 ug/l | 2.0 ug/l |
| 34247 | Benzo(a)pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34403 | Indeno(1,2,3-c,d)pyrene | Grab | N | 3510/8270 | 07/23 00:00 | <5.2 ug/l | 5.2 ug/l |
| 34556 | Dibenzo(a,h)Anthracene | Grab | N | 3510/8270 | 07/23 00:00 | <6.9 ug/l | 6.9 ug/l |
| 34521 | Benzo(g,h,i)perylene | Grab | N | 3510/8270 | 07/23 00:00 | <5.2 ug/l | 5.2 ug/l |
| 81597 | Methyl Methacrylate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77045 | Pyridine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73570 | Ethyl Methacrylate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73613 | N-Nitrosomethylethylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73595 | Methyl Methanesulfonate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 81553 | Acetophenone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78206 | N-Nitrosopyrolidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73619 | N-Nitrosopiperidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA082 | o,o,o-Triethylphosphorothioat | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77541 | 2,6-Dichlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78200 | N-Nitrosodi-n-Butylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 78727 | Isosafrole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73628 | p-Phenylenediamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77734 | 1,2,4,5-Tetrachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77545 | Safrole | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73599 | 1,4-Naphthoquinone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 45622 | 1,2-Dinitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77793 | Pentachlorobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73600 | 1-Naphthylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 82191 | 2-Naphthylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77770 | 2,3,4,6-Tetrachlorophenol | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73553 | Thionazine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73622 | 5-Nitro-o-Toluidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77579 | Diphenylamine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 46313 | Phorate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73540 | Diallate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 70003 | Phenacetin | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | |
| 46314 | Dimethoate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77581 | Aminobiphenyl | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39080 | Pronamide | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 81888 | Disulfoton | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73571 | Ethyl Methanesulfonate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 30191 | Dinoseb | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 81316 | Pentachloronitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39600 | Methyl Parathion | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39540 | Parathion | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73589 | Methapyrilene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39430 | Isodrin | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73558 | p-Dimethylaminoazobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39460 | Chlorobenzilate | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA030 | 3,3-Dimethylbenzidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| NA099 | Hexachlorophene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 38462 | Famphur | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 82204 | 2-Acetylaminofluorene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 39018 | Kepone | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73559 | 7,12-Dimethylbenzo(a)anthrace | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73591 | 3-Methylcholanthrene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 77142 | o-Toluidine | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |
| 73653 | 1,3,5-Trinitrobenzene | Grab | N | 3510/8270 | 07/23 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Appendix II - Semivolatiles (continued)** | | | | | | | | | |
| 73522 | bis(2-Chloro-1-Methylethyl)Et | Grab | N | 3510/8270 | 07/23 00:00 | <10 | ug/l | 10 | ug/l |
| | Dilution Factor | Grab | N | 3510/8270 | 07/23 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 2-Fluorophenol | Grab | N | 3510/8270 | 07/23 00:00 | 72.0 | % | 21-100 | |
| | Phenol-d5 | Grab | N | 3510/8270 | 07/23 00:00 | 84.0 | % | 10-94 | |
| | Nitrobenzene-d5 | Grab | N | 3510/8270 | 07/23 00:00 | 68.0 | % | 35-114 | |
| | 2-Fluorobiphenyl | Grab | N | 3510/8270 | 07/23 00:00 | 80.0 | % | 43-111 | |
| | 2,4,6-Tribromophenol | Grab | N | 3510/8270 | 07/23 00:00 | 86.0 | % | 10-123 | |
| | Terphenyl-d14 | Grab | N | 3510/8270 | 07/23 00:00 | 82.0 | % | 33-141 | |
| **General Chemistry** | | | | | | | | | |
| 00722 | Cyanide | Grab | N | 335.3 | 07/28 00:00 | <0.010 | mg/l | 0.010 | mg/l |
| 71875 | Hydrogen Sulfide | Grab | N | 376.1 | 07/23 00:00 | <1.0 | mg/l | 1.0 | mg/l |
| **Volatiles Appendix II Organic Compounds** | | | | | | | | | |
| 34210 | Acrolein | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 034215 | Acrylonitrile | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 76997 | Acetonitrile | Grab | N | 5030/8260 | 07/25 00:00 | <500 | ug/l | 500 | ug/l |
| 034030 | Benzene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 73085 | Bromochloromethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 32101 | Bromodichloromethane | Grab | N | 5030/8260 | 07/25 00:00 | 30 | ug/l | 1.0 | ug/l |
| 32104 | Bromoform | Grab | N | 5030/8260 | 07/25 00:00 | 9.7 | ug/l | 1.0 | ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | |
| 034413 | Bromomethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32102 | Carbon Tetrachloride | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34301 | Chlorobenzene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34311 | Chloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32106 | Chloroform | Grab | N | 5030/8260 | 07/25 00:00 | 20 ug/l | 1.0 ug/l |
| 034418 | Chloromethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 38760 | 1,2-Dibromo-3-Chloropropane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 32105 | Dibromochloromethane | Grab | N | 5030/8260 | 07/25 00:00 | 24 ug/l | 1.0 ug/l |
| 77596 | Dibromomethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34536 | 1,2-Dichlorobenzene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34571 | 1,4-Dichlorobenzene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34668 | Dichlorodifluoromethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34496 | 1,1-Dichloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34531 | 1,2-Dichloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34501 | 1,1-Dichloroethene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77093 | Cis-1,2-Dichloroethene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34546 | trans-1,2-Dichloroethene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34541 | 1,2-Dichloropropane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77173 | 1,3-Dichloropropane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77170 | 2,2-Dichloropropane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 77168 | 1,1-Dichloropropene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |
| 34699 | trans-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 ug/l | 1.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

PARAMETER MONITORING REPORT

Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | | | |
| 34704 | Cis-1,3-Dichloropropene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34371 | Ethylbenzene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 78133 | 4-Methyl-2-Pentanone | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 22417 | MTBE | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34423 | Methylene Chloride | Grab | N | 5030/8260 | 07/25 00:00 | <4.0 | ug/l | 4.0 | ug/l |
| 77128 | Styrene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 77562 | 1,1,1,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34516 | 1,1,2,2-Tetrachloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34475 | Tetrachloroethene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 034010 | Toluene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34506 | 1,1,1-Trichloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 39180 | Trichloroethene | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34511 | 1,1,2-Trichloroethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 77443 | 1,2,3-Trichloropropane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 34488 | Trichlorofluoromethane | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 39175 | Vinyl Chloride | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 034020 | Total Xylenes | Grab | N | 5030/8260 | 07/25 00:00 | <1.0 | ug/l | 1.0 | ug/l |
| 78109 | Allyl Chloride | Grab | N | 5030/8260 | 07/25 00:00 | <1000 | ug/l | 1000 | ug/l |
| NA095 | 1,4-Dioxane | Grab | N | 5030/8260 | 07/25 00:00 | 310 | ug/l | 100 | ug/l |
| 77033 | Isobutanol | Grab | N | 5030/8260 | 07/25 00:00 | <1000 | ug/l | 1000 | ug/l |
| NA165 | Propionitrile | Grab | N | 5030/8260 | 07/25 00:00 | <1000 | ug/l | 1000 | ug/l |
| 81597 | Methyl Methacrylate | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |

5 is guidance conc

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

Diameter (in): NA
Water Level (ft): NA
Total Depth (ft): NA
Column Height (ft): NA
Column Volume (gal): NA
Evacuation (gal): NA
Actual (gal): NA

Evacuation Method: NA

**Sample Appearance**

Tint: None
Color: Clear
Turbidity: None
Odor: None

**Environmental Conditions**

Wind: SE 0-5
Rain: None
Air (^C): 32.5
Atmosphere: P.C.

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Volatiles Appendix II Organic Compounds (continued)** | | | | | | | | | |
| 73570 | Ethyl Methacrylate | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 81552 | Acetone | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 77041 | Carbon Disulfide | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 77651 | EDB | Grab | N | 5030/8260 | 07/25 00:00 | <10 | ug/l | 10 | ug/l |
| 077268 | trans-1,4-Dichloro-2-butene | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 77103 | 2-Hexanone | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 81595 | MEK | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 77424 | Iodomethane | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| 81520 | Chloropropene | Grab | N | 5030/8260 | 07/25 00:00 | N/D | ug/l | 1000 | ug/l |
| 81593 | Methacrylonitrile | Grab | N | 5030/8260 | 07/25 00:00 | N/D | ug/l | 1000 | ug/l |
| 77057 | Vinyl Acetate | Grab | N | 5030/8260 | 07/25 00:00 | <50 | ug/l | 50 | ug/l |
| | Dilution Factor | Grab | N | 5030/8260 | 07/25 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 4-Bromofluorobenzene | Grab | N | 5030/8260 | 07/25 00:00 | 102 | % | 76-130 | |
| | Dibromofluoromethane | Grab | N | 5030/8260 | 07/25 00:00 | 81.0 | % | 58-146 | |
| | Toluene-D8 | Grab | N | 5030/8260 | 07/25 00:00 | 101 | % | 76-119 | |
| **EDB/DBCP** | | | | | | | | | |
| 77651 | EDB | Grab | N | 8011 | 07/23 00:00 | <0.020 | ug/l | 0.020 | ug/l |
| 38760 | DBCP | Grab | N | 8011 | 07/23 00:00 | <0.20 | ug/l | 0.20 | ug/l |
| | Dilution Factor | Grab | N | 8011 | 07/23 00:00 | 1.0 | | | |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Annual Analysis

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | None |
| Color: | Clear |
| Turbidity: | None |
| Odor: | None |

**Environmental Conditions**

| | |
|---|---|
| Wind: | SE 0-5 |
| Rain: | None |
| Air (^C): | 32.5 |
| Atmosphere: | P.C. |

Other: NA

PARAMETER MONITORING REPORT

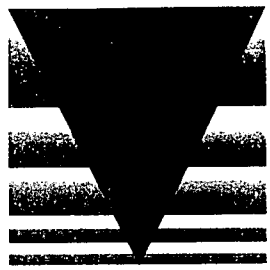
Part III: Analytical Results

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/Annual
Well Purged: NA
Well Type: OTHER

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals** | | | | | | | |
| 001059 | Thallium | Grab | N | SM3113B | 08/07 00:00 | <2.0 ug/l | 2.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.



*Our Quality Control Is Your Quality Assurance*

# V.O.C. Analytical Laboratories

## REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21731

Cathy Winter

Client Project ID: Weekly Analysis
Collected By: Michael Patterson

| Laboratory Sample # | Client Sample # |
|---|---|
| L21731-1 | Effluent |

Respectfully Submitted,

Signature: Kari Hoffmann

Date: 8/5/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

Order #: L21731-1 | V.O.C. Analytical Laboratories | Page: Page 1 of 1

Client: Citrus County Solid Waste | Report of Analysis for DER

Weekly Analysis

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |
| Evacuation Method: | Grab |

**Sample Appearance**

| | |
|---|---|
| Tint: | None |
| Color: | Clear |
| Turbidity: | None |
| Odor: | None |

**Environmental Conditions**

| | |
|---|---|
| Wind: | NA |
| Rain: | NA |
| Air (^C): | NA |
| Atmosphere: | NA |
| Other: | NA |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: G-II
GW Elevation (NGVD):
or (MSL): NA

Sampling Date/Time: 07/17/97 14:00
Report Period: Weekly/1997
Well Purged: No
Well Type: NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/18/97 10:45 | 1250umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 07/18/97 10:45 | 7.0 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/18/97 10:45 | 29.0 Deg. C | 0.10 |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 07/23/97 12:00 | <2.0 mg/l | 2.0 mg/l |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 07/17/97 00:00 | <1cfu/100ml | 1 /100mL |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.3 | 07/24/97 00:00 | 0.23 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 07/22/97 00:00 | 160 mg/l | 10 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 07/18/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00406 | pH | Grab | N | 150.1 | 07/18/97 14:10 | 7.0 | 0.10 |
| 00665 | Total Phosphorus | Grab | N | 365.2 | 07/25/97 00:00 | 18 mg/l | 0.10 mg/l |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 07/25/97 00:00 | 0.76 mg/l | 0.40 mg/l |
| 00600 | Nitrogen, Total | Grab | N | Calc. | 07/25/97 11:21 | 0.76 mg/l | 0.40 mg/l |
| 00530 | Total Suspended Solids | Grab | N | 160.2 | 07/20/97 00:00 | 11 mg/l | 4.0 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 21731

## Chain of Custody Record

SHORT-HOLD Quote # _____

Company Name Citrus County of Solid Waste
Address P.O. Box 340
City Lecanto State FL Zip 34460-0340
Attn: Fax #
Project Name / Number Weekly Eff PO#
Sampler Name / Signature [signature] Phone # 407 836 6678

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | EFF | 7/17/97 | 1045 | EF | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

### LAB ANALYSIS

| Parameters | Sample | pH | Pres Codes | CBOD, COD | NH3-N, NO3-N | pH, TKN | TL-N, TL-P | TSS, | FCLCOL | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | X | X | X | X | X | X | | |

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other _____ (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

DATE 7.18.97
TIME 1410
pH = 7.02
Done by S-S VOC BOCA

ORIGINAL

Short Hold Y ___ N ___
Ice Y ___ N ___
QA/QC Report Level None ___ 1 ___ 2 ___ 3 ___ Other ___
COC OK Y N Initials
T.A.T. Request: Standard
RUSH: Date required
Custody Seals Y N
Temp Control ___ C
Local Job Y N

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| | [signature] | 7/4/97 | 1046 | [signature] | 7/7/97 | 1400 |
| | [signature] | 7/7/97 | 1400 | [signature] | 7/7/97 | 1400 |
| | | | | | | |
| | | | | S.S | 7/18/97 | 1425 |

C.O.C. # 012538

# Orlando Laboratories, Inc. Field Sheet

Revised: October 30, 1996

| | |
|---|---|
| Client: | CITRUS COUNTY DEPT SW |
| Project Name / Number: | LANDFILL - EFF_T6 PWSID# |
| Site Location: | LECANTO, FL |

| | | | |
|---|---|---|---|
| Sample ID: EFF - WEEKLY | | Sampling Date & Time: 07-17-97 | Number of Bottles: 4 |
| Sample Type: GRAB | Sample Matrix: NW | Sampling Method: GRAB | Well Evacuation Method: N/A |

## Well Specifications

Volume in Gallons/ft is equal to 0.041 x Diameter(Squared) X Height

| | |
|---|---|
| Diameter | in. |
| Water Level | ft. |
| Total Depth | ft. |
| Column Height | ft. |
| Column Volume | gal. |
| Min Evac. | gal. |
| Actual | gal. |

Well Casing Composition:

GPF(x) -CR Gallons

NA

In Place Plumbing Data

| | |
|---|---|
| Plumbing Material | NA |
| Purge Flow Rate | Gal/min |
| Purge Time | min |
| Sample Flow Rate | ml/min |

Well Purged: Dry, or 3x and field tests within 5%, or 5x

| (+) NGVD, MSL/TOC | (-) WL/TOC | (=) WATER LEVEL/ MSL,NGVD |
|---|---|---|
| | | |

## Well Purging Data

| | | | | | | |
|---|---|---|---|---|---|---|
| Gallons/Time | | | | | | |
| Temperature | | NA | | | NA | |
| Conductivity | | | | | | |
| pH | | | | | | |
| Begin time | | End time | | | | |

Purging Comments:

## Field Parameters

| Tests | 1st | 2nd |
|---|---|---|
| Temp. | 29.0 | NA |
| Cond. | 1250 | |
| pH | 6.95 | |
| D.O. | ✓ | |

Additional Test Results:

## Sampling Information

| | Depth | | |
|---|---|---|---|
| Surface Water | | Drums: | |
| Soil/Sediments | | Type | NA |
| NA | | Contents | |
| Wastewater: | | Layer Sampled | |
| Type of Composite | | Drilling/boring method | |
| Begin time | | Drilling mud used | |
| End time | | | |

## Sample Appearance

| | |
|---|---|
| Tint | NONE |
| Color | CLEAR |
| Turbidity | NONE |
| Odor | NONE |
| | |
| Turbidity before filter | |
| Turbidity after filter | |

## Environmental Conditions

| | |
|---|---|
| Air Temp. | |
| Wind | |
| Rain | |
| Atmosphere | |
| Other | |

Additional Information:

Gas cans beside Inv Tank.

| | |
|---|---|
| Field Filtered? | Y or N 0.45um or 1.0um |
| Fuel Power Unit Downline? | Y or N |
| Field Decon Performed? | Y or N |
| Decon Waste Contained? | Y or N NA |
| Purge Waste Contained? | Y or N NA |

Sampler's Signature: Mike Patterson / Mike Patterson

V.O.C. Analytical Laboratories

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# REPORT OF ANALYSIS

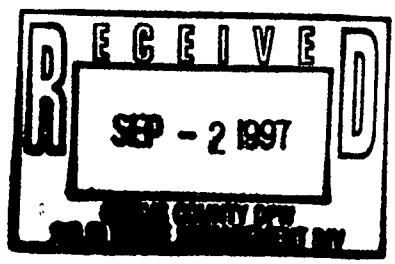
Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21766

Cathy Winter

Client Project ID: Task 6 Quart. Eff.
Collected By: Michael Patterson

| Laboratory Sample # | Client Sample # | |
|---|---|---|
| L21766-1 | Effluent | Quarterly's |




Respectfully Submitted,

Signature: Kari Hoffmann

Date: 8/26/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

Task 6 Quart. Eff.

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | NA |
| Color: | NA |
| Turbidity: | NA |
| Odor: | NA |

**Environmental Conditions**

| | |
|---|---|
| Wind: | NA |
| Rain: | NA |
| Air (^C): | NA |
| Atmosphere: | NA |

Other: NA

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Effluent
**Classification of Groundwater:** NA
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/17/97 10:45
**Report Period:** 1997/3rd Quarter (3rd Quarterly's)
**Well Purged:** NA
**Well Type:** NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **THM Compounds** | | | | | | | | | |
| 32101 | Bromodichloromethane | Grab | N | 524.2 | 07/26/97 00:00 | 40 | ug/l | 0.50 | ug/l |
| 32104 | Bromoform | Grab | N | 524.2 | 07/26/97 00:00 | 17 | ug/l | 0.50 | ug/l |
| 32106 | Chloroform | Grab | N | 524.2 | 07/26/97 00:00 | 24 | ug/l | 0.50 | ug/l |
| 32105 | Dibromochloromethane | Grab | N | 524.2 | 07/26/97 00:00 | 34 | ug/l | 0.50 | ug/l |
| 82080 | Total THM's | Grab | N | 524.2 | 07/26/97 00:00 | 115 | ug/l | 0.50 | ug/l |
| | Dilution Factor | Grab | N | 524.2 | 07/26/97 00:00 | 1.0 | | | |
| | **Surrogate Recoveries:** | | | | | | | | |
| | 4-Bromofluorobenzene | Grab | N | 524.2 | 07/26/97 00:00 | 96.0 | % | | |
| **Metals** | | | | | | | | | |
| 001045 | Iron | Grab | N | 3010/6010 | 07/21/97 00:00 | 0.072 | mg/l | 0.050 | mg/l |
| 71900 | Mercury | Grab | N | 245.2 | 07/23/97 00:00 | <0.00050 | mg/l | 0.00050 | mg/l |
| 000929 | Sodium | Grab | N | 3010/6010 | 07/21/97 00:00 | 390 | mg/l | 0.50 | mg/l |
| **BTEX Compounds** | | | | | | | | | |
| 034030 | Benzene | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 034010 | Toluene | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 34371 | Ethylbenzene | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 034020 | Total Xylenes | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| | Total BTEX | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| 22417 | MTBE | Grab | N | 5030/8020 | 07/23/97 05:22 | <1.0 | ug/l | 1.0 | ug/l |
| | Dilution Factor | Grab | N | 5030/8020 | 07/23/97 05:22 | 1.0 | | | |

.720 on other page

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 6 Quart. Eff.

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | NA |
| Color: | NA |
| Turbidity: | NA |
| Odor: | NA |

**Environmental Conditions**

| | |
|---|---|
| Wind: | NA |
| Rain: | NA |
| Air (^C): | NA |
| Atmosphere: | NA |
| Other: | NA |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:** 4009C00086
**Test Site ID #:** NA
**Well Name:** Effluent
**Classification of Groundwater:** NA
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/17/97 10:45
**Report Period:** 1997/2nd Quarter
**Well Purged:** NA
**Well Type:** NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **BTEX Compounds (continued)** | | | | | | | |
| | Surrogate Recoveries: | | | | | | |
| | a,a,a-Trifluorotoluene | Grab | N | 5030/8020 | 07/23 05:22 | 113 % | 50-150 |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/17 10:45 | 1250umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 07/17 10:45 | 7.0 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/17 10:45 | 29.0 Deg. C | 0.10 |
| **General Chemistry** | | | | | | | |
| 00940 | Chloride | Grab | N | 300.0 | 07/23 13:00 | 1100 mg/l | 50 mg/l |
| 000515 | Total Dissolved Solids | Grab | N | 160.1 | 07/20 00:00 | 320 mg/l | 50 mg/l |
| **EDB/DBCP** | | | | | | | |
| 77651 | EDB | Grab | N | 8011 | 07/23 00:00 | <0.020 ug/l | 0.020 ug/l |
| 38760 | DBCP | Grab | N | 8011 | 07/23 00:00 | <0.20 ug/l | 0.20 ug/l |
| | Dilution Factor | Grab | N | 8011 | 07/23 00:00 | 1.0 | |
| **Metals** | | | | | | | |
| 01002 | Arsenic | Grab | N | 3010/6010A | 08/07 00:00 | 18 ug/l | 10 ug/l |
| 001007 | Barium | Grab | N | 3010/6010A | 08/07 00:00 | 22 ug/l | 10 ug/l |
| 01027 | Cadmium | Grab | N | 3010/6010A | 08/07 00:00 | <5.0 ug/l | 5.0 ug/l |
| 01034 | Chromium | Grab | N | 3010/6010A | 08/07 00:00 | <5.0 ug/l | 5.0 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

Task 6 Quart. Eff.

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |

Evacuation Method: NA

**Sample Appearance**

| | |
|---|---|
| Tint: | NA |
| Color: | NA |
| Turbidity: | NA |
| Odor: | NA |

**Environmental Conditions**

| | |
|---|---|
| Wind: | NA |
| Rain: | NA |
| Air (^C): | NA |
| Atmosphere: | NA |

Other: NA

## PARAMETER MONITORING REPORT

### Part III: Analytical Results

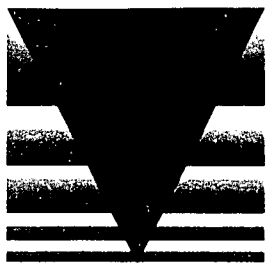
Facility GMS #: 4009C00086
Test Site ID #: NA
Well Name: Effluent
Classification of Groundwater: NA
GW Elevation (NGVD):
or (MSL): NA

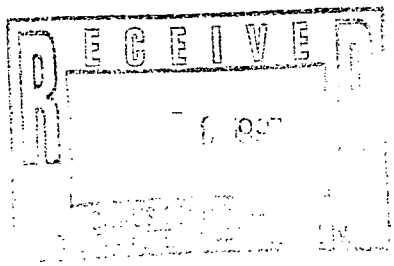
Sampling Date/Time: 07/17/97 10:45
Report Period: 1997/2nd Quarter
Well Purged: NA
Well Type: NA

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Metals (continued)** | | | | | | | |
| 1037 | Cobalt | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| 001051 | Lead | Grab | N | 3010/6010A | 08/07 00:00 | <0.50 ug/l | 0.50 ug/l |
| 001147 | Selenium | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |
| 001077 | Silver | Grab | N | 3010/6010A | 08/07 00:00 | <10 ug/l | 10 ug/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

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# V.O.C. Analytical Laboratories

## REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21458

Cathy Winter

Client Project ID: Task 6
Collected By: Client

| Laboratory Sample # | Client Sample # |
|---|---|
| L21458-1 | Effluent |

Respectfully Submitted,

Signature: Kan Hoffman

Date: 8/1/97

| | | | |
|---|---|---|---|
| QAP# 900376G | HRS# E86240,86356 | NC CERT# 444 | ND CERT# R-148 |
| SUB HRS# 86122,86109,E86048 | ADEM ID# 40850 | SC CERT# 96031 | TN CERT# 02985 |
| CT CERT# PH-0122 | ELPAT# 13801 | CA CERT# I-1068 | USACE CERT |
| VA CERT# 00395 | AZ CERT# AZ0529 | MA CERT# M-FL449 | |

## PARAMETER MONITORING REPORT

Order #: L21458-1
Facility GMS #: 4009C00086
Test Site ID #: N/A
Site Name: Task 6
Well Name: Effluent
GW Elevation (NGVD):
or (MSL): NA

Date Sampled: 07/10/97 11:10
Report Period: 1997/Weekly
Well Purged: NA
Well Type:
Groundwater Class: G-II

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | Detection Limit/Units |
|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | |
| 31616 | Fecal Coliform | Grab | N | SM9222D | 07/11/97 15:10 | Absentcfu/100ml | 1 /100mL |
| **Field Services** | | | | | | | |
| 000094 | Conductivity | Grab | N | 120.1 | 07/10/97 11:15 | 4200umhos/cm | |
| 000406 | Field pH | Grab | N | 150.1 | 07/10/97 11:15 | 8.7 | |
| 000010 | Field Temp | Grab | N | 170.1 | 07/10/97 11:15 | 31.0 Deg. C | 0.10 |
| **Inorganics/Other** | | | | | | | |
| 80082 | Carbonaceous BOD | Grab | N | SM5210B | 07/16/97 10:00 | 2.0 mg/l | 2.0 mg/l |
| **General Chemistry** | | | | | | | |
| 00630 | Total Kjeldahl Nitrogen | Grab | N | 351.2 | 07/16/97 00:00 | 3.2 mg/l | 0.40 mg/l |
| 00665 | Total Phosphate | Grab | N | 365.1 | 07/15/97 14:00 | 14 mg/l | 0.25 mg/l |
| 900202 | Total Suspended Solids | Grab | N | 160.2 | 07/12/97 00:00 | 8.0 mg/l | 4.0 mg/l |
| **General Chemistry** | | | | | | | |
| 000610 | Ammonia | Grab | N | 350.3 | 07/17/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00340 | Chemical Oxygen Demand | Grab | N | 410.4 | 07/17/97 00:00 | 200 mg/l | 1.0 mg/l |
| 00620 | Nitrate | Grab | N | 300.0 | 07/17/97 00:00 | BDL Q mg/l | 0.050 mg/l |
| 00630 | Nitrate-Nitrite | Grab | N | 300.0 | 07/17/97 00:00 | <0.050 mg/l | 0.050 mg/l |
| 00406 | pH | Grab | N | 150.1 | 07/11/97 12:20 | 7.8 | 0.10 |
| 61571 | Nitrogen, Total | Grab | N | Calc. | 07/23/97 15:30 | 3.2 mg/l | 0.040 mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# VOC Analytical Laboratories

3231 N.W. 7TH AVENUE • BOCA RATON, FL 33431
1-(888)VOC-LABS • FAX 1-(888)456-4846

V.O.C. Log # 21452

## Chain of Custody Record

Quote # _____

Company Name Citrus County Solid Waste
Address P.O. Box 340
City Lecanto State FL. Zip 34460
Attn: Cathy Winter Fax #
Project Name / Number WEEKLY EFFLUENT - TASK-6 PO#
Sampler Name / Signature Bob Robinett Phone #

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code* | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 071097 | 11:10 | WW | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |

**LAB ANALYSIS**

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample | | | | | | | | | | | | | | | |
| pH | | | | | | | | | | | | | | | |
| Pres Codes | | | | | | | | | | | | | | | |
| Parameters | EFF_Task6 | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | |

Field Filtered (Y/N)
Integrity OK (Y/N)

**Matrix Codes ***

| | | | |
|---|---|---|---|
| SD | Solid Waste | OL | Oil |
| GW | Ground Water | SL | Sludge |
| EFF | Effluent | SO | Soil Sediment |
| AFW | Analyte Free $H_2O$ | AQ | Aqueous |
| WW | Waste Water | NA | Nonaqueous |
| DW | Drinking Water | PE | Petroleum |
| SU | Surface Water | O | Other (Please Specify) |

**Pres Codes**

| | |
|---|---|
| A- None | E- HCl |
| B- $HNO_3$ | F- MeOH |
| C- $H_2SO_4$ | I- Ice |
| D- NaOH | O- Other |

**REMARKS**

DATE 7-11-97
TIME 1220
PH LAB @ 7.83
DONE BY SS VOC BOCA

ORIGINAL

Short Hold (Y) N
Ice (Y) N
QA/QC Report Level None 1 2 3 Other
COC OK (Y) N
Initials SS

| T.A.T. Request | RUSH | Custody Seals | Temp Control | Local Job |
|---|---|---|---|---|
| Standard | Date required | Y (N) | WET ICE °C | Y (N) |

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | | 7/1/97 | 1309 | | 071097 | 9:00 |
| | | 071097 | 13:50 | | 71097 | 1830 |
| | | 071197 | 8:30 | | 7-11-97 | 1300 |

C.O.C. # 012479

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JUL 24 1997

# V.O.C. Analytical Laboratories

## REPORT OF ANALYSIS

Citrus County Solid Waste
Lecanto, FL 34460-0340

Log #: L21233

Cathy Winter

Client Project ID: Weekly Effluent
Collected By: VOC-B.Dodsworth

| Laboratory Sample # | Client Sample # | Description of Analysis | Analytical Method |
|---|---|---|---|
| L21233-1 | Effluent | | |
| | | Total Ammonia | 350.1 |
| | | Carbonaceous BOD | SM5210B |
| | | Chemical Oxygen Demand | 410.4 |
| | | Fecal Coliform | SM9222D |
| | | Field Service Information | |
| | | Environmental Conditions | n/a |
| | | Field Parameters | n/a |
| | | Plumbing Data | n/a |
| | | Sample Appearance | n/a |
| | | Sampling Information | n/a |
| | | Well Purge Data | n/a |
| | | Well Specifications | n/a |
| | | Nitrate Analysis by IC | 300.0 |
| | | pH | 150.1 |
| | | Phosphorus by SFA | 365.1 |
| | | Field Service Sampling Time | n/a |
| | | Total Nitrogen Group | Calc. |
| | | Nitrate-Nitrite by IC | 300.0 |
| | | Total Kjeldahl Nitrogen | 351.2 |
| | | Total Nitrogen | Calc |
| | | Total Suspended Solids | 160.2 |

Respectfully Submitted,

Signature: [signature]

Date: 7/18/97

QAP# 900376G
SUB HRS# 86122,86109,E86048
CT CERT# PH-0122
VA CERT# 00395

HRS# E86240,86356
ADEM ID# 40850
ELPAT# 13801
AZ CERT# AZ0529

NC CERT# 444
SC CERT# 96031
CA CERT# I-1068
MA CERT# M-FL449

ND CERT# R-148
TN CERT# 02985
USACE CERT

Client: Citrus County Solid Waste Report of Analysis for DER

Weekly Effluent

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |
| Evacuation Method: | Grab |

**Sample Appearance**

| | |
|---|---|
| Tint: | Light |
| Color: | Tan |
| Turbidity: | Light |
| Odor: | Light |

**Environmental Conditions**

| | |
|---|---|
| Wind: | W. 5-10 |
| Rain: | None |
| Air (^C): | 27.5 |
| Atmosphere: | PC |
| Other: | |

## PARAMETER MONITORING REPORT

**Part III: Analytical Results**

**Facility GMS #:**
**Test Site ID #:**
**Well Name:** Effluent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/02/97 11:40
**Report Period:**
**Well Purged:** NO
**Well Type:**

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Bacteriological** | | | | | | | | | |
| 31616 | Fecal Coliform | | N | SM9222D | 07/03/97 15:50 | ABSENTcfu/100ml | | 1 | /100mL |
| **Field Parameters** | | | | | | | | | |
| 00010 | First Temperature | | N | | 07/02/97 11:40 | 31 | | | |
| 00094 | First Conductivity | | N | | 07/02/97 11:40 | 4100 | | | |
| | First pH | | N | | 07/02/97 11:40 | 7.8 | | | |
| **Plumbing Data** | | | | | | | | | |
| | Sample Flowrate | | N | | 07/02/97 11:40 | ~80-100 | | | |
| **Inorganics/Other** | | | | | | | | | |
| 80082 | Carbonaceous BOD | | N | SM5210B | 07/08/97 10:30 | 3.0 | mg/l | 2.0 | mg/l |
| **General Chemistry** | | | | | | | | | |
| 00619 | Ammonia | | N | 350.1 | 07/03/97 00:00 | 0.16 | mg/l | 0.050 | mg/l |
| **General Chemistry** | | | | | | | | | |
| 00530 | Total Suspended Solids | | N | 160.2 | 07/03/97 00:00 | 10 | mg/l | 2.0 | mg/l |
| **General Chemistry** | | | | | | | | | |
| 00620 | Nitrate | | N | 300.0 | 07/03/97 00:00 | <0.050 | mg/l | 0.050 | mg/l |
| 00665 | Total Phosphorus | | N | 365.1 | 07/08/97 00:00 | 14 | mg/l | 0.10 | mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

**Weekly Effluent**

**Well Specifications**

| | |
|---|---|
| Diameter (in): | NA |
| Water Level (ft): | NA |
| Total Depth (ft): | NA |
| Column Height (ft): | NA |
| Column Volume (gal): | NA |
| Evacuation (gal): | NA |
| Actual (gal): | NA |
| Evacuation Method: | Grab |

**Sample Appearance**

| | |
|---|---|
| Tint: | Light |
| Color: | Tan |
| Turbidity: | Light |
| Odor: | Light |

**Environmental Conditions**

| | |
|---|---|
| Wind: | W. 5-10 |
| Rain: | None |
| Air (^C): | 27.5 |
| Atmosphere: | PC |
| Other: | |

**PARAMETER MONITORING REPORT**

**Part III: Analytical Results**

**Facility GMS #:**
**Test Site ID #:**
**Well Name:** Effluent
**Classification of Groundwater:** G-II
**GW Elevation (NGVD):**
**or (MSL):** NA

**Sampling Date/Time:** 07/02/97 11:40
**Report Period:**
**Well Purged:** NO
**Well Type:**

| Storet Code | Parameter Monitored | Samp Meth | Field Filtr | Analysis Method | Analysis Date/Time | Analysis Result/Units | | Detection Limit/Units | |
|---|---|---|---|---|---|---|---|---|---|
| **Inorganics/Other (continued)** | | | | | | | | | |
| 00630 | Total Kjeldahl Nitrogen | | N | 351.2 | 07/08/97 00:00 | 4.3 | mg/l | 0.40 | mg/l |
| **General Chemistry** | | | | | | | | | |
| 00340 | Chemical Oxygen Demand | | N | 410.4 | 07/08/97 00:00 | 200 | mg/l | 10 | mg/l |
| 00630 | Nitrate-Nitrite | | N | 300.0 | 07/08/97 00:00 | <1.0 | mg/l | 1.0 | mg/l |
| 00406 | pH | | N | 150.1 | 07/09/97 00:00 | 7.9 | | 0.10 | |
| 61571 | Nitrogen, Total | | N | Calc. | 07/16/97 12:00 | 4.3 | mg/l | 0.040 | mg/l |

Well development: pumping the well prior to sampling to obtain representative ground water samples.

# Chain of Custody Record

LAB USE ONLY

V.O.C Log # L21233

Login L # P220

BAR CODE

## V.O.C. Analytical Laboratories

Company Name: Citrus County Solid Waste

Address: P.O. Box 340

City: Lecanto State: FL Zip: 34460

Attn: Cathy Winter fax #

Project Name / Number: Weekly Effluent - Task 6

Sampler Name / Signature

| # | Sample Label (Client ID) | Collected Date | Collected Time | Matrix Code | #of Cont |
|---|---|---|---|---|---|
| 1 | Effluent | 070297 | 11:40 | W.W. | 4 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 0 | | | | | |

LAB ANALYSIS

| Sample | pH | Pres Codes | Parameters | Field Filtered (Y/N) | Integrity OK (Y/N) |
|---|---|---|---|---|---|
| | | | Eff_Task 6 | | |
| | | | X | | |

Comments

ORIGINAL

**Matrix Codes ***

| | | | |
|---|---|---|---|
| S | Solid Waste | SW | Surface Water |
| GW | Ground Water | OI | Oil |
| EFF | Effluent | SL | Sludge |
| AFW | Analyte Free H2O | SO | Soil Sediment |
| WW | Waste Water | O | Other |
| DW | Drinking Water | | (Please Specify) |

**Pres Codes ****

| | | | |
|---|---|---|---|
| A- None | | F- MeOH | |
| B- $HNO_3$ | | I- Ice | |
| C- $H_2SO_4$ | | O- Other | |
| D- NaOH | | | |
| E- HCl | | | |

Short Hold: (Y) N

Ice: (Y) N

QA/QC Report Level: None ____ 1 ____ 2 ____ 3 ____ Other

COC OK: Y N Initials: SB

T.A.T. Request: Standard

RUSH: Date required

Custody Seals: (Y) N

Temp Control: will ice C

Local Job: Y (N)

| Item | Relinquished by | Date | Time | Received by | Date | Time |
|---|---|---|---|---|---|---|
| 1 | [signature] | 6/9/97 | 1317 | Bob Dahnert | 070297 | 10:00 |
| | Bob Dahnert | 7/2/97 | 14:15 | [signature] | 7/3/97 | 1245 |

V.O.C. Analytical Laboratories
3231 N.W. 7th Avenue • Boca Raton, FL 33431
1-(888) VOC-LABS • Fax 1-888-456-4846

C.O.C. # 003858