CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To: D.E.R.

JUL 28 1993

SOUTHWEST DISTRICT
TAMPA

July 26, 1993 Utilities Division

Dept. of Environmental Protection
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories. Please note that exceeded MCL's are hi-lited on these analysis reports as stipulated by permit.

This report is for the month of June, 1993.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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

D.E.R.
JUL 28 1993
SOUTHWEST DISTRICT
TAMPA

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 17-610.668(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
813-621-5561

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

Southeast District
1900 S Congress Ave, Suite A
West Palm Beach, Florida 33406

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 II - General Information

(1) Month JUNE Year 1993

(2) Plant's DER Identification Number 400900086

(3) Plant Name LANDFILL Leachate Plant

(4) Plant Address S.R. 44 3mi. E. of Lecanto

(5) City Lecanto

(6) County CITRUS

(7) Phone Number 904/746-2694

(8) Permit Number SC09-187229

(9) Plant Type I-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. 8704

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator [signature] (Signature) C-8704 Cert. No.

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.0087
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.010
(19) Percent of permitted capacity	%	—	.33%
(20) $CBOD_5$ Effluent	mg/L	080082	<2.0
(21) $CBOD_5$ Effluent	lbs/day	—	<0.15
(22) TSS Effluent	mg/L	900201	<5.0
(23) TSS Effluent	lbs/day	—	<0.36
(24) Minimum pH		—	6.8
(25) Maximum pH		—	8.6
(26) Total N	mg/L	000600	
(27) TKN	mg/L	000625	
(28) Ammonia (NH_3 - N)	mg/L	000610	
(29) Nitrate	mg/L	071850	.79
(30) Total Phosphorus	mg/L	000665	
(31) Minimum Chlorine Residual	mg/L	—	0.8
(32) Maximum Chlorine Residual	mg/L	—	3.5
(33) Other Effluent Parameters			
ALKALINITY	mg/L		380
CHLORIDE	mg/L		520
TDS	mg/L		1700
TOC	mg/L		46
LEAD	mg/L		<0.0050

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

(34)

Month June Year 1993

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)	ALKALINITY	CHLORIDE	TDS	TOC	LEAD	
1	0	-																	
2	020	1.7						8.3											
3	010	0.9				42.0	45.0	8.6			79		<1.0	770	520	1700	46	<0.0050	
4	005	1.3						8.5											
5	010	1.5						8.5											
6	0	0.8						8.5											
7	010	1.2						8.5											
8	010	2.5						8.5											
9	0	-						-											
10	016	1.2						6.8					<1.0	310					
11	0	-						-											
12	010	1.5						8.4											
13	010	1.0						8.4											
14	010	1.0						8.3											
15	010	1.0						8.5											
16	0	-						-											
17	002	1.2						7.2					<1.0	220					
18	0	-						-											
19	010	1.5						8.5											
20	0	0.9						8.4											
21	010	1.0						8.3											
22	010	0.8						7.2											
23	0	-						-											
24	015	1.5						7.0					<1.0	222					
25	0	3.5						8.5											
26	0	-						-											
27	020	1.5						8.5											
28	030	1.3						8.3											
29	030	2.5						8.5											
30	025	2.5						8.5											

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: _____ Date: 7-23-93

Name (Please Type) Lyle F. Steady

Company Name Citrus County Utilities Division

Telephone No. (Please Type) 904-746-2694

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930610 / 0246

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 6/10/93
TIME SAMPLED: 9:45 am
DATE RECEIVED: 6/10/93

ANALYSIS: pH, Alkalinity, Fecal

SAMPLE MARKINGS: Effluent
SITE: Landfill PAC Plant # 2 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
pH	150.1	std.units	6.80	TD	6/10/93
Alkalinity	310.2	mg/l	310	TD	6/12/93
Fecal	909C	CTS/100ml	<1.0	TD	6/11/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWAR... D.E.P. ...
DATE: 7/26 ... 93

JUN ... 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUL 28 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930617 / 0272

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 6/17/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 6/17/93

ANALYSIS: pH, Alkalinity, Fecal

SAMPLE MARKINGS: Effluent
SITE: PAC Plant #1 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
pH	150.1	std.units	7.2	TI	6/17/93
Alkalinity	310.2	mg/l	220	TD	6/18/93
Fecal	909C	CTS/100ml	<1.0	TI	6/18/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
JUL - 1 1993

FORWARDED
DER
DATE: 7/26 93

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930624 / 0309

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 6/24/93
TIME SAMPLED: 10:30 am
DATE RECEIVED: 6/24/93

ANALYSIS: pH, Alkalinity, Fecal

SAMPLE MARKINGS: Effluent
SITE: Landfill PAC Plant #1 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
pH	150.1	std.units	7.0	TD	6/24/93
Alkalinity	310.2	mg/l	222	TD	6/24/93
Fecal	909C	CTS/100ml	<1.0	TI	6/25/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
JUL - 1 1993
FORWARDED
D.E.R. TAMPA
DATE 7/2/93

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.059
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.63
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	79
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	420
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	<5.0
Chloroform, ug/l	<1.0
Dichlorobromomethane, ug/l	<1.0
Dibromochloromethane, ug/l	<1.0

RECEIVED
JUN 25 1993

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.020
Turbidity, NTU	1.8
Microbiological	
Total Coliform MF, Col/100 ml	42
Fecal Coliform MF, Col/100 ml	<1
Gross Alpha, pCi/l	4.1+/-1.9
Gross Beta, pCi/l	210+/-5
Chloride, mg/l	520
Color, PCU	60
Copper, mg/l	<0.025
Corrosivity (saturation index)	+1.7
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	0.087
Manganese, mg/l	0.023
Odor, TON	16
pH, units	8.6
Sulfate as SO4, mg/l	19
Total Dissolved Solids, mg/l	1700

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Zinc, mg/l	0.039
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.18

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30971-1	Leachate Effluent	06-03-93

PARAMETER	30971-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0
Carbon, Total Organic, mg/l	46
Chemical Oxygen Demand, mg/l	140
Biochemical Oxygen Demand, mg/l	<2.0
Suspended Solids, mg/l	<5.0
Alkalinity (to pH 4.5) as CaCO3, mg/l	770

ND* = Not detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

30971-2 Lab Blank
30971-3 Accuracy (% Recovery)
30971-4 Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Arsenic, mg/l	<0.010	96 %	13 %
Barium, mg/l	<0.010	90 %	0 %
Cadmium, mg/l	<0.0050	92 %	0 %
Chromium, mg/l	<0.010	88 %	1.1 %
Fluoride, mg/l	<0.20	105 %	1.7 %
Lead, mg/l	<0.0050	97 %	4.1 %
Mercury, mg/l	<0.00020	106 %	1.9 %
Nitrate-N, mg/l	<0.050	97 %	0 %
Selenium, mg/l	<0.010	98 %	1.0 %
Silver, mg/l	<0.010	80 %	0 %
Sodium, mg/l	<0.50	94 %	1.1 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	92 %	6.5 %
Gamma-BHC, ug/l	<0.050	98 %	1.0 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	53 %	23 %
2,4,5-TP Silvex, ug/l	<0.50	63 %	19 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

30971-2 Lab Blank
30971-3 Accuracy (% Recovery)
30971-4 Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	115 %	2.6 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	98 %	22 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	104 %	4.8 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	98 %	3.1 %
Turbidity, NTU	<0.10	103 %	0 %
Microbiological			
Total Coliform MF, Col/100 ml	<1	---	25 %
Fecal Coliform MF, Col/100 ml	<1	---	0 %
Gross Alpha, pCi/l	<0.5	88 %	12 %
Gross Beta, pCi/l	<1	91 %	3.5 %
Chloride, mg/l	<1.0	101 %	1.0 %
Color, PCU	<5	100 %	0 %
Copper, mg/l	<0.025	89 %	0 %
Corrosivity (saturation index)	-5.6	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	114 %	6.2 %
Iron, mg/l	<0.050	92 %	0 %
Manganese, mg/l	<0.010	90 %	0 %
Odor, TON	<1	---	0 %
pH, units	5.6	100 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Sulfate as SO4, mg/l	<5.0	95 %	7.6 %
Total Dissolved Solids, mg/l	<5.0	97 %	1.2 %
Zinc, mg/l	<0.020	90 %	1.1 %
Antimony, mg/l	<0.050	90 %	1.1 %
Beryllium, mg/l	<0.0050	85 %	0 %
Nickel, mg/l	<0.040	92 %	1.1 %
Thallium, mg/l	<0.010	106 %	2.8 %
Phenolics,Total Recoverable, mg/l	<0.010	86 %	3.5 %
Cyanide, Total, mg/l	<0.010	90 %	2.2 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	90 %	1.1 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	75 %	1.3 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	93 %	2.2 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	95 %	1.1 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	84 %	9.5 %
1,2,4-Trichlorobenzene, ug/l	<10	79 %	2.5 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	79 %	0 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	86 %	5.8 %
P-Chloro-m-cresol, ug/l	<10	81 %	2.5 %
Pentachlorophenol, ug/l	<50	82 %	1.2 %
Phenol, ug/l	<10	76 %	1.3 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	108 %	6.5 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	88 %	1.1 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	88 %	0 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	73 %	6.8 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30971

Received: 03 JUN 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 340
Lecanto, Florida 34460-0340

Purchase Order: 11800

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30971-2	Lab Blank
30971-3	Accuracy (% Recovery)
30971-4	Precision (% RPD)

PARAMETER	30971-2	30971-3	30971-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	106 %	2.8 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	101 %	2.0 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---
Carbon, Total Organic, mg/l	<1.0	102 %	6.9 %
Chemical Oxygen Demand, mg/l	<20	104 %	7.6 %
Biochemical Oxygen Demand, mg/l	<2.0	96 %	5.2 %
Suspended Solids, mg/l	<5.0	77 %	19 %
Alkalinity (to pH 4.5) as CaCO3, mg/l	<1.0	97 %	0.87 %

ND* = Not detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

O. NUMBER	PROJECT NUMBER	PROJECT NAME	MATRIX TYPE	REQUIRED ANALYSES	PAGE	OF
		Leachate Effluent				

IENT NAME: Cathy Winter
TELEPHONE/FAX NO.:
IENT ADDRESS:
CITY, STATE, ZIP CODE:
MPLER(S) NAME(S):
CLIENT PROJECT MANAGER: Andre Rakmanoff

☐ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE _____
* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	Inorganics	CN	Rad	Semivol/MTBE	Phenol	TOC/COD	VOC	THM	EDB	T-coli	E-coli	NUMBER OF CONTAINERS SUBMITTED
6/1/93	10:30	Leachate Effluent					1	1	1	4	1	2	4	3	3	5		

JUN 2 5

ORIGINAL

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	6-2-93	4:15		6/2/93	17:00		6/3/93	13:00
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
	6-3-93	1:10	☒ YES ☐ NO		B330971	

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To: D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

June 22, 1993 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories. Please note that exceeded MCL's are hi-lited on these analysis reports as stipulated by permit.

This report is for the month of May, 1993.

Sincerely,

Ralph Hedgecoth

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 Application No. _____ (Assigned by DER)

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

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 17-610.660(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

Southeast District
1900 S Congress Ave, Suite A
West Palm Beach, Florida 33406

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 II - General Information

(1) Month May Year 1993

(2) Plant's DER Identification Number 4609000086

(3) Plant Name Landfill Leachate Plant

(4) Plant Address S.R. 44 3 mi. East of Lecanto

(5) City Lecanto

(6) County Citrus

(7) Phone Number 904/746-2694

(8) Permit Number SC09-187229

(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

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8704

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator [signature] C-8704
Signature Cert. No.

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.005
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.009
(19) Percent of permitted capacity	%	—	33%
(20) $CBOD_5$ Effluent	mg/L	080082	3.0
(21) $CBOD_5$ Effluent	lbs/day	—	.12
(22) TSS Effluent	mg/L	900201	4.3
(23) TSS Effluent	lbs/day	—	.18
(24) Minimum pH		—	6.9
(25) Maximum pH		—	8.8
(26) Total N	mg/L	000600	
(27) TKN	mg/L	000625	2.9
(28) Ammonia (NH_3 - N)	mg/L	000610	4.5
(29) Nitrate	mg/L	071850	9.7
(30) Total Phosphorus	mg/L	000665	
(31) Minimum Chlorine Residual	mg/L	—	0.8
(32) Maximum Chlorine Residual	mg/L	—	3.5
(33) Other Effluent Parameters			
ALKALINITY	mg/L		486

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

SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

JUN 24 1993
SOUTHWEST DISTRICT
TAMPA

(34)

Month May Year 1993

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)	ALKALINITY
1														
2														
3	010	1.5						8.3			5			
4	0	3.5						8.2			-			
5	0	-		415	112			-			-			
6	009	3.5				3.6	4.0	8.5	0.50	5.8	9.15		<1.0	218
7	014	3.5						8.5			3			
8	010													
9		2.5						8.4						
10	010	1.0						8.5			0			
11	010	1.5						8.4			0			
12	010	1.0		170	225			8.5			0			
13	010	2.0				<2.0	<5.0	8.8			0.05		<1.0	1300
14	010	2.5						8.5						
15	0	-						-						
16		1.8						8.4						
17	010	0.8						8.5			7			
18	0	1.0						8.0			5			
19	010	1.3		280	220			8.3			4			
20	010	0.9				3.6	3.8	8.0	5.3	3.2	8.45		<1.0	210
21														
22														
23														
24	010	1.0						8.5			10			
25	010	0.8						8.5			50			
26	0							8.5			-			
27	010	1.5						6.9			10		<1.0	215
28	0	1.9						8.4			<5			
29	0													
30	0							8.4						
31	0							8.4						

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: Lyle F. Steady, Jr. CE704

Date: 6-18-93

Name (Please Type) Lyle F. Steady, Jr.

Company Name Citrus County Utilities Division

Telephone No. (Please Type) 904-746-2694

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930527 / 0171

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/27/93
TIME SAMPLED: 9:00 am
DATE RECEIVED: 5/27/93

ANALYSIS: pH, Alkalinity, Fecal

SAMPLE MARKINGS: Effluent
SITE: Landfill PAC Plant #1 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
pH	150.1	std.units	6.90	TD	5/28/93
Alkalinity	310.2	mg/l	215	TD	5/28/93
Fecal	909C	CTS/100ml	<1.0	TD	5/28/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
JUN 2 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930520

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/20/93
TIME SAMPLED: 9:30 am
DATE RECEIVED: 5/20/93

ANALYSIS: COD, BOD, TKN, Ammonia, Nitrite, Nitrate, TSS, Fecal & Total Coliform, Ortho Phos., Spec. Conduc.

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant # 1 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	11.0	TD	5/21/93
BOD	507sm16th	mg/l	3.6	TD	5/26/93
TKN	351.2	mg/l	5.3	TD	5/31/93
Ammonia	350.1	mg/l	3.2	TD	5/30/93
Nitrate	353.2	mg/l	8.45	TD	5/22/93
Nitrite	353.2	mg/l	<0.01	TD	5/22/93
TSS	160.2	mg/l	3.8	TD	5/22/93
Ortho Phos.	365.2	mg/l	1.05	TD	5/24/93
Spec. Conduc.	120.1	mg/l	295	TD	5/20/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	5/21/93
Total Coli	SM909a	cts/100ml	* A	TD	5/21/93

* A= No colony count

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWARDED TO:
D.E.R. TAMPA
DATE: 6/22/93

JUN 10 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930519

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/19/93
TIME SAMPLED: 10:45 am
DATE RECEIVED: 5/20/93

ANALYSIS: COD, BOD, TKN, TSS, pH, Alkalinity, Ammonia, Total Phosph.

SAMPLE MARKINGS: Plant Influent
SITE: Landfill Pac Plant # 1 Reactor

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	470	TD	5/21/93
BOD	507sm16th	mg/l	280	TD	5/26/93
TKN	351.2	mg/l	62.50	TD	5/31/93
Ammomia	350.1	mg/l	34.5	TD	5/30/93
pH	150.1	std units	7.42	TD	5/20/93
T.S.S	160.2	mg/l	220	TD	5/21/93
Alkalinity	310.1		210	TD	5/21/93
Total Phos	365.1	mg/l	11.5	TD	5/24/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

JUN 10 1993

FOR... TO:
D.E.R. TAMPA
DATE: 6/22, 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.
JUN 24 1993
SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930512

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/12/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 5/13/93

ANALYSIS: COD, BOD, Nitrate, Ammonia, Nitrite, TKN, Spec. Conductivity Ortho Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant (Reactor # 3)

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	<5.0	TD	5/18/93
BOD	405.1	mg/l	3.70	TD	5/18/93
Nitrate	353.2	mg/l	4.0	TI	5/14/93
Nitrite	353.1	mg/l	<0.01	TD	5/16/93
Spec. Cond.	120.1	ughos/cm	322	TI	5/13/93
Ortho. Phos	365.1	mg/l	0.9	TD	5/15/93
Fecal Coli	SM909c	cts/100ml	<1.0	TD	5/14/93
Total Coli	SM909c	cts/100ml	A	TD	5/14/93

* A= No colony count

BOD IN 51393 AT 1400 OUT 51893 AT 1400

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWARDED TO:
D.E.R. TAMPA
DATE: 6/22, 19 93

RECEIVED
MAY 20 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930512

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/12/93
TIME SAMPLED: 10:30 am
DATE RECEIVED: 5/13/93

ANALYSIS: COD, BOD, TKN, pH, TSS, Ammonia, Phos., Alkalinity

SAMPLE MARKINGS: Plant Influent
SITE: Landfill PAC Plant Reactor #3

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	365	TD	5/14/93
BOD	405.1	mg/l	170	TD	5/18/93
Ammonia	350.1	mg/l	9.2	TI	5/18/93
TSS	160.2	mg/l	225	TI	5/14/93
TKN	351.2	mg/l	22.8	TI	5/18/93
Phos	365.2	mg/l	8.2	TD	5/13/93
pH	150.1	mg/l	6.9	TD	5/13/93
Alkalinity	310	mg/l	320	TD	5/13/93

BOD IN 51393 AT 1400 OUT 51893 AT 1400

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
MAY 20 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/22, 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930506 ~~930512~~

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/~~12~~5/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 5/~~13~~6/93

ANALYSIS: COD, BOD, Nitrate, Ammonia, Nitrite, TKN, Spec. Conductivity Ortho Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant (Reactor # 3)

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	<5.0	TD	5/08/93
BOD	405.1	mg/l	3.60	TD	5/11/93
Nitrate	353.2	mg/l	9.15	TI	5/08/93
Nitrite	353.1	mg/l	<0.01	TD	5/08/93
Spec. Cond.	120.1	ughos/cm	380	TI	5/07/93
Ortho. Phos	365.1	mg/l	1.4	TD	5/10/93
Fecal Coli	SM909c	cts/100ml	<1.0	TD	5/07/93
Total Coli	SM909c	cts/100ml	A	TD	5/07/93
TSS		mg/l	4.0	TI	5/08/93
Ammonia		mg/l	5.8	TD	5/05/93
TKN		mg/l	0.50	TI	5/15/93
Alkalinity		mg/l	218	TD	5/08/93
Tot. Phos.		mg/l	2.8	TI	5/15/93

* A= No colony count

BOD IN 50793 AT 1400 OUT 51293 AT 1400

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWARDED TO: D.E.R. TAMPA
DATE: 6/22, 1993

RECEIVED
MAY 20 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.

JUN 24 1993

SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930506

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 5/05/93
TIME SAMPLED: 11:45 am
DATE RECEIVED: 5/06/93

ANALYSIS: COD, BOD, TSS, Ammonia, TKN, Phosphorus

SAMPLE MARKINGS: Plant Influent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	415	TD	5/08/93
BOD	507sm16th	mg/l	348	TD	5/11/93
TKN	351.2	mg/l	72.0	TI	5/15/93
TSS		mg/l	112	TD	5/08/93
Ammonia	350.1	mg/l	36.4	TI	5/15/93
Phosphorus	365.2	mg/l	12.6	TI	5/09/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
MAY 20 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 6/22/1993

CITRUS COUNTY PUBLIC WORKS
1300 South Lecanto Highway • P.O. Box 340
Lecanto, Florida 34460
(904)746-5009 FAX (904)527-1204

MEMORANDUM

DATE: JUNE 4, 1993

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: SUSAN J. METCALFE, P.G., DIRECTOR, DIVISION OF SOLID WASTE MANAGEMENT SJM

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH. CJW

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the May sampling of effluent at the Leachate Treatment Facility.

Please include in your May report submittal to the Department of Environmental Regulation.

CJW:cjw

CC: Robert Merkel, Utilities Operation Supervisor ✓

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.087
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.70
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	<0.050
Selenium, mg/l	<0.020*F65
Silver, mg/l	<0.010
Sodium, mg/l	500
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	<5.0
Chloroform, ug/l	<1.0
Dichlorobromomethane, ug/l	<1.0
Dibromochloromethane, ug/l	<1.0

RECEIVED
JUN - 3 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 6/22 93

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.020
Turbidity, NTU	0.70
Microbiological	
Total Coliform MF, Col/100 ml	130
Fecal Coliform MF, Col/100 ml	<1
Gross Alpha, pCi/l	2.4+/-1.0
Gross Beta, pCi/l	216+/-3
Chloride, mg/l	550
Color, PCU	25
Copper, mg/l	<0.025
Corrosivity (saturation index), mg/l	+1.7
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	0.14
Manganese, mg/l	0.023
Odor, TON	4
pH, units	8.8
Sulfate as SO4, mg/l	41
Total Dissolved Solids, mg/l	1700

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
Zinc, mg/l	0.038
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.039

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1				
Pesticides/PCB's					
Aldrin, ug/l	<0.050				
Alpha-BHC, ug/l	<0.050				
Beta-BHC, ug/l	<0.050				
Delta-BHC, ug/l	<0.050				
Chlordane, ug/l	<0.50				
4,4'-DDT, ug/l	<0.10				
4,4'-DDE, ug/l	<0.10				
4,4'-DDD, ug/l	<0.10				
Dieldrin, ug/l	<0.10				
Alpha-Endosulfan, ug/l	<0.050				
Beta-Endosulfan, ug/l	<0.10				
Endosulfan Sulfate, ug/l	<0.10				
Endrin Aldehyde, ug/l	<0.10				
Heptachlor, ug/l	<0.050				
Heptachlor Epoxide, ug/l	<0.050				
PCB-1242, ug/l	<1.0				
PCB-1254, ug/l	<1.0				
PCB-1221, ug/l	<2.0				
PCB-1232, ug/l	<1.0				
PCB-1248, ug/l	<1.0				
PCB-1260, ug/l	<1.0				
PCB-1016, ug/l	<1.0				

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30839-1	Leachate Effluent	05-13-93

PARAMETER	30839-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0
Carbon, Total Organic, mg/l	44
Chemical Oxygen Demand, mg/l	<20
Biochemical Oxygen Demand, mg/l	<2.0
Suspended Solids, mg/l	<5.0
Alkalinity (to pH 4.5) as CaCO3, mg/l	1300

*F65=Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = Not detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Arsenic, mg/l	<0.010	106 %	0.95 %
Barium, mg/l	<0.010	102 %	0 %
Cadmium, mg/l	<0.0050	96 %	1.0 %
Chromium, mg/l	<0.010	96 %	0 %
Fluoride, mg/l	<0.20	102 %	0.39 %
Lead, mg/l	<0.0050	103 %	0 %
Mercury, mg/l	<0.00020	103 %	1.9 %
Nitrate-N, mg/l	<0.050	101 %	1.3 %
Selenium, mg/l	<0.010	95 %	2.1 %
Silver, mg/l	<0.010	91 %	0 %
Sodium, mg/l	<0.50	106 %	0.95 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	121 %	6.6 %
Gamma-BHC, ug/l	<0.050	103 %	14 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	50 %	2.0 %
2,4,5-TP Silvex, ug/l	<0.50	64 %	1.6 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	80 %	14 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	85 %	8.2 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	69 %	1.5 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	104 %	0.96 %
Turbidity, NTU	<0.10	103 %	0 %
Microbiological			
Total Coliform MF, Col/100 ml	<1	---	10 %
Fecal Coliform MF, Col/100 ml	<1	---	0 %
Gross Alpha, pCi/l	<0.5	82 %	0 %
Gross Beta, pCi/l	<1.0	99 %	0 %
Chloride, mg/l	<1.0	98 %	1.0 %
Color, PCU	<5	100 %	0 %
Copper, mg/l	<0.025	96 %	0 %
Corrosivity (saturation index), mg/l	-4.8	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	112 %	6.3 %
Iron, mg/l	<0.050	98 %	1.0 %
Manganese, mg/l	<0.010	97 %	0 %
Odor, TON	<1	---	0 %
pH, units	6.4	101 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Sulfate as SO4, mg/l	<5.0	93 %	3.2 %
Total Dissolved Solids, mg/l	<5.0	98 %	2.3 %
Zinc, mg/l	<0.020	96 %	1.0 %
Antimony, mg/l	<0.050	96 %	0 %
Beryllium, mg/l	<0.0050	98 %	1.0 %
Nickel, mg/l	<0.040	99 %	0 %
Thallium, mg/l	<0.010	108 %	2.8 %
Phenolics,Total Recoverable, mg/l	<0.010	91 %	0 %
Cyanide, Total, mg/l	<0.010	88 %	3.4 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	73 %	12 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	67 %	15 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	76 %	7.9 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	82 %	11 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	82 %	9.8 %
1,2,4-Trichlorobenzene, ug/l	<10	68 %	16 %
2,3,7,8-TCDD	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	73 %	12 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	72 %	6.9 %
P-Chloro-m-cresol, ug/l	<10	79 %	11 %
Pentachlorophenol, ug/l	<50	32 %	3.1 %
Phenol, ug/l	<10	66 %	14 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	87 %	8.0 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	99 %	6.1 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	112 %	11 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	96 %	1.0 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30839

Received: 13 MAY 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 11667

Project: Citrus Cty. Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30839-2	Lab Blank
30839-3	Accuracy (% Recovery)
30839-4	Precision (% RPD)

PARAMETER	30839-2	30839-3	30839-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	108 %	0.93 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	106 %	0.94 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---
Carbon, Total Organic, mg/l	<1.0	116 %	1.7 %
Chemical Oxygen Demand, mg/l	<20	97 %	0 %
Biochemical Oxygen Demand, mg/l	<2.0	94 %	6.5 %
Suspended Solids, mg/l	<5.0	81 %	2.1 %
Alkalinity (to pH 4.5) as CaCO3, mg/l	<1.0	97 %	0 %

ND* = Not detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

☐ 5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax (904) 878-9504
☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 — Phone: (305) 421-7400 — Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 — Phone: (205) 666-6633 — Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME	PAGE	OF
		Leachate		

CLIENT NAME: Cathy Winter — TELEPHONE/FAX NO.:

CLIENT ADDRESS: — CITY, STATE, ZIP CODE:

SAMPLER(S) NAME(S): Chris Harris — CLIENT PROJECT MANAGER: Andrea Lachmanoff

☒ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE _____
* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	REQUIRED ANALYSES: Semi-vol, MS/MS	CN	Phenol	Inorganics	Metals	VOC	TKN	EDB	T-coli	F-coli	Rad
							NUMBER OF CONTAINERS SUBMITTED										
5/1/93	10:30	Leachate Effluent					6	1	1	1	1	3	3	2	5	1	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
EMPTY BOTTLES	5-4-93	4:15		5/4/93	17:00		5/5/93	13:15
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
J. Hank	5-13-93	1:45	☒ YES ☐ NO		B330839	

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

D.E.R.

MAY 24 1993

SOUTHWEST DISTRICT
TAMPA

May 17, 1993 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories. Please note that exceeded MCL's are hi-lited on these analysis reports as stipulated by permit.

This report is for the month of April, 1993.

Sincerely,

Ralph Hedgecoth ckn

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

MAY 24 1993
SOUTHWEST DISTRICT
TAMPA

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(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 April Year 1993

(2) Plant's DER Identification Number 400900086

(3) Plant Name Landfill Leachate Plant

(4) Plant Address S.R. 44 - 3 miles East of Lecanto

(5) City Lecanto

(6) County Citrus

(7) Phone Number 904 - 746-2694

(8) Permit Number SC09-187229

(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

Evap/Perc Pond

(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 A Cert. No. A#45016

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Robert G Mudd (Signature) A-45016 Cert. No.

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.0096
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.011
(19) Percent of permitted capacity	%	—	27%
(20) %BOD_5 Effluent	mg/L	080082	3.2
(21) %BOD_5 Effluent	lbs/day	—	.26
(22) TSS Effluent	mg/L	900201	3.7
(23) TSS Effluent	lbs/day	—	.30
(24) Minimum pH		—	6.8
(25) Maximum pH		—	8.5
(26) Total N	mg/L	000600	
(27) TKN	mg/L	000625	
(28) Ammonia (NH_3 - N)	mg/L	000610	
(29) Nitrate	mg/L	071850	
(30) Total Phosphorus	mg/L	000665	
(31) Minimum Chlorine Residual	mg/L	—	
(32) Maximum Chlorine Residual	mg/L	—	
(33) Other Effluent Parameters			
TOT. ALKALINITY			
CHLORIDES	MG/L		420
LEAD	MG/L		L.005
COD	MG/L		60
TOC	MG/L		31
TDS	MG/L		1700

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)

D.E.R.
MAY 24 1993
SOUTHWEST DISTRICT
TAMPA

SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

(34)

Month April Year 93

Day of the Month	Flow (mgd)	Chlorine Residual after Contact	Chlorine Residual after Dechlorination	BOD_5 Influent (mg/L)	TSS Influent (mg/L)	BOD_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)	TOC	TDS	COD	Chlorides	Total Alkalinity	LEAD	
1	0.20	3.5						8.5												
2	⊖																			
3	0.30																			
4	⊖	2.0																		
5	0.10	1.2						8.2												
6	0.20	1.0						8.2												
7	0.40	2.0		141	175			8.4												
8	0.10	2.0				4.2		6.8	7.0		3.8		<1.0		210	50				
9	0.10	2.0						8.5												
10	⊖	1.5																		
11	⊖	1.5						8.4												
12	⊖																			
13	⊖	1.0						7.5												
14	0.20	3.0		156	92			7.7												
15	0.20	3.2				2.18	3.2	8.05	7.80		3.45		<1.0			75		212		
16	⊖					15	<5	8.5			(77)		<1	31	1700	99	420	660	.005	
17	⊖																			
18	⊖	1.0						8.4												
19	0.10	3.5						8.3												
20	0.10	2.5						8.2												
21	0.40	2.0		195	210			8.4												
22	0.10	2.5				3.56	4.5	8.5			4.5		<1.0			55		312		
23	0.10	2.0																		
24	⊖																			
25	⊖	1.5						8.4												
26	0.10	1.5						8.5												
27	0.10	3.0						8.1												
28	0.10	3.5		318	220			8.1												
29	0.10	2.5				2.8	3.5	8.4	2.9		5.2		<1		[illegible]	10.5				
30	⊖	2.0						8.4												

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: Robert G. Merkel

Date: May 14, 1993

Name (Please Type) Robert G. Merkel

Company Name Citrus County Utilities Division

Telephone No. (Please Type) 904-746-2694

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

D.E.R.
MAY 24 1993
SOUTHWEST DISTRICT
TAMPA

REPORT OF ANALYSIS

REPORT NUMBER: 930429

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/29/93
TIME SAMPLED: 9:30 am
DATE RECEIVED: 04/29/93

ANALYSIS: COD, BOD, TKN, Ammonia, Nitrite, Nitrate, TSS, Fecal & Total Coliform, Ortho Phos., Spec. Conduc.

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	10.5	TD	5/02/93
BOD	507sm16th	mg/l	2.8	TD	5/02/93
TKN	351.2	mg/l	2.89	TI	5/04/93
Ammonia	350.1	mg/l	1.25	TI	5/04/93
Nitrate	353.2	mg/l	5.2	TI	4/30/93
Nitrite	353.2	mg/l	<0.01	TD	4/30/93
TSS	160.2	mg/l	3.5	TD	4/30/93
Ortho Phos.	365.2	mg/l	1.56	TI	5/04/93
Spec. Conduc.	120.1	mg/l	318	TD	4/29/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	4/30/93
Total Coli	SM909a	cts/100ml	* A	TD	4/30/93

* A= No colony count

FORWARDED
D.E.R.
DATE: 5/14/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

MAY 13 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930428

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/28/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 04/28/93

ANALYSIS: COD, BOD, TSS, Ammonia, TKN, pH, Alkalinity Phosphorus

SAMPLE MARKINGS: Plant Influent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	487	TD	5/02/93
BOD	507sm16th	mg/l	318	TD	5/02/93
TKN	351.2	mg/l	15.8	TI	5/04/93
Ammonia	350.1	mg/l	10.8	TI	5/04/93
pH	150.1	std.units	7.0	TI	4/29/93
Alkalinity	310.2	mg/l	325	TD	4/29/93
TSS	160.2	mg/l	220	TD	4/30/93
Phosphorus	365.2	mg/l	5.6	TI	5/04/93

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/14, 1993

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-043
HRS # E84338

MAY 13 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930421

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/21/93
TIME SAMPLED: 9:50 am
DATE RECEIVED: 04/22/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Influent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	180	TD	4/22/93
BOD	507sm16th	mg/l	195	TD	4/26/93
Ammonia		mg/l	8.8	TI	4/23/93
TSS	160.2	mg/l	210	TI	4/22/93
TKN		mg/l	20.5	TI	4/23/93
Phos		mg/l	5.8	TD	4/23/93

BOD IN 42293 AT 1500 OUT 42693 AT 1500

FORWARDED TO:
D.E.R. Tallahassee
DATE: 5/14 93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
MAY 6 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930421

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/21/93
TIME SAMPLED: 9:00 am
DATE RECEIVED: 04/22/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	55.00	TD	4/22/93
BOD	507sm16th	mg/l	3.56	TD	4/26/93
Nitrate	353.2	mg/l	4.5	TI	4/22/93
Nitrite	353.1	mg/l	<0.01	TD	4/22/93
TSS	160.2	mg/l	4.5	TI	4/22/93
Spec. Cond.	120.1	ughos/cm	320	TI	4/22/93
Ortho. Phos	365.1	mg/l	0.75	TD	4/23/93
Alkalinity	310.1	mg/l	312	TI	4/22/93
Fecal Coli	SM909c	cts/100ml	<1.0	TD	4/23/93
Total Coli	SM909c	cts/100ml	A	TD	4/23/93

* A= No colony count

BOD IN 42293 AT 1500 OUT 42693 AT 1500

RECEIVED
MAY 6 1993

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/14 19 93

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930415

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 3/15/93
TIME SAMPLED: 9:00 am
DATE RECEIVED: 4/15/93

ANALYSIS: Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
Fecal Coli	SM909c	cts/100ml	<1.0	TI	4/16/93
Total Coli	SM909a	cts/100ml	* A	TD	4/16/93

* A= No colony count

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/14, 1993

APR 29 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930414

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/14/93
TIME SAMPLED: 10:15 am
DATE RECEIVED: 04/15/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	75.00	TD	4/16/93
BOD	507sm16th	mg/l	2.18	TD	4/20/93
TKN	351.2	mg/l	7.80	TI	4/24/93
Ammonia	350.1	mg/l	3.31	TI	4/24/93
Nitrate	353.2	mg/l	3.45	TI	4/20/93
Nitrite	353.1	mg/l	0.14	TD	4/20/93
pH	150.1	std units	8.05	TD	4/15/93
TSS	160.2	mg/l	3.2	TI	4/20/93
Spec. Cond.	120.1	ughos/cm	376	TI	4/15/93
Ortho. Phos	365.1	mg/l	1.20	TD	4/20/93
Alkalinity	310.1	mg/l	212	TI	4/15/93

BOD IN 4/15/93 AT 1645 OUT 4/20/93 AT 1645

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

APR 2 9 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/14, 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930414

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/14/93
TIME SAMPLED: 10:15 am
DATE RECEIVED: 04/15/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Influent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	190	TD	4/16/93
BOD	507sm16th	mg/l	156	TD	4/20/93
TKN	351.2	mg/l	62.12	TI	4/24/93
Ammonia	350.1	mg/l	41.36	TI	4/24/93
TSS	160.2	mg/l	92	TI	4/20/93
Phosphorous	365.1	mg/l	7.45	TD	4/20/93

BOD IN 4/15/93 AT 1645 OUT 4/20/93 AT 1645

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-043
HRS # E24338

FORWARDED TO D.E.R. TAMPA
DATE: 5/14 93

APR 29 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930408

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/08/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 04/08/93

ANALYSIS: COD, BOD, TKN, Nitrate, TSS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill Reactor # 2

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	50.00	TD	4/12/93
BOD	507sm16th	mg/l	4.2	TD	4/12/93
TKN	351.2	mg/l	7.0	TI	4/10/93
Nitrate	353.2	mg/l	3.8	TI	4/10/93
Ammomia	350.1	mg/l	2.5	TI	4/10/93
TDS	160.1	mg/l	210	TD	4/10/93
pH	150.1	std units	6.8	TD	4/10/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	4/09/93
Total Coli	SM909a	cts/100ml	* A	TD	4/09/93

* A= No colony count

FORWARDED TO:
D.E.R. TAMPA
DATE: 5/14 93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

APR 23 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930407

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 04/07/93
TIME SAMPLED: 10:00 am
DATE RECEIVED: 04/08/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, & Fecal

SAMPLE MARKINGS: Influent
SITE: Landfill Reactor # 2

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	155	TD	4/12/93
BOD	507sm16th	mg/l	141	TD	4/12/93
TKN	351.2	mg/l	42.60	TI	4/10/93
TSS	160.2	mg/l	175	TD	4/09/93
Ammonia	350.1	mg/l	11.40	TI	4/10/93
Fecal Coliform	SM909c	cts/100ml	<1.0	TI	4/09/93

BOD IN 040893 AT 1800 BOD OUT AT 041293 AT 1800

FORWARDED TO:
D.E.R. TAL
DATE: 5/14 93

RECEIVED
APR 23 1993

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

MEMORANDUM

DATE: MAY 6, 1993

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: SUSAN J. METCALFE, P.G., DIRECTOR, DIVISION OF SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH.

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - ANNUAL WASTE SLUDGE TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the annual sampling of waste sludge at the Leachate Treatment Facility.

Please include in your April report submittal to the Department of Environmental Regulation.

Please note, DER requires all parameters over MCL to be circled on the report.

MDM:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services
Robert Merkel, Utilities Operation Supervisor

RECEIVED
MAY 11 1993

FORWARDED TO: D.E.R. TAMPA
DATE: 5/14/1993

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1
Cyanide, Total, mg/kg	0.090
Phenolics,Total Recoverable, mg/kg	<0.010
2,4-D, ug/kg	<0.50
2,4,5-TP Silvex, ug/kg	<0.50
Antimony, mg/kg	<0.050
Arsenic, mg/kg	0.21
Beryllium, mg/kg	0.015
Cadmium, mg/kg	<0.0050
Chromium, mg/kg	0.15
Copper, mg/kg	0.29
Lead, mg/kg	0.060
Mercury, mg/kg	<0.00020
Nickel, mg/kg	0.12
Selenium, mg/kg	0.014
Silver, mg/kg	<0.010
Thallium, mg/kg	<0.010
Zinc, mg/kg	0.79

MAY - 5 1993

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/kg	<10
2,4-Dichlorophenol, ug/kg	<10
2,4-Dimethylphenol, ug/kg	<10
4,6-Dinitro-o-cresol, ug/kg	<50
2,4-Dinitrophenol, ug/kg	<50
2-Nitrophenol, ug/kg	<10
4-Nitrophenol, ug/kg	<50
P-Chloro-m-cresol, ug/kg	<10
Pentachlorophenol, ug/kg	<50
Phenol, ug/kg	<10
2,4,6-Trichlorophenol, ug/kg	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1				
PP-Base/Neutral Compounds					
Acenaphthene, ug/kg	<10				
Acenaphthylene, ug/kg	<10				
Anthracene, ug/kg	<10				
Benzidine, ug/kg	<80				
Benzo(a)Anthracene, ug/kg	<10				
Benzo(a)Pyrene, ug/kg	<10				
3,4-Benzofluoranthene, ug/kg	<10				
Benzo (g,h,i) Perylene, ug/kg	<10				
Benzo (k) Fluoranthene, ug/kg	<10				
Bis (2-Chloroethoxy) Methane, ug/kg	<10				
Bis (2-Chloroethyl) Ether, ug/kg	<10				
Bis (2-Chloroisopropyl) Ether, ug/kg	<10				
Bis (2-Ethylhexyl) Phthalate, ug/kg	<10				
4-Bromophenyl Phenyl Ether, ug/kg	<10				
Butyl Benzyl Phthalate, ug/kg	<10				
2-Chloronaphthalene, ug/kg	<10				
4-Chlorophenyl Phenyl Ether, ug/kg	<10				
Chrysene, ug/kg	<10				
Dibenzo (a,h) Anthracene, ug/kg	<10				
1,2-Dichlorobenzene, ug/kg	<10				
1,3-Dichlorobenzene, ug/kg	<10				
1,4-Dichlorobenzene, ug/kg	<10				
3,3-Dichlorobenzidine, ug/kg	<20				
Diethyl Phthalate, ug/kg	<10				
Dimethyl Phthalate, ug/kg	<10				

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1		
Di-N-Butyl Phthalate, ug/kg	<10		
2,4-Dinitrotoluene, ug/kg	<10		
2,6-Dinitrotoluene, ug/kg	<10		
Di-N-Octyl Phthalate, ug/kg	<10		
1,2-Diphenylhydrazine, ug/kg	<10		
Fluoranthene, ug/kg	<10		
Fluorene, ug/kg	<10		
Hexachlorobenzene, ug/kg	<10		
Hexachlorobutadiene, ug/kg	<10		
Hexachlorocyclopentadiene, ug/kg	<10		
Hexachloroethane, ug/kg	<10		
Indeno (1,2,3-cd) Pyrene, ug/kg	<10		
Isophorone, ug/kg	<10		
Naphthalene, ug/kg	<10		
Nitrobenzene, ug/kg	<10		
N-Nitrosodimethylamine, ug/kg	<10		
N-Nitrosodi-N-Propylamine, ug/kg	<10		
N-Nitrosodiphenylamine, ug/kg	<10		
Phenanthrene, ug/kg	<10		
Pyrene, ug/kg	<10		
1,2,4-Trichlorobenzene, ug/kg	<10		

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1
Pesticides/PCB's	
Aldrin, ug/kg	<0.050
Alpha-BHC, ug/kg	<0.050
Beta-BHC, ug/kg	<0.050
Gamma-BHC, ug/kg	<0.050
Delta-BHC, ug/kg	<0.050
Chlordane, ug/kg	<0.50
4,4'-DDT, ug/kg	<0.10
4,4'-DDE, ug/kg	<0.10
4,4'-DDD, ug/kg	<0.10
Dieldrin, ug/kg	<0.10
Alpha-Endosulfan, ug/kg	<0.050
Beta-Endosulfan, ug/kg	<0.10
Endosulfan Sulfate, ug/kg	<0.10
Endrin, ug/kg	<0.10
Endrin Aldehyde, ug/kg	<0.10
Heptachlor, ug/kg	<0.050
Heptachlor Epoxide, ug/kg	<0.050
PCB-1242, ug/kg	<1.0
PCB-1254, ug/kg	<1.0
PCB-1221, ug/kg	<2.0
PCB-1232, ug/kg	<1.0
PCB-1248, ug/kg	<1.0
PCB-1260, ug/kg	<1.0
PCB-1016, ug/kg	<1.0
Toxaphene, ug/kg	<5.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1
Volatile Organic Compounds	
Acrolein, ug/kg	<100
Acrylonitrile, ug/kg	<100
Benzene, ug/kg	<5.0
Bromoform, ug/kg	<5.0
Carbon Tetrachloride, ug/kg	<5.0
Chlorobenzene, ug/kg	<5.0
Chlorodibromomethane, ug/kg	<5.0
Chloroethane, ug/kg	<10
2-Chloroethylvinyl Ether, ug/kg	<50
Chloroform, ug/kg	<5.0
Dichlorobromomethane, ug/kg	<5.0
Dichlorodifluoromethane, ug/kg	<5.0
1,1-Dichloroethane, ug/kg	<5.0
1,2-Dichloroethane, ug/kg	<5.0
1,1-Dichloroethylene, ug/kg	<5.0
1,2-Dichloropropane, ug/kg	<5.0
1,3-Dichloropropene, ug/kg	<5.0
Ethylbenzene, ug/kg	<5.0
Methyl Bromide, ug/kg	<10
Methyl Chloride, ug/kg	<10
Methylene Chloride, ug/kg	<5.0
1,1,2,2-Tetrachloroethane, ug/kg	<5.0
Tetrachloroethylene, ug/kg	<5.0
Toluene, ug/kg	<5.0
cis/trans-1,2-Dichloroethylene, ug/kg	<5.0
1,1,1-Trichloroethane, ug/kg	<5.0
1,1,2-Trichloroethane, ug/kg	<5.0
Trichloroethylene, ug/kg	<5.0
Trichlorofluoromethane, ug/kg	<5.0
Vinyl Chloride, ug/kg	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681-1	Final Sludge	04-14-93

PARAMETER	30681-1
Total Solids, %	0.58

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
Cyanide, Total, mg/kg	<0.010	91 %	1.1 %
Phenolics,Total Recoverable, mg/kg	<0.010	115 %	2.6 %
2,4-D, ug/kg	<0.50	70 %	1.4 %
2,4,5-TP Silvex, ug/kg	<0.50	86 %	4.7 %
Antimony, mg/kg	<0.050	90 %	0 %
Arsenic, mg/kg	<0.010	100 %	3.0 %
Beryllium, mg/kg	<0.0050	86 %	1.2 %
Cadmium, mg/kg	<0.0050	91 %	0 %
Chromium, mg/kg	<0.010	90 %	1.1 %
Copper, mg/kg	<0.025	92 %	0 %
Lead, mg/kg	<0.0050	98 %	0 %
Mercury, mg/kg	<0.00020	104 %	0 %
Nickel, mg/kg	<0.040	94 %	1.1 %
Selenium, mg/kg	<0.010	98 %	8.2 %
Silver, mg/kg	<0.010	86 %	1.2 %
Thallium, mg/kg	<0.010	104 %	3.8 %
Zinc, mg/kg	<0.020	91 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/kg	<10	65 %	0 %
2,4-Dichlorophenol, ug/kg	<10	---	---
2,4-Dimethylphenol, ug/kg	<10	---	---
4,6-Dinitro-o-cresol, ug/kg	<50	---	---
2,4-Dinitrophenol, ug/kg	<50	---	---
2-Nitrophenol, ug/kg	<10	---	---
4-Nitrophenol, ug/kg	<50	48 %	13 %
P-Chloro-m-cresol, ug/kg	<10	72 %	8.3 %
Pentachlorophenol, ug/kg	<50	51 %	14 %
Phenol, ug/kg	<10	59 %	0 %
2,4,6-Trichlorophenol, ug/kg	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/kg	<10	65 %	0 %
Acenaphthylene, ug/kg	<10	---	---
Anthracene, ug/kg	<10	---	---
Benzidine, ug/kg	<80	---	---
Benzo(a)Anthracene, ug/kg	<10	---	---
Benzo(a)Pyrene, ug/kg	<10	---	---
3,4-Benzofluoranthene, ug/kg	<10	---	---
Benzo (g,h,i) Perylene, ug/kg	<10	---	---
Benzo (k) Fluoranthene, ug/kg	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/kg	<10	---	---
Bis (2-Chloroethyl) Ether, ug/kg	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/kg	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/kg	<10	---	---
4-Bromophenyl Phenyl Ether, ug/kg	<10	---	---
Butyl Benzyl Phthalate, ug/kg	<10	---	---
2-Chloronaphthalene, ug/kg	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/kg	<10	---	---
Chrysene, ug/kg	<10	---	---
Dibenzo (a,h) Anthracene, ug/kg	<10	---	---
1,2-Dichlorobenzene, ug/kg	<10	---	---
1,3-Dichlorobenzene, ug/kg	<10	---	---
1,4-Dichlorobenzene, ug/kg	<10	52 %	1.9 %
3,3-Dichlorobenzidine, ug/kg	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
Diethyl Phthalate, ug/kg	<10	---	---
Dimethyl Phthalate, ug/kg	<10	---	---
Di-N-Butyl Phthalate, ug/kg	<10	---	---
2,4-Dinitrotoluene, ug/kg	<10	66 %	6.1 %
2,6-Dinitrotoluene, ug/kg	<10	---	---
Di-N-Octyl Phthalate, ug/kg	<10	---	---
1,2-Diphenylhydrazine, ug/kg	<10	---	---
Fluoranthene, ug/kg	<10	---	---
Fluorene, ug/kg	<10	---	---
Hexachlorobenzene, ug/kg	<10	---	---
Hexachlorobutadiene, ug/kg	<10	---	---
Hexachlorocyclopentadiene, ug/kg	<10	---	---
Hexachloroethane, ug/kg	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/kg	<10	---	---
Isophorone, ug/kg	<10	---	---
Naphthalene, ug/kg	<10	---	---
Nitrobenzene, ug/kg	<10	---	---
N-Nitrosodimethylamine, ug/kg	<10	---	---
N-Nitrosodi-N-Propylamine, ug/kg	<10	64 %	0 %
N-Nitrosodiphenylamine, ug/kg	<10	---	---
Phenanthrene, ug/kg	<10	---	---
Pyrene, ug/kg	<10	75 %	1.3 %
1,2,4-Trichlorobenzene, ug/kg	<10	60 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
Pesticides/PCB's			
Aldrin, ug/kg	<0.050	85 %	2.4 %
Alpha-BHC, ug/kg	<0.050	---	---
Beta-BHC, ug/kg	<0.050	---	---
Gamma-BHC, ug/kg	<0.050	91 %	2.2 %
Delta-BHC, ug/kg	<0.050	---	---
Chlordane, ug/kg	<0.50	---	---
4,4'-DDT, ug/kg	<0.10	80 %	1.3 %
4,4'-DDE, ug/kg	<0.10	---	---
4,4'-DDD, ug/kg	<0.10	---	---
Dieldrin, ug/kg	<0.10	89 %	2.2 %
Alpha-Endosulfan, ug/kg	<0.050	---	---
Beta-Endosulfan, ug/kg	<0.10	---	---
Endosulfan Sulfate, ug/kg	<0.10	---	---
Endrin, ug/kg	<0.10	92 %	1.1 %
Endrin Aldehyde, ug/kg	<0.10	---	---
Heptachlor, ug/kg	<0.050	97 %	2.1 %
Heptachlor Epoxide, ug/kg	<0.050	---	---
PCB-1242, ug/kg	<1.0	---	---
PCB-1254, ug/kg	<1.0	---	---
PCB-1221, ug/kg	<2.0	---	---
PCB-1232, ug/kg	<1.0	---	---
PCB-1248, ug/kg	<1.0	---	---
PCB-1260, ug/kg	<1.0	---	---
PCB-1016, ug/kg	<1.0	---	---
Toxaphene, ug/kg	<5.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
Volatile Organic Compounds			
Acrolein, ug/kg	<100	---	---
Acrylonitrile, ug/kg	<100	---	---
Benzene, ug/kg	<5.0	100 %	3.0 %
Bromoform, ug/kg	<5.0	---	---
Carbon Tetrachloride, ug/kg	<5.0	---	---
Chlorobenzene, ug/kg	<5.0	107 %	1.9 %
Chlorodibromomethane, ug/kg	<5.0	---	---
Chloroethane, ug/kg	<10	---	---
2-Chloroethylvinyl Ether, ug/kg	<50	---	---
Chloroform, ug/kg	<5.0	---	---
Dichlorobromomethane, ug/kg	<5.0	---	---
Dichlorodifluoromethane, ug/kg	<5.0	---	---
1,1-Dichloroethane, ug/kg	<5.0	---	---
1,2-Dichloroethane, ug/kg	<5.0	---	---
1,1-Dichloroethylene, ug/kg	<5.0	109 %	1.8 %
1,2-Dichloropropane, ug/kg	<5.0	---	---
1,3-Dichloropropene, ug/kg	<5.0	---	---
Ethylbenzene, ug/kg	<5.0	---	---
Methyl Bromide, ug/kg	<10	---	---
Methyl Chloride, ug/kg	<10	---	---
Methylene Chloride, ug/kg	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/kg	<5.0	---	---
Tetrachloroethylene, ug/kg	<5.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681-2	Lab Blank
30681-3	Accuracy (% Recovery)
30681-4	Precision (% RPD)

PARAMETER	30681-2	30681-3	30681-4
Toluene, ug/kg	<5.0	100 %	1.0 %
cis/trans-1,2-Dichloroethylene, ug/kg	<5.0	---	---
1,1,1-Trichloroethane, ug/kg	<5.0	---	---
1,1,2-Trichloroethane, ug/kg	<5.0	---	---
Trichloroethylene, ug/kg	<5.0	102 %	2.9 %
Trichlorofluoromethane, ug/kg	<5.0	---	---
Vinyl Chloride, ug/kg	<10	---	---
Total Solids, %	<0.00050	98 %	0 %

Method: EPA 600/4-79-020, 40 CFR Part 136
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Sludge

CLIENT NAME: Cathy Winter
TELEPHONE/FAX NO.:
CLIENT ADDRESS:
CITY, STATE, ZIP CODE:
SAMPLER(S) NAME(S): Chris Harris
CLIENT PROJECT MANAGER: Andre Lachmanoff

PAGE ___ OF ___

☒ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE _____
* SUBJECT TO RUSH FEES

MATRIX TYPE: AQUEOUS MATRIX / NONAQUEOUS MATRIX / OIL MATRIX / AIR MATRIX

REQUIRED ANALYSES — NUMBER OF CONTAINERS SUBMITTED

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	CN	Semi-vol	Metals	Phenol	TNJTP	pH, % Solids	VOC	VOC			
4/14/93	10:45	Sludge	✓				1	5	1	1	1	1	3	2			

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	4-12	10:30	[signature]	4/13/93	17:00	[signature]	4/14/93	14:15
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
[signature]	4-14	2:40	☒ YES ☐ NO		B330681	

ORIGINAL

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681A

Received: 14 APR 93

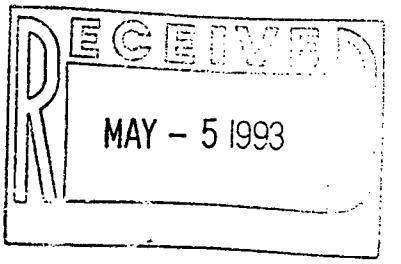
Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30681A-1	Final Sludge	04-14-93

PARAMETER	30681A-1
pH, units	8.0
Total Solids, %	0.58
Nitrogen, Total, % dw	1.9
Phosphorus, Total, % dw	0.11
Potassium, % dw	2.6
Cadmium, mg/kg dw	<0.86
Copper, mg/kg dw	50
Lead, mg/kg dw	10
Nickel, mg/kg dw	21
Zinc, mg/kg dw	160



SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30681A

Received: 14 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30681A-2	Lab Blank
30681A-3	Accuracy (% Recovery)
30681A-4	Precision (% RPD)

PARAMETER	30681A-2	30681A-3	30681A-4
pH, units	5.6	100 %	0.33 %
Total Solids, %	<0.00050	98 %	0 %
Nitrogen, Total, % dw	<0.0030	--	---
Phosphorus, Total, % dw	<0.00050	109 %	1.8 %
Potassium, % dw	<0.010	84 %	2.4 %
Cadmium, mg kg dw	<0.50	91 %	0 %
Copper, mg kg dw	<2.5	92 %	0 %
Lead, mg kg dw	<0.50	98 %	0 %
Nickel, mg kg dw	<4.0	94 %	1.1 %
Zinc, mg kg dw	<2.0	91 %	0 %

Method: EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

MEMORANDUM

DATE: MAY 6, 1993

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: SUSAN J. METCALFE, P.G., DIRECTOR, DIVISION OF SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH.

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the April sampling of effluent at the Leachate Treatment Facility.

Please include in your April report submittal to the Department of Environmental Regulation.

Please note, DER requires all parameters over MCL to be circled on the report.

MDM:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services
Robert Merkel, Utilities Operation Supervisor

FOR D.C. DATE 5/14/93

MAY 11 1993

Printed on Recycled Paper.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Arsenic, mg/l	<0.010
Barium, mg/l	<0.010
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.45
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	77
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	340
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	<5.0
Chloroform, ug/l	<1.0
Dichlorobromomethane, ug/l	<1.0
Dibromochloromethane, ug/l	<1.0

RECEIVED
MAY - 5 1993

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.020
Turbidity, NTU	0.50
Microbiological	
Total Coliform MF, col/100 ml	<1
Fecal Coliform MF, col/100 ml	<1
Gross Alpha, pCi/l	7.7+/-2.8
Gross Beta, pCi/l	139+/-6
Chloride, mg/l	420
Color, PCU	15
Copper, mg/l	<0.025
Corrosivity (saturation index)	+1.6
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	0.064
Manganese, mg/l	0.022
Odor, TON	8
pH, units	8.5
Sulfate as SO4, mg/l	35
Total Dissolved Solids, mg/l	1700

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Zinc, mg/l	0.023
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.11

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30692-1	Leachate Effluent	04-15-93

PARAMETER	30692-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0
Carbon, Total Organic, mg/l	31
Chemical Oxygen Demand, mg/l	99
Biochemical Oxygen Demand, mg/l	15
Suspended Solids, mg/l	<5.0
Alkalinity (to pH 4.5) as CaCO3, mg/l	660

ND* = Not detected.

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Arsenic, mg/l	<0.010	106 %	2.8 %
Barium, mg/l	<0.010	86 %	1.2 %
Cadmium, mg/l	<0.0050	91 %	0 %
Chromium, mg/l	<0.010	90 %	1.1 %
Fluoride, mg/l	<0.20	97 %	2.9 %
Lead, mg/l	<0.0050	105 %	1.9 %
Mercury, mg/l	<0.00020	109 %	1.8 %
Nitrate-N, mg/l	<0.050	100 %	1.0 %
Selenium, mg/l	<0.010	82 %	2.4 %
Silver, mg/l	<0.010	86 %	1.2 %
Sodium, mg/l	<0.50	94 %	0 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	103 %	3.9 %
Gamma-BHC, ug/l	<0.050	79 %	0 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	86 %	4.7 %
2,4,5-TP Silvex, ug/l	<0.50	70 %	1.4 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	103 %	1.9 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	76 %	16 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	97 %	6.2 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	94 %	7.4 %
Turbidity, NTU	<0.10	103 %	0 %
Microbiological			
Total Coliform MF, col/100 ml	<1	---	0 %
Fecal Coliform MF, col/100 ml	<1	---	0 %
Gross Alpha, pCi/l	<0.5	122 %	0 %
Gross Beta, pCi/l	<1.0	101 %	5.1 %
Chloride, mg/l	<1.0	100 %	0 %
Color, PCU	<5	100 %	0 %
Copper, mg/l	<0.025	92 %	0 %
Corrosivity (saturation index)	-5.7	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	109 %	1.8 %
Iron, mg/l	<0.050	92 %	1.1 %
Manganese, mg/l	<0.010	92 %	1.1 %
Odor, TON	<1	---	0 %
pH, units	5.5	100 %	0.50 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Sulfate as SO4, mg/l	<5.0	96 %	5.1 %
Total Dissolved Solids, mg/l	<5.0	97 %	0.06 %
Zinc, mg/l	<0.020	91 %	0 %
Antimony, mg/l	<0.050	90 %	0 %
Beryllium, mg/l	<0.0050	86 %	1.2 %
Nickel, mg/l	<0.040	94 %	1.1 %
Thallium, mg/l	<0.010	96 %	1.0 %
Phenolics,Total Recoverable, mg/l	<0.010	115 %	2.6 %
Cyanide, Total, mg/l	<0.010	91 %	1.1 %

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	69 %	0 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	62 %	0 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	74 %	2.7 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	74 %	4.1 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	81 %	3.7 %
1,2,4-Trichlorobenzene, ug/l	<10	70 %	0 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	64 %	1.6 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	61 %	9.8 %
P-Chloro-m-cresol, ug/l	<10	68 %	1.5 %
Pentachlorophenol, ug/l	<50	59 %	6.8 %
Phenol, ug/l	<10	64 %	0 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	82 %	0 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	88 %	0 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	91 %	1.1 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	65 %	3.1 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30692

Received: 15 APR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30692-2	Lab Blank
30692-3	Accuracy (% Recovery)
30692-4	Precision (% RPD)

PARAMETER	30692-2	30692-3	30692-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	107 %	1.9 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	---	---
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---
Carbon, Total Organic, mg/l	<1.0	97 %	1.0 %
Chemical Oxygen Demand, mg/l	<20	111 %	9.7 %
Biochemical Oxygen Demand, mg/l	<2.0	98 %	1.5 %
Suspended Solids, mg/l	<5.0	90 %	13 %
Alkalinity (to pH 4.5) as CaCO3, mg/l	<1.0	97 %	0.87 %

ND* = Not detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue, Savannah, GA 31404 — Phone: (912) 354-7858 — Fax (912) 352-0165
2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax (904) 878-9504
414 Southwest 12th Avenue, Deerfield Beach, FL 33442 — Phone: (305) 421-7400 — Fax (305) 421-2584
900 Lakeside Drive, Mobile, AL 36693 — Phone: (205) 666-6633 — Fax (205) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Leachate Effluent

CLIENT NAME	TELEPHONE/FAX NO.
Cathy Winter	(904) 687-9400

CLIENT ADDRESS	CITY, STATE, ZIP CODE

SAMPLER(S) NAME(S)	CLIENT PROJECT MANAGER
Chris Harris	Andrea Rachmanoff

MATRIX TYPE: AQUEOUS MATRIX; NONAQUEOUS MATRIX; OIL MATRIX; AIR MATRIX

REQUIRED ANALYSES: Inorganics; Rad; CN; Semi-vol/MBAS; Metals; VOC; EDB; THM; T-coli; F-coli; Phenol

PAGE ____ OF ____

☒ STANDARD TAT
☐ EXPEDITED TAT *

REPORT DUE DATE ____

* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED
4/15/93		Leachate Effluent	2 1 1 6 1 4 3 3 4 1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
J. Hart	4-12-93	10:05		4/14/93	17:02		4/15/93	17:00
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
Chris Wilson	4-16-93	8:30						

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
Chris Wilson	4-16-93	8:30	☒ YES ☐ NO		B330692	

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To: D.E.R.

APR 28 1993

SOUTHWEST DISTRICT
TAMPA

April 23, 1993 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of March, 1993.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 Application No. _____ (Filed in by DER)

D.E.R.

APR 28 1993

SOUTHWEST DISTRICT
TAMPA

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

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 II - General Information

(1) Month March Year ~~1993~~ 1993

(2) Plant's DER Identification Number 400900086

(3) Plant Name Landfill Leachate Plant

(4) Plant Address S.R. 44 - 3 Miles East of Lecanto

(5) City Lecanto

(6) County Citrus

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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

Evap / Perc Ponds

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Robert G Hurbul (Signature) A-4506 (Cert. No.)

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.012
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.023
(19) Percent of permitted capacity	%	—	76%
(20) ~~X~~ BOD_5 Effluent	mg/L	080082	4.0
(21) ~~X~~ BOD_5 Effluent	lbs/day	—	.4
(22) TSS Effluent	mg/L	900201	3.2
(23) TSS Effluent	lbs/day	—	.32
(24) Minimum pH		—	6.9
(25) Maximum pH		—	8.4
(26) Total N	mg/L	000600	
(27) TKN	mg/L	000625	
(28) Ammonia (NH_3 - N)	mg/L	000610	
(29) Nitrate	mg/L	071850	30
(30) Total Phosphorus	mg/L	000665	
(31) Minimum Chlorine Residual	mg/L	—	0.5
(32) Maximum Chlorine Residual	mg/L	—	6.0
(33) Other Effluent Parameters			

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

(34)

Month MARCH Year 1993

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)	TOC	TDS	COD	CHLORIDES	TOTAL ALKALINITY			
1	0	2.5						8.3													
2	0	1.0						8.3													
3	0	1.5						8.4													
4	010	1.0				3.18		7.2	2.7		2.5		<1.0		210						
5	020	3.0						8.2													
6	010	3.5						8.2													
7	010	3.1						8.2													
8	010	3.2						7.5													
9	0	1.0						8.1													
10	0	3.5						8.0													
11	010	1.0				2.10		7.2	5.2		3.2		<1.0		265						
12	020	.8						8.1													
13	0																				
14	0																				
15	020	1.2						8.0													
16	020																				
17	0																				
18	020	.7				5.4		7.0	7.4		3.5		<1.0		418						
19	030	2.0						8.2													
20	020	2.0						8.2													
21	0	1.5						8.1													
22	020	1.0						8.3													
23	020	.9						8.3													
24	025	.5						8.2													
25	030	2.0				5.8		6.9	5.0		.58		<1.0		212						
26	020	2.7						8.2													
27	0																				
28	010																				
29	010	2.2						8.3													
30	020	3.0						8.6													
31	020	6.0				2.8	<5	8.5			120		<1.0	20	1400	92	330	240			

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: Robert G Merkel

Name (Please Type) Robert G. Merkel

Company Name Citrus County Utilities Division

Date: 4/23/93

Telephone No. (Please Type) 904-746-2694

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930325

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 03/25/93
TIME SAMPLED: 9:15 am
DATE RECEIVED: 03/25/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	15.5	TD	3/27/93
BOD	507sm16th	mg/l	5.8	TD	3/30/93
TKN	351.2	mg/l	5.0	TI	3/27/93
Nitrate	353.2	mg/l	0.58	TI	3/25/93
TDS	160.1	mg/l	212	TD	3/25/93
pH	150.1	std units	6.9	TD	3/25/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	3/26/93
Total Coli	SM909a	cts/100ml	* A	TD	3/26/93
TSS	160.2	mg/l	1.4	TI	3/27/93

BOD IN 3/25/93 AT 1545 OUT 3/30/93 AT 1600

* A= No colony count

FOR [illegible]
D.E.P.
DATE: 4/26/93

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

APR 3 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930318

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 03/18/93
TIME SAMPLED: 9:30 am
DATE RECEIVED: 03/18/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	12.45	TD	3/20/93
BOD	507sm16th	mg/l	5.4	TD	3/23/93
TKN	351.2	mg/l	7.4	TI	3/27/93
Nitrate	353.2	mg/l	3.5	TI	3/20/93
TDS	160.1	mg/l	410	TD	3/20/93
pH	150.1	std units	7.0	TD	3/18/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	3/19/93
Total Coli	SM909a	cts/100ml	* A	TD	3/19/93

* A= No colony count

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048
HRS # E84338

RECEIVED
APR 1 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 4/26/93

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930311

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 03/11/93
TIME SAMPLED: 9:00 am
DATE RECEIVED: 03/11/93

ANALYSIS: COD, BOD, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent
SITE: Landfill PAC Plant

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C.O.D.	410.2	mg/l	3.50	TD	3/16/93
BOD	507sm16th	mg/l	2.10	TD	3/16/93
TKN	351.2	mg/l	5.2	TI	3/13/93
Nitrate	353.2	mg/l	3.20	TI	3/12/93
TDS	160.1	mg/l	265	TD	3/12/93
pH	150.1	std units	7.2	TD	3/11/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	3/12/93
Total Coli	SM909a	cts/100ml	* A	TD	3/12/93

* A= No colony count

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048

FORWARDED TO D.E.R. TAMPA
DATE: 4/26/93

MAR 25 1993

TRI-COUNTY ENVIRONMENTAL & ANALYTICAL LAB INC.

2822 Land O Lakes Blvd. / Land O Lakes, FL 34639
Phone: (813) 949-1069

REPORT OF ANALYSIS

REPORT NUMBER: 930304

FOR: Citrus County Utilities
1300 S. Lecanto Highway
P.O. Box 440
Lecanto, FL 32661

DATE SAMPLED: 03/04/93
TIME SAMPLED: 2:15pm
DATE RECEIVED: 03/04/93

ANALYSIS: COD, BOD, MLVSS, TKN, Nitrate, TDS, pH, Fecal & Total Coliform

SAMPLE MARKINGS: Plant Effluent

SITE: Landfill PAC Plant/Reactor #2

LABORATORY FINDINGS

PARAMETER	METH.#	UNITS	RESULTS	TECH.	DATE ANALYZED
C O D	410.2	mg/l	7.50	TD	3/06/93
BOD	507sm16th	mg/l	3.18	TD	3/09/93
TKN	351.2	mg/l	2.7	TI	3/13/93
MLVSS	350.3	mg/l	1.0	TI	3/06/93
Nitrate	353.2	mg/l	2.50	TI	3/10/93
TDS	160.1	mg/l	210	TD	3/04/93
pH	150.1	std units	7.2	TD	3/04/93
Fecal Coli	SM909c	cts/100ml	<1.0	TI	3/05/93
Total Coli	SM909a	cts/100ml	* A	TD	3/05/93

* A= No colony count

Tai Igbinosun
Lab Manager
HRS Comp QA # 9209LD-048

FORWARDED TO:
D.E.R. TAMPA
DATE: 4/26 93

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

RECEIVED
APR 22 1993

MEMORANDUM

DATE: APRIL 22, 1993

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: SUSAN J. METCALFE, P.G., DIRECTOR, DIVISION OF SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH. CJW

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the March sampling of effluent at the Leachate Treatment Facility.

Please include in your March report submittal to the Department of Environmental Regulation.

MDM:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services
Robert Merkel, Utilities Operation Supervisor

FORWARDED TO:
D.E.R. TAMPA
DATE: 4/26/93

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.14
Cadmium, mg/l	<0.0050
Chromium, mg/l	0.010
Fluoride, mg/l	0.56
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	120
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	280
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	50
Chloroform, ug/l	67
Dichlorobromomethane, ug/l	79
Dibromochloromethane, ug/l	94

} = 0.290 mg/L

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<10
1,2-Dibromoethane (EDB), ug/l	<0.40*
Turbidity, NTU	0.35
Microbiological	
Total Coliform MF, col/100 ml	<1
Fecal Coliform MF, col/100 ml	<1
Gross Alpha, pCi/l	2.9+/-1.3
Gross Beta, pCi/l	120+/-3.0
Chloride, mg/l	330
Color, PCU	<5
Copper, mg/l	<0.025
Corrosivity (saturation index)	+0.98
Surfactants (MBAS-EPA 425.1), mg/l	0.14
Iron, mg/l	0.053
Manganese, mg/l	<0.010
Odor, TON	4
pH, units	8.3
Sulfate as SO4, mg/l	29
Total Dissolved Solids, mg/l	1400

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Zinc, mg/l	0.028
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

RECEIVED FROM 0000000000000000000

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30597-1	Leachate Effluent	03-31-93

PARAMETER	30597-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0
Vinyl Chloride, ug/l	<10
Carbon, Total Organic, mg/l	20
Chemical Oxygen Demand, mg/l	92
Biochemical Oxygen Demand, mg/l	2.8
Suspended Solids, mg/l	<5.0
Alkalinity (to pH 4.5) as CaCO3, mg/l	240

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = Not detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Arsenic, mg/l	<0.010	99 %	2.0 %
Barium, mg/l	<0.010	104 %	0.96 %
Cadmium, mg/l	<0.0050	108 %	0.93 %
Chromium, mg/l	<0.010	107 %	1.9 %
Fluoride, mg/l	<0.20	101 %	0.80 %
Lead, mg/l	<0.0050	95 %	2.1 %
Mercury, mg/l	<0.00020	104 %	2.9 %
Nitrate-N, mg/l	<0.050	101 %	0.66 %
Selenium, mg/l	<0.010	96 %	5.2 %
Silver, mg/l	<0.010	98 %	9.2 %
Sodium, mg/l	<0.50	108 %	3.7 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	99 %	1.0 %
Gamma-BHC, ug/l	<0.050	111 %	0 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	58 %	5.2 %
2,4,5-TP Silvex, ug/l	<0.50	56 %	25 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<5.0	---	---
Dichlorobromomethane, ug/l	<5.0	---	---
Dibromochloromethane, ug/l	<5.0	---	---

SL SAVANNAH L. ORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	119 %	0 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	118 %	2.5 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	97 %	0 %
Vinyl Chloride, ug/l	<10	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	103 %	1.9 %
Turbidity, NTU	<0.10	101 %	0 %
Microbiological			
Total Coliform MF, col/100 ml	<1	---	0 %
Fecal Coliform MF, col/100 ml	<1	---	0 %
Gross Alpha, pCi/l	<0.5	92 %	18 %
Gross Beta, pCi/l	<1.0	106 %	38 %
Chloride, mg/l	<1.0	100 %	1.0 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	99 %	0 %
Corrosivity (saturation index)	-3.9	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	118 %	12 %
Iron, mg/l	<0.050	110 %	0.90 %
Manganese, mg/l	<0.010	109 %	1.8 %
Odor, TON	<1	---	0 %
pH, units	7.0	100 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Sulfate as SO4, mg/l	<5.0	100 %	0 %
Total Dissolved Solids, mg/l	<5.0	97 %	0.29 %
Zinc, mg/l	<0.020	98 %	0 %
Antimony, mg/l	<0.050	106 %	2.8 %
Beryllium, mg/l	<0.0050	100 %	1.0 %
Nickel, mg/l	<0.040	110 %	2.7 %
Thallium, mg/l	<0.010	106 %	1.9 %
Phenolics,Total Recoverable, mg/l	<0.010	110 %	8.2 %
Cyanide, Total, mg/l	<0.010	94 %	2.1 %

RECEIVED FROM 0000000000000000000

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS Page 12

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	85 %	1.2 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chryeene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	70 %	1.4 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION . QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	86 %	0 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	99 %	4.5 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	108 %	4.6 %
1,2,4-Trichlorobenzene, ug/l	<10	70 %	2.9 %
2,3,7,8-TCDD, ug/l	ND*	---	---

BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	85 %	1.2 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	91 %	2.2 %
P-Chloro-m-cresol, ug/l	<10	86 %	2.3 %
Pentachlorophenol, ug/l	<50	74 %	1.4 %
Phenol, ug/l	<10	82 %	6.1 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	46 %	6.5 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	94 %	5.3 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	70 %	2.9 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	48 %	2.1 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

RECEIVED FROM 0000000000000000000

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30597

Received: 31 MAR 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30597-2	Lab Blank
30597-3	Accuracy (% Recovery)
30597-4	Precision (% RPD)

PARAMETER	30597-2	30597-3	30597-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	90 %	0 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	92 %	0 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---
Vinyl Chloride, ug/l	<10	---	---
Carbon, Total Organic, mg/l	<1.0	97 %	1.0 %
Chemical Oxygen Demand, mg/l	<20	105 %	0 %
Biochemical Oxygen Demand, mg/l	<2.0	101 %	2.0 %
Suspended Solids, mg/l	<5.0	99 %	0.20 %
Alkalinity (to pH 4.5) as CaCO3, mg/l	<1.0	94 %	0 %

ND* = Not detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To: Utilities Division

March 23, 1993

MAR 26 1993
Department of Environmental Regulation
SOUTHWEST DISTRICT

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of February, 1993.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 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 17-610.668(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
1900 S. Congress Ave., Suite A
West Palm Beach, Florida 33406
407-433-2650

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 II - General Information

(1) Month FEBRUARY Year 1993

(2) Plant's DER Identification Number 4009000 86

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44, 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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 EVAP / PERC POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard B. Robinson (Signature) C-8001 (Cert. No.)

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.012
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.032
(19) Percent of permitted capacity	%	—	107%
(20) $CBOD_5$ Effluent	mg/L	080082	<2.5
(21) $CBOD_5$ Effluent	lbs/day	—	<0.25
(22) TSS Effluent	mg/L	900201	3.5
(23) TSS Effluent	lbs/day	—	0.35
(24) Minimum pH		—	8.0
(25) Maximum pH		—	8.5
(26) Total N	mg/L	000600	117.5
(27) TKN	mg/L	000625	47
(28) Ammonia (NH_3 - N)	mg/L	000610	80
(29) Nitrate	mg/L	071850	82.5
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	0.5
(32) Maximum Chlorine Residual	mg/L	—	3.5
(33) Other Effluent Parameters			
COD	mg/l		140
TCC	mg/l		38.5
TDS	mg/l		1,800
LEAD	mg/l		<0.02
CHLORIDE	mg/l		437.5
TOT. ALKALINITY	mg/l		482

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

(34)

Month FEBRUARY Year 1993

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)	TOT. ALKALINITY mg/L	TOC mg/L	NITRITE mg/L	TOTAL N mg/L	CHLORIDE mg/L	LEAD mg/L	TDS mg/L	COD mg/L
1	.010	1.2						8.0													
2	.010	0.8						8.2													
3	.010	1.5				4	2	8.4	5.0		87		<1	290	30	2.81	95	423	<.02	1900	128
4	.020	1.5						8.2													
5	.010	2.5						8.2													
6	.010																				
7	.010	1.8						8.0													
8	.010	1.6						8.0													
9	.010	3.0						8.0													
10	.020	3.5						8.4	80	80	69		<1	720		<.01					
11	.010	2.0						8.0													
12	.010	1.0						8.0													
13	.010	1.0						8.2													
14	.010	1.1						8.1													
15	.010	0.5						8.0													
16	.010	0.5						8.3													
17	.010					<1	5	8.2	56		63		16	628	47	21.3	140	452	<.02	1700	157
18	.010							8.4													
19	.020	1.0						8.4													
20	.030	1.0						8.4													
21	.010	1.5						8.4													
22	.020	2.6						8.4													
23	.010	3.0						8.2													
24	.015	3.0						8.2			111		<1	290		<.01					
25	.000	2.5						8.2													
26	.010	3.5						8.0													
27	.010	3.5						8.5													
28	.000	3.0						8.3													

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: Richard B. Robinson Date: 3-22-93

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

February 23, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 49675
Sampled By: Client
Received: 2-04-93

Sample Description: 3 PD
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	4
Total Suspended Solids, mg/l	2
Chemical Oxygen Demand, mg/l	128
Total Organic Carbon, mg/l	30
Nitrite Nitrogen, mg/l	2.81
Nitrate Nitrogen, mg/l	87
Total Kjeldahl Nitrogen, mg/l	5.0
Total Nitrogen, mg/l	95
Chloride, mg/l	423
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	290
pH, units	8.4
Fecal Coliform, colonies/100ml	< 1
Total Dissolved Solids, mg/l	1900

FORM
D.E.
DATE: 3/23 1993

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
March 15, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 49924
Sampled By: Client
Received: 2-11-93

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant Effluent

Parameter	Results
Nitrite Nitrogen, mg/l	< 0.01
Nitrate Nitrogen, mg/l	69
Total Kjeldahl Nitrogen, mg/l	80
Ammonia Nitrogen, mg/l	80
Total Alkalinity, mg/l $CaCO_3$	720
pH, units	8.4
Fecal Coliform, colonies/100ml	< 1

RECEIVED
MAR 22 1993

FORWARDED TO
D.E.P. TAMPA
DATE: 3/23, 1993

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

March 9, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 50158
Sampled By: Client
Received: 2-18-93

Sample Description:
Leachate

17th

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	< 1
Total Suspended Solids, mg/l	5
Chemical Oxygen Demand, mg/l	152
Total Organic Carbon, mg/l	47
Nitrite Nitrogen, mg/l	21.3
Nitrate Nitrogen, mg/l	63
Total Kjeldahl Nitrogen, mg/l	56
Total Nitrogen, mg/l	140
Chloride, mg/l	452
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	628
pH, units	8.2
Fecal Coliform, colonies/100ml	16
Total Dissolved Solids, mg/l	1700

Garrett McGibbon
Laboratory Manager

REC
MAR 16 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 3/23, 19 93

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

MEMORANDUM

DATE: MARCH 1, 1993

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: MICHAEL D. MOORE, ACTING DIRECTOR, MDM
DIVISION OF SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH. CJW

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the February sampling of effluent at the Leachate Treatment Facility.

Please include in your February report submittal to the Department of Environmental Regulation.

MDM:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services
Robert Merkel, Utilities Operation Supervisor

SL ***SAVANNAH LABORATORIES***
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.078
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.34
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	100
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	280
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	8.7
Chloroform, ug/l	49
Dichlorobromomethane, ug/l	48
Dibromochloromethane, ug/l	26

RECEIVED
FEB 26 1993

FORWARDED TO:
D.E.R. TAMPA
DATE: 3/23, 1993

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.20*F65
Turbidity, NTU	0.55
Microbiological	
Total Coliform MF, col/100 ml	*F9
Fecal Coliform MF, col/100 ml	<1.0
Gross Alpha, pCi/l	7.2+/-1.3
Gross Beta, pCi/l	136+/-3.0
Chloride, mg/l	340
Color, PCU	30
Copper, mg/l	<0.025
Corrosivity (saturation index)	+0.97
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	0.057
Manganese, mg/l	0.033
Odor, TON	1
pH, units	8.3
Sulfate as SO4, mg/l	<5.0
Total Dissolved Solids, mg/l	1700

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Zinc, mg/l	0.044
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.14

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
30215-1	Leachate Effluent	02-02-93

PARAMETER	30215-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0

*F9=Confluent growth without coliforms.
*F65=Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = Not Detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Arsenic, mg/l	<0.010	104 %	1.9 %
Barium, mg/l	<0.010	97 %	0 %
Cadmium, mg/l	<0.0050	91 %	0 %
Chromium, mg/l	<0.010	86 %	1.2 %
Fluoride, mg/l	<0.20	103 %	4.2 %
Lead, mg/l	<0.0050	98 %	0 %
Mercury, mg/l	<0.00020	106 %	0 %
Nitrate-N, mg/l	<0.050	101 %	0.99 %
Selenium, mg/l	<0.010	94 %	2.1 %
Silver, mg/l	<0.010	100 %	1.0 %
Sodium, mg/l	<0.50	90 %	2.2 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	79 %	3.8 %
Gamma-BHC, ug/l	<0.050	93 %	7.5 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	47 %	11 %
2,4,5-TP Silvex, ug/l	<0.50	64 %	3.1 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	123 %	7.3 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	95 %	17 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	125 %	8.8 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	108 %	1.2 %
Turbidity, NTU	<0.10	103 %	0 %
Microbiological			
Total Coliform MF, col/100 ml	<1.0	---	0 %
Fecal Coliform MF, col/100 ml	<1.0	---	0 %
Gross Alpha, pCi/l	<0.5	105 %	8.5 %
Gross Beta, pCi/l	<1.0	104 %	5.8 %
Chloride, mg/l	<1.0	96 %	0.83 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	86 %	1.2 %
Corrosivity (saturation index)	-5.3	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	106 %	14 %
Iron, mg/l	<0.050	92 %	1.1 %
Manganese, mg/l	<0.010	92 %	1.1 %
Odor, TON	<1	---	0 %
pH, units	5.9	100 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Sulfate as SO4, mg/l	<5.0	100 %	5.1 %
Total Dissolved Solids, mg/l	<5.0	93 %	2.3 %
Zinc, mg/l	<0.020	90 %	1.1 %
Antimony, mg/l	<0.050	86 %	0 %
Beryllium, mg/l	<0.0050	86 %	1.2 %
Nickel, mg/l	<0.040	89 %	2.2 %
Thallium, mg/l	<0.010	96 %	10 %
Phenolics,Total Recoverable, mg/l	<0.010	91 %	1.4 %
Cyanide, Total, mg/l	<0.010	86 %	1.2 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	74 %	6.8 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	65 %	6.2 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	73 %	9.6 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	87 %	3.4 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	85 %	7.1 %
1,2,4-Trichlorobenzene, ug/l	<10	68 %	5.9 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	75 %	6.7 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	90 %	4.4 %
P-Chloro-m-cresol, ug/l	<10	79 %	3.8 %
Pentachlorophenol, ug/l	<50	60 %	6.7 %
Phenol, ug/l	<10	77 %	6.5 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	101 %	5.9 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	76 %	9.2 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	79 %	3.8 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	75 %	5.3 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B3-30215

Received: 02 FEB 93

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Purchase Order: 10255

Project: Citrus County Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
30215-2	Lab Blank
30215-3	Accuracy (% Recovery)
30215-4	Precision (% RPD)

PARAMETER	30215-2	30215-3	30215-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	77 %	2.6 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	83 %	0 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

ND* = Not Detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

& ENVIRONMENTAL SERVICES, INC.

☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME	MATRIX TYPE	REQUIRED ANALYSES	PAGE	OF
		Citrus County Landfill Leachate				

CLIENT NAME: Cathy Winsor
TELEPHONE/FAX NO.:
CLIENT ADDRESS: 230 Gulf to Lake Hwy
CITY, STATE, ZIP CODE: Lecanto Fl 32661
SAMPLER(S) NAME(S): Chris Harris
CLIENT PROJECT MANAGER:

☐ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE _____
* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	THM	Rad, Metals	Semi-vol, MBAS	Phenol	CN	F	VOC	EDB	Inorganics	T-coli, F-coli	NUMBER OF CONTAINERS SUBMITTED
2/2/93	10:30	Leachate Effluent					3	2	4	1	1	1	4	3	1	4	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Chris Harris	2-1-93	11:10		2/1/93	21:00		2/2/93	13:30
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
Chris Harris	2-2-93	2:30	☒ YES ☐ NO		B330215	

ORIGINAL

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

Utilities Division

February 5, 1993

Mr. Robert J. Butera, P.E.
Solid Waste Manager
Division of Waste Management
Department of Environmental Regulation
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: LANDFILL LEACHATE TREATMENT FACILITY FLOWS & PERFORMANCE

Dear Mr. Butera:

As per our conversation on 1/29/93, I am submitting the following data and report as you requested.

ATTACHMENT 1 Data Table (5 pgs) of monthly analyses of Primary & Secondary Drinking Water Standards & EPA Priority Pollutants. Data is in chronological order with parameters that exceeded MCL's hi-lited. These analyses were performed by Savannah Labs.

ATTACHMENT 2 Data Table (2 pgs) of additional parameters analyzed weekly with parameters that exceeded MCL's hi-lited. These analyses were performed by KNL Labs.

ATTACHMENT 3 A report on daily & monthly plant flows from 11/92 thru 1/93, including the entire period in which 60,000 gpd were processed.

A review of the data indicates that the facility was not necessarily negatively impacted by the increased hydraulic load of 60,000 gpd versus 30,000 gpd, as those parameters which were exceeded during 60,000 gpd operation were also exceeded during 30,000 gpd operation, with the one exception of turbidity levels being slightly higher.

While we await your interpretation of the data, there are two criteria I would specifically like to address.

Nitrates - data shows that the plant was able to nitrify both during 60,000 gpd and 30,000 gpd operations. Hydraulic loading times necessitated many process time changes which effected the plants ability to fully denitrify.

SUBJECT: LANDFILL LEACHATE TREATMENT FACILITY FLOWS AND PERFORMANCE

High No3 levels prior to the 60,000 gal/day operations are still not fully understood. While process adjustments were partially responsible, changes in leachate influent characteristics and equipment failures also contributed to problems.

While staff attempted adjustments to both aeration and anoxic process times, we were not able to get a handle on No3 levels.

We will be continuing to perform more process monitoring, and will be reviewing our data and operations with staff from Zimpro. As attested by lab analysis performed between 1/92 and 6/92 the facility is capable of both nitrification and denitrification.

Currently we are returning the facility back to the operational modes and process times that achieved our best quality effluent with regards to Nitrates.

Fecal Coliforms - From the outset the leachate treatment plant had no facilities for disinfection. Disinfection was initially achieved by broadcasting HTH into the equalization basin where effluent was discharged to from each reactor.

In March, a liquid CL2 feed was set up at the point where effluent is discharged into the equalization basin and finally in October ejection of liquid CL2 solution into the discharge piping of the equalization basin pumps was instituted.

Changes in these modes of operations were occurring during sampling periods and probably account for some of the positive counts on the effluent.

There were also discrepancies between results submitted by Savannah and KNL Labs that indicate there were sampling or handling problems.

Finally, there is the problem with fecal matter from birds in the areas which may have contaminated effluent being held in filter bed basin after chlorination, but prior to discharge to the perc ponds where samples are taken.

I am convinced that an adequate solution of CL2 is being fed and that adequate mixing and DT exist to produce Fecal Coliform results that are non-detectable. We are continuing to work on possible reasons for and corrective action that could be taken to achieve this goal.

SUBJECT: LANDFILL LEACHATE TREATMENT FACILITY FLOWS AND PERFORMANCE

In conclusion we will continue to perform effluent analysis on all parameters as required by permit, but would request relief from performing Primary and Secondary drinking H2O and EPA Priority Pollutants analysis except for those parameters you specifically require monitoring of.

If you have any future questions or require any further data, please contact me at 904-746-2694.

I am looking forward to discussing plant operations and performance with you in the next few weeks.

Sincerely,

R.L.t G Merkel

Robert G. Merkel
Operations Supervisor

RGM:ckn

cc: James W. Pinkerton, P.E., County Engineer
Ralph Hedgecoth, Director of Utilities
Mike Moore, Acting Dir., Solid Waste Management Div.
Rick Robinson, Operator

Attachments

DATE	TIME	L.S. #1 (7 ACRE EAST)			L.S. #2 (7 ACRE WEST)			L.S. #3 (60 ACRE SITE)						LEACHATE POND ~~TOTALS~~ GPD	~~POND~~ TOTALS GPD
								PUMP #1			PUMP #2				
Nov '92		RDG	HRS	APRX FLOW GPD	RDG	HRS	APRX FLOW GPD	RDG	HRS	FLOW	RDG	HRS	FLOW		
1				500			400						19100	—	20,000
2				500			400						19100	—	20,000
3				500			400						19100	—	20 000
4				500			400						19100	—	20 000
5				500			400						19100	—	20 000
6				500			400						19100	—	20 000
7				400			400						19800	—	20 000
8				400			400						19200	—	20 000
9				600			400						19000	—	20 000
10				500			300						9200	—	10 000
11				600			400						19000	—	20 000
12				600			400						19000	—	20 000
13				600			300						9100	—	10 000
14				400			300						19300	40,000	60 000
15				400			300						19300	0	20 000
16				500			400						4100	25,000	30 000
17				0			0						10,000	50000	60 000
18				700			800						13500	25 000	40 000
19				0			0						10000	50,000	60 000
20				900			800						8300	50,000	60 000
21				900			700						3400	55,000	60,000
22				700			300						9000	0	10,000
23				300			300						29400	0	30,000
24				100			100						9800	50,000	60,000
25				800			800						18400	30,000	60,000
26				500			700						28800	0	30 000
27				300			400						19300	0	20 000
28				600			300						19100	0	20 000
29				500			400						9100	0	10 000
30				400			0						29600	0	30,000
~~31~~															
TOTAL														330,000	900,000 GALS
AVG.															30,000 GALS/DA

11/14/92 - STARTED PROCESSING 60,000 GPD

A

DATE	TIME	L.S. #1 (7 ACRE EAST)			L.S. #2 (7 ACRE WEST)			L.S. #3 (80 ACRE SITE)						LEACHATE POND ~~TOTALS~~ GPD	~~POND~~ TOTALS GAD
DEC '92		RDG	HRS	APRX FLOW GPD	RDG	HRS	APRX FLOW GPD	PUMP #1			PUMP #2				
								RDG	HRS	FLOW	RDG	HRS	FLOW		
1				900			1000						3100	55 000	60,000
2				800			0						4200	55 000	60,000
3				800			400						8800	50,000	60,000
4				800			400						8800	50,000	60,000
5				400			900						18700	40,000	60,000
6				300			200					4500	[illegible]	~~25,000~~	30,000
7				1100			400						8500	~~25000~~	10,000
8				400			400						14200	45 000	60,000
9				0			0						10,000	50,000	60,000
10				300			300						29400	—	30,000
11				0			0						0	—	—
12				1000			1600						12400	25000	40,000
13				0			0						0	30,000	30,000
14				200			0						0	29,800	30,000
15				0			0						8000	52,000	60 000
16				0			0						15000	45,000	60,000
17				0			0						10,000	50 000	60 000
18				6			0						10,000	50, 000	60, 000
19				0			0						12000	48 000	60, 000
20				0			0						20,000	—	20,000
21				1200			1000						1800	20, 000	30,000
22				200			200						9600	30, 000	40,000
23				1000			800						13200	45 000	60, 000
24				1200			1200						2400	45,000	50,000
25				1000			1200						27800	—	30,000
26				0			0						0	30000	30, 000
27				0			0						0	30,000	30 000
28				1600			1200						7200	30, 000	40,000
29				100			3200						4700	45 000	50,000
30				200			300						14500	45, 000	60, 000
31				0			0						10000	50, 000	60, 000
TOTAL														1,069, 000	1 390 000 Gals
AVG.															44839 Gals/DAY

DATE	TIME	L.S. #1 (7 ACRE EAST)			L.S. #2 (7 ACRE WEST)			L.S. #3 (60 ACRE SITE)						LEACHATE POND ~~TOTALS~~ GPD	~~POND~~ TOTALS GPD
								PUMP #1			PUMP #2				
JAN 93		RDG	HRS	APRX FLOW GPD	RDG	HRS	APRX FLOW GPD	RDG	HRS	FLOW	RDG	HRS	FLOW		
1				0			0						30000	10,000	40,000
2				1900			1500						16600	10,000	30,000
3				0			0						20000	20,000	40,000
4				600			600						18800	0	20 000
5				0			0						10000	0	10 000
6				0			0						5000	55 000	60 000
7				1100			900						3080	55 000	60 000
8				0			0						0	50 000	50 000
9				0			0						10000	60 000	60 000
10				0			0						0	30 000	30 000
11				0			0						0	30 000	30 000
12				0			0						10000	50 000	60 000
13				200			500						9300	60 000	60 000
14				0			0						5000	55,000	60 000
15				0			0						0	60,000	60 000
16				0			0						10,000	50,000	60 000
17				200			0						9800	—	10 000
18				0			0						30000	—	30 000
19				0			0						15000	45 000	60 000
20				2600			2700						14700	40 000	60 000
21				0			0						5000	55 000	60 000
22				0			0						0	60 000	60 000
23				0			0						0	50 000	50,000 ★
24				0			0						20000	—	20 000
25				1300			1300						17400	—	20 000
26				2800			1800						15400	—	420 000
27				0			0						20000	—	20 000
28				500			300						19200	—	20 000
29				900			500						18600	—	20 000
30				500			400						9100	—	10 000
31				400			400						9100	—	10 000
TOTAL														825,000	1,200,000 Gals
AVG.															38710 Gals/D

★ 11/23/93 - LEACHATE POND EMPTY -
TOT. FROM 11/14/92 TO 11/23/93 = 2.724 MG

ATTACHMENT #1

Initials Date
Prepared By
Approved By Sup. Lab.

Treated Leachate - Monthly Extended) Effluent (Page 2 of 5)

11-14-92 TO 1/12/93
60,000 GPD

Parameters	MCL	26-NOV-92	6-MAY-92	4 JUN-92	07 JULY-92	07-AUG-92	02 SEPT 92	07 OCT 92	04 NOV. 92	02 DEC 92	07 JAN 93 (Plant Auto Failure)
Microbiological											
Total Coliform MF, COL/100ML		2	<1	<1	<1	<1	<1	<1	18	<1	240
FECAL COLIFORM MF, COL/100ML	(NOT AVAILABLE NOW)	<1	<1	<1	<1	<1	<1	<1	<1	<1	95
Turbidity NTU		0.4	0.72	<1.2	<1.2	0.95	0.15	0.45	0.30	2.1	2.0
~~Primary Metals~~											
Arsenic, mg/l		0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium, mg/l		0.084	0.078	0.095	0.14	0.064	0.078	0.072	0.086	0.076	4.6
Cadmium, mg/l		<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium, mg/l		0.012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead, mg/l		<0.0050	<0.0050	0.0057	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Selenium, mg/l		<0.040*	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver, mg/l		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Mercury, mg/l		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
~~Fluorides~~ (340.2) mg/l											
Fluoride mg/l		5.0	0.30	1.4	0.93	0.28	0.27	0.65	0.29	0.23	<0.20
Nitrate - N - mg/l		310	34	35	140	28	64	91	89	47	52
Sodium, mg/l		650	160	420	290	250	220	350	260	170	170
Trihalomethanes											
Chloroform, ug/l		13	<5.0	99	67	17	60	51	98	<5.0	<5.0
Bromoform, ug/l		50	11	140	67	13	49	110	50	16	38
Dibromochloromethane, ug/l		53	9.6	160	120	26	64	150	88	8.5	26
Bromodichloromethane, ug/l		35	3.8	210	140	29	79	150	120	4.9	14
Ethylene Dibromide (Method 504)											
1,2 Dibromoethane (EDB) ug/l		<0.20*	<0.40*	<1.0*	<1.0*	<0.20*	<0.80*	<2.0*	<1.0*	<0.10*	0.050
Primary Drinking - Volatiles											
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4 - Dichlorobenzene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2 - Dichloroethane, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1 - Dichloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1 - Trichloroethane, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinal Chloride, ug/l		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pesticides (SDWA)											
Endrin, ug/l		<0.040*	<0.040*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Gamma BHC, ug/l		<0.020*	<0.020*	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Methoxychlor, ug/l		<1.0*	<1.0*	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Toxaphene, ug/l		<2.0*	<2.0*	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

© WILSON JONES COMPANY U.S.A. • "COLUMN WRITE" ORDER RADDED 7007616A "WYRING" BOUND

(Continued on Next Page)

Initials	Date
Prepared By	
Approved By	

(Page 2 of 5)

11-14-92 – 1-22-93
60,000 GPD

	MCL	26-NOV-91	6-MAY-92	04 JUN 92	07-JUL-92	07 AUG-92	09-SEPT-92	07-OCT-92	04 NOV-92	02 DEC 92	07 JAN 93
Herbicides											
2,4-D, ug/l		<0.50	<2.5*	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2,4,5-TP Silvex, ug/l		<0.10	<2.5*	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloride (325.2)											
Chloride, mg/l		780	200	550	350	220	200	370	270	240	170
Copper, mg/l		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Iron, mg/l		<0.050	<0.050	<0.050	<0.050	0.056	<0.050	<0.050	<0.050	<0.050	<0.050
Manganese, ug/l		0.013	0.041	0.016	0.023	<0.010	0.012	<0.010	<0.010	0.017	0.014
Sulfate as SO4 (375.2)											
Sulfate as SO4, mg/l		26	22	<5.0	<5.0	9.9	10	11	<5.0	<5.0	8.2
Zinc, mg/l		0.086	0.043	0.025	0.027	<0.020	0.060	0.067	0.027	0.034	0.043
Color, PCU		70	60	<5	<5	<5.0	<5	<5	<5	<5	<5
Odor, T.O.N.		12	16	32	16	4.0	4	8	2	<1	2
pH, units		8.4	8.4	8.4	8.1	8.5	8.3	8.1	8.3	8.4	8.5
Total Dissolved Solids											
Total Dissolved Solids, mg/l		3300	880	2100	1400	810	1000	1500	970	730	880
Corrosivity (Saturation Indx)		+1.7	+1.4	+1.4	+0.77	+1.3	+0.82	+0.68	+1.0	+1.0	+1.1
Surfactants (MBAS - EPA 425.1)	mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Gross Alpha pCi/l		7+/-6	4+/-12	36+/-29	<0.1	3.8+/-5.9	<2.0	14+/-7.9	<1.0	<1.4	<1.4
Gross Beta pCi/l		115+/7	94+/-24	220+/-60	120+/-30	93+/-16	72+/-15	150+/-24	120+/-15	110+/-4.0	84+/-2.0
Volatile Organic Compounds											
Acetone, ug/l		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Acrylonitrile, ug/l		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Benzene, ug/l		–	–	–	–	–	–	–	–	–	–
Bromoform, ug/l		–	–	–	–	–	–	–	–	–	–
Carbon Tetrachloride, ug/l		–	–	–	–	–	–	–	–	–	–
Chlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chlorodibromomethane, ug/l		47	–	–	–	–	–	–	–	–	–
Chloroethane, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l		<50	<100	<50	<50	<50	<50	<10	<50	<50	<50
Chloroform, ug/l		–	–	–	–	–	–	–	–	–	–
Dichlorobromomethane, ug/l		–	–	–	–	–	–	–	–	–	–
Dichlorodifluoromethane, ug/l		<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2 Dichloroethane, ug/l		–	–	–	–	–	–	–	–	–	–
1,1-Dichloroethylene, ug/l		–	–	–	–	–	–	–	–	–	–
1,2 Dichloropropane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3 Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl Bromide, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<5.0	<10
Methyl Chloride, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride, ug/l		<10	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0

EMERSON JONES FORM NO. 5164 PRODUCED ON WG7616 WITH WORDBOUND

Initials	Date
Prepared By	
Approved By	

	MCL	26-NOV 91	6-MAY-92	04 JUN 92	07-JUL-92	07-AUG-92	02-SEPT-92	07-OCT-92	04 NOV 92	02 DEC 92	07 JAN 93
1,1,2,2-Tetrachloroethane, ug/l		58	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
~~Tetrachloroethylene, ug/l~~											
Toluene, ug/l		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethylene, ug/l		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
~~1,1,1-Trichloroethane, ug/l~~											
1,1,2-Trichloroethane, ug/l		< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
~~Trichloroethylene, ug/l~~											
Trichlorofluoromethane, ug/l		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
~~Vinyl Chloride, ug/l~~											
PP-Acid Extractable Organics											
2-Chlorophenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dichlorophenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4-Dimethylphenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4,6-Dinitro-2-Cresol, ug/l		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2,4-Dinitrophenol, ug/l		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Nitrophenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Nitrophenol, ug/l		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
p-Chloro-m-Cresol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Pentachlorophenol, ug/l		< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Phenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2,4,6-Trichlorophenol, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
PP Base/Neutral Compounds											
Acenaphthene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acenaphthylene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Anthracene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzidine, ug/l		< 80	< 80	< 80	< 80	< 80	< 80	< 80	< 80	< 80	< 80
Benzo(a) Anthracene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(a) Pyrene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3,4-Benzofluoranthene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(g,h,i) Perylene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzo(k) Fluoranthene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-Chloroethoxy) Methane, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-Chloroethyl) Ether, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-Chloroisopropyl) Ether, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bis(2-Ethylhexyl) Phthalate, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Bromophenyl Phenyl Ether, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Butyl Benzyl Phthalate, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Chloronaphthalene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Chlorophenyl Phenyl Ether, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chrysene, ug/l		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10

(Continued on Next Page)

© WILSON JONES COMPANY U.S.A. - "COLUMN WRITE" G7616A PADDED / WG7616A "WYRING" BOUN

Initials	Date
Prepared By	
Approved By	

	MCL	26 NOV 91	6-MAY-92	04 JAN-92	07 JULY-92	07 AUG 92	02-SEPT-92	07 OCT 92	04 NOV 92	02 DEC 92	07 JAN 93
Dibenzo (a,h) Anthracene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,3 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,4 Dichlorobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
3,3 Dichlorobenzidine, ug/l		<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Diethyl Phthalate, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Dimethyl Phthalate, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Di-n-Butyl Phthalate, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,4 Dinitrotoluene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Di-n-Octyl Phthalate, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2-Diphenylhydrazine, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluoranthene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Fluorene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachlorocyclopentadiene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Hexachloroethane, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isophorone, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Naphthalene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Nitrobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
n-Nitrosodimethylamine, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
n-Nitrosodi-n-Propylamine, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
n-Nitrosodiphenylamine, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Phenanthrene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Pyrene		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
1,2,4-Trichlorobenzene, ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2,3,7,8-TCDD, ug/l			ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*	ND*
Pesticides/PCB's											
Aldrin, ug/l		<50	<0.10*	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Alpha-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Beta-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Gamma-BHC, ug/l											
Delta-BHC, ug/l		<50	<0.10*	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlordane, ug/l		<50	<1.0*	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4,4'-DDT, ug/l		<10	<0.20*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDE, ug/l		<10	<0.20*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
4,4'-DDD, ug/l		<10	<0.20*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Dieldrin, ug/l		<50	<0.20*	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

(Continued on next page)

NELSON JONES COMPANY U.S.A. • "COLUMN WRITE" G7616A PADDED / G7616A "WIRING" BOUND

Initials	Date
Prepared By	
Approved By	

	MCL	26-NOV-91	6-MAY-92	04 JUN 92	07-JUL-92	07-AUG-92	02-SEPT-92	07-OCT-92	04 NOV 92	02 DEC 92	07 JAN 93
Alpha-Endosulfan, ug/l		< 100	< 0.10 *	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beta-Endosulfan, ug/l		< 100	< 0.10 *	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Endosulfan Sulfate, ug/l		< 100	< 0.10 *	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Endrin, ug/l											
Endrin aldehyde, ug/l		< 50	< 0.20 *	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Heptachlor, ug/l		< 50	< 0.10 *	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Heptachlor Epoxide, ug/l		< 50	< 0.10 *	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
PCB-1242, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCB-1254, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCB-1221, ug/l		< 500	< 4.0 *	< 2.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0
PCB-1232, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCB-1248, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCB-1260, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
PCB-1016, ug/l		< 500	< 2.0 *	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toxaphene, ug/l											
Cyanide, Total Recoverable, mg/l		< 0.010	< 0.010	< 0.010	2.3	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Cyanide, Total mg/l		< 0.010	0.086	< 0.010	< 0.010	0.029	0.028	< 0.010	0.036	0.023	0.025
Antimony, mg/l		< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Beryllium, mg/l		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Nickel, mg/l		0.045	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Thallium, mg/l		< 0.010	< 0.020 *	< 0.020 *	< 0.020 *	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010

WILSON JONES COMPANY U.S.A. • "COLUMN WRITE" G7616A PADDED / WG7616A "WYRING" BOUND

ATTACHMENT #2

	Initials	Date
Prepared By		
Approved By		

Treated Leachate - Weekly KHL Lab.

Parameter	MCL	11-07-91	11-14-91	11-21-91	11-26-91	12-05-91	12-12-91	12-18-91	12-26-91	12-30-91	01-09-92	01-16-92	01-23-92	01-30-92
P.H.	6.5-8.5	8.3	8.1	8.2	8.0	8.4	8.4	8.3	8.3	8.2	8.0	7.4	8.3	8.0
Fecals	200(2)	<4	<4	27	52	<4	4	<4	<4	2	<4	52	4	<4
Tot. Alk.	>12	560	580	464	448	460	610	280	476	308	332	436	468	376

	MCL	02-06-92	02-13-92	02-20-92	02-27-92	03-04-92	03-12-92	03-19-92	03-26-92	04-02-92	04-09-92	04-15-92	04-23-92	4-29-92
P.H.	6.5-8.5	8.2	8.0	8.1	8.0	8.1	7.8	8.0	7.9	8.1	8.2	8.2	8.3	7.8
Fecals	200(2)	8	4	144	196	<4	<4	<4	233	12	<4	22	114	<4
Tot. Alk.	>12	368	480	356	328	310	240	360	375	292	64	294	265	287
Nitrate Nitrogen						1.8								
Nitrate Nitrogen						0.71								
Total Kjeldahl Nit.						6.5								

	MCL	05-06-92	05-14-92	05-21-92	05-28-92	06-04-92	06-11-92	06-18-92	06-25-92	07-02-92	07-09-92	07-17-92	07-23-92	07-30-92
P.H.	6.5-8.5	7.9	7.7	8.2	8.1	7.9	7.7	7.9	8.3	8.1	7.6	7.3	8.1	8.1
Fecals	200(2)	<4	<4	<4	204	178	<4	<4	<4	<4	TNTC(6800)	<4	40	<4
Tot. Alk.	>12	382	322	278	308	340	312	240	226	228	229	214	303	268

	MCL	08-09-92	08-13-92	08-20-92	08-27-92	09-03-92	09-10-92	09-17-92	09-24-92	10-01-92	10-07-92	10-15-92	10-22-92	10-29-92
P.H.	6.5-8.5	8.3	8.0	7.7	7.9	8.1	8.3	8.7	8.6	8.1	7.9	7.8	7.6	—
Fecals	200(2)	88	64	105	72	118	<4	80	24	<4	<2	<1	<1	68
Tot. Alk.	712	294	216	300	220	290	312	22	284	312	234	248	378	340

	MCL	11-05-92	11-12-92	11-19-92	11-24-92	12-10-92	12-22-92	12-29-92
P.H.	6.5-8.5	8.0	See	7.5	7.7	8.6	6.2	7.5
Fecals	200(2)	51	monthly	<1	94	2	68	7
Tot. Alk.	712	300		72	—	333	360	374
BOD				1	—		—	
TSS	—			<2	—		—	
Nitrate Nitrogen					58		34	
Nitrite Nitrogen							0.79	
TKN							5.0	
Total Nitrogen							40	

11-14-92 to 1-22-92
60,000 GPD

SCRIBE JONES COMPANY U.S.A. • "COLUMN WRITE" #7616A PADDED / #G7616A "WIRING" BOUND

	Initials	Date
Prepared By		
Approved By		

** - BASED ON RESULTS OF TESTING THIS PARAMETER REVIEW BY FDER MAY REQUIRE ADDITIONAL TESTING

Treated Leachate - Monthly (Limited) KRK Lab.

Parameter mg/L	MCL *	11-07-91	12-12-91	01-08-92	02-13-92	03-12-92	04-09-92	06-11-92	06-25-92	07-09-92	8-13-92	09-10-92	10-15-92	11-12-92	
Biochemical Oxygen Demand	60 (1)	3	7	3	<1	7	2	2	2	4	1	1	3	6	✓
Total Suspended Solids	60 (1)	6	<2	4	6	<2	<2	<2	<2	4	4	2	4	<2	✓
Chemical Oxygen Demand	**	280	1,110	432	150	100	574	116	491	277	115	56	42	171	✓
Nitrate Nitrogen		(120)	(90)	0.1	1.8	<0.8	<0.01	4.2	<0.01	0.09	0.08	<0.01	<0.01	<0.01	!
Nitrite Nitrogen		(0.95)	(0.66)	0.57	0.64	1.17	0.65	1.90	26.3	(68)	(72)	(51)	(69)	84	
Total Kjeldahl Nitrogen		7	27	3.8	6.2	5.7	5.3	4.7	6.2	3.0	1.9	2.1	1.9	3.2	✓
Total Nitrogen		128	118	4.5	8.6	6.9	6.0	10.8	32.5	71	74	53.1	70.9	87	✓
P.H. Units	6.5-8.5	8.3	8.4	8.0	8.0	7.8	8.2	7.7	8.3	7.6	8.0	8.3	7.8	8.0	✓
Total Organic Carbon	**	100	71	52	38	22	80	22	16	20	20	70	17	17	✓
Total Dissolved Solids	500	3,130	3,300	2,800	2,500	1,670	1,900	1,300	780	1,500	1,200	890	1,200	1,500	✓
Lead	0.05	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	✓
Fluoride	250	698	820	520	880	299	367	290	132	279	260	208	263	322	✓
Total Alkalinity	<12	560	610	332	490	240	64	312	226	229	216	312	248	232	✓
Fecal Coliform Col/100ml	200 (2)	<4	4	<4	4	<4	<4	<4	<4	TNTC (>800)	64	<4	<1	<1	

11/4/92 THRU 12/22/93
60,000 GPD

Parameter mg/L	MCL	12-03-92	12-17-92 #1	12-17-92 #2
Biochemical Oxygen Demand		30	2	2
Total Suspended Solids		<2	2	6
Chemical Oxygen Demand		59	63	67
Total Organic Carbon		19	22	20
Nitrite Nitrogen		<0.01	0.72	0.30
Nitrate Nitrogen		(36.0)	(19)	(15)
Total Kjeldahl Nitrogen		3.5	6	3.8
Total Nitrogen		39.5	26	19
Chloride		213	162	161
Lead		<0.02	<0.02	<0.02
Total Alkalinity		136	356	350
P.H. Units		8.1	8.1	8.6
Fecal Coliform		<1	—	<1
Total Dissolved Solids		1000	820	770

© WILSON JONES COMPANY U.S.A. • "COLUMN WRITE" G7616A PADDED / WG7616A "WYRING" BOUND

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

D.E.R. Reply To:

JAN 28 1993

SOUTHWEST DISTRICT TAMPA

January 25, 1993 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of December, 1992.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

James W. Pinkerton, P.E.
County Engineer and Director

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 Application No. _____ (Filled in by DER)

Domestic Wastewater Treatment Plant Monthly Operating Report

D.E.R.
JAN 2 8 1993
SOUTHWEST DISTRICT TAMPA

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

Domestic Wastewater Treatment Plant Monthly Operating Report

Part II - General Information

(1) Month DECEMBER Year 1992

(2) Plant's DER Identification Number 4009000 86

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44, 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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 EVAP./PERC POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard B. Robinson (Signature) C-8001 (Cert. No.)

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.045
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.035
(19) Percent of permitted capacity	%	—	117 %
(20) ~~X~~BOD_5 Effluent	mg/L	080082	16
(21) ~~X~~BOD_5 Effluent	lbs/day	—	6.0
(22) TSS Effluent	mg/L	900201	< 3
(23) TSS Effluent	lbs/day	—	1.12
(24) Minimum pH		—	6.2
(25) Maximum pH		—	8.6
(26) Total N	mg/L	000600	35.3
(27) TKN	mg/L	000625	5.3
(28) Ammonia (NH_3 - N)	mg/L	000610	—
(29) Nitrate	mg/L	071850	29.5
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	0.8
(32) Maximum Chlorine Residual	mg/L	—	2.1
(33) Other Effluent Parameters			
COD	mg/l		66.5
TOC	mg/l		20
TDS	mg/l		923
LEAD	mg/l		<.02
CHLORIDE	mg/l		190
TOT. ALKALINITY	mg/l		312

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)

Domestic Wastewater Treatment Plant
Monthly Operating Report

(34)

Month DECEMBER Year 1992

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)	TOT. ALKALINITY mg/L	TOC mg/L	NITRITE mg/L	TOTAL N mg/L	CHLORIDE mg/L	LEAD mg/L	TDS mg/L	COD mg/L
1	.060	2.0						8.2													
2	.060	1.5				30	<2	8.2	6.0		37.5		<1	139	19	<.01	43.6	218	<.02	1,050	68
3	.060	0.8						8.0													
4	.060	0.8						8.0													
5	.060	1.5						7.9													
6	.030	1.3						7.9													
7	.010	1.8						8.0													
8	.060	1.0						8.0													
9	.060	0.8						8.6					2	333							
10	.030	1.0						8.0													
11	.000																				
12	.040	1.0						8.0													
13	.030																				
14	.030	1.2						8.0													
15	.060	1.5						8.0													
16	.060	1.0				2	4	8.3	4.9		17		<1	353	21	0.5	22.5	162	<.02	795	65
17	.060	1.1						8.0													
18	.060	1.0						7.9													
19	.060	1.0						7.8													
20	.020	1.1						8.0													
21	.030	1.5						8.0													
22	.040	2.1						6.2	5.0		34		68	360		.79	40				
23	.060	2.0						8.0													
24	.050	2.0						8.0													
25	.030	1.5						8.0													
26	.030	2.0						8.0													
27	.030	1.8						8.0													
28	.040	1.0						8.0													
29	.050	1.5						7.5					7	374							
30	.060	1.8						8.0													
31	.060	0.8						7.9													

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: Richard B. Robinson Date: 1-22-93

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

January 12, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 48332
Sampled By: Client
Received: 12-29-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	374
pH, units	7.5
Fecal Coliform, colonies/100ml	7

FORWARDED TO:
D.E.R., TAMPA
DATE: 1/25/1993

Garrett McGibbon
Laboratory Manager

JAN 20

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

January 12, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 48264
Sampled By: Client
Received: 12-22-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Nitrite Nitrogen, mg/l	0.79
Nitrate Nitrogen, mg/l	34
Total Kjeldahl Nitrogen, mg/l	5.0
Total Nitrogen, mg/l	40
Total Alkalinity, mg/l $CaCO_3$	360
pH, units	6.2
Fecal Coliform, colonies/100ml	68

FORWARDED TO
D.E.R. TAMPA
DATE: 1/25/93

Garrett McGibbon
Laboratory Manager

JAN 20

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

January 4, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 48120
Sampled By: Client
Received: 12-17-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant Batch #1

Parameter	Results
Biochemical Oxygen Demand, mg/l	2
Total Suspended Solids, mg/l	2
Chemical Oxygen Demand, mg/l	63
Total Organic Carbon, mg/l	22
Nitrite Nitrogen, mg/l	0.73
Nitrate Nitrogen, mg/l	19
Total Kjeldahl Nitrogen, mg/l	6
Total Nitrogen, mg/l	26
Chloride, mg/l	162
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	356
pH, units	8.1
Total Dissolved Solids, mg/l	820

FORWARDED TO:
D.E.R. TAMPA
DATE: 1/25 93

Garrett McGibbon
Laboratory Manager

JAN 20

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

January 4, 1993

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 48121
Sampled By: Client
Received: 12-17-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant Batch #2

Parameter	Results
Biochemical Oxygen Demand, mg/l	2
Total Suspended Solids, mg/l	6
Chemical Oxygen Demand, mg/l	67
Total Organic Carbon, mg/l	20
Nitrite Nitrogen, mg/l	0.30
Nitrate Nitrogen, mg/l	15
Total Kjeldahl Nitrogen, mg/l	3.8
Total Nitrogen, mg/l	19
Chloride, mg/l	161
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	350
pH, units	8.6
Fecal Coliform, colonies/100ml	< 1
Total Dissolved Solids, mg/l	770

FORWARDED TO: D.E.P.
DATE: 1/25 1993

Garrett McGibbon
Laboratory Manager

JAN 20

LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

December 21, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 47869
Sampled By: Client
Received: 12-10-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	333
pH, units	8.6
Fecal Coliform, colonies/100ml	2

DATE: 1/25/93

Garrett McGibbon
Laboratory Manager

JAN 20

LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

December 18, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 47535
Sampled By: Client
Received: 12-03-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	30
Total Suspended Solids, mg/l	< 2
Chemical Oxygen Demand, mg/l	59
Total Organic Carbon, mg/l	19
Nitrite Nitrogen, mg/l	< 0.01
Nitrate Nitrogen, mg/l	36.0
Total Kjeldahl Nitrogen, mg/l	3.5
Total Nitrogen, mg/l	39.5
Chloride, mg/l	213
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	136
pH, units	8.1
Fecal Coliform, colonies/100ml	< 1
Total Dissolved Solids, mg/l	1000

FORWARDED TO: D.E.R. TAMPA DATE: 1/25 93

Garrett M. Gibbon

Garrett McGibbon
Laboratory Manager

JAN 20

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

MEMORANDUM

DATE: DECEMBER 30, 1992

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: MICHAEL D. MOORE, ACTING DIRECTOR, MDM
DIVISION OF SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH. CJW

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the December sampling of effluent at the Leachate Treatment Facility.

Please include in your December report submittal to the Department of Environmental Regulation.

MDM:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services
Robert Merkel, Utilities Operation Supervisor

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.076
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.23
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	47
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	170
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	<5.0
Chloroform, ug/l	16
Dichlorobromomethane, ug/l	8.5
Dibromochloromethane, ug/l	4.9

RECEIVED
DEC 28 1992
CITRUS COUNTY-DTS

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.10*
Turbidity, NTU	2.1
Microbiological	
Total Coliform MF, col/100ml	<1
Fecal Coliform MF, col/100ml	<1
Gross Alpha, pCi/l	<1.4
Gross Beta, pCi/l	110+/-4.0
Chloride, mg/l	240
Color, PCU	<5
Copper, mg/l	<0.025
Corrosivity (saturation index)	+1.0
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	<0.050
Manganese, mg/l	0.017
Odor, TON	<1
pH, units	8.4
Sulfate as SO4, mg/l	<5.0
Total Dissolved Solids, mg/l	730

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Zinc, mg/l	0.034
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.023

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31877-1	Leachate Effluent	12-02-92

PARAMETER	31877-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<50
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<5.0
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<10
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = Not Detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Arsenic, mg/l	<0.010	111 %	0 %
Barium, mg/l	<0.010	104 %	2.9 %
Cadmium, mg/l	<0.0050	96 %	1.0 %
Chromium, mg/l	<0.010	102 %	0.99 %
Fluoride, mg/l	<0.20	96 %	0 %
Lead, mg/l	<0.0050	102 %	3.0 %
Mercury, mg/l	<0.00020	100 %	1.0 %
Nitrate-N, mg/l	<0.050	101 %	1.0 %
Selenium, mg/l	<0.010	91 %	0 %
Silver, mg/l	<0.010	94 %	5.3 %
Sodium, mg/l	<0.50	100 %	1.0 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	90 %	3.3 %
Gamma-BHC, ug/l	<0.050	123 %	7.3 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	67 %	7.5 %
2,4,5-TP Silvex, ug/l	<0.50	80 %	1.3 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	78 %	1.3 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	70 %	7.1 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	77 %	10 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	110 %	1.8 %
Turbidity, NTU	<0.10	111 %	0 %
Microbiological			
Total Coliform MF, col/100ml	<1	---	0 %
Fecal Coliform MF, col/100ml	<1	---	0 %
Gross Alpha, pCi/l	<0.5	89 %	0 %
Gross Beta, pCi/l	<1.0	103 %	18 %
Chloride, mg/l	<1.0	100 %	6.5 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	98 %	3.0 %
Corrosivity (saturation index)	-5.4	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	99 %	11 %
Iron, mg/l	<0.050	102 %	0.98 %
Manganese, mg/l	<0.010	102 %	0 %
Odor, TON	<1	---	0 %
pH, units	5.8	100 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Sulfate as SO4, mg/l	<5.0	99 %	1.4 %
Total Dissolved Solids, mg/l	<5.0	89 %	3.3 %
Zinc, mg/l	<0.020	104 %	0.96 %
Antimony, mg/l	<0.050	101 %	2.0 %
Beryllium, mg/l	<0.0050	96 %	2.1 %
Nickel, mg/l	<0.040	104 %	0.96 %
Thallium, mg/l	<0.010	103 %	1.9 %
Phenolics,Total Recoverable, mg/l	<0.010	93 %	6.5 %
Cyanide, Total, mg/l	<0.010	103 %	1.9 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	68 %	5.9 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	65 %	3.1 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	72 %	4.2 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	78 %	1.3 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	86 %	2.3 %
1,2,4-Trichlorobenzene, ug/l	<10	70 %	2.9 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	60 %	1.7 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	67 %	4.5 %
P-Chloro-m-cresol, ug/l	<10	69 %	2.9 %
Pentachlorophenol, ug/l	<50	70 %	2.9 %
Phenol, ug/l	<10	63 %	0 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	99 %	6.1 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	70 %	4.3 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	94 %	2.1 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	81 %	7.4 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL ***SAVANNAH LABORATORIES***
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31877

Received: 02 DEC 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31877-2	Lab Blank
31877-3	Accuracy (% Recovery)
31877-4	Precision (% RPD)

PARAMETER	31877-2	31877-3	31877-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	136 %	0.74 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	132 %	0 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

ND* = None Detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

SL & ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive, Tallahassee, FL 32301 — Phone: (904) 878-3994 — Fax (904) 878-9504
414 Southwest 12th Avenue, Deerfield Beach, FL 33442 — Phone: (305) 421-7400 — Fax (305) 421-2584
900 Lakeside Drive, Mobile, AL 36693 — Phone: (205) 666-6633 — Fax (205) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 — Phone: (813) 885-7427 — Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Leachate Effluent

CLIENT NAME	TELEPHONE/FAX NO.
Cathy Winter	904-627-9400

CLIENT ADDRESS	CITY, STATE, ZIP CODE
230 Gulf to Lake Hwy	Lecanto FL 32661

SAMPLER(S) NAME(S)	CLIENT PROJECT MANAGER
Chris Harris	Andre Rachmanoff

MATRIX TYPE: AQUEOUS MATRIX; NONAQUEOUS MATRIX; OIL MATRIX; AIR MATRIX

REQUIRED ANALYSES: THM; Rad; Semi-vol/MBAS; Phenol/CN; F/NO3; VOC; EDB; Inorganics; Metal; T-coli; F-coli

PAGE ____ OF ____

☒ STANDARD TAT
☐ EXPEDITED TAT *

REPORT DUE DATE _____

* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED									
12/2/92	10:15	Leachate Effluent	3	1	6	2	1	3	3	1	1	4

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
[signature]	8:25		[signature]	12/2/92	17:00	[signature]	12/2/92	18:00
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
[signature]	12-2-92	15:30	☒ YES ☐ NO		B231877	

ORIGINAL

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

RECEIVED
DEC 23 1992
Department of Environmental Regulation
SOUTH WEST DISTRICT

December 17, 1992 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of November, 1992.

Sincerely,

Ralph L. Hedgecoth

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 Application No. _____ (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY
Monthly Operating Report

RECEIVED
DEC 23 1992
Department of Environmental Regulation
SOUTH WEST DISTRICT

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, underground injection.)

(13) If this plant does not have a limited wet weather discharge permitted under the provisions of Rule 17-610.660(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
1900 S Congress Ave, Suite A
West Palm Beach, Florida 33406
407-433-2650

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 II - General Information

(1) Month NOVEMBER Year 1992

(2) Plant's DER Identification Number 4009000 86

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44, 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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

EVAP. / PERC. POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard B. Robinson (Signature) C-8001 (Cert. No.)

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.030
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.030
(19) Percent of permitted capacity	%	—	100%
(20) %BOD$_5$ Effluent	mg/L	080082	6
(21) %BOD$_5$ Effluent	lbs/day	—	1.5
(22) TSS Effluent	mg/L	900201	< 2
(23) TSS Effluent	lbs/day	—	< .5
(24) Minimum pH		—	7.4
(25) Maximum pH		—	8.2
(26) Total N	mg/L	000600	87
(27) TKN	mg/L	000625	3.2
(28) Ammonia (NH_3 - N)	mg/L	000610	—
(29) Nitrate	mg/L	071850	84
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	0.7
(32) Maximum Chlorine Residual	mg/L	—	3.0
(33) Other Effluent Parameters			
COD	mg/l		171
TOC	mg/l		17
TDS	mg/l		1,500
LEAD	mg/l		< .02
CHLORIDE	mg/l		322
TOT. ALKALINITY	mg/l		201

DER Form - 17-601.900(1)
Form Title - Domestic Wastewater Treatment Plant Monthly Operating Report
Effective Date - July 31, 1991
DER Application No. -
Filed in by DER

DEC 23 1992

SOLID WASTE LEACHATE TREATMENT FACILITY

Monthly Operating Report

Department of Environmental Regulation
SOUTH WEST DISTRICT

(34)

Month NOVEMBER Year 1992

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)	TOT. ALKALINITY mg/L	COD mg/L	TOC mg/L	NITRITE mg/L	TOTAL N mg/L	CHLORIDE mg/L	LEAD mg/L	TDS mg/L
1	.020																				
2	.020	1.0						8.0													
3	.020	1.0						8.0													
4	.020	1.0						8.0					51	300							
5	.020	1.0						8.0													
6	.020	1.0						8.0													
7	020	1.0						8.0													
8	.020																				
9	.020																				
10	.010	3.0						7.8													
11	.020	3.0						7.4													
12	.020	3.0				6	<2	8.0	3.2		84		<1	232	171	17	<.01	87	322	<.02	1,500
13	.010	2.0						7.8													
14	.060	0.7						8.2													
15	.020																				
16	.030	1.0						8.0													
17	.060	1.5						8.0													
18	.040	1.5						7.5					<1	72							
19	.060	1.0						8.0													
20	.060	1.0						8.0													
21	.060	1.0						8.0													
22	.010																				
23	.030	1.2						8.0													
24	.060	1.5						7.7					94								
25	.060	1.5						8.0													
26	.030																				
27	.020																				
28	.020	1.8						8.0													
29	.010																				
30	.030	1.5						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: Richard B. Robinson Date: 12-17-92

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

November 10, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46836
Sampled By: Client
Received: 11-05-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	300
pH, units	8.0
Fecal Coliform, colonies/100ml	51

RECEIVED
DEC 10 1992

Garrett McGibbon
Laboratory Manager

FORWARDED TO:
D.E.R. TAMPA
DATE 19

KNL LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

December 1, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 47078
Sampled By: Client
Received: 11-12-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	6
Total Suspended Solids, mg/l	< 2
Chemical Oxygen Demand, mg/l	171
Total Organic Carbon, mg/l	17
Nitrite Nitrogen, mg/l	< 0.01
Nitrate Nitrogen, mg/l	84
Total Kjeldahl Nitrogen, mg/l	3.2
Total Nitrogen, mg/l	87
Chloride, mg/l	322
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	232
pH, units	8.0
Fecal Coliform, colonies/100ml	< 1
Total Dissolved Solids, mg/l	1,500

Garrett M. Gibbon

Garrett McGibbon
Laboratory Manager

RECEIVED
DEC 10 1992

FORWARDED TO:
D.E.R. TAMPA
DATE:_____,19____

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

December 1, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 47231
Sampled By: Client
Received: 11-19-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	1
Total Suspended Solids, mg/l	< 2
Total Alkalinity, mg/l $CaCO_3$	72
pH, units	7.5
Fecal Coliform, colonies/100ml	< 1

FORWARDED TO:
D.E.R. TAMPA
DATE:_____,19____

RECEIVED
DEC 10 1992

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

December 11, 1992

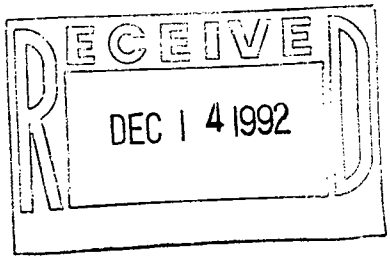
Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 47324
Sampled By: Client
Received: 11-24-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Nitrate Nitrogen, mg/l	58
pH, units	7.7
Fecal Coliform, colonies/100ml	94



Garrett McGibbon
Laboratory Manager

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

MEMORANDUM

DATE: DECEMBER 2, 1992

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: MICHAEL D. MOORE, ACTING DIRECTOR, MDM
DIVISION OF SOLID WASTE MANAGEMENT

FROM: CJW CATHLEEN J. WINTER, SOLID WASTE TECH.

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS - YEARLY INFLUENT TESTING AND ANALYSIS

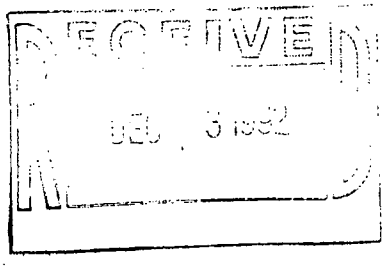
==========

Attached please find the analysis from Savannah Laboratories, covering the November sampling of effluent and the yearly sampling of influent from the Leachate Treatment Facility.

Please include in your November report submittal to the Department of Environmental Regulation.

THD:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services



SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Arsenic, mg/l	0.020	<0.010
Barium, mg/l	0.089	0.086
Cadmium, mg/l	<0.0050	<0.0050
Chromium, mg/l	<0.010	<0.010
Fluoride, mg/l	<0.20	0.29
Lead, mg/l	<0.0050	<0.0050
Mercury, mg/l	<0.00020	<0.00020
Nitrate-N, mg/l	<0.050	89
Selenium, mg/l	<0.010	<0.010
Silver, mg/l	<0.010	<0.010
Sodium, mg/l	220	260
Pesticides (SDWA)		
Endrin, ug/l	<0.10	<0.10
Gamma-BHC, ug/l	<0.050	<0.050
Methoxychlor, ug/l	<0.50	<0.50
Toxaphene, ug/l	<5.0	<5.0
Herbicides (SDWA)		
2,4-D, ug/l	<0.50	<0.50
2,4,5-TP Silvex, ug/l	<0.50	<0.50
Trihalomethanes		
Bromoform, ug/l	<5.0	98
Chloroform, ug/l	<1.0	50
Dichlorobromomethane, ug/l	<1.0	88
Dibromochloromethane, ug/l	<1.0	120

RECEIVED
DEC - 1 1992

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Primary Drinking-Volatiles		
Benzene, ug/l	3.3	<1.0
Carbon Tetrachloride, ug/l	<1.0	<1.0
1,4-Dichlorobenzene, ug/l	5.6	<1.0
1,2-Dichloroethane, ug/l	<1.0	<1.0
1,1-Dichloroethylene, ug/l	<1.0	<1.0
Tetrachloroethylene, ug/l	<1.0	<1.0
1,1,1-Trichloroethane, ug/l	<1.0	<1.0
Trichloroethylene, ug/l	<1.0	<1.0
Vinyl Chloride, ug/l	16	<1.0
1,2-Dibromoethane (EDB), ug/l	<0.020	<1.0*
Turbidity, NTU	650	0.30
Microbiological		
Total Coliform MF, mg/l	300	18
Fecal Coliform MF, mg/l	<1	<1
Gross Alpha, pCi/l	34+/-34	<1.0
Gross Beta, pCi/l	100+/-22	120+/-15
Chloride, mg/l	210	270
Color, PCU	330	<5
Copper, mg/l	<0.025	<0.025
Corrosivity (saturation index)	+0.65	+1.0
Surfactants (MBAS-EPA 425.1), mg/l	0.20	<0.10
Iron, mg/l	52	<0.050
Manganese, mg/l	0.68	<0.010
Odor, TON	65	2
pH, units	6.8	8.3
Sulfate as SO4, mg/l	<5.0	<5.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Total Dissolved Solids, mg/l	1300	970
Zinc, mg/l	0.023	0.027
Antimony, mg/l	<0.050	<0.050
Beryllium, mg/l	<0.0050	<0.0050
Nickel, mg/l	<0.040	<0.040
Thallium, mg/l	<0.010	<0.010
Phenolics,Total Recoverable, mg/l	0.047	<0.010
Cyanide, Total, mg/l	<0.010	0.036

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
PP-Base/Neutral Compounds		
Acenaphthene, ug/l	<10	<10
Acenaphthylene, ug/l	<10	<10
Anthracene, ug/l	<10	<10
Benzidine, ug/l	<80	<80
Benzo(a)Anthracene, ug/l	<10	<10
Benzo(a)Pyrene, ug/l	<10	<10
3,4-Benzofluoranthene, ug/l	<10	<10
Benzo (g,h,i) Perylene, ug/l	<10	<10
Benzo (k) Fluoranthene, ug/l	<10	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10	<10
Bis (2-Chloroethyl) Ether, ug/l	<10	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	<10
4-Bromophenyl Phenyl Ether, ug/l	<10	<10
Butyl Benzyl Phthalate, ug/l	<10	<10
2-Chloronaphthalene, ug/l	<10	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10	<10
Chrysene, ug/l	<10	<10
Dibenzo (a,h) Anthracene, ug/l	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10
1,3-Dichlorobenzene, ug/l	<10	<10
1,4-Dichlorobenzene, ug/l	<10	<10
3,3-Dichlorobenzidine, ug/l	<20	<20
Diethyl Phthalate, ug/l	<10	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Dimethyl Phthalate, ug/l	<10	<10
Di-N-Butyl Phthalate, ug/l	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10
Di-N-Octyl Phthalate, ug/l	<10	<10
1,2-Diphenylhydrazine, ug/l	<10	<10
Fluoranthene, ug/l	<10	<10
Fluorene, ug/l	<10	<10
Hexachlorobenzene, ug/l	<10	<10
Hexachlorobutadiene, ug/l	<10	<10
Hexachlorocyclopentadiene, ug/l	<10	<10
Hexachloroethane, ug/l	<10	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10	<10
Isophorone, ug/l	<10	<10
Naphthalene, ug/l	<10	<10
Nitrobenzene, ug/l	<10	<10
N-Nitrosodimethylamine, ug/l	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10
N-Nitrosodiphenylamine, ug/l	<10	<10
Phenanthrene, ug/l	<10	<10
Pyrene, ug/l	<10	<10
1,2,4-Trichlorobenzene, ug/l	<10	<10
2,3,7,8-TCDD, mg/l	ND*	ND*

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
PP-Acid Extractable Organics		
2-Chlorophenol, ug/l	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10
4,6-Dinitro-o-cresol, ug/l	<50	<50
2,4-Dinitrophenol, ug/l	<50	<50
2-Nitrophenol, ug/l	<10	<10
4-Nitrophenol, ug/l	<50	<50
P-Chloro-m-cresol, ug/l	<10	<10
Pentachlorophenol, ug/l	<50	<50
Phenol, ug/l	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Pesticides/PCB's		
Aldrin, ug/l	<0.050	<0.050
Alpha-BHC, ug/l	<0.050	<0.050
Beta-BHC, ug/l	<0.050	<0.050
Delta-BHC, ug/l	<0.050	<0.050
Chlordane, ug/l	<0.50	<0.50
4,4'-DDT, ug/l	<0.10	<0.10
4,4'-DDE, ug/l	<0.10	<0.10
4,4'-DDD, ug/l	<0.10	<0.10
Dieldrin, ug/l	<0.10	<0.10
Alpha-Endosulfan, ug/l	<0.050	<0.050
Beta-Endosulfan, ug/l	<0.10	<0.10
Endosulfan Sulfate, ug/l	<0.10	<0.10
Endrin Aldehyde, ug/l	<0.10	<0.10
Heptachlor, ug/l	<0.050	<0.050
Heptachlor Epoxide, ug/l	<0.050	<0.050
PCB-1242, ug/l	<1.0	<1.0
PCB-1254, ug/l	<1.0	<1.0
PCB-1221, ug/l	<2.0	<2.0
PCB-1232, ug/l	<1.0	<1.0
PCB-1248, ug/l	<1.0	<1.0
PCB-1260, ug/l	<1.0	<1.0
PCB-1016, ug/l	<1.0	<1.0

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31700-1	Effluent - Raw	11-04-92
31700-2	Effluent - Treated	11-04-92

PARAMETER	31700-1	31700-2
Volatile Organic Compounds		
Acrolein, ug/l	<100	<100
Acrylonitrile, ug/l	<100	<100
Chlorobenzene, ug/l	<5.0	<5.0
Chloroethane, ug/l	15	<10
2-Chloroethylvinyl Ether, ug/l	<50	<50
Dichlorodifluoromethane, ug/l	<5.0	<5.0
1,1-Dichloroethane, ug/l	16	<5.0
1,2-Dichloropropane, ug/l	<5.0	<5.0
1,3-Dichloropropene, ug/l	<5.0	<5.0
Ethylbenzene, ug/l	34	<5.0
Methyl Bromide, ug/l	<10	<10
Methyl Chloride, ug/l	<10	<10
Methylene Chloride, ug/l	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0	<5.0
Toluene, ug/l	110	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	5.2	<5.0
1,1,2-Trichloroethane, ug/l	<5.0	<5.0
Trichlorofluoromethane, ug/l	<5.0	<5.0

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = Not detected.

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Arsenic, mg/l	<0.010	100 %	2.0 %
Barium, mg/l	<0.010	100 %	1.0 %
Cadmium, mg/l	<0.0050	102 %	0.98 %
Chromium, mg/l	<0.010	101 %	2.0 %
Fluoride, mg/l	<0.20	100 %	4.0 %
Lead, mg/l	<0.0050	104 %	0.97 %
Mercury, mg/l	<0.00020	105 %	0 %
Nitrate-N, mg/l	<0.050	99 %	1.0 %
Selenium, mg/l	<0.010	80 %	8.8 %
Silver, mg/l	<0.010	101 %	0 %
Sodium, mg/l	<0.50	106 %	1.9 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	82 %	20 %
Gamma-BHC, ug/l	<0.050	109 %	13 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	77 %	16 %
2,4,5-TP Silvex, ug/l	<0.50	97 %	15 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	88 %	1.1 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	106 %	23 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	113 %	2.6 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	104 %	17 %
Turbidity, NTU	<0.10	105 %	2.4 %
Microbiological			
Total Coliform MF, mg/l	<1	---	0 %
Fecal Coliform MF, mg/l	<1	---	0 %
Gross Alpha, pCi/l	<1.0	91 %	5.6 %
Gross Beta, pCi/l	2.5+/-1.6	93 %	2.7 %
Chloride, mg/l	<1.0	100 %	2.4 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	97 %	0 %
Corrosivity (saturation index)	-5.4	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	100 %	8.0 %
Iron, mg/l	<0.050	100 %	1.0 %
Manganese, mg/l	<0.010	102 %	0.99 %
Odor, TON	<1	---	0 %
pH, units	5.8	102 %	0.16 %

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Sulfate as SO4, mg/l	<5.0	98 %	3.1 %
Total Dissolved Solids, mg/l	<5.0	99 %	2.1 %
Zinc, mg/l	<0.020	104 %	0.97 %
Antimony, mg/l	<0.050	100 %	1.0 %
Beryllium, mg/l	<0.0050	96 %	2.1 %
Nickel, mg/l	<0.040	104 %	0.96 %
Thallium, mg/l	<0.010	105 %	1.9 %
Phenolics,Total Recoverable, mg/l	<0.010	94 %	9.6 %
Cyanide, Total, mg/l	<0.010	88 %	1.1 %

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	72 %	5.6 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	57 %	0 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	78 %	90 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	76 %	2.6 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	82 %	1.2 %
1,2,4-Trichlorobenzene, ug/l	<10	64 %	1.6 %
2,3,7,8-TCDD, mg/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	64 %	0 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	81 %	19 %
P-Chloro-m-cresol, ug/l	<10	69 %	4.3 %
Pentachlorophenol, ug/l	<50	64 %	19 %
Phenol, ug/l	<10	64 %	0 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Pesticides/PCB's			
Aldrin, ug/l	<0.050	94 %	8.5 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	78 %	21 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	87 %	10 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	82 %	11 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31700

Received: 04 NOV 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31700-3	Lab Blank
31700-4	Accuracy (% Recovery)
31700-5	Precision (% RPD)

PARAMETER	31700-3	31700-4	31700-5
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	95 %	4.2 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	95 %	4.2 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

ND* = Not Detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Citrus County Landfill Leachate

CLIENT NAME: Kathy Winter — TELEPHONE/FAX NO.:

CLIENT ADDRESS: 230 Gulf to Lake Hwy — CITY, STATE, ZIP CODE: Lecanto, FL 34461

SAMPLER(S) NAME(S): Mark Harris — CLIENT PROJECT MANAGER: Andrea Rachwanowski

MATRIX TYPE: AQUEOUS MATRIX ✓ | NONAQUEOUS MATRIX | OIL MATRIX | AIR MATRIX

REQUIRED ANALYSES: Inorganics / FINDS | Rad | CN | Semivol / MBAS | Metals | Phenol | VOC | EDB | THM | T-Coli: F-Coli

PAGE: ____ OF: ____

☒ STANDARD TAT
☐ EXPEDITED TAT *

REPORT DUE DATE: ____

* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED									
11/2/92	10:30	Effluent - Raw	2	1	1	6	1	1	4	2	3	4
✓	11:00	Effluent - Treated	2	1	1	6	1	1	4	2	3	4

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
John Hart	11-3-92	10:00		11/3/92	17:00		11/4/92	13:30
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
Chris Wesser	11/4/92	2:15	☒ YES ☐ NO		B231700	

ORIGINAL

CITRUS COUNTY
DEPARTMENT OF TECHNICAL SERVICES
1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

D.E.R.

NOV 3 0 1992

SOUTHWEST DISTRICT TAMPA
Utilities Division

November 23, 1992

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of October, 1992.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 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 17-610.660(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
1900 S Congress Ave, Suite A
West Palm Beach, Florida 33406
407-433-2650

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 II - General Information

(1) Month OCTOBER Year 1992

(2) Plant's DER Identification Number 4009000 86

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44, 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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

EVAP. / PERC POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard B. Johnson (Signature) C-8001 (Cert. No.)

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.029
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.028
(19) Percent of permitted capacity	%	—	93%
(20) $CBOD_5$ Effluent	mg/L	080082	3
(21) $CBOD_5$ Effluent	lbs/day	—	.08
(22) TSS Effluent	mg/L	900201	4
(23) TSS Effluent	lbs/day	—	1.
(24) Minimum pH		—	7.6
(25) Maximum pH		—	8.2
(26) Total N	mg/L	000600	20.9
(27) TKN	mg/L	000625	1.9
(28) Ammonia (NH_3 - N)	mg/L	000610	—
(29) Nitrate	mg/L	071850	19
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	0.6
(32) Maximum Chlorine Residual	mg/L	—	2.0
(33) Other Effluent Parameters			
COD	mg/L		42
TOC	mg/L		17
TDS	mg/L		1200
Lead	mg/L		<.02
Chloride	mg/L		263
Tot. Alkalinity	mg/L		312

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

(34)

Month OCTOBER Year 1991

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)	Tot. Alkalinity mg/l	COD mg/L	TOC mg/L	Nitrate mg/L	Total Nitrate mg/L	Chloride mg/L	Lead mg/l	TDS mg/l
1	.030	.8						8.0													
2	.030	.8						8.0													
3	.030	.6						8.2													
4	.030																				
5	.000																				
6	.000																				
7	.010	1.5						7.9					<2	284							
8	.000																				
9	.030	.8						8.2													
10	.050	.8						8.2													
11	.040																				
12	.030																				
13	.040	1.5						7.8													
14	.030	2.0				3	4	7.6	1.9				<1	248	42	17	<.01	70.9	263	<.02	1200
15	.040	1.0						8.0													
16	.030	1.0						8.0													
17	.035	1.0						8.0													
18	.030																				
19	.030																				
20	.040	.8						8.2													
21	.030	1.0						7.6					<1	378							
22	.030	1.0						8.2													
23	.030	1.0						8.2													
24	.030	1.0						8.0													
25	.030							8.0													
26	.030																				
27	.030	1.0						8.0													
28	.030	1.0						8.0					68	340							
29	.030	1.0						8.0													
30	.030	1.0						8.0													
31	.030	1.0						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: Richard B. Robinson Date: 11-19-92

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
November 2, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46665
Sampled By: Client
Received: 10-29-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	340
Fecal Coliform, colonies/100ml	68

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

October 29, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46569
Sampled By: Client
Received: 10-22-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	190
Total Suspended Solids, mg/l	32
Chemical Oxygen Demand, mg/l	69
Nitrite Nitrogen, mg/l	0.01
Nitrate Nitrogen, mg/l	0.12
Total Kjeldahl Nitrogen, mg/l	5.4
Total Nitrogen, mg/l	5.5
pH, units	5.3
Total Dissolved Solids, mg/l	300

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

October 28, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46570
Sampled By: Client
Received: 10-22-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant-Effluent

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	378
pH, units	7.6
Fecal Coliform, colonies/100ml	< 1

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
November 2, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46571
Sampled By: Client
Received: 10-22-92

Sample Description:
Sludge

Sample Identification:
Citrus County Landfill

Parameter	Results
pH, units (field)	6.8
Total Solids, %	0.907
Total Phosphorus, % dry wt.	1.0
Total Potassium, % dry wt.	1.2
Total Nitrogen, % dry wt.	1.2
Cadmium, mg/kg dry wt.	5
Copper, mg/kg dry wt.	30
Lead, mg/kg dry wt.	< 15
Nickel, mg/kg dry wt.	< 15
Zinc, mg/kg dry wt.	60

DER 17-7.54 Sludge Grade: 1

Residuals meet chemical criteria pursuant to DER rule 17-640.700(2), F.A.C.

Residuals meet chemical criteria for Class AA pursuant to DER rule 17-640.850, F.A.C.

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
October 27, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46368
Sampled By: Client
Received: 10-15-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	3
Total Suspended Solids, mg/l	4
Chemical Oxygen Demand, mg/l	42
Total Organic Carbon, mg/l	17
Nitrite Nitrogen, mg/l	< 0.01
Nitrate Nitrogen, mg/l	69
Total Kjeldahl Nitrogen, mg/l	1.9
Total Nitrogen, mg/l	70.9
Chloride, mg/l	263
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	248
pH, units	7.8
Fecal Coliform, colonies/100ml	< 1
Total Dissolved Solids, mg/l	1200

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

October 12, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 46139
Sampled By: Client
Received: 10-08-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	284
pH, units	7.9
Fecal Coliform, colonies/100ml	< 2

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

October 5, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45960
Sampled By: Client
Received: 10-01-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	312
pH, units	8.1
Fecal Coliform, colonies/100ml	< 4

Garrett McGibbon
Laboratory Manager

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 32661-0440
(904) 746-2694 • FAX (904) 746-9874

Reply To:

MEMORANDUM

DATE: NOVEMBER 3, 1992

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: THOMAS H. DICK, DIRECTOR, DIVISION OF AQUATICS AND SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, SOLID WASTE TECH.

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

==========

Attached please find the analysis from Savannah Laboratories, covering the October sampling of effluent at the Leachate Treatment Facility.

Please include in your October report submittal to the Department of Environmental Regulation.

THD:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services

Nitrate 91
Sodium 350
THMs
Gross Beta 150
TDS 1500
} elevated parameters

Effluent goes to a lined evap. pond

RECEIVED
NOV 4 1992

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

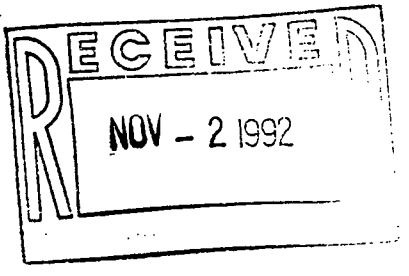
Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.072
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.65
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	91
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	350
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP Silvex, ug/l	<0.50
Trihalomethanes	
Bromoform, ug/l	51
Chloroform, ug/l	110
Dichlorobromomethane, ug/l	150
Dibromochloromethane, ug/l	150



SL *SAVANNAH LABORATORIES*
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Primary Drinking-Volatiles	
Benzene, ug/l	<1.0
Carbon Tetrachloride, ug/l	<1.0
1,4-Dichlorobenzene, ug/l	<1.0
1,2-Dichloroethane, ug/l	<1.0
1,1-Dichloroethylene, ug/l	<1.0
Tetrachloroethylene, ug/l	<1.0
1,1,1-Trichloroethane, ug/l	<1.0
Trichloroethylene, ug/l	<1.0
Vinyl Chloride, ug/l	<1.0
1,2-Dibromoethane (EDB), ug/l	<2.0*
Turbidity, NTU	0.45
Microbiological	
Total Coliform MF, mg/l	<1
Fecal Coliform MF, mg/l	<1
Gross Alpha, pCi/l	14+/-7.9
Gross Beta, pCi/l	150+/-24
Chloride, mg/l	370
Color, PCU	<5
Copper, mg/l	<0.025
Corrosivity (saturation index)	+0.68
Surfactants (MBAS-EPA 425.1), mg/l	<0.10
Iron, mg/l	<0.050
Manganese, mg/l	<0.010
Odor, mg/l	8
pH, units	8.1
Sulfate as SO4, mg/l	11
Total Dissolved Solids, mg/l	1500

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Zinc, mg/l	0.067
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	<0.010

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1				
PP-Base/Neutral Compounds					
Acenaphthene, ug/l	<10				
Acenaphthylene, ug/l	<10				
Anthracene, ug/l	<10				
Benzidine, ug/l	<80				
Benzo(a)Anthracene, ug/l	<10				
Benzo(a)Pyrene, ug/l	<10				
3,4-Benzofluoranthene, ug/l	<10				
Benzo (g,h,i) Perylene, ug/l	<10				
Benzo (k) Fluoranthene, ug/l	<10				
Bis (2-Chloroethoxy) Methane, ug/l	<10				
Bis (2-Chloroethyl) Ether, ug/l	<10				
Bis (2-Chloroisopropyl) Ether, ug/l	<10				
Bis (2-Ethylhexyl) Phthalate, ug/l	<10				
4-Bromophenyl Phenyl Ether, ug/l	<10				
Butyl Benzyl Phthalate, ug/l	<10				
2-Chloronaphthalene, ug/l	<10				
4-Chlorophenyl Phenyl Ether, ug/l	<10				
Chrysene, ug/l	<10				
Dibenzo (a,h) Anthracene, ug/l	<10				
1,2-Dichlorobenzene, ug/l	<10				
1,3-Dichlorobenzene, ug/l	<10				
1,4-Dichlorobenzene, ug/l	<10				
3,3-Dichlorobenzidine, ug/l	<20				
Diethyl Phthalate, ug/l	<10				
Dimethyl Phthalate, ug/l	<10				

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31544-1	Effluent	10-07-92

PARAMETER	31544-1
Volatile Organic Compounds	
Acrolein, ug/l	<100
Acrylonitrile, ug/l	<100
Chlorobenzene, ug/l	<5.0
Chloroethane, ug/l	<10
2-Chloroethylvinyl Ether, ug/l	<10
Dichlorodifluoromethane, ug/l	<5.0
1,1-Dichloroethane, ug/l	<5.0
1,2-Dichloropropane, ug/l	<5.0
1,3-Dichloropropene, ug/l	<5.0
Ethylbenzene, ug/l	<5.0
Methyl Bromide, ug/l	<10
Methyl Chloride, ug/l	<10
Methylene Chloride, ug/l	<5.0
1,1,2,2-Tetrachloroethane, ug/l	<5.0
Toluene, ug/l	<5.0
cis/trans-1,2-Dichloroethylene, ug/l	<5.0
1,1,2-Trichloroethane, ug/l	<5.0
Trichlorofluoromethane, ug/l	<5.0

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND* = None Detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Arsenic, mg/l	<0.010	108 %	0.93 %
Barium, mg/l	<0.010	98 %	0 %
Cadmium, mg/l	<0.0050	98 %	2.0 %
Chromium, mg/l	<0.010	94 %	1.1 %
Fluoride, mg/l	<0.20	100 %	0 %
Lead, mg/l	<0.0050	102 %	5.9 %
Mercury, mg/l	<0.00020	102 %	0.98 %
Nitrate-N, mg/l	<0.050	98 %	0 %
Selenium, mg/l	<0.010	88 %	4.5 %
Silver, mg/l	<0.010	94 %	1.1 %
Sodium, mg/l	<0.50	101 %	2.0 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	82 %	3.7 %
Gamma-BHC, ug/l	<0.050	105 %	9.5 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	89 %	6.7 %
2,4,5-TP Silvex, ug/l	<0.50	98 %	5.1 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	114 %	0 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	125 %	1.6 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	136 %	5.9 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	102 %	2.0 %
Turbidity, NTU	0.10	100 %	6.1 %
Microbiological			
Total Coliform MF, mg/l	<1	---	0 %
Fecal Coliform MF, mg/l	<1	---	0 %
Gross Alpha, pCi/l	<2.0	102 %	5.4 %
Gross Beta, pCi/l	<2.0	108 %	2.8 %
Chloride, mg/l	<1.0	101 %	0.40 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	98 %	0 %
Corrosivity (saturation index)	-5.4	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	100 %	10 %
Iron, mg/l	<0.050	96 %	1.0 %
Manganese, mg/l	<0.010	94 %	1.1 %
Odor, mg/l	<1	---	0 %
pH, units	5.9	100 %	0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Sulfate as SO4, mg/l	<5.0	98 %	1.3 %
Total Dissolved Solids, mg/l	<5.0	96 %	0.27 %
Zinc, mg/l	<0.020	98 %	0 %
Antimony, mg/l	<0.050	96 %	1.0 %
Beryllium, mg/l	<0.0050	92 %	1.1 %
Nickel, mg/l	<0.040	97 %	2.1 %
Thallium, mg/l	<0.010	106 %	4.7 %
Phenolics,Total Recoverable, mg/l	<0.010	92 %	2.2 %
Cyanide, Total, mg/l	<0.010	99 %	3.0 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	66 %	1.5 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	---	---
3,3-Dichlorobenzidine, ug/l	<10	58 %	14 %
	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	72 %	1.4 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	74 %	12 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	75 %	4.0 %
1,2,4-Trichlorobenzene, ug/l	<10	64 %	11 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	66 %	11 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	73 %	1.4 %
P-Chloro-m-cresol, ug/l	<10	69 %	1.4 %
Pentachlorophenol, ug/l	<50	76 %	1.3 %
Phenol, ug/l	<10	61 %	6.6 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	105 %	11 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	80 %	8.8 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	92 %	8.7 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	82 %	7.3 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31544

Received: 07 OCT 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31544-2	Lab Blank
31544-3	Accuracy (% Recovery)
31544-4	Precision (% RPD)

PARAMETER	31544-2	31544-3	31544-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	92 %	1.1 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<10	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	93 %	6.4 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

ND* = None Detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

JL & ENVIRONMENTAL SERVICES, INC.

2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Leachate

CLIENT NAME	TELEPHONE/FAX NO.
Cathy Winters	

CLIENT ADDRESS	CITY, STATE, ZIP CODE

SAMPLER(S) NAME(S)	CLIENT PROJECT MANAGER
Chris Harris	

PAGE ____ OF ____

☐ STANDARD TAT

☐ EXPEDITED TAT *

REPORT DUE DATE _____

* SUBJECT TO RUSH FEES

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	MATRIX TYPE: AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	REQUIRED ANALYSES: Inorganics microbiology	Phenol	Metals	VOC	Semivol/MBAS	NO3, F	EDB	TTHM	Rad	CN
							NUMBER OF CONTAINERS SUBMITTED									
10/7/92		Leachate Effluent					1	1	1	4	6	1	3	3	1	1

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
				10/6/92	17:00		10/7/92	14:45
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
J. Hank	10-7-92	3:00	☒ YES ☐ NO		B231544	

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

D. E. R.

OCT 22 1992

SOUTHWEST DISTRICT
TAMPA

October 19, 1992 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of September, 1992.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 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 17-610.660(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

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 II - General Information

(1) Month SEPTEMBER Year 1992

(2) Plant's DER Identification Number 41609000086

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number SC09-187229

(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

EVAP. / PERC POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard R. Robison C-8001
Signature Cert. No.

Parameter	Units	STORET Code	Value
(16) Monthly average daily flow	mgd	050053	.031
(17) Permitted capacity	mgd	—	.030
(18) Three-month average daily flow	mgd	—	.026
(19) Percent of permitted capacity	%	—	87%
(20) ~~X~~ BOD_5 Effluent	mg/L	080082	1
(21) ~~X~~ BOD_5 Effluent	lbs/day	—	.26
(22) TSS Effluent	mg/L	900201	2
(23) TSS Effluent	lbs/day	—	.52
(24) Minimum pH		—	8.0
(25) Maximum pH		—	8.7
(26) Total N	mg/L	000600	53.1
(27) TKN	mg/L	000625	2.1
(28) Ammonia (NH_3 - N)	mg/L	000610	—
(29) Nitrate	mg/L	071850	51
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	
(32) Maximum Chlorine Residual	mg/L	—	
(33) Other Effluent Parameters			
COD	mg/l		56
TOC	mg/l		70
TDS	mg/l		890
LEAD	mg/l		<.02
CHLORIDE	mg/l		208
TOT. ALKALINITY	mg/l		244

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

(34)

Month SEPTEMBER Year 1992

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)	TOT. ALKALINITY mg/L	COD mg/L	TOC mg/L	NITRITE mg/L	TOTAL N mg/L	CHLORIDE mg/L	LEAD mg/L	TDS mg/L
1	.030	.7						8.0													
2	.030	.6						8.1					118	290							
3	.030	.6						8.2													
4	.030																				
5	.030	.6						8.1													
6	.030	.6						8.2													
7	.030																				
8	.030	.5						8.0													
9	.030	.6				1	2	8.3	2.1				<4	312	56	70	<.01	531	208	<.02	890
10	.030	.7						8.0													
11	.030	.7						8.0													
12	.020																				
13	.020																				
14	.030	.9						8.0													
15	.030	.9						8.0													
16	.030	1.0						8.7					80	22							
17	.030	1.0						8.0													
18	.030	1.0						8.0													
19	.030																				
20	.030																				
21	.050	1.0						8.0													
22	.030	.8						8.0													
23	.030	.8						8.6					24	284							
24	.030	.5						8.0													
25	.050	1.0						8.0													
26	.040	.9						8.2													
27	.030																				
28	.030																				
29	.030	1.0						8.0													
30	.030	.7						8.1					<4	312							

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: Richard B. Robinson C-8001 Date: 10-16-92

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
October 5, 1992

LAB FILE COPY

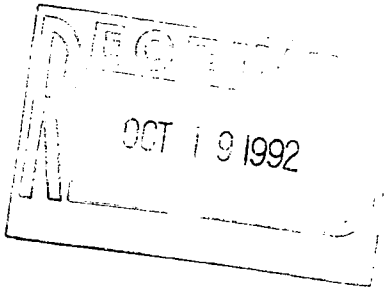
Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45960
Sampled By: Client
Received: 10-01-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	312
pH, units	8.1
Fecal Coliform, colonies/100ml	< 4



FORWARDED TO D.E.P.
DATE 10/19/92

Garrett McGibbon
Laboratory Manager

LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

September 28, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45881
Sampled By: Client
Received: 09-24-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	284
pH, units	8.6
Fecal Coliform, colonies/100ml	24

RECEIVED
OCT 1 1992

FOR DER
DATE: 10/19/92

Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
September 24, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45665
Sampled By: Client
Received: 09-17-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	22
pH, units	8.7
Fecal Coliform, colonies/100ml	80

RECEIVED
OCT. 9 1992

FORWARDED TO:
D.E.R. TAMPA
DATE: 10-9, 1992

Garrett M. McGibbon
Garrett McGibbon
Laboratory Manager

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025

September 22, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45463
Sampled By: Client
Received: 09-10-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	1
Total Suspended Solids, mg/l	2
Chemical Oxygen Demand, mg/l	56
Total Organic Carbon, mg/l	70
Nitrite Nitrogen, mg/l	< 0.01
Nitrate Nitrogen, mg/l	51
Total Kjeldahl Nitrogen, mg/l	2.1
Total Nitrogen, mg/l	53.1
Chloride, mg/l	208
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	312
pH, units	8.3
Fecal Coliform, colonies/100ml	< 4
Total Dissolved Solids, mg/l	890

RECEIVED
OCT 1 1992

Garrett McGibbon
Laboratory Manager

FORWARDED TO:
D.E.R. TAMPA
DATE: 10-9, 1992

KNL LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
September 8, 1992

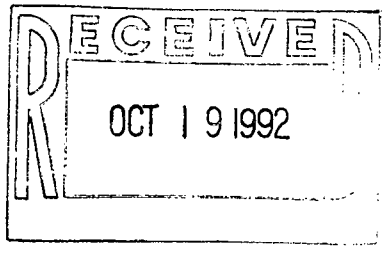
Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45284
Sampled By: Client
Received: 09-03-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	290
pH, units	8.1
Fecal Coliform, colonies/100ml	118



FORWARDED TO:
D.E.R. TAMPA
DATE: 10/19, 1992

Garrett McGibbon
Laboratory Manager

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 32661-0440
(904) 746-2694 • FAX (904) 746-9874

Reply To:

MEMORANDUM

DATE: SEPTEMBER 30, 1992

TO: RALPH HEDGECOTH, DIRECTOR OF UTILITIES

THROUGH: THOMAS H. DICK, DIRECTOR, DIVISION OF AQUATICS AND SOLID WASTE MANAGEMENT

FROM: CATHLEEN J. WINTER, ENG. TECH. II

SUBJECT: DER PERMIT MODIFICATION FOR THE LEACHATE TREATMENT FACILITY - PERMIT #SO09-187229 - MONTHLY EFFLUENT TESTING AND ANALYSIS

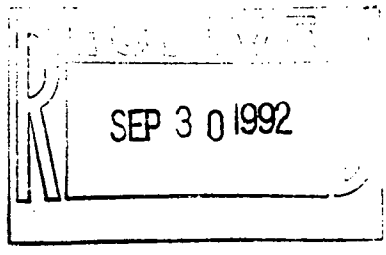
==========

Attached please find the analysis from Savannah Laboratories, covering the September sampling of effluent at the Leachate Treatment Facility.

Please include in your September report submittal to the Department of Environmental Regulation.

THD:CJW:cjw

CC: James W. Pinkerton, Dir. Dept. of Technical Services



SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

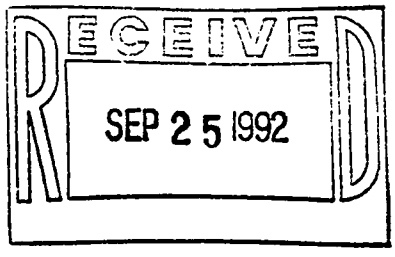
Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92

PARAMETER	31338-1				
Arsenic, mg/l	<0.010				
Barium, mg/l	0.078				
Cadmium, mg/l	<0.0050				
Chromium, mg/l	<0.010				
Fluoride, mg/l	0.27				
Lead, mg/l	<0.0050				
Mercury, mg/l	<0.00020				
Nitrate-N, mg/l	64				
Selenium, mg/l	<0.010				
Silver, mg/l	<0.010				
Sodium, mg/l	220				
Pesticides (SDWA)					
Endrin, ug/l	<0.10				
Gamma-BHC, ug/l	<0.050				
Methoxychlor, ug/l	<0.50				
Toxaphene, ug/l	<5.0				
Herbicides (SDWA)					
2,4-D, ug/l	<0.50				
2,4,5-TP Silvex, ug/l	<0.50				
Trihalomethanes					
Bromoform, ug/l	60				
Chloroform, ug/l	49				
Dichlorobromomethane, ug/l	64				
Dibromochloromethane, ug/l	79				



BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92
PARAMETER	31338-1	
Primary Drinking-Volatiles		
Benzene, ug/l	<1.0	
Carbon Tetrachloride, ug/l	<1.0	
1,4-Dichlorobenzene, ug/l	<1.0	
1,2-Dichloroethane, ug/l	<1.0	
1,1-Dichloroethylene, ug/l	<1.0	
Tetrachloroethylene, ug/l	<1.0	
1,1,1-Trichloroethane, ug/l	<1.0	
Trichloroethylene, ug/l	<1.0	
Vinyl Chloride, ug/l	<1.0	
1,2-Dibromoethane (EDB), ug/l	<0.80*	
Turbidity, NTU	0.15	
Microbiological		
Total Coliform MF, col/100ml	<1	
Fecal Coliform MF, col/100ml	<1	
Gross Alpha, pCi/l	<2.0	
Gross Beta, pCi/l	72+/-15	
Chloride, mg/l	200	
Color, PCU	<5	
Copper, mg/l	<0.025	
Corrosivity (saturation index), mg/l	+0.82	
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	
Iron, mg/l	<0.050	
Manganese, mg/l	0.012	
Odor, T.O.N.	4	
pH, units	8.3	
Sulfate as SO4, mg/l	10	
Total Dissolved Solids, mg/l	1000	

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92

PARAMETER	31338-1
Zinc, mg/l	0.060
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.028

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92
PARAMETER	31338-1	
PP-Base/Neutral Compounds		
Acenaphthene, ug/l	<10	
Acenaphthylene, ug/l	<10	
Anthracene, ug/l	<10	
Benzidine, ug/l	<80	
Benzo(a)Anthracene, ug/l	<10	
Benzo(a)Pyrene, ug/l	<10	
3,4-Benzofluoranthene, ug/l	<10	
Benzo (g,h,i) Perylene, ug/l	<10	
Benzo (k) Fluoranthene, ug/l	<10	
Bis (2-Chloroethoxy) Methane, ug/l	<10	
Bis (2-Chloroethyl) Ether, ug/l	<10	
Bis (2-Chloroisopropyl) Ether, ug/l	<10	
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	
4-Bromophenyl Phenyl Ether, ug/l	<10	
Butyl Benzyl Phthalate, ug/l	<10	
2-Chloronaphthalene, ug/l	<10	
4-Chlorophenyl Phenyl Ether, ug/l	<10	
Chrysene, ug/l	<10	
Dibenzo (a,h) Anthracene, ug/l	<10	
1,2-Dichlorobenzene, ug/l	<10	
1,3-Dichlorobenzene, ug/l	<10	
1,4-Dichlorobenzene, ug/l	<10	
3,3-Dichlorobenzidine, ug/l	<20	
Diethyl Phthalate, ug/l	<10	
Dimethyl Phthalate, ug/l	<10	

BEST AVAILABLE COPY

SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

2 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: 32-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
38-1	Effluent	09-02-92
METER	31338-1	
N-Butyl Phthalate, ug/l	<10	
-Dinitrotoluene, ug/l	<10	
5-Dinitrotoluene, ug/l	<10	
N-Octyl Phthalate, ug/l	<10	
-Diphenylhydrazine, ug/l	<10	
oranthene, ug/l	<10	
orene, ug/l	<10	
achlorobenzene, ug/l	<10	
achlorobutadiene, ug/l	<10	
achlorocyclopentadiene, ug/l	<10	
achloroethane, ug/l	<10	
eno (1,2,3-cd) Pyrene, ug/l	<10	
phorone, ug/l	<10	
hthalene, ug/l	<10	
robenzene, ug/l	<10	
itrosodimethylamine, ug/l	<10	
itrosodi-N-Propylamine, ug/l	<10	
itrosodiphenylamine, ug/l	<10	
nanthrene, ug/l	<10	
ene, ug/l	<10	
,4-Trichlorobenzene, ug/l	<10	
7,8-TCDD, ug/l	ND*	

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92

PARAMETER	31338-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,5-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92
PARAMETER	31338-1	
Pesticides/PCB's		
Aldrin, ug/l	<0.050	
Alpha-BHC, ug/l	<0.050	
Beta-BHC, ug/l	<0.050	
Delta-BHC, ug/l	<0.050	
Chlordane, ug/l	<0.50	
4,4'-DDT, ug/l	<0.10	
4,4'-DDE, ug/l	<0.10	
4,4'-DDD, ug/l	<0.10	
Dieldrin, ug/l	<0.10	
Alpha-Endosulfan, ug/l	<0.050	
Beta-Endosulfan, ug/l	<0.10	
Endosulfan Sulfate, ug/l	<0.10	
Endrin Aldehyde, ug/l	<0.10	
Heptachlor, ug/l	<0.050	
Heptachlor Epoxide, ug/l	<0.050	
PCB-1242, ug/l	<1.0	
PCB-1254, ug/l	<1.0	
PCB-1221, ug/l	<2.0	
PCB-1232, ug/l	<1.0	
PCB-1248, ug/l	<1.0	
PCB-1260, ug/l	<1.0	
PCB-1016, ug/l	<1.0	

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31338-1	Effluent	09-02-92

PARAMETER	31338-1				
Volatile Organic Compounds					
Acrolein, ug/l	<100				
Acrylonitrile, ug/l	<100				
Chlorobenzene, ug/l	<5.0				
Chloroethane, ug/l	<10				
2-Chloroethylvinyl Ether, ug/l	<50				
Dichlorodifluoromethane, ug/l	<5.0				
1,1-Dichloroethane, ug/l	<5.0				
1,2-Dichloropropane, ug/l	<5.0				
1,3-Dichloropropene, ug/l	<5.0				
Ethylbenzene, ug/l	<5.0				
Methyl Bromide, ug/l	<10				
Methyl Chloride, ug/l	<10				
Methylene Chloride, ug/l	<5.0				
1,1,2,2-Tetrachloroethane, ug/l	<5.0				
Toluene, ug/l	<5.0				
cis/trans-1,2-Dichloroethylene, ug/l	<5.0				
1,1,2-Trichloroethane, ug/l	<5.0				
Trichlorofluoromethane, ug/l	<5.0				

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND*=Not Detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Arsenic, mg/l	<0.010	106 %	0.95 %
Barium, mg/l	<0.010	96 %	1.0 %
Cadmium, mg/l	<0.0050	96 %	1.0 %
Chromium, mg/l	<0.010	90 %	2.2 %
Fluoride, mg/l	<0.20	92 %	0 %
Lead, mg/l	<0.0050	102 %	3.9 %
Mercury, mg/l	<0.00020	102 %	0 %
Nitrate-N, mg/l	<0.050	97 %	3.1 %
Selenium, mg/l	<0.010	92 %	1.1 %
Silver, mg/l	<0.010	90 %	1.1 %
Sodium, mg/l	<0.50	106 %	6.6 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	91 %	14 %
Gamma-BHC, ug/l	<0.050	118 %	6.8 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	66 %	7.6 %
2,4,5-TP Silvex, ug/l	<0.50	86 %	9.3 %
Trihalomethanes			
Bromoform, ug/l	<5.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	106 %	5.7 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	118 %	12 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	105 %	5.6 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	69 %	12 %
Turbidity, NTU	0.10	106 %	2.4 %
Microbiological			
Total Coliform MF, col/100ml	<1	---	0 %
Fecal Coliform MF, col/100ml	<1	---	0 %
Gross Alpha, pCi/l	<2.0	66 %	1.9 %
Gross Beta, pCi/l	<2.0	88 %	14 %
Chloride, mg/l	<1.0	100 %	0 %
Color, PCU	<5	---	---
Copper, mg/l	<0.025	98 %	1.0 %
Corrosivity (saturation index), mg/l	-5.3	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	96 %	7.3 %
Iron, mg/l	<0.050	92 %	2.2 %
Manganese, mg/l	<0.010	89 %	2.2 %
Odor, T.O.N.	<1	---	0 %
pH, units	6.2	100 %	0.57 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Sulfate as SO4, mg/l	<5.0	100 %	2.0 %
Total Dissolved Solids, mg/l	<5.0	97 %	1.0 %
Zinc, mg/l	<0.020	94 %	1.0 %
Antimony, mg/l	<0.050	94 %	0 %
Beryllium, mg/l	<0.0050	90 %	3.3 %
Nickel, mg/l	<0.040	94 %	3.2 %
Thallium, mg/l	<0.010	103 %	0 %
Phenolics,Total Recoverable, mg/l	<0.010	91 %	4.4 %
Cyanide, Total, mg/l	<0.010	94 %	1.1 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	97 %	3.1 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	---	---
3,3-Dichlorobenzidine, ug/l	<10	78 %	13 %
	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	84 %	2.5 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	---	---
N-Nitrosodiphenylamine, ug/l	<10	106 %	8.5 %
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	---	---
1,2,4-Trichlorobenzene, ug/l	<10	132 %	3.8 %
2,3,7,8-TCDD, ug/l	<10	81 %	12 %
	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	89 %	10 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	103 %	2.9 %
P-Chloro-m-cresol, ug/l	<10	92 %	5.4 %
Pentachlorophenol, ug/l	<50	85 %	4.7 %
Phenol, ug/l	<10	88 %	9.1 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	116 %	10 %
Alpha-BHC, ug/l	<0.050		---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	94 %	2.1 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	102 %	13 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	80 %	11 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31338

Received: 02 SEP 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31338-2	Lab Blank
31338-3	Accuracy (% Recovery)
31338-4	Precision (% RPD)

PARAMETER	31338-2	31338-3	31338-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	102 %	2.0 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	105 %	0 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND*=Not Detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

☐ 5102 LaRoche Avenue, Savannah, GA 31404 Phone: (912) 354-7858 Fax (912) 352-0165
☐ 2846 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

NUMBER	PROJECT NUMBER	PROJECT NAME
		Citrus County Landfill

ENT NAME	TELEPHONE/FAX NO.
Cathy Winter	904-687-9400

ENT ADDRESS	CITY, STATE, ZIP CODE
30 Gulf to Lake Hwy	Lecanto Fl 32661

MPLER(S) NAME(S)	CLIENT PROJECT MANAGER

PAGE ___ OF ___

☒ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE ___
* SUBJECT TO RUSH FEES

MATRIX TYPE: AQUEOUS MATRIX / NONAQUEOUS MATRIX / OIL MATRIX / AIR MATRIX

REQUIRED ANALYSES — NUMBER OF CONTAINERS SUBMITTED

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	THM	Rad	CN	Semivol mBHS	Metals	Phenol	F, NO3	VOC, EDB	Inorganics	T-coli, F-coli
/92	11:30	Leachate Effluent	✓				3	1	1	6	1	1	1	7	1	4

QUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
hris Weiser	9-1-92	4:20	[signature]	9/1/92	19:00	[signature]	9/2/92	16:00

VED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

VED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
[signature]	9-2-92	4:33	☒ YES ☐ NO		B231338	

ORIGINAL

CITRUS COUNTY

DEPARTMENT OF TECHNICAL SERVICES

1300 South Lecanto Highway • P.O. Box 440
Lecanto, Florida 34460-0440
(904) 746-2694 • FAX (904) 746-3368

Reply To:

D. E. R.

SEP 25 1992

SOUTHWEST DISTRICT
TAMPA

September 17, 1992 Utilities Division

Dept. of Environmental Regulation
Solid Waste Section
4520 Oak Fair Boulevard
Tampa, Fl 33610

SUBJECT: MONTHLY OPERATOR REPORT - LANDFILL LEACHATE FACILITY

To whom it may concern:

Attached please find the monthly operator report on the Citrus County's Landfill Leachate Treatment Facility, regular monthly sampling analyses, along with a copy of the monthly effluent testing and analysis from Savannah Laboratories.

This report is for the month of August, 1992.

Sincerely,

Ralph Hedgecoth
Director of Utilities

RH:ckn

Attachments

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 Application No. (Filled in by DER)

SOLID WASTE LEACHATE TREATMENT FACILITY

MONTHLY OPERATOR 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(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 OPERATOR REPORT

Part II - General Information

(1) Month AUGUST Year 1992

(2) Plant's DER Identification Number 4009000 86

(3) Plant Name LANDFILL LEACHATE PLANT

(4) Plant Address S.R. 44 - 3 MILES EAST OF LECANTO

(5) City LECANTO

(6) County CITRUS

(7) Phone Number 904-746-2694

(8) Permit Number 5009 - 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

EVAP./PERC. POND

(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. 8001

Evening Shift Operator Class _____ Cert. No. _____

Night Shift Operator Class _____ Cert. No. _____

Lead Operator Richard B. Robinson (Signature) C-8001 (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	—	.023
(19) Percent of permitted capacity	%	—	77%
(20) ~~X~~ BOD_5 Effluent	mg/L	080082	1
(21) ~~X~~ BOD_5 Effluent	lbs/day	—	
(22) TSS Effluent	mg/L	900201	4
(23) TSS Effluent	lbs/day	—	
(24) Minimum pH		—	7.7
(25) Maximum pH		—	8.2
(26) Total N	mg/L	000600	74
(27) TKN	mg/L	000625	1.9
(28) Ammonia (NH_3 - N)	mg/L	000610	—
(29) Nitrate	mg/L	071850	72
(30) Total Phosphorus	mg/L	000665	—
(31) Minimum Chlorine Residual	mg/L	—	.5
(32) Maximum Chlorine Residual	mg/L	—	.7
(33) Other Effluent Parameters			
COD	mg/l		45
TOC	mg/l		20
TDS	mg/l		1,200
LEAD	mg/l		<.02
CHLORIDE	mg/l		260
TOT. ALKALINITY	mg/l		258

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 OPERATOR REPORT

(34) Month AUGUST Year 1992

Day of the Month	Flow (mgd)	Chlorine Residual after Contact	Chlorine Residual after Dechlorination	$CBOD_5$ Influent (mg/L)	TSS Influent (mg/L)	~~BOD_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)	TOT. ALKALINITY	COD mg/L	TOC mg/L	NITRITE mg/L	TOTAL N mg/L	CHLORIDE mg/L	LEAD mg/L	TDS mg/L
1	.036																				
2	.030																				
3	.030	.6						8.2													
4	.030	.7						8.2													
5	.030	.7						8.3					88	294							
6	.010																				
7	.020	.6						8.2													
8	.030																				
9	.030																				
10	.030	.6						8.2													
11	.020	.6						8.2													
12	.000	.6				1	4	8.0	1.9		72		64	216	45	20	.08	74	260	<.02	1200
13	.010	.6						8.2													
14	.020	.6						8.2													
15	.010																				
16	.000																				
17	.020	.6						8.0													
18	.030	.5						8.0													
19	.030	.6						7.7					105	300							
20	.030	.6						8.0													
21	.030	.6						8.0													
22	.000																				
23	.030																				
24	.030	.6						8.0													
25	.030	.7						8.0													
26	.030	.7						7.9					72	220							
27	.030	.7						8.0													
28	.030	.6						8.2													
29	.030																				
30	.030																				
31	.030	.7						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: Richard B. Robinson C-8001 Date: 9-16-92

Name (Please Type) Richard B. Robinson

Company Name Citrus County Utilities Division Telephone No. (Please Type) 904-746-2694

KNL LABORATORY SERVICES
P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
August 10, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 44661
Sampled By: Client
Received: 08-06-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	294
pH, units	8.3
Fecal Coliform, colonies/100ml	88

Garrett M. Gibbon
Garrett McGibbon
Laboratory Manager

RECEIVED
AUG 17 1992

FORWARDED TO:
D.E.R. TAMPA
DATE: 9/9/92

KNL LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
August 25, 1992

RECEIVE
SEP 3 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 44913
Sampled By: Client
Received: 08-13-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Biochemical Oxygen Demand, mg/l	1
Total Suspended Solids, mg/l	4
Chemical Oxygen Demand, mg/l	45
Total Organic Carbon, mg/l	20
Nitrite Nitrogen, mg/l	0.08
Nitrate Nitrogen, mg/l	72
Total Kjeldahl Nitrogen, mg/l	1.9
Total Nitrogen, mg/l	74
Chloride, mg/l	260
Lead, mg/l	< 0.02
Total Alkalinity, mg/l $CaCO_3$	216
pH, units	8.0
Fecal Coliform, colonies/100ml	64
Total Dissolved Solids, mg/l	1200

Garrett M. Gibbon
Garrett McGibbon
Laboratory Manager

FORWARDED TO:
D.E.R. TAMPA
DATE: 9/10, 19 92

KNL
LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
August 26, 1992

RECEIVED
SEP 3 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45060
Sampled By: Client
Received: 08-20-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	300
pH, units	7.7
Fecal Coliform, colonies/100ml	105

Garrett McGibbon
Laboratory Manager

FORWARDED TO:
D.E.R. TAMPA
DATE: 9/17, 1992

LABORATORY SERVICES

P.O. Box 1833
Tampa, Florida 33601
(813) 229-2879

DHRS Certification #'s 84252 & E84025
September 1, 1992

Gator Water & Wastewater
P.O. Box 1940
New Port Richey, FL 34656

Lab No.: 45190
Sampled By: Client
Received: 08-27-92

Sample Description:
Leachate

Sample Identification:
Citrus County Landfill Leachate Plant

Parameter	Results
Total Alkalinity, mg/l $CaCO_3$	220
pH, units	7.9
Fecal Coliform, colonies/100ml	72

RECEIVED
SEP 8 1992

Garrett McGibbon
Laboratory Manager

FORWARDED TO:
D.E.R. TAMPA
DATE: 9/17, 1992

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

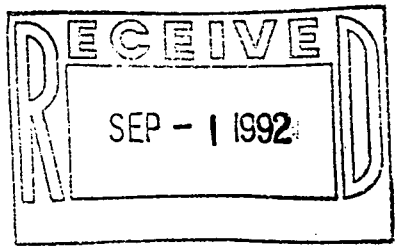
Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
Arsenic, mg/l	<0.010
Barium, mg/l	0.064
Cadmium, mg/l	<0.0050
Chromium, mg/l	<0.010
Fluoride, mg/l	0.28
Lead, mg/l	<0.0050
Mercury, mg/l	<0.00020
Nitrate-N, mg/l	28
Selenium, mg/l	<0.010
Silver, mg/l	<0.010
Sodium, mg/l	250
Pesticides (SDWA)	
Endrin, ug/l	<0.10
Gamma-BHC, ug/l	<0.050
Methoxychlor, ug/l	<0.50
Toxaphene, ug/l	<5.0
Herbicides (SDWA)	
2,4-D, ug/l	<0.50
2,4,5-TP *Silvex, ug/l*	<0.50
Trihalomethanes	
Bromoform, ug/l	17
Chloroform, ug/l	13
Dichlorobromomethane, ug/l	26
Dibromochloromethane, ug/l	29



SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1				
Primary Drinking-Volatiles					
Benzene, ug/l	<1.0				
Carbon Tetrachloride, ug/l	<1.0				
1,4-Dichlorobenzene, ug/l	<1.0				
1,2-Dichloroethane, ug/l	<1.0				
1,1-Dichloroethylene, ug/l	<1.0				
Tetrachloroethylene, ug/l	<1.0				
1,1,1-Trichloroethane, ug/l	<1.0				
Trichloroethylene, ug/l	<1.0				
Vinyl Chloride, ug/l	<1.0				
1,2-Dibromoethane (EDB), ug/l	<0.20*				
Turbidity, NTU	0.95				
Microbiological					
Total Coliform MF, col/100ml	<1				
Fecal Coliform MF, col/100ml	<1				
Gross Alpha, pCi/l	3.8+/-5.9				
Gross Beta, pCi/l	93+/-16				
Chloride, mg/l	220				
Color, PCU	<5.0				
Copper, mg/l	<0.025				
Corrosivity (saturation index)	+1.3				
Surfactants (MBAS-EPA 425.1), mg/l	<0.10				
Iron, mg/l	0.056				
Manganese, mg/l	<0.010				
Odor, T.O.N.	4.0				
pH, units	8.5				
Sulfate as SO4, mg/l	9.9				
Total Dissolved Solids, mg/l	810				

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
Zinc, mg/l	<0.020
Antimony, mg/l	<0.050
Beryllium, mg/l	<0.0050
Nickel, mg/l	<0.040
Thallium, mg/l	<0.010
Phenolics,Total Recoverable, mg/l	<0.010
Cyanide, Total, mg/l	0.029

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
PP-Base/Neutral Compounds	
Acenaphthene, ug/l	<10
Acenaphthylene, ug/l	<10
Anthracene, ug/l	<10
Benzidine, ug/l	<80
Benzo(a)Anthracene, ug/l	<10
Benzo(a)Pyrene, ug/l	<10
3,4-Benzofluoranthene, ug/l	<10
Benzo (g,h,i) Perylene, ug/l	<10
Benzo (k) Fluoranthene, ug/l	<10
Bis (2-Chloroethoxy) Methane, ug/l	<10
Bis (2-Chloroethyl) Ether, ug/l	<10
Bis (2-Chloroisopropyl) Ether, ug/l	<10
Bis (2-Ethylhexyl) Phthalate, ug/l	<10
4-Bromophenyl Phenyl Ether, ug/l	<10
Butyl Benzyl Phthalate, ug/l	<10
2-Chloronaphthalene, ug/l	<10
4-Chlorophenyl Phenyl Ether, ug/l	<10
Chrysene, ug/l	<10
Dibenzo (a,h) Anthracene, ug/l	<10
1,2-Dichlorobenzene, ug/l	<10
1,3-Dichlorobenzene, ug/l	<10
1,4-Dichlorobenzene, ug/l	<10
3,3-Dichlorobenzidine, ug/l	<20
Diethyl Phthalate, ug/l	<10
Dimethyl Phthalate, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
Di-N-Butyl Phthalate, ug/l	<10
2,4-Dinitrotoluene, ug/l	<10
2,6-Dinitrotoluene, ug/l	<10
Di-N-Octyl Phthalate, ug/l	<10
1,2-Diphenylhydrazine, ug/l	<10
Fluoranthene, ug/l	<10
Fluorene, ug/l	<10
Hexachlorobenzene, ug/l	<10
Hexachlorobutadiene, ug/l	<10
Hexachlorocyclopentadiene, ug/l	<10
Hexachloroethane, ug/l	<10
Indeno (1,2,3-cd) Pyrene, ug/l	<10
Isophorone, ug/l	<10
Naphthalene, ug/l	<10
Nitrobenzene, ug/l	<10
N-Nitrosodimethylamine, ug/l	<10
N-Nitrosodi-N-Propylamine, ug/l	<10
N-Nitrosodiphenylamine, ug/l	<10
Phenanthrene, ug/l	<10
Pyrene, ug/l	<10
1,2,4-Trichlorobenzene, ug/l	<10
2,3,7,8-TCDD, ug/l	ND*

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
PP-Acid Extractable Organics	
2-Chlorophenol, ug/l	<10
2,4-Dichlorophenol, ug/l	<10
2,4-Dimethylphenol, ug/l	<10
4,6-Dinitro-o-cresol, ug/l	<50
2,4-Dinitrophenol, ug/l	<50
2-Nitrophenol, ug/l	<10
4-Nitrophenol, ug/l	<50
P-Chloro-m-cresol, ug/l	<10
Pentachlorophenol, ug/l	<50
Phenol, ug/l	<10
2,4,6-Trichlorophenol, ug/l	<10

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1
Pesticides/PCB's	
Aldrin, ug/l	<0.050
Alpha-BHC, ug/l	<0.050
Beta-BHC, ug/l	<0.050
Delta-BHC, ug/l	<0.050
Chlordane, ug/l	<0.50
4,4'-DDT, ug/l	<0.10
4,4'-DDE, ug/l	<0.10
4,4'-DDD, ug/l	<0.10
Dieldrin, ug/l	<0.10
Alpha-Endosulfan, ug/l	<0.050
Beta-Endosulfan, ug/l	<0.10
Endosulfan Sulfate, ug/l	<0.10
Endrin Aldehyde, ug/l	<0.10
Heptachlor, ug/l	<0.050
Heptachlor Epoxide, ug/l	<0.050
PCB-1242, ug/l	<1.0
PCB-1254, ug/l	<1.0
PCB-1221, ug/l	<2.0
PCB-1232, ug/l	<1.0
PCB-1248, ug/l	<1.0
PCB-1260, ug/l	<1.0
PCB-1016, ug/l	<1.0

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
31177-1	Effluent	08-06-92

PARAMETER	31177-1				
Volatile Organic Compounds					
Acrolein, ug/l	<100				
Acrylonitrile, ug/l	<100				
Chlorobenzene, ug/l	<5.0				
Chloroethane, ug/l	<10				
2-Chloroethylvinyl Ether, ug/l	<50				
Dichlorodifluoromethane, ug/l	<5.0				
1,1-Dichloroethane, ug/l	<5.0				
1,2-Dichloropropane, ug/l	<5.0				
1,3-Dichloropropene, ug/l	<5.0				
Ethylbenzene, ug/l	<5.0				
Methyl Bromide, ug/l	<10				
Methyl Chloride, ug/l	<10				
Methylene Chloride, ug/l	<5.0				
1,1,2,2-Tetrachloroethane, ug/l	<5.0				
Toluene, ug/l	<5.0				
cis/trans-1,2-Dichloroethylene, ug/l	<5.0				
1,1,2-Trichloroethane, ug/l	<5.0				
Trichlorofluoromethane, ug/l	<5.0				

*Elevated detection limits were reported due to sample matrix interference which required sample dilution prior to analysis.
ND*=Not detected.

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Arsenic, mg/l	<0.010	106 %	0.94 %
Barium, mg/l	<0.010	102 %	0.99 %
Cadmium, mg/l	<0.0050	97 %	0 %
Chromium, mg/l	<0.010	103 %	0 %
Fluoride, mg/l	<0.20	96 %	0 %
Lead, mg/l	<0.0050	91 %	2.2 %
Mercury, mg/l	<0.00020	102 %	0.98 %
Nitrate-N, mg/l	<0.050	101 %	1.4 %
Selenium, mg/l	<0.010	96 %	1.0 %
Silver, mg/l	<0.010	104 %	0.97 %
Sodium, mg/l	<0.50	96 %	1.0 %
Pesticides (SDWA)			
Endrin, ug/l	<0.10	81 %	20 %
Gamma-BHC, ug/l	<0.050	106 %	4.7 %
Methoxychlor, ug/l	<0.50	---	---
Toxaphene, ug/l	<5.0	---	---
Herbicides (SDWA)			
2,4-D, ug/l	<0.50	78 %	3.9 %
2,4,5-TP Silvex, ug/l	<0.50	89 %	0 %
Trihalomethanes			
Bromoform, ug/l	<1.0	---	---
Chloroform, ug/l	<1.0	---	---
Dichlorobromomethane, ug/l	<1.0	---	---
Dibromochloromethane, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Primary Drinking-Volatiles			
Benzene, ug/l	<1.0	106 %	4.7 %
Carbon Tetrachloride, ug/l	<1.0	---	---
1,4-Dichlorobenzene, ug/l	<1.0	---	---
1,2-Dichloroethane, ug/l	<1.0	---	---
1,1-Dichloroethylene, ug/l	<1.0	103 %	5.8 %
Tetrachloroethylene, ug/l	<1.0	---	---
1,1,1-Trichloroethane, ug/l	<1.0	---	---
Trichloroethylene, ug/l	<1.0	119 %	13 %
Vinyl Chloride, ug/l	<1.0	---	---
1,2-Dibromoethane (EDB), ug/l	<0.020	89 %	6.7 %
Turbidity, NTU	0.10	108 %	2.4 %
Microbiological			
Total Coliform MF, col/100ml	<1	---	0 %
Fecal Coliform MF, col/100ml	<1	---	0 %
Gross Alpha, pCi/l	<2.0	81 %	0.93 %
Gross Beta, pCi/l	<2.0	106 %	1.9 %
Chloride, mg/l	<1.0	99 %	0 %
Color, PCU	<5	---	0 %
Copper, mg/l	<0.025	100 %	0 %
Corrosivity (saturation index)	-5.8	---	---
Surfactants (MBAS-EPA 425.1), mg/l	<0.10	106 %	2.8 %
Iron, mg/l	<0.050	103 %	0 %
Manganese, mg/l	<0.010	101 %	0 %
Odor, T.O.N.	<1	---	0 %
pH, units	5.7	100 %	0.11 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Sulfate as SO4, mg/l	<5.0	114 %	8.4 %
Total Dissolved Solids, mg/l	<5.0	98 %	5.2 %
Zinc, mg/l	<0.020	100 %	1.0 %
Antimony, mg/l	<0.050	98 %	0 %
Beryllium, mg/l	<0.0050	98 %	1.0 %
Nickel, mg/l	<0.040	106 %	0 %
Thallium, mg/l	<0.010	96 %	1.0 %
Phenolics,Total Recoverable, mg/l	<0.010	88 %	3.4 %
Cyanide, Total, mg/l	<0.010	96 %	5.2 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
PP-Base/Neutral Compounds			
Acenaphthene, ug/l	<10	91 %	6.6 %
Acenaphthylene, ug/l	<10	---	---
Anthracene, ug/l	<10	---	---
Benzidine, ug/l	<80	---	---
Benzo(a)Anthracene, ug/l	<10	---	---
Benzo(a)Pyrene, ug/l	<10	---	---
3,4-Benzofluoranthene, ug/l	<10	---	---
Benzo (g,h,i) Perylene, ug/l	<10	---	---
Benzo (k) Fluoranthene, ug/l	<10	---	---
Bis (2-Chloroethoxy) Methane, ug/l	<10	---	---
Bis (2-Chloroethyl) Ether, ug/l	<10	---	---
Bis (2-Chloroisopropyl) Ether, ug/l	<10	---	---
Bis (2-Ethylhexyl) Phthalate, ug/l	<10	---	---
4-Bromophenyl Phenyl Ether, ug/l	<10	---	---
Butyl Benzyl Phthalate, ug/l	<10	---	---
2-Chloronaphthalene, ug/l	<10	---	---
4-Chlorophenyl Phenyl Ether, ug/l	<10	---	---
Chrysene, ug/l	<10	---	---
Dibenzo (a,h) Anthracene, ug/l	<10	---	---
1,2-Dichlorobenzene, ug/l	<10	---	---
1,3-Dichlorobenzene, ug/l	<10	---	---
1,4-Dichlorobenzene, ug/l	<10	65 %	4.6 %
3,3-Dichlorobenzidine, ug/l	<20	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Diethyl Phthalate, ug/l	<10	---	---
Dimethyl Phthalate, ug/l	<10	---	---
Di-N-Butyl Phthalate, ug/l	<10	---	---
2,4-Dinitrotoluene, ug/l	<10	93 %	6.5 %
2,6-Dinitrotoluene, ug/l	<10	---	---
Di-N-Octyl Phthalate, ug/l	<10	---	---
1,2-Diphenylhydrazine, ug/l	<10	---	---
Fluoranthene, ug/l	<10	---	---
Fluorene, ug/l	<10	---	---
Hexachlorobenzene, ug/l	<10	---	---
Hexachlorobutadiene, ug/l	<10	---	---
Hexachlorocyclopentadiene, ug/l	<10	---	---
Hexachloroethane, ug/l	<10	---	---
Indeno (1,2,3-cd) Pyrene, ug/l	<10	---	---
Isophorone, ug/l	<10	---	---
Naphthalene, ug/l	<10	---	---
Nitrobenzene, ug/l	<10	---	---
N-Nitrosodimethylamine, ug/l	<10	---	---
N-Nitrosodi-N-Propylamine, ug/l	<10	81 %	1.2 %
N-Nitrosodiphenylamine, ug/l	<10	---	---
Phenanthrene, ug/l	<10	---	---
Pyrene, ug/l	<10	115 %	12 %
1,2,4-Trichlorobenzene, ug/l	<10	72 %	5.6 %
2,3,7,8-TCDD, ug/l	ND*	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
PP-Acid Extractable Organics			
2-Chlorophenol, ug/l	<10	98 %	5.1 %
2,4-Dichlorophenol, ug/l	<10	---	---
2,4-Dimethylphenol, ug/l	<10	---	---
4,6-Dinitro-o-cresol, ug/l	<50	---	---
2,4-Dinitrophenol, ug/l	<50	---	---
2-Nitrophenol, ug/l	<10	---	---
4-Nitrophenol, ug/l	<50	75 %	2.7 %
P-Chloro-m-cresol, ug/l	<10	100 %	4.0 %
Pentachlorophenol, ug/l	<50	80 %	5.0 %
Phenol, ug/l	<10	86 %	1.2 %
2,4,6-Trichlorophenol, ug/l	<10	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Pesticides/PCB's			
Aldrin, ug/l	<0.050	76 %	5.3 %
Alpha-BHC, ug/l	<0.050	---	---
Beta-BHC, ug/l	<0.050	---	---
Delta-BHC, ug/l	<0.050	---	---
Chlordane, ug/l	<0.50	---	---
4,4'-DDT, ug/l	<0.10	67 %	3.0 %
4,4'-DDE, ug/l	<0.10	---	---
4,4'-DDD, ug/l	<0.10	---	---
Dieldrin, ug/l	<0.10	86 %	4.7 %
Alpha-Endosulfan, ug/l	<0.050	---	---
Beta-Endosulfan, ug/l	<0.10	---	---
Endosulfan Sulfate, ug/l	<0.10	---	---
Endrin Aldehyde, ug/l	<0.10	---	---
Heptachlor, ug/l	<0.050	71 %	5.6 %
Heptachlor Epoxide, ug/l	<0.050	---	---
PCB-1242, ug/l	<1.0	---	---
PCB-1254, ug/l	<1.0	---	---
PCB-1221, ug/l	<2.0	---	---
PCB-1232, ug/l	<1.0	---	---
PCB-1248, ug/l	<1.0	---	---
PCB-1260, ug/l	<1.0	---	---
PCB-1016, ug/l	<1.0	---	---

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

6712 Benjamin Road • Suite 100 • Tampa, FL 33634 • (813) 885-7427 • Fax (813) 885-7049

LOG NO: B2-31177

Received: 07 AUG 92

Ms. Cathy Winter
Citrus County Division of Solid Waste Mgt.
Post Office Box 440
Lecanto, FL 32661-0440

Project: Citrus County Central Landfill
Sampled By: Savannah Laboratories

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES
31177-2	Lab Blank
31177-3	Accuracy (% Recovery)
31177-4	Precision (% RPD)

PARAMETER	31177-2	31177-3	31177-4
Volatile Organic Compounds			
Acrolein, ug/l	<100	---	---
Acrylonitrile, ug/l	<100	---	---
Chlorobenzene, ug/l	<5.0	99 %	10 %
Chloroethane, ug/l	<10	---	---
2-Chloroethylvinyl Ether, ug/l	<50	---	---
Dichlorodifluoromethane, ug/l	<5.0	---	---
1,1-Dichloroethane, ug/l	<5.0	---	---
1,2-Dichloropropane, ug/l	<5.0	---	---
1,3-Dichloropropene, ug/l	<5.0	---	---
Ethylbenzene, ug/l	<5.0	---	---
Methyl Bromide, ug/l	<10	---	---
Methyl Chloride, ug/l	<10	---	---
Methylene Chloride, ug/l	<5.0	---	---
1,1,2,2-Tetrachloroethane, ug/l	<5.0	---	---
Toluene, ug/l	<5.0	99 %	10 %
cis/trans-1,2-Dichloroethylene, ug/l	<5.0	---	---
1,1,2-Trichloroethane, ug/l	<5.0	---	---
Trichlorofluoromethane, ug/l	<5.0	---	---

ND*=Not detected.
Method: 40 CFR Part 136, EPA 600/4-79-020
HRS Certification #'s:84385,87279,E84282,E87052

Andre Rachmaninoff

BEST AVAILABLE COPY

& ENVIRONMENTAL SERVICES, INC.

☐ 2040 Industrial Plaza Drive, Tallahassee, FL 32301 Phone: (904) 878-3994 Fax (904) 878-9504
☐ 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 Phone: (305) 421-7400 Fax (305) 421-2584
☐ 900 Lakeside Drive, Mobile, AL 36693 Phone: (205) 666-6633 Fax (205) 666-6696
☐ 6712 Benjamin Road, Suite 100, Tampa, FL 33634 Phone: (813) 885-7427 Fax (813) 885-7049

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

P.O. NUMBER	PROJECT NUMBER	PROJECT NAME
		Leachate Effluent

CLIENT NAME: Cathy Winter
TELEPHONE/FAX NO.: 904-687-9400
CLIENT ADDRESS: 230 Gulf to Lake Hwy
CITY, STATE, ZIP CODE: Lecanto Fl
SAMPLER(S) NAME(S): Chris Harris
CLIENT PROJECT MANAGER: Andrea Zachmanoff

PAGE ___ OF ___

☒ STANDARD TAT
☐ EXPEDITED TAT *
REPORT DUE DATE ___
* SUBJECT TO RUSH FEES

MATRIX TYPE: AQUEOUS MATRIX / NONAQUEOUS MATRIX / OIL MATRIX / AIR MATRIX

REQUIRED ANALYSES — NUMBER OF CONTAINERS SUBMITTED

SAMPLING DATE	SAMPLING TIME	SAMPLE IDENTIFICATION	AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	Inorganics	F, NO3	MBAS, semi-vol	CN	Phenol	VOC	EDB	THM	Rad	Metals	T-coli, F-coli
8/6/92	11:30	Leachate Effluent					1	1	6	1	1	4	3	3	1	1	4

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
J. Hank	8-5-92	9:15	[signature]	8/5/92	2000	[signature]	8/6/92	15:45
RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

FOR SAVANNAH LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	S.L. LOG NO.	LABORATORY REMARKS
J. Hank	8-7-92	10:30	☒ YES ☐ NO		B231177	