

4009C00086

**BOARD OF COUNTY COMMISSIONERS
DEPARTMENT OF PUBLIC WORKS**

WACS7D# 39859

3600 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

ADMINISTRATION OFFICE
Suite 212
352-527-5477 Phone
352-527-5479 Fax

ENGINEERING DIVISION:
Suite 241
352-527-5446 Phone
352-527-5476 Fax

- Land Section
Suite 205
352-527-5447 Phone
352-527-5459 Fax
- Permits & Compliance Sec.
Suite 204
352-527-5448 Phone
352-527-5319 Fax
- Project Management Sec.
Suite 241
352-527-5449 Phone
352-527-5482 Fax
- Survey Section
Suite 241
352-527-5446 Phone
352-527-5482 Fax

1300 S. LECANTO HIGHWAY
LECANTO, FLORIDA 34461

MAINTENANCE OPERATIONS:

- Facilities Maint. Section
PO Box 143
Lecanto, FL 34460
352-527-0333 Phone
352-527-0654 Fax
- Fleet Management Section
PO Box 215
Lecanto, FL 34460
352-746-6888 Phone
352-746-5011 Fax

AQUATIC SERVICES
PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-9189 Fax

ROAD MAINTENANCE
PO Box 167
Lecanto, FL 34460
352-746-4107 Phone
352-746-1203 Fax

UTILITIES DIVISION
PO Box 440
Lecanto, FL 34460
352-746-2694 Phone
352-746-1676 Fax

SOLID WASTE MANAGEMENT
230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax

January 12, 1999

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

REPLY TO:
Solid Waste Management

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

Dear Ms. Amram:

Enclosed please find the following leachate monitoring results for the Citrus County Central Landfill site, together with the Operator's monthly reports, covering the period 10-98 through 12-98:

- 1) Weekly effluent analytical results. There are no exceedences of permit limits during this period.
- 2) Quarterly effluent analytical results. There are no exceedences of permit limits during this period; only sodium, chloride and total dissolved solids exceed drinking water maximum contamination levels.

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

Sincerely,

Susan J. Metcalfe

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

SJM:CJW/cjw swmFshared:swm_ltc:amram(leawk.doc)

RECEIVED

JAN 15 1999

Solid Waste Section

CC: Chongman Lee, - Solid Waste - Tallahassee w/analysis
Kenneth Saunders, Director, Dept. Public Works w/xls.sheet
Kim Ford, P.E., Depart of Environmental Protection w/xls.sheet
Jim Brunswick, Plant Operator w/xls.sheets

CITRUS COUNTY CENTRAL LANDFILL
OCTOBER, NOVEMBER, DECEMBER, 1998

[illegible]

CITRUS COUNTY CENTRAL LANDFILL

	MCL	BY	SAMPLE	
NOTE: MCL OR GC* UG/L UNLESS	FL GW GC	PERMIT	DATE:	
MG/L INDICATED	DOC 1994	SO09-		
	FOR INFO	274381	<	10/21/98
QUARTERLY PARAMETERS:				
CHLORIDE MG/L	250	ZOD		500
SODIUM	160,000	ZOD		220,000
TOTAL DISSOLVED SOLIDS MG/L	500	ZOD		1,000
ARSENIC	50	N/A		6.5
BARIUM	2,000	N/A		11
CADMIUM	5	N/A	<	1.0
CHROMIUM	100	N/A	<	2.0
IRON	300	N/A	<	40
MERCURY	2	N/A	<	0.5
LEAD	15	N/A	<	3.0
SELENIUM	50	N/A	<	5.0
SILVER	100	N/A	<	1.0
TOTAL TRIHALOMETHANES	100	N/A		25.4
(BROMODICHLOROMETHANE) <1.0				
(DIBROMOCHLOROMETHANE) 8.4				
(TRIBROMOMETHANE-BROMOFORM) 15				
(TRICHLOROMETHANE-CHLOROFORM) <1.0				
BENZENE	1	N/A	<	1.0
TOLUENE	1,000	N/A	<	1.0
ETHYLBENZENE	700	N/A	<	1.0
TOTAL XYLENES	10,000	N/A	<	1.0
ETHYLENE DIBROMIDE (EDB)	0.02	N/A	<	0.019
(1,2-DIBROMOETHANE)				
cjw				

Month DECEMBER Year 98

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.

(352) 746-5000

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in black ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.

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

JANUARY 7, 1999

*Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080*

*Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509*

*Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417*

*Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370*

*West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418*

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 12/30/98 8401329001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	12/30/98	7.6	S.U.	0.20	-	-
900201	Total Suspended Solids	SM2540 D	12/30/98	3.5	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	12/31/98	0.56	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/31/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	01/05/99	0.16	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	01/06/99	2.1	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	01/07/99	2.7	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	01/06/99	10	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	01/04/99	100	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/30/98	< 2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/30/98	< 1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Quality Control Summary

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

Harbor Branch
Environmental LaboratoryForm 300
Revision 005
03/07/97

Field Data Sheet

Sampler(s) Pat Hilton Date 2/30 Sample Time 930 Field ID# _____
 Project Name CITRUS COUNTY LANDFILL

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
 Sampling Equipment: Bottles only
 Site and Weather Conditions 63° Sunny

Field Instrument Beginning Calibration

pH meter Yes No Buffer 4.0 _____ 7.0 6.8 10.0 9.7
 Conductivity meter Yes No Buffer 147 _____ 1414 1420 12900 _____
 Turbidity meter Yes No Buffer 0.5 _____ 5.0 _____ 20 _____
 DO meter Yes No Temp C° _____ Adjust _____ from _____
 Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₃ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter Yes No Buffer 4.0 _____ 7.0 7.0 10.0 9.9
 Conductivity meter Yes No Buffer 147 _____ 1414 1410 12900 _____
 Turbidity meter Yes No Buffer 0.5 _____ 5.0 _____ 20 _____
 DO meter Yes No Temp C° _____ Adjust _____ from _____

General Site Information/Comments Jim Brunswick on site while
samples collected He also collected a pH sample

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

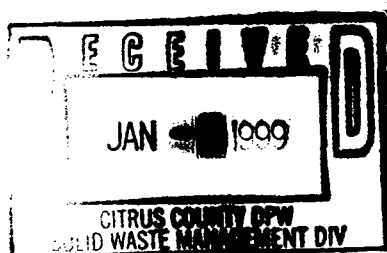
**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, the Project Manager.

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

A handwritten signature of N. Myron Gunsalus, Jr., the Laboratory Director.



DECEMBER 30, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086

Sample Date/Lab ID: 12/23/98 8103322001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	12/23/98	7.5	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	12/28/98	3.8	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	12/23/98	0.25	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/23/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	12/28/98	<0.050	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/29/98	1.7	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/30/98	2.0	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	12/29/98	9.5	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	12/10/98	110	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/24/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/23/98	74	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Sampler(s) Pat Hilton Date 12/13 Sample Time 900 Field ID# _____
Project Name _____

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
Sampling Equipment: Bottles only
Site and Weather Conditions _____

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>6.9</u>	10.0	<u>9.8</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1420</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ✓
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	Yes	No	Buffer	4.0	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	Yes	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

General Site Information/Comments From B on site while samples collected He also collected a BH sample

5600 U.S. 1 North
Fort Pierce, FL 34946

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

USE BALL POINT PEN ONLY

**5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034**

Company: CCV

Method of Shipment:

Cooler #'s

Date _____ Time _____

**255 Enterprise Road, Suite 1
Deltona, FL 32725**

Phone: _____ Fax: _____

**307 Coolidge Avenue
Lehigh Acres, FL 33936**

Client Contact:

**2514 Osawaw Blvd.
Spring Hill, FL 34607**

Sampled By: Pat H. How

Purchase Order #:

For Lab Use Only					
Temperature		Custody Seals		pH	
Checked		Intact		Checked	
Y	N	Y	N	Y	N

HPN # 8103322

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <i>[Signature]</i>	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME 12/23/98 1245	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY <i>B. North</i>	RECEIVED FOR HBEL CUSTODY BY <i>Michael R. Myer</i>
DATE/TIME	DATE/TIME 12-23-98 1600	DATE/TIME 12/23/98 1545

Project Name citrus county landfill
Date 12/23/58

Page 2 of 2

[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in black ink, appearing to read "Don Hash", is written over a horizontal line.

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

A large, stylized handwritten signature in black ink is written over a horizontal line. The signature is highly cursive and appears to read "N. Myron Gunsalus, Jr.".

DECEMBER 23, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 12/16/98 8401296002

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

7479

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	12/16/98	7.8	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	12/17/98	2.6	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	12/17/98	0.49	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/17/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	12/18/98	<0.050	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/21/98	1.5	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/22/98	2.0	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	12/21/98	10	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	12/18/98	170	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/16/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/16/98	3.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Client: Citrus County Central Landfill
Workorder ID Citrus County Landfill
Laboratory ID 8401296001
Sample ID Influent (Raw)

756 /

Sampled 12/16/98 08:45
Received 12/16/98 10:00
Reported 12/23/98 10:10

Page 2

Matrix Environmental Water

Wet Chemistry Analysis

Parameter	Method	Prep Date	Analyzed	Result	DL	Units
Nitrite as N	EPA 300.0	N/A	12/17/98 19:44 RS	0.93	0.044	mg/L
Nitrate as N	EPA 300.0	N/A	12/17/98 19:44 RS	4.5	0.060	mg/L
Ammonia	EPA 350.1	N/A	12/18/98 JL	220	20	mg/L
Total Kjeldahl Nitrogen	EPA 351.2	12/22/98	12/22/98 SMB	200	40	mg/L
Total Phosphorus as P	EPA 365.4	12/22/98	12/22/98 SMB	1.0	1.0	mg/L
COD	EPA 410.4	N/A	12/18/98 CMM	310	5.0	mg/L

Field Data Sheet

Sampler(s) Pat Wilton Date 12/16/98 Sample Time 843 Field ID# _____
Project Name Citrus County Landfill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottle only

Site and Weather Conditions 58° clear

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>7.2</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	Yes	No	Buffer	4.0	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	Yes	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

General Site Information/Comments

On Brunswick and side
While samples collected he also collected a PB sample

Fort Pierce, FL 34946

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

FDOH # 82500/E82417

**5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034**

FDOH # 83486/E83509

**255 Enterprise Road, Suite 1
Deltona, FL 32725**

FDOH # 85512/E85370

**307 Coolidge Avenue
Lehigh Acres, FL 33936**

FDOH # 84256/E84418

2514 Osawaw Blvd.
Spring Hill, FL 34607

Company: CCL

Address: .

Phone: _____ Fax: _____

Client Contact:

Project Name: Weekly Trachate

Sampled By: Red Wilson

Purchase Order #:

Method of Shipment: *Fed. Ex*

Cooler #'s

Date 12-16-98 Time _____

For Lab Use Only

Temperature	Custody Seals	pH
Checked	Intact	Checked
Y N	Y N	Y N

HPN # 840 1296

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <u>De</u>	RELINQUISHED BY <u>M Bonometts</u>	RELINQUISHED BY
DATE/TIME <u>12-16-98 1000</u>	DATE/TIME <u>12-16-98 10:00</u>	DATE/TIME
RECEIVED BY <u>M Bonometts</u>	RECEIVED BY <u>Fed Ex Airtel 806532547 164</u>	RECEIVED FOR HBEL CUSTODY BY <u>A. Steele</u>
DATE/TIME <u>12-16-98 10:00</u>	DATE/TIME <u>12-16-98</u>	DATE/TIME <u>12-17-98 1100</u>

Project Name C. Gros county landfill
Date 12/16/98

Page 2 of 2

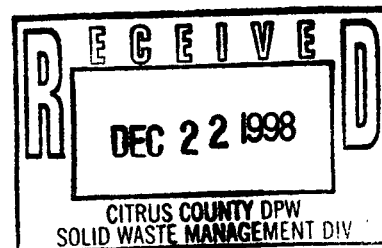
[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink.

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

A large, stylized handwritten signature of N. Myron Gunsalus, Jr., written in dark ink.

DECEMBER 16, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 12/09/98 8103201001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH , Field	150.1	12/09/98	6.6	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	12/11/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	12/10/98	4.3	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/10/98	0.20	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	12/15/98	<0.050	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/16/98	0.66	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/16/98	5.2	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	12/16/98	3.4	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	12/10/98	29	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/10/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/09/98	<1	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Sampler(s) Pat Hiltos Date 12/5/98 Sample Time 910 Field ID# _____
Project Name CITRUS COUNTY LANDFILL

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
Sampling Equipment: 60ml Bottles only
Site and Weather Conditions 68° sunny

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>68</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1430</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ☒
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	☒
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>7.0</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

General Site Information/Comments Jim Brunswick on site
While samples collected he also collected a pH sample

☐ FDOH # 96230/E96080
5600 U.S. 1 North
Fort Pierce, FL 34946

☐ FDOH # 82500/E82417
5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034

☒ FDOH # 83486/E83509
255 Enterprise Road, Suite 1
Deltona, FL 32725

☐ FDOH # 85512/E85370
307 Coolidge Avenue
Lehigh Acres, FL 33936

☐ FDOH # 84256/E84418
2514 Osawaw Blvd.
Spring Hill, FL 34607

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

Company: CCL

Address: _____

Phone: _____ Fax: _____

Client Contact: _____

Project Name: Weekly leachate

Sampled By: Pat Hiltow

Purchase Order #: _____

Method of Shipment: _____

Cooler #'s _____

Date _____ Time _____

☐ Standard Turn Around Time

☐ Rush in _____ Business Days

For Lab Use Only			
Temperature	Custody Seals	pH	
Checked	Intact	Checked	
Y N	Y N	Y N	HPN # <u>8103201</u>

PRESERVATIVE							Preservation Key	
V	A	U	S				H - Hydrochloric Acid	P - Phosphoric Acid
ANALYSES REQUESTED							N - Nitric Acid	ST - Sodium Thiosulfate
CBOD, TSS	Fecal	NO3/NO2	COD, TP, TKN PH, NH4				S - Sulfuric Acid	U - Unpreserved
							SH - Sodium Hydroxide	
							COMMENTS	
X	X	X	X				pH; 6.6 COD; 1780	

* Sample Type: G-Grab C-Composite O-Other ** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME <u>12/9/98</u> <u>1303</u>	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY	RECEIVED FOR HBEL CUSTODY BY <u>Michael P. Mayhew</u>
DATE/TIME	DATE/TIME	DATE/TIME <u>12/9/98</u> <u>1310</u>

Project Name Citrus county landfill
Date 12/9/98

Page 2 of 2

[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

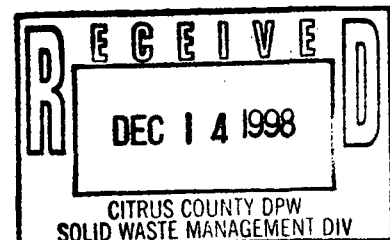
**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink, positioned above a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink, positioned above a horizontal line.

DECEMBER 8, 1998





Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 12/02/98 8401250001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	12/02/98	7.2	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	12/03/98	1.8	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	12/03/98	0.70	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	12/03/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	12/08/98	0.28	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/07/98	1.7	mg/L	0.80	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/08/98	2.4	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	12/07/98	8.3	mg/L	1.0	U	H ₂ SO ₄
000340	COD	410.4	12/04/98	91	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	12/02/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	12/02/98	2.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

5600 U.S. 1 North
Fort Pierce, FL 34946

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

**5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034**

Company: LCL

Method of Shipment: Fed Ex

Cooler #'s _____

☐ Standard Turn Around Time

☐ Rush in _____ Business Days

**255 Enterprise Road, Suite 1
Deltona, FL 32725**

Phone: _____ Fax: _____

Date 12-2-98 Time

For Lab Use Only

Temperature		Custody Seals		pH	
Checked		Intact		Checked	
Y	N	Y	N	Y	N

HPN # 840 1250

**307 Coolidge Avenue
Lehigh Acres, FL 33936**

Client Contact: _____

Project Name: weekly teacher

Sampled By: Pat Hilton

**2514 Osawaw Blvd.
Spring Hill, FL 34607**

Purchase Order #:

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <i>[Signature]</i>	RELINQUISHED BY <i>M Bonometti</i>	RELINQUISHED BY
DATE/TIME 12/2/98 1043	DATE/TIME 12-2-98	DATE/TIME
RECEIVED BY <i>M Bonometti</i>	RECEIVED BY <i>Fed Ex Airtel 301 859549115</i>	RECEIVED FOR HBEL CUSTODY BY <i>[Signature]</i>
DATE/TIME 12-2-98 1045	DATE/TIME 12-2-98	DATE/TIME <i>12/2/98 1045</i>

Field Data Sheet

Sampler(s) Pat N. H. H. Date 12/2 Sample Time 930 Field ID#
Project Name Citrus County Landfill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottles only

Site and Weather Conditions 73° sunny

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>6.8</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	<u>Yes</u>	No	Buffer	0.5	5.0		20	
DO meter	<u>Yes</u>	No	Temp C°		Adjust		from	

Field Filtered: Yes No

Duplicate: Yes No

Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	<u>Yes</u>	No	Buffer	0.5	5.0		20	
DO meter	<u>Yes</u>	No	Temp C°		Adjust		from	

General Site Information/Comments

J. - Brunswick on site while
Sampler collected He also collected a PH sample

Project Name citrus county landfill
Date 12/2/58

Page 2 of 2

[illegible]

Month **NOVEMBER** Year **98**

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.

Date:

(352) 746-5000

HARBOR BRANCH ENVIRONMENTAL LABORATORY

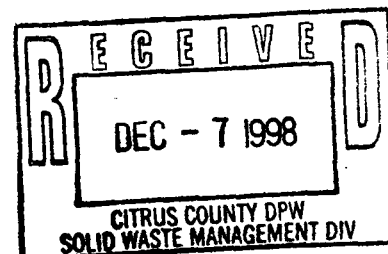
5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink over a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink over a horizontal line.

DECEMBER 2, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 11/25/98 8103092001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	11/25/98	7.6	S.U.	0.20	—	—
900201	Total Suspended Solids	160.2	11/30/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	11/26/98	0.72	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/26/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/30/98	0.10	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	12/01/98	2.0	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	12/02/98	2.8	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	12/01/98	9.1	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	11/30/98	94	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD ₅	SM5210 B	11/25/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/25/98	1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Sampler(s) Pat Hiltow Date 11/25 Sample Time 900 Field ID# _____
Project Name Citrus county landfill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
Sampling Equipment: Bottles only
Site and Weather Conditions 72° sunny

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1420</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	Yes	No	Buffer	4.0	_____	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	Yes	No	Buffer	147	_____	1414	<u>1416</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

General Site Information/Comments Jin Brunswick on site while
sample collected He also collected a pH sample

Fort Pierce, FL 34946

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

FDOH # 82500/E82417

5390 First Coast Hwy., Suite 1

Fernandina Beach, FL 32034

Company: CCI

Method of Shipment: _____

Standard Turn Around Time

Address: _____

Cooler #'s

FDOH # 83486/E83509

255 Enterprise Road, Suite 1

Deltona, FL 32725

Phone: _____ Fax: _____

Date _____ Time _____

For Lab Use Only

Temperature

Custody Seals

pH

Checked

Intact

Checked

Y N

Y N

~~Y~~ ~~N~~

HPN # 810 3092

FDOH # 85512/E85370

Client Contact:

307 Coolidge Avenue

Lehigh Acres, FL 33936

Project Name: Weekly Teacher

Sampled By: Bob Hillford

FDOH # 84256/E84418

2514 Osawaw Blvd.

Purchase Order #:

Spring Hill, FL 34607

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY 	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME 11/25/98	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY 	RECEIVED FOR HBEL CUSTODY BY 
DATE/TIME	DATE/TIME 11-25-98 1545	DATE/TIME 11/25/98 1248

Distribution: WHITE with REPORT; YELLOW for FILE; PINK to CLIENT; GOLD for RECEIVING; GREEN for SAMPLER

PAGE of

Project Name Citrus County Landfill
Date 11/25/98

Page 2 of 2

[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in black ink, appearing to read "Don Hash", written over a horizontal line.

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

A handwritten signature in black ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.

NOVEMBER 25, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 11/18/98 8401213001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	11/28/98	7.4	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	11/18/98	1.1	mg/L	1.1	U	None
000620	Nitrate-Nitrogen	300.0	11/19/98	0.58	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/19/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/23/98	0.094	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	11/24/98	.79	mg/L	1.0	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	11/25/98	1.4	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	11/24/98	3.9	mg/L	1.0	U	H ₂ SO ₄
000340	COD	410.4	11/20/98	88	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	11/18/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/18/98	93	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Sampler (s) Pat Hilton Date 11/18/98 Sample Time 920 Field ID# _____
Project Name LAKE COUNTY LANDFILL

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
Sampling Equipment: Bottles only
Site and Weather Conditions 10° cloudy

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>7.2</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1400</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	1414	<u>1410</u>	12900	
Turbidity meter	Yes	No	Buffer	0.5	5.0		20	
DO meter	Yes	No	Temp C°		Adjust		from	

General Site Information/Comments Jim Brounwick on site while
samples collected. We also collected a BR sample

Project Name Citrus County Landfill
Date 11/18/78

Page 2 of 2[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in dark ink, appearing to read "Don Hash", written over a horizontal line.

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

A handwritten signature in dark ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.

NOVEMBER 18, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 11/11/98 8102954001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH, Field	150.1	11/11/98	7.4	S.U.	0.20	-	-
900201	Total Suspended Solids	160.2	11/13/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	11/12/98	1.07	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/12/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/13/98	0.13	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	11/13/98	3.7	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	11/18/98	4.7	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	11/13/98	7.7	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	11/13/98	76	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD ₅	SM5210 B	11/12/98	4.3	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/11/98	2	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Page 1 of 2

Sampler(s) Pat Hilton Date 11/11/92 Sample Time 905 Field ID# _____
Project Name Citrus County Gulf Fill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump
Sampling Equipment: Bottles only
Site and Weather Conditions 73° / Sunny

Field Instrument Beginning Calibration

pH meter Yes No Buffer 4.0 _____ 7.0 6.9 10.0 9.7
Conductivity meter Yes No Buffer 147 _____ 1414 1430 12900 _____
Turbidity meter Yes No Buffer 0.5 _____ 5.0 _____ 20 _____
DO meter Yes No Temp C° _____ Adjust _____ from _____

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ✓
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	2 ✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

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

General Site Information/Comments Jim Brunswick on site

While samples collected he also collected - R1
Sample himself

5600 U.S. 1 North
Fort Pierce, FL 34946

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

**5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034**

Company: CCI

Method of Shipment:

☐ Standard Turn Around Time

**255 Enterprise Road, Suite 1
Deltona, FL 32725**

Address:

Cooler #'s

☐ **Rush in Business Days**

**307 Coolidge Avenue
Lehigh Acres, FL 33936**

Phone: _____ Fax: _____

Date _____ Time _____

For Lab Use Only

Temperature

Custody Seals

pH

Checked

Intact

~~Checked~~

Y N

Y N

Y / N

HPN # 8102954

2514 Osawaw Blvd.
Spring Hill, FL 34607

Client Contact:

Project Name: weekly leachate

Sampled By: Pat Wilton

Purchase Order #:

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <i>[Signature]</i>	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME 11-11-98 1320	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY <i>[Signature]</i>	RECEIVED FOR HBEL CUSTODY BY <i>[Signature]</i>
DATE/TIME	DATE/TIME 11-12-98 1130	DATE/TIME 11/11/98 1320

Distribution: WHITE with REPORT; YELLOW for FILE; PINK to CLIENT; GOLD for RECEIVING; GREEN for SAMPLER

PAGE of

Project Name Citrus county law fill
Date 11/11/98

Page 2 of 2

[illegible]

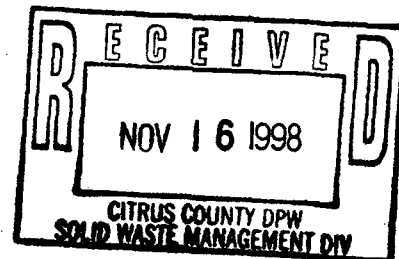
HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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



**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in black ink over a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in black ink over a horizontal line.

NOVEMBER 11, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 11/04/98 8102873001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	11/04/98	7.3	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	11/05/98	<2.0	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	11/05/98	0.57	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	11/05/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/09/98	0.10	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	11/10/98	1.7	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	11/11/98	2.3	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	11/10/98	8.1	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	11/06/98	79	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	11/05/98	2.4	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	11/04/98	26	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Page 1 of 2

Field Data Sheet

Sampler(s) Pat Hiltou Date 11/4/98 Sample Time 1115 Field ID# _____
Project Name Citrus County landfill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottles only

Site and Weather Conditions 77° Rainy

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>7.1</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1400</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	<u>Yes</u>	No	Temp C°	_____	_____	Adjust	_____	from	_____

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ✓
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1410</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

General Site Information/Comments Jim Bradwick on site while
samples collected he also collected a pH sample

FDOH # 98230/E98080

5600 U.S. 1 North

Fort Pierce, FL 34948

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

FDOH # 82500/E82417

5390 First Coast Hwy., Suite 1

Fernandina Beach, FL 32034

FDOH # 83486/E83509

255 Enterprise Road, Suite 1

Deltona, FL 32725

FDOH # 85512/E85370

307 Coolidge Avenue

Lehigh Acres, FL 33938

FDOH # 84256/E84418

2514 Osawaw Blvd.

Spring Hill, FL 34607

Company: CC1

Address: _____

Phone: _____ Fax: _____

Client Contact: _____

Project Name: Weekly leachateSampled By: Pat Hiltow

Purchase Order #: _____

Method of Shipment: _____

Cooler #'s _____

Date _____ Time _____

☐ Standard Turn Around Time☐ Rush in _____ Business Days

For Lab Use Only

Temperature

Checked

Y N

Custody Seals

Intact

Y N

pH

Checked

☒ Y ☐ NHPN # 8102873

PRESERVATIVE

U ST N

ANALYSES REQUESTED

TS5, CO ₂	Fe _{total}	NO ₃ -NO ₂	CO ₂ , H ₂ CO ₃	TN, NH ₃					
2	1	1	1						

Preservation Key

H-Hydrochloric Acid

P-Phosphoric Acid

N-Nitric Acid

ST-Sodium Thiosulfate

S-Sulfuric Acid

U-Unpreserved

SH-Sodium Hydroxide

COMMENTS

Lab Use LAB ID	FIELD ID	COLLECTION		Sample Type*	MATRIX**	# Containers	SAMPLE LOCATION											COMMENTS
		DATE	TIME															
001		11/4/98		G	WW	5	EFFluent	2	1	1	1							PA; 7.3 cond; 1940

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <u>R</u>	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME <u>11/4/98 1400</u>	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY <u>LB North</u>	RECEIVED FOR HBEL CUSTODY BY <u>R</u>
DATE/TIME	DATE/TIME <u>11-5-98 1000</u>	DATE/TIME <u>11/4/98 1400</u>

Distribution: WHITE with REPORT; YELLOW for FILE; PINK to CLIENT; GOLD for RECEIVING; GREEN for SAMPLER

PAGE ____ of ____

Project Name Citrus count, landfill
Date 11/4/98

Page 2 of 2

[illegible]

Domestic Wastewater Treatment Plant Monthly Operating Report

(1) Month OCTOBER Year 98

(3) Plant Name Central Landfill Leachate Plant

(4) Plant Address SR 44 3 Miles East Lecanto

(5) City Lecanto

(6) County Citrus

(7) Phone Number (352) 746-5000

(8) Permit Number S-009-274381

(9) Plant Type 1-C

(10) Test Site Identification Number N/A

(11) Fecal Coliform Sample Method

X	Membrane filter	Most Probable Number
1	0	0.001
2	0	0.009
3	0	0.008
4	0	0.001
5	0	0.000
6	0	0.000
7	0	0.000
8	0	0.000
9	0	0.000
10	0	0.000
11	0	0.000
12	0	0.000
13	0	0.000
14	0	0.000
15	0	0.000
16	0	0.000
17	0	0.000
18	0	0.000
19	0	0.000
20	0	0.000
21	0	0.000
22	0	0.000
23	0	0.000
24	0	0.000
25	0	0.000
26	0	0.000
27	0	0.000
28	0	0.000
29	0	0.000
30	0	0.000
31	0	0.000
32	0	0.000
33	0	0.000
34	0	0.000
35	0	0.000
36	0	0.000
37	0	0.000
38	0	0.000
39	0	0.000
40	0	0.000
41	0	0.000
42	0	0.000
43	0	0.000
44	0	0.000
45	0	0.000
46	0	0.000
47	0	0.000
48	0	0.000
49	0	0.000
50	0	0.000
51	0	0.000
52	0	0.000
53	0	0.000
54	0	0.000
55	0	0.000
56	0	0.000
57	0	0.000
58	0	0.000
59	0	0.000
60	0	0.000
61	0	0.000
62	0	0.000
63	0	0.000
64	0	0.000
65	0	0.000
66	0	0.000
67	0	0.000
68	0	0.000
69	0	0.000
70	0	0.000
71	0	0.000
72	0	0.000
73	0	0.000
74	0	0.000
75	0	0.000
76	0	0.000
77	0	0.000
78	0	0.000
79	0	0.000
80	0	0.000
81	0	0.000
82	0	0.000
83	0	0.000
84	0	0.000
85	0	0.000
86	0	0.000
87	0	0.000
88	0	0.000
89	0	0.000
90	0	0.000
91	0	0.000
92	0	0.000
93	0	0.000
94	0	0.000
95	0	0.000
96	0	0.000
97	0	0.000
98	0	0.000
99	0	0.000
100	0	0.000
101	0	0.000
102	0	0.000
103	0	0.000
104	0	0.000
105	0	0.000
106	0	0.000
107	0	0.000
108	0	0.000
109	0	0.000
110	0	0.000
111	0	0.000
112	0	0.000
113	0	0.000
114	0	0.000
115	0	0.000
116	0	0.000
117	0	0.000
118	0	0.000
119	0	0.000
120	0	0.000
121	0	0.000
122	0	0.000
123		

(12) Type Of Effluent Disposal or Reclaimed Water Use

N/A

(13) Limited Wet Weather Discharge Activated.

Yes No X Not Applicable

(14) Cumulative Days Wet Weather Discharge N/A

(15) Plant Staffing

Day Shift Operator Class C Cert. No. 8197

Evening Shift Operator Clas	Cert. No.	N/A
-----------------------------	-----------	-----

Night Shift Operator Class	Cert. No.	N/A
----------------------------	-----------	-----

Lead Operator James A. Brunswick

Signature: [Signature] Cert. No. _____

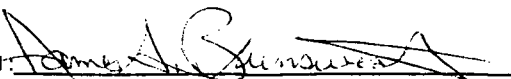
[illegible]

Domestic Wastewater Treatment Plant Monthly Operating Report

Month OCTOBER Year 98

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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: 11/5/98

Name (Please Type) James Brunswick

Company Name Citrus County Utilities Division

Telephone No. (Please Type) (352) 746-5000

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

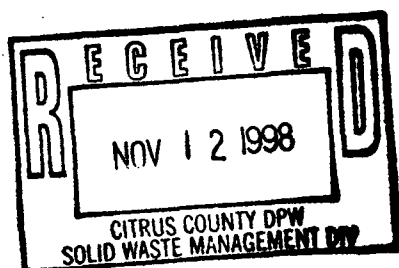
**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature in black ink, appearing to read "Don Hash", written over a horizontal line.

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

A handwritten signature in black ink, appearing to read "N. Myron Gunsalus, Jr.", written over a horizontal line.



NOVEMBER 4 , 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 10/28/98 8102827001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: Leachate

747P

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	10/28/98	7.8	S.U.	0.20	--	--
900201	Total Suspended Solids	160.2	10/30/98	3.8	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	10/29/98	0.37	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	10/29/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	11/02/98	0.068	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	11/03/98	1.9	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	11/04/98	2.3	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	11/03/98	7.4	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	10/30/98	61	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	10/29/98	3.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	10/28/98	22	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

Field Data Sheet

Sampler(s) Pat H. Hon Date 10/28 Sample Time 900 Field ID# _____
Project Name Citrus county landfill

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

Sampling Method: (Grab) Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottle only

Site and Weather Conditions 71° Sunny

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>7.1</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1430</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

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

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₂ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1410</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

General Site Information/Comments no one present while samples taken in at a class today.

Fort Pierce, FL 34946

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

Fernandina Beach, FL 32034

Company: CC1

Method of Shipment:

Cooler #'s

Date _____ Time _____

Deltona, FL 32725

Phone: _____ Fax: _____

For Lab Use Only

Temperature	Custody Seals	pH	
Checked	Intact	Checked	HPN # <u>8102827</u>
Y N	Y N	<u>(Y)</u> N	

Lehigh Acres, FL 33936

Client Contact:

Project Name: Weekly Trachate

Sampled By: Pat Hilton

Spring Hill, FL 34607

Purchase Order #:

[illegible]

* Sample Type: G=Grab C=Composite O=Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <i>[Signature]</i>	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME 10/28/90	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY <i>SB North</i>	RECEIVED FOR HBEL CUSTODY BY <i>WJ</i>
DATE/TIME	DATE/TIME 102998 1530	DATE/TIME 10-28-90 1250

Project Name city and county land fill
Date 10/28/98

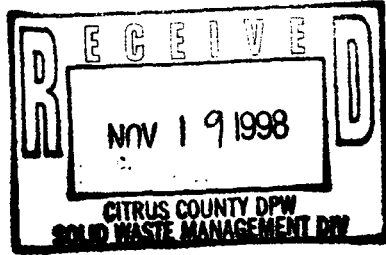
Page 2 of 2

[illegible]

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink over a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink over a horizontal line.

NOVEMBER 16, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

Method 601:

Due to possible matrix effects, Bromoform did not meet acceptable accuracy criteria in the matrix spike sample. The precision was acceptable and accuracy was demonstrated by the matrix spike duplicate sample and the laboratory control sample. All other quality assurance objectives were met.

A handwritten signature in black ink, appearing to read "Eric Charest".

Eric Charest

Quality Assurance Manager

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 10/21/98 8401143001

Test Site #: _____

 Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate
Test Site Name: Leachate

749P

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered / Unfiltered	Preservative Added
004000	pH, Field	150.1	10/21/98	7.2	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	10/22/98	2.5	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	10/22/98	0.50	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	10/22/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	10/27/98	0.11	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	10/30/98	1.12	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	10/30/98	1.6	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	10/30/98	6.5	mg/L	1.0	U	H ₂ SO ₄
000340	COD	410.4	10/23/98	29	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	10/21/98	2.40	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	10/21/98	8.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400 Ext. 285

FDEP QAP 870174



PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# : _____

Well Name: Leachate Effluent

Classification of Ground Water: _____

Ground Water Elevation (NGVD) : _____

or (MSL): _____

HBEL Sample ID: 8401143001

Sampling Date/Time: 10/21/98 9:10

Report Period: Qtrly Oct. 98 - Dec. 98

Well Purged (Y/N) : _____

Well Type: ☒ Background

☐ Intermediate

☐ Compliance

☐ Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
004000	pH	G	N	EPA 150.1	10/21/98 9:10	7.2	SU	0.20	SU
000940	Chloride	G	N	EPA 300.0	10/27/98 8:11	500	mg/L	7.5	mg/L
000620	Nitrate	G	N	EPA 300.0	10/22/98 21:40	0.50	mg/L	0.060	mg/L
000620	Nitrite	G	N	EPA 300.0	10/22/98 21:40	<0.044	mg/L	0.044	mg/L
000610	Ammonia	G	N	EPA 350.1	10/27/98 10:00	0.11	mg/L	0.050	mg/L
000625	Total Kjeldahl Nitrogen	G	N	EPA 351.2	10/30/98 14:20	1.1	mg/L	0.20	mg/L
000600	Total Nitrogen	G	N	EPA 351.2	11/04/98 11:14	1.6	mg/L	0.20	mg/L
000665	Total Phosphorus	G	N	EPA 365.4	10/30/98 15:33	6.5	mg/L	0.50	mg/L
000340	COD	G	N	EPA 410.4	10/23/98 10:00	29	mg/L	5.0	mg/L
032101	Bromodichloromethane	G	N	EPA 601	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
032104	Bromoform	G	N	EPA 601	10/26/98 18:36	15	ug/L	1.0	ug/L
032106	Chloroform	G	N	EPA 601	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
081521	Dibromochloromethane	G	N	EPA 601	10/26/98 18:36	8.4	ug/L	1.0	ug/L
034030	Benzene	G	N	EPA 602	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
034371	Ethylbenzene	G	N	EPA 602	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
034010	Toluene	G	N	EPA 602	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
081551	Total Xylenes	G	N	EPA 602	10/26/98 18:36	<1.0	ug/L	1.0	ug/L
070304	Total Dissolved Solids	G	N	SM2540 C	10/22/98 9:40	1000	mg/L	5.0	mg/L
900201	Total Suspended Solids	G	N	SM2540 D	10/22/98 11:45	2.5	mg/L	1.0	mg/L
82135	CBOD5	G	N	SM5210 B	10/21/98 12:35	2.4	mg/L	2.0	mg/L
031616	Fecal Coliform	G	N	SM9222 D	10/21/98 14:15	8.0	CFU/100mL	1.0	CFU/100mL
001002	Arsenic	G	N	SW-846 6010	10/24/98 16:05	6.5	ug/L	5.0	ug/L
001007	Barium	G	N	SW-846 6010	10/24/98 16:05	11	ug/L	10	ug/L
001027	Cadmium	G	N	SW-846 6010	10/24/98 16:05	<1.0	ug/L	1.0	ug/L

Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080

Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509

Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417

Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370

West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400 Ext. 285

PART III ANALYTICAL RESULTS

Facility GMS# : 4009C00086

Test Site ID# : _____

Well Name: Leachate Effluent

Classification of Ground Water: _____

Ground Water Elevation (NGVD) : _____

or (MSL): _____

FDEP QAP 870174



HBEL Sample ID: 8401143001

Sampling Date/Time: 10/21/98 9:10

Report Period: Qtrly Oct. 98 - Dec. 98

Well Purged (Y/N) : _____

Well Type: ☒ Background
☐ Intermediate
☐ Compliance
☐ Other

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	Analysis Result/Units		Detection Limits/Units	
001034	Chromium	G	N	SW-846 6010	10/24/98 16:05	<2.0	ug/L	2.0	ug/L
001045	Iron	G	N	SW-846 6010	10/24/98 16:05	<40	ug/L	40	ug/L
001051	Lead	G	N	SW-846 6010	10/24/98 16:05	<3.0	ug/L	3.0	ug/L
001147	Selenium	G	N	SW-846 6010	10/24/98 16:05	<5.0	ug/L	5.0	ug/L
001077	Silver	G	N	SW-846 6010	10/24/98 16:05	<1.0	ug/L	1.0	ug/L
000929	Sodium	G	N	SW-846 6010	10/24/98 16:05	220000	ug/L	1000	ug/L
007900	Mercury	G	N	SW-846 7470	10/27/98 9:32	<0.50	ug/L	0.50	ug/L
077651	1,2-Dibromoethane	G	N	SW-846 8011	11/05/98 9:47	<0.019	ug/L	0.019	ug/L

Field Data Sheet

Sampler(s) Pat Hilton Date 10/21 Sample Time 910 Field ID# _____
Project Name Citrus County Landfill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottles only

Site and Weather Conditions 72° cloudy

Field Instrument Beginning Calibration

pH meter	<u>Yes</u>	No	Buffer	4.0	_____	7.0	<u>6.9</u>	10.0	<u>9.7</u>
Conductivity meter	<u>Yes</u>	No	Buffer	147	_____	1414	<u>1430</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

Field Filtered: Yes No

Duplicate: Yes No

Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ☒
Metals	Plastic - HNO ₃	<2 ☐
Sulfide	Plastic - NaOH / Zn Acetate	>12 ☐
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12 ☐
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	☒
Oil and Grease	Glass - HCl	<2 ☐
TRPH	Glass - HCl	<2 ☐
VOA	Glass - HCl	<2 ☐
SVOC	Glass - (DRW NO Chlorine Res.)	☐
Other Phenols	Glass - H ₃ PO ₄	<2 ☐
Other		☐

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

Field Instrument Ending Calibration

pH meter	Yes	No	Buffer	4.0	_____	7.0	<u>7.1</u>	10.0	<u>9.9</u>
Conductivity meter	Yes	No	Buffer	147	_____	1414	<u>1410</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

General Site Information/Comments Jim Brunswick on site while
samples collected. He also collected a pH sample.

Project Name CITRUS CO LANDFILL
Date 10/21/98

Page 2 of 2

[illegible]

Fort Pierce, FL 34946

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

USE BALL POINT PEN ONLY

**5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034**

Company: CCI

Method of Shipment: *Courier*

Cooler #'s

☐ Standard Turn Around Time

**255 Enterprise Road, Suite 1
Deltona, FL 32725**

Address:

Date _____ Time _____

☐ **Rush in Business Days**

**307 Coolidge Avenue
Lehigh Acres, FL 33936**

Client Contact:

For Lab Use Only					
Temperature		Custody Seals		pH	
Checked		Intact		Checked	
Y	N	Y	N	Y	N

HPN # 840 1143

Project Name: Leachate week 1, 4 Quarter

Sampled By: Pat Dillon

2514 Osawaw Blvd.
Spring Hill, FL 34607

Purchase Order #:

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY <u>R</u>	RELINQUISHED BY <u>M Bonometh</u>	RELINQUISHED BY
DATE/TIME <u>10-21-98 1045</u>	DATE/TIME <u>10-21-98 1100</u>	DATE/TIME
RECEIVED BY <u>M Bonometh</u>	RECEIVED BY <u>R</u>	RECEIVED FOR HBEL CUSTODY BY <u>Bob White</u>
DATE/TIME <u>10-21-98 1045</u>	DATE/TIME <u>10-21-98 1100</u>	DATE/TIME <u>10-22-98 1400</u>

Distribution: WHITE with REPORT; YELLOW for FILE; PINK to CLIENT; GOLD for RECEIVING; GREEN for SAMPLER

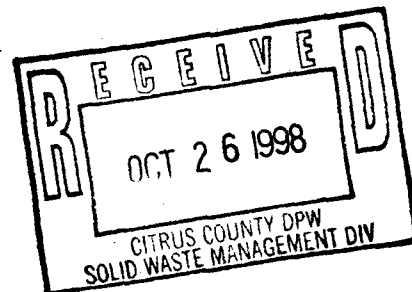
PAGE of

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL DELTONA: E83509**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

October 22, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

CITRUS COUNTY CENTRAL LANDFILL**PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

FDEP QAP 870174

GMS # 4009C00086Sample Date/Lab ID: 10/14/98 8102746001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: LeachateTest Site Name: LeachateSample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	10/14/98	7.7	S.U.	0.20	—	—
900201	Total Suspended Solids	160.2	10/16/98	6.6	mg/L	2.0	U	None
000620	Nitrate-Nitrogen	300.0	10/15/98	0.34	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	10/15/98	<0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	10/16/98	< 0.050	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	10/21/98	1.2	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	10/22/98	1.5	mg/L	0.20	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	10/21/98	1.7	mg/L	0.50	U	H ₂ SO ₄
000340	COD	410.4	10/16/98	53	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	10/15/98	< 2.0	mg/L	2.0	U	None
031616	Fecal Coliform ^B	SM9222 D	10/14/98	13	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

^B Results based on colony counts outside the acceptable range.Southeast Florida
Fort Pierce, FL 34946
FDOH #96230 / E96080Orlando Area
Deltona, FL 32725
FDOH #83486 / E83509Jacksonville Area
Fernandina Beach, FL 32034
FDOH #82500 / E82417Fort Myers Area
Lehigh Acres, FL 33936
FDOH #85512 / E85370West Central Florida
Spring Hill, FL 34607
FDOH #84526 / E84418

Field Data Sheet

Page 1062

Sampler(s) Pat Nilton Date 10/14 Sample Time 905 Field ID# _____
Project Name Citrus county land fill

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

Sampling Method: Grab Composite Monitoring Well: Bailer Pump

Sampling Equipment: Bottles only

Site and Weather Conditions 74° cloudy

Field Instrument Beginning Calibration

pH meter	Yes	No	Buffer	4.0	_____	7.0	<u>6.9</u>	10.0	<u>9.7</u>
Conductivity meter	Yes	No	Buffer	147	_____	1414	<u>1430</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

Field Filtered: Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₃ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter	Yes	No	Buffer	4.0	_____	7.0	<u>7.0</u>	10.0	<u>9.9</u>
Conductivity meter	Yes	No	Buffer	147	_____	1414	<u>1410</u>	12900	_____
Turbidity meter	Yes	No	Buffer	0.5	_____	5.0	_____	20	_____
DO meter	Yes	No	Temp C°	_____	_____	Adjust	_____	from	_____

General Site Information/Comments Jim Brunsnik on site with

Sample collected He also collected a PH sample

Project Name Citrus county landfill
Date 10/14/98

Page 2 of 3[illegible]

Fort Pierce, FL 34946

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

Fernandina Beach, FL 32034

Company: CCI

Method of Shipment: _____

Cooler #'s

Date _____ Time _____

Deltona, FL 32725

Phone: _____ Fax: _____

Lehigh Acres, FL 33936

Client Contact: _____

Project Name: Weekly Teachate

Spring Hill, FL 34607

Sampled By: _____

Purchase Order #:

For Lab Use Only					
Temperature		Custody Seals		pH	
Checked		Intact		Checked	
Y	N	Y	N	Y	N

HPN # 8102746

[illegible]

* Sample Type: G-Grab C-Composite O-Other

** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

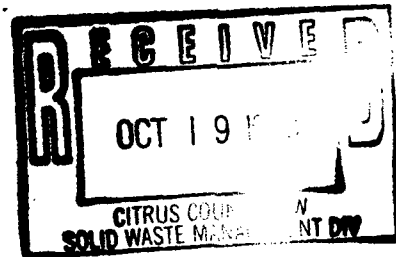
RELINQUISHED BY <i>[Signature]</i>	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME 10-14-98 1320	DATE/TIME	DATE/TIME
RECEIVED BY	RECEIVED BY <i>[Signature]</i>	RECEIVED FOR HBEL CUSTODY BY <i>[Signature]</i>
DATE/TIME	DATE/TIME 10-15-98 1330	DATE/TIME 10/14/98 1320

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174



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

**PRESENTED TO:
CATHY WINTER**

**ANALYSIS BY:
HARBOR BRANCH ENVIRONMENTAL LABORATORY
CompQAP #870174G
HRS #E96080/96230
HBEL SPRING HILL: E84418**

**PROJECT MANAGER:
DON HASH**

A handwritten signature of Don Hash, written in dark ink, positioned above a horizontal line.

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

A handwritten signature of N. Myron Gunsalus, Jr., written in dark ink, positioned above a horizontal line.

OCTOBER 14, 1998

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946
561-465-2400, Ext. 285

FDEP QAP 870174



Quality Control Summary

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

HARBOR BRANCH ENVIRONMENTAL LABORATORY

5600 US 1 North, Fort Pierce, FL 34946

561-465-2400, Ext. 285

FDEP QAP 870174

**CITRUS COUNTY CENTRAL LANDFILL****PARAMETER MONITORING REPORT**

Rule 62-522.900 (11)

GMS # 4009C00086Sample Date/Lab ID: 10/07/98 8401058001

Test Site #: _____

Site Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance
☒ Other: Leachate

Test Site Name: Leachate

7478

Sample Method: Grab, where applicable

Storet Code	Parameter Monitored	Analysis Method	Analysis Date	Analysis Result	Units	Practical Quant. Level	Sample Filtered /Unfiltered	Preservative Added
004000	pH, Field	150.1	10/07/98	7.7	S.U.	0.20	--	--
900201	Total Suspended Solids	SM2540 D	10/08/98	<1.0	mg/L	1.0	U	None
000620	Nitrate-Nitrogen	300.0	10/08/98	0.43	mg/L	0.060	U	None
000620	Nitrite-Nitrogen	300.0	10/08/98	< 0.044	mg/L	0.044	U	None
000610	Ammonia-Nitrogen	350.1	10/12/98	<0.050	mg/L	0.050	U	H ₂ SO ₄
000625	Total Kjeldahl Nitrogen	351.2	10/13/98	0.93	mg/L	0.20	U	H ₂ SO ₄
000600	Total Nitrogen	351.2	10/14/98	1.4	mg/L	N/A	U	H ₂ SO ₄
000665	Total Phosphorus	365.4	10/13/98	2.0	mg/L	1.0	U	H ₂ SO ₄
000340	COD	410.4	10/09/98	45	mg/L	5.0	U	H ₂ SO ₄
80082	CBOD5	SM5210 B	10/07/98	<2.0	mg/L	2.0	U	None
031616	Fecal Coliform	SM9222 D	10/07/98	<1.0	CFU/100mL	1.0	U	Na ₂ S ₂ O ₃

☒ FDOH # 96230/E96080
5600 U.S. 1 North
Fort Pierce, FL 34946

HARBOR BRANCH ENVIRONMENTAL LABORATORY

Phone: (561) 465-2400, Ext. 285 Fax: (561) 467-1584

Chain-of-Custody

USE BALL POINT PEN ONLY

☐ FDOH # 82500/E82417
5390 First Coast Hwy., Suite 1
Fernandina Beach, FL 32034

Company: CCl

Method of Shipment: Courier - Pat Hilton

☐ Standard Turn Around Time

Address: _____

Cooler #'s _____

☐ Rush in _____ Business Days

☐ FDOH # 83486/E83509
255 Enterprise Road, Suite 1
Deltona, FL 32725

Phone: _____ Fax: _____

Date 10-7-98 Time _____

☐ FDOH # 85512/E85370
307 Coolidge Avenue
Lehigh Acres, FL 33936

Client Contact: _____

For Lab Use Only					
Temperature	Custody Seals	pH			
Checked	Intact	Checked	HPN # <u>8401058</u>		
Y N	Y N	Y N			

Project Name: Weekly leachate

Sampled By: Pat Hilton

Purchase Order #: _____

PRESERVATIVE								Preservation Key	
5								H - Hydrochloric Acid	P - Phosphoric Acid
ANALYSES REQUESTED								N - Nitric Acid	ST - Sodium Thiosulfate
								S - Sulfuric Acid	U - Unpreserved
								SH - Sodium Hydroxide	

Lab Use LAB ID	FIELD ID	COLLECTION		Sample Type*	MATRIX**	# Containers	SAMPLE LOCATION	ANALYSES REQUESTED								COMMENTS
		DATE	TIME					CO ₂ , TP, TK ₂ TN, NH ₄	CBOD, TSS	Fecal	NO ₃ /NO ₂					
001		10/7	920	G	WW	5	EFFluent	X	X	X	X					PH 7.7 cond; 1730
																CBOD, TSS, FC → SH

* Sample Type: G-Grab C-Composite O-Other ** Matrix: S-Solid SL-Sludge DW-Drinking Water GW-Ground Water SW-Surface Water WW-Wastewater

RELINQUISHED BY	RELINQUISHED BY	RELINQUISHED BY
DATE/TIME <u>10/7/98 1100</u>	DATE/TIME	DATE/TIME
RECEIVED BY <u>M Bonometti</u>	RECEIVED BY	RECEIVED FOR HBEL CUSTODY BY
DATE/TIME <u>10-7-98 1100</u>	DATE/TIME	DATE/TIME

Field Data Sheet

Sampler(s) Pat Hiltz Date 10/7/98 Sample Time 920 Field ID# _____
Project Name Week 1 Citrus County Law FM

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

Sampling Method Grab Composite _____ Monitoring Well: Bailer Pump
Sampling Equipment: Batteries only
Site and Weather Conditions 79° 30% cloudy

Field Instrument Beginning Calibration

pH meter Yes No Buffer 4.0 _____ 7.0 7.1 10.0 9.7
Conductivity meter Yes No Buffer 147 _____ 1414 1720 12900 _____
Turbidity meter Yes No Buffer 0.5 _____ 5.0 _____ 20 _____
DO meter Yes No Temp C° _____ Adjust _____ from _____
Field Filtered Yes No Duplicate: Yes No Field Decontamination: Yes No

Parameter	Sample Containers	pH Check
Nutrient	Plastic - H ₂ SO ₄	<2 ✓
Metals	Plastic - HNO ₃	<2
Sulfide	Plastic - NaOH / Zn Acetate	>12
Cyanide	Plastic - NaOH / (NO Sulfide) / Ascorbic Acid	>12
Bacteriological	Glass - Thiosulfate (DW NO Chlorine Res.)	✓
Oil and Grease	Glass - HCl	<2
TRPH	Glass - HCl	<2
VOA	Glass - HCl	<2
SVOC	Glass - (DRW NO Chlorine Res.)	
Other Phenols	Glass - H ₃ PO ₄	<2
Other		

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

Field Instrument Ending Calibration

pH meter Yes No Buffer 4.0 _____ 7.0 7.8 10.0 9.9
Conductivity meter Yes No Buffer 147 _____ 1414 1410 12900 _____
Turbidity meter Yes No Buffer 0.5 _____ 5.0 _____ 20 _____
DO meter Yes No Temp C° _____ Adjust _____ from _____

General Site Information/Comments Jim Grossnick on site
While sample collected He also collected a pH sample

Project Name Citrus County Landfill
Date 10/7/98

Page 2 of 2

[illegible]