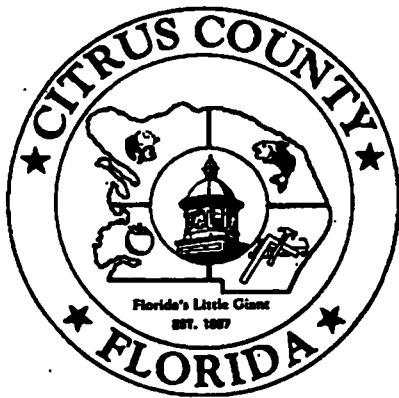


Closed Landfill Long-Term Care Permit Renewal Application

Prepared for



*Citrus County
Solid Waste Management Division*

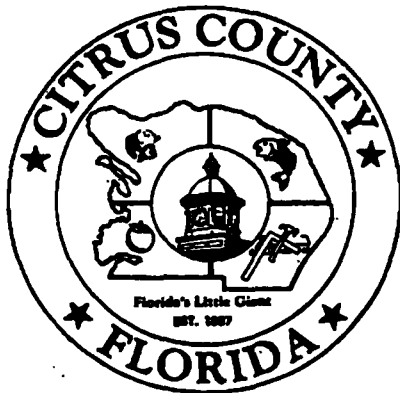
Prepared by

CH2MHILL

May 1998

Closed Landfill Long-Term Care Permit Renewal Application

Prepared for



*Citrus County
Solid Waste Management Division*

RECEIVED
MAY 28 1998

Department of
SOUTHWEST DISTRICT
BY _____ protection

Prepared by

CH2MHILL

May 1998

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D	Financial Assurance Cost Estimate
E	Minor Permit Modification Application for the Construction of Training Structures
F	Leachate Collection System Inspection, Repairing, and Maintenance History
G	Assessment of the Effectiveness of Landfill Closure Design and Maintenance
H	Leasing Agreement between Florida Department of Agriculture and Citrus County

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

DEP Form # <u>62-701.900(1)</u>
Form Title <u>Solid Waste</u>
<u>Management Facility Permit</u>
Effective Date <u>May 19, 1994</u>
DEP Application No. _____
(Filed by DEP)

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

SOLID WASTE MANAGEMENT FACILITY PERMIT

APPLICATION INSTRUCTIONS AND FORMS

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT PERMIT

I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of six copies of the application shall be submitted to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with Chapter 62-4, FAC, and Rule 62-701.320(5)(c), FAC, shall be submitted with the application by check made payable to the Department of Environmental Regulation (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit parts A,B, D through R, and T
- B. Asbestos Monofills - Submit parts A,B,D,E,F,I,K, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, D through Q, and T
- D. Volume Reduction Facilities - Submit parts A,C,D,S, and T
- E. Materials Recovery Facilities - Submit parts A,C,D,S, and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A,B,C,D, and E type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit parts A,B, N through R, and T
- B. Asbestos Monofills - Submit parts A,B, M through Q, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, N through Q, and T
- D. Volume Reduction Facilities - Submit parts A,C,S, and T
- E. Materials Recovery Facilities - Submit parts A,C,S, and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

- | | | |
|----------|---|---|
| S | - | Submitted |
| LOCATION | - | Physical location of information in application |
| N/A | - | Not Applicable |
| N/C | - | No Substantial Change |

VI. LISTING OF APPLICATION PARTS

PART A	-	GENERAL INFORMATION
PART B	-	DISPOSAL FACILITY GENERAL INFORMATION
PART C	-	MATERIALS RECOVERY / VOLUME REDUCTION FACILITY GENERAL INFORMATION
PART D	-	SOLID WASTE MANAGEMENT FACILITY PERMIT GENERAL REQUIREMENTS
PART E	-	LANDFILL PERMIT GENERAL REQUIREMENTS
PART F	-	GENERAL CRITERIA FOR LANDFILLS
PART G	-	LANDFILL CONSTRUCTION REQUIREMENTS
PART H	-	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS
PART I	-	GEOTECHNICAL INVESTIGATION REQUIREMENTS
PART J	-	VERTICAL EXPANSION OF LANDFILLS
PART K	-	LANDFILL OPERATION REQUIREMENTS
PART L	-	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS
PART M	-	SPECIAL WASTE HANDLING REQUIREMENTS
PART N	-	LANDFILL CLOSURE REQUIREMENTS
PART O	-	CLOSURE PROCEDURES
PART P	-	LONG TERM CARE REQUIREMENTS
PART Q	-	FINANCIAL RESPONSIBILITY REQUIREMENTS
PART R	-	CLOSURE OF EXISTING LANDFILL REQUIREMENTS
PART S	-	MATERIALS RECOVERY FACILITY REQUIREMENTS
PART T	-	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility:

Disposal ☒ [X]

Class I Landfill	<input checked="" type="checkbox"/> [X]	Ash Monofill	<input type="checkbox"/> []
Class II Landfill	<input type="checkbox"/> []	Asbestos Monofill	<input type="checkbox"/> []
Class III Landfill	<input type="checkbox"/> []	Industrial Solid Waste	<input type="checkbox"/> []
Other	<input type="checkbox"/> []		

Volume Reduction ☐ [] N/A

Incinerator	<input type="checkbox"/> []	Pulverizer / Shredder	<input type="checkbox"/> []
Composting	<input type="checkbox"/> []	Compactor/Baling Plant	<input type="checkbox"/> []
Materials Recovery	<input type="checkbox"/> []	Energy Recovery	<input type="checkbox"/> []
Other	<input type="checkbox"/> []		

2. Type of application:

Construction	<input type="checkbox"/> []	Construction/Operation	<input type="checkbox"/> []
Operation	<input type="checkbox"/> []	Closure	<input checked="" type="checkbox"/> [X]

3. Classification of application:

New	<input type="checkbox"/> []	Substantial Modification	<input type="checkbox"/> []
Renewal	<input checked="" type="checkbox"/> [x]	Minor Modification	<input type="checkbox"/> []

4. Facility name: Citrus County Central Landfill Closed 60-acre Site

5. DEP ID number: Pending County: Citrus

6. Facility location (main entrance): State Road 44 between Lecanto and Inverness, Florida

7. Location coordinates:

Section: 1 Township: 19S Range: 18E

UTMs: Zone _____ km E _____ km N

Latitude: 28 ° 51 ' 08 " Longitude: 82 ° 26 ' 38 "

8. Applicant name (operating authority): Citrus County Board of County Commissioners

Mailing address: P.O. Box 340 Lecanto FL 34460
Street or P.O. Box City State Zip

Contact person: Ms. Susan Metcalfe, P.G. Telephone: (352) 746-5000

Title: Solid Waste Management Division Director

9. Authorized agent/Consultant: CH2M HILL

Mailing address: 3011 S.W Williston Road Gainesville FL 32608-3928
Street or P.O. Box City State Zip

Contact person: Kou-Roung Chang, P.E. Telephone: (352) 335-7991

Title: Project Manager

10. Landowner(if different than applicant): Florida Dept. of Agriculture and Consumer Service, Division of Forestry

Mailing address: N/A
Street or P.O. Box City State Zip

Contact person: N/A Telephone: () N/A

11. Cities, towns and areas to be served: Citrus County

12. Population to be served:

Current: 100,829 (FY93-94) Five-Year Projection: 119,840 (FY98-99)

13. Volume of solid waste to be received: N/A ~~yds³/day~~ tons/day gallons/day

14. Date site will be ready to be inspected for completion: N/A

15. Estimated life of facility: N/A years

16. Estimated costs:

Total Construction: \$ N/A Closing Costs: \$ N/A

17. Anticipated construction starting and completion dates:

From: N/A To: N/A

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned by this application:

N/A

2. Facility site supervisor: Mr. David Chamblin

Title: Section Chief Telephone: (352) 746-5000

3. Disposal area: Total 60 acres; Used 60 acres; Available 0 acres

4. Weighing scales used: Yes ☐ No ☐ N/A

5. Security to prevent unauthorized use: Yes ☒ No ☐

6. Charge for waste received: N/A \$/yds³ N/A \$/ton

7. Surrounding land use, zoning:

Residential	<input type="checkbox"/>	Industrial	<input checked="" type="checkbox"/>
Agricultural	<input type="checkbox"/>	None	<input type="checkbox"/>
Commercial	<input checked="" type="checkbox"/>	Other	<input checked="" type="checkbox"/>

8. Types of waste received: N/A

Residential	<input type="checkbox"/>	C & D debris	<input type="checkbox"/>
Commercial	<input type="checkbox"/>	Shredded/cut tires	<input type="checkbox"/>
Incinerator / WTE ash	<input type="checkbox"/>	Yard trash	<input type="checkbox"/>
Treated biohazardous	<input type="checkbox"/>	Septic tank	<input type="checkbox"/>
Water treatment sludge	<input type="checkbox"/>	Industrial	<input type="checkbox"/>
Agricultural	<input type="checkbox"/>	Domestic sludge	<input type="checkbox"/>
Asbestos	<input type="checkbox"/>		
Other	<input type="checkbox"/>		

9. Salvaging permitted: Yes ☐ No ☒

10. Attendant: Yes ☒ No ☐ Trained operator: Yes ☒ No ☐

11. Spotters: Yes ☒ No ☐ Number of spotters used:

12. Site located in: Floodplain ☐ Wetlands ☐ Other ☒ Upland

13. Property recorded as a Disposal Site in County Land Records: Yes ☒ No ☐

14. Days of operation: Monday-Saturday

15. Hours of operation: Mon-Fri :7:00 A.M to 4:30 P.M. Holidays & Sat.:700 AM - 2:30 PM

16. Days Working Face covered: N/A

17. Elevation of water table: 7 Ft. NGVD

18. Number of monitoring wells: 12

19. Number of surface monitoring points: 0

20. Gas controls used: Yes ☒ No ☐ Type controls: Active ☐ Passive ☒

Gas flaring: Yes ☒ No ☐ Gas recovery: Yes ☐ No ☒

21. Landfill Unit - liner type:

Natural soils	<input type="checkbox"/>	Double geomembrane	<input type="checkbox"/>
Single clay liner	<input type="checkbox"/>	Geomembrane & composite	<input type="checkbox"/>

Single geomembrane	<input checked="" type="checkbox"/>	Double composite	<input type="checkbox"/>
Single composite	<input type="checkbox"/>	None	<input type="checkbox"/>
Slurry wall	<input type="checkbox"/>		
Other	<input type="checkbox"/>		

22. Leachate collection method:

Collection pipes	<input checked="" type="checkbox"/>	Sand layer	<input type="checkbox"/>
Geonets	<input type="checkbox"/>	Gravel layer	<input type="checkbox"/>
Well points	<input type="checkbox"/>	Interceptor trench	<input type="checkbox"/>
Perimeter ditch	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input type="checkbox"/>		

23. Leachate storage method:

Tanks	<input checked="" type="checkbox"/>	Surface impoundments	<input type="checkbox"/>
Other	<input type="checkbox"/>	None	

24. Leachate treatment method:

Oxidation	<input type="checkbox"/>	Chemical treatment	<input checked="" type="checkbox"/>
Secondary	<input type="checkbox"/>	Settling	<input type="checkbox"/>
Advanced	<input type="checkbox"/>	None	<input type="checkbox"/>
Other	<input type="checkbox"/>		

25. Leachate disposal method:

Recirculated	<input type="checkbox"/>	Pumped to WWTP	<input type="checkbox"/>
Transported to WWTP	<input checked="" type="checkbox"/>	Discharged to surface water	<input type="checkbox"/>
Injection well	<input type="checkbox"/>	Evaporation (i.e.: Perc Pond)	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>		

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: Yes ☒ No ☐ Type of treatment: Dry Detention

Name and Class of receiving water: None

28. Management and Storage of Surface Waters (MSSW) Permit number or status:
Southwest Florida Water Management District No. 402023.02

C. MATERIALS RECOVERY / VOLUME REDUCTION FACILITY GENERAL INFORMATION N/A

1. Provide brief description of materials recovery / volume reduction facility design and operations planned by this application:

2. Facility site supervisor: _____

Title: _____ Telephone: (____) _____

3. Disposal area: Total _____ acres; Used _____ acres; Available _____ acres

4. Security to prevent unauthorized use: Yes ☐ No ☐

5. Site located in: Floodplain ☐ Wetlands ☐ Other ☐ _____

6. Days of operation: _____

7. Hours of operation: _____

8. Number of operating staff: _____

9. Expected useful life: _____ Years

10. Weighing scales used: Yes ☐ No ☐

11. Normal processing rate: _____ yd³/day _____ tons/day _____ gal/day

12. Maximum processing rate: _____ yd³/day _____ tons/day _____ gal/day

13. Charge for waste received: _____

14. Type of facility (check one or more):

Incinerator	<input type="checkbox"/>	Composting	<input type="checkbox"/>
Pulverizer / shredder	<input type="checkbox"/>	Materials recovery	<input type="checkbox"/>
Compactor/baling	<input type="checkbox"/>	Energy recovery	<input type="checkbox"/>
Sludge concentration	<input type="checkbox"/>	Pyrolysis	<input type="checkbox"/>
Other	<input type="checkbox"/>		

15. Material recovered, tons/week:

_____ Paper	_____ Glass
_____ Ferrous metals	_____ Non-ferrous metals
_____ Aluminum	_____ Plastics
_____ Other:	

16. Energy recovery, in units shown:

_____ High pressure steam, lb/hr	_____ Chilled water, gal/hr
_____ Low pressure steam, lb/hr	_____ Oil, gal/hr
_____ Electricity, kw/hr	_____ Oil, BTU/hr
_____ Gas, ft ³ /hr	_____ Gas, BTU/hr
_____ Other:	

17. Process water management:

Recycled: Yes ☐ No ☐

Treatment method used: _____

Discharged to: Surface waters [] Underground [] Other [] _____

Name and Class of receiving water: _____

18. Storm Water:

Collected: Yes [] No [] Type of treatment: _____

Name and Class of receiving water: _____

19. MSSW Permit number or status: _____

20. Final residue produced:

_____ % of normal processing rate

_____ % of maximum processing rate

Disposed of at (Site name): _____

21. Supplemental fuel used:

Type: _____ Quantity used/hour: _____

22. Costs:

Estimated operating costs (material-energy revenue): \$ _____

Total cost/ton: \$ _____ Net cost/ton: \$ _____

23. State pollution control bond financing amount: \$ _____

24. Estimated amount of tax exemptions that will be requested: \$ _____

D.	SOLID WASTE MANAGEMENT FACILITY PERMIT GENERAL REQUIREMENTS (17-701.320, FAC) N/A		
S	LOCATION	N/A	N/C
<u>X</u>	<u>Section 2.1</u>	___	___
			1. Six copies, at minimum, of the complete application form, all supporting data and reports; (17-701.320(5)(a), FAC)
<u>X</u>	<u>Section 2.2</u>	___	___
			2. Engineering and/or professional certification (signature, date and seal) provided on the applications and all engineering plans, reports and supporting information for the application; (17-701.320(6), FAC)
<u>x</u>	<u>Section 2.3</u>	___	___
			3. A letter of transmittal to the Department; (17-701.320(7)(a), FAC)
<u>x</u>	<u>Section 2.4</u>	___	___
			4. A completed application form dated and signed by the applicant; (17-701.320(7)(b), FAC)
<u>x</u>	<u>Section 2.5</u>	___	___
			5. Permit fee specified in Rule 17-4.050, FAC and Rule 17-701.320(5)(c), FAC in check or money order, payable to the Department; (17-701.320(7)(c), FAC)
<u>x</u>	<u>Section 2.6</u>	___	___
			6. An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 1/2 inch by 11 inch consecutively numbered pages, a table of contents or index, the body of the report and all appendices including an operation plan, contingency plan, illustrative charts and graph records or logs of tests and investigations, engineering calculations; (17-701.320(7)(d), FAC)
___	___	<u>x</u>	___
			7. Operation Plan; (17-701.320(7)(e)1, FAC)
___	___	<u>x</u>	___
			8. Contingency Plan; (17-701.320(7)(e)2, FAC)
			9. Plans or drawings for the solid waste management facilities in appropriate format (including sheet size restrictions, cover sheet, legends, north arrow, horizontal and vertical scales, elevations referenced to NGVD showing; (17-702.320(7)(f), FAC)
___	___	<u>x</u>	___
			a. A regional map or plan with the project location;
___	___	<u>x</u>	___
			b. A vicinity map or aerial photograph no more than 1 year old;
___	___	<u>x</u>	___
			c. A site plan showing all property boundaries certified by a registered Florida land surveyor;
___	___	<u>x</u>	___
			d. Other necessary details to support the engineering report.
<u>x</u>	<u>Section 2.10</u>	___	___
			10. Proof of property ownership or a copy of appropriate agreements between the facility operator and property owner authorizing use of property; (17-701.320(7)(g), FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	<u>x</u>	—	11. For facilities owned or operated by a county, provide a description of how, if any, the facilities covered in this application will contribute to the county's achievement of recycling goals contained in Section 403.706,FS; (17-701.320(7)(h),FAC)
—	—	<u>x</u>	—	12. Provide a history and description of any enforcement actions taken by the Department against the applicant for violations of applicable statutes, rules, orders or permit conditions relating to the operation of any solid waste management facility in this state; (17-701.320(7)(i),FAC)
—	—	<u>x</u>	—	13. Proof of publication in a newspaper of general circulation of notice of application for a permit to construct or substantially modify a solid waste management facility; (17-702.320(8),FAC)
—	—	<u>x</u>	—	14. Provide a description of how the requirements for airport safety will be achieved including proof of required notices if applicable; (17-701.320(12),FAC)

E. LANDFILL PERMIT GENERAL REQUIREMENTS (17-701.330, FAC) **(This section is N/A)**

1. Vicinity map or aerial photograph no more than 1 year old and of appropriate scale showing land use and local zoning within one mile of the landfill and of sufficient scale to show all homes or other structures, water bodies, and roads other significant features of the vicinity. All significant features shall be labeled; (17-701.330(4)(a),FAC)
2. Vicinity map or aerial photograph no more than 1 year old showing all airports that are located within five miles of the proposed landfill; (17-701.330(4)(b),FAC)
3. Plot plan with a scale not greater than 200 feet to the inch showing; (17-701.330(4)(c),FAC)
 - a. Dimensions;
 - b. Locations of proposed and existing water quality monitoring wells;
 - c. Locations of soil borings;
 - d. Proposed plan of trenching or disposal areas;
 - e. Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets;
 - f. Any previously filled waste disposal areas;
 - g. Fencing or other measures to restrict access.
4. Topographic maps with a scale not greater than 200 feet to the inch with 5-foot contour intervals showing; (17-701.330(4)(d),FAC):
 - a. Proposed fill areas;
 - b. Borrow areas;
 - c. Access roads;
 - d. Grades required for proper drainage;
 - e. Cross sections of lifts;
 - f. Special drainage devices if necessary;
 - g. Fencing;
 - h. Equipment facilities.

5. A report on the landfill describing the following; (17-701.330(4)(e),FAC)

- a. The current and projected population and area to be served by the proposed site;
- b. The anticipated type, annual quantity, and source of solid waste, expressed in tons;
- c. The anticipated facility life;
- d. The source and type of cover material used for the landfill

6. Provide evidence that an approved laboratory shall conduct water quality monitoring for the facility in accordance with Rule 17-160,FAC; (17-701.330(4)(h),FAC)

7. Provide a statement of how the applicant will demonstrate financial responsibility for the closing and long-term care of the landfill; (17-701.330(4)(i),FAC)

F. GENERAL CRITERIA FOR LANDFILLS (17.701.340,FAC) (This section is N/A)

1. Describe (and show on a Federal Insurance Administration flood map, if available) how the landfill or solid waste disposal unit shall not be located in the 100-year floodplain where it will restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain unless compensating storage is provided, or result is a washout of solid waste; (17-701.340(4)(b),FAC)

2. Describe how the minimum horizontal separation between waste deposits in the landfill and the landfill property boundary shall be 100 feet, measured from the toe of the proposed final cover slope; (17-701.340(4)(c),FAC)

3. Describe what methods shall be taken to screen the landfill from public view where such screening can practically be provided; (17-701.340(4)(d),FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
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- [illegible]

S	LOCATION	N/A	N/C	
—	—	—	—	(4) Leak detection and secondary leachate collection system minimum design criteria ($k \geq 1$ cm/sec, head on lower liner ≤ 1 inch, head not to exceed thickness of drainage layer);
				d. Standards for geomembranes; (17-701.400(3)(d), FAC)
—	—	—	—	(1) Field seam test methods to ensure all field seams are at least 90 percent of the yield strength for the lining material;
—	—	—	—	(2) Design of 24-inch-thick protective layer above upper geomembrane liner;
—	—	—	—	(3) Describe operational plans to protect the liner and leachate collection system when placing the first layer of waste above 24-inch-thick protective layer.
				e. Geosynthetic specification requirements; (17-701.400(3)(e), FAC)
—	—	—	—	(1) Definition and qualifications of the designer, manufacturer, installer, QA consultant and laboratory, and QA program;
—	—	—	—	(2) Material specifications for geomembranes, geotextiles, geogrids, and geonets;
—	—	—	—	(3) Manufacturing and fabrication specifications including geomembrane raw material and roll QA, fabrication personnel qualifications, seaming equipment and procedures, overlaps, trial seams, destructive and nondestructive seam testing, seam testing location, frequency, procedure, sample size and geomembrane repairs;
—	—	—	—	(4) Geomembrane installation specifications including earthwork, conformance testing, geomembrane placement, installation personnel qualifications, field seaming and testing, overlapping and repairs, materials in contact with geomembrane and procedures for lining system acceptance;
—	—	—	—	(5) Geotextile and geogrid specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil materials;
—	—	—	—	(6) Geonet specifications including handling and placement, conformance testing, stacking and joining, repair, and placement of soil materials;

S	LOCATION	N/A	N/C
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f. Standards for soil components (17-701.400(3)(f), FAC):

- | | | | | |
|---|---|---|---|--|
| — | — | — | — | (1) Description of construction procedures including overexcavation and backfilling to preclude structural inconsistencies and procedures for placing and compacting soil component in layers; |
| — | — | — | — | (2) Demonstration of compatibility of the soil component with actual or simulated leachate in accordance with EPA Test Method 9100 or an equivalent test method; |
| — | — | — | — | (3) Procedures for testing in-situ soils to demonstrate they meet the specifications for soil liners; |
| — | — | — | — | (4) Specifications for soil component of liner including at a minimum: |
| — | — | — | — | (a) Allowable particle size distribution, Atterberg limits, shrinkage limit; |
| — | — | — | — | (b) Placement moisture and dry density criteria; |
| — | — | — | — | (c) Maximum laboratory-determined saturated hydraulic conductivity using simulated leachate; |
| — | — | — | — | (d) Minimum thickness of soil liner; |
| — | — | — | — | (e) Lift thickness; |
| — | — | — | — | (f) Surface preparation (scarification); |
| — | — | — | — | (g) Type and percentage of clay mineral within the soil component; |
| — | — | — | — | (5) Procedures for constructing and using a field test section to document the desired saturated hydraulic conductivity and thickness can be achieved in the field. |

3. Leachate collection and removal system (LCRS); (17-701.400(4), FAC)

a. The primary and secondary LCRS requirements; (17-701.400(4)(a), FAC)

- | | | | | |
|---|---|---|---|---|
| — | — | — | — | (1) Constructed of materials chemically resistant to the waste and leachate; |
| — | — | — | — | (2) Have sufficient mechanical properties to prevent collapse under pressure; |

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	(3) Have granular material or synthetic geotextile to prevent clogging;
—	—	—	—	(4) Have method for testing and cleaning clogged pipes or contingent designs for rerouting leachate around failed areas;
				b. Primary LCRS requirements; (17-701.400(4)(b), FAC)
—	—	—	—	(1) Bottom 12 inches having hydraulic conductivity $\geq 1 \times 10^{-7}$ cm/sec;
—	—	—	—	(2) Total thickness of 24 inches of material chemically resistant to the waste and leachate;
—	—	—	—	(3) Bottom slope design to accommodate for predicted settlement;
—	—	—	—	(4) Demonstration that synthetic drainage material, if used, is equivalent or better than granular material in chemical compatibility, flow under load and protection of geomembrane liner.
				4. Leachate recirculation; (17-701.400(5), FAC)
—	—	—	—	a. Describe general procedures for recirculating leachate;
—	—	—	—	b. Describe procedures for controlling leachate runoff and minimizing mixing of leachate runoff with storm water;
—	—	—	—	c. Describe procedures for preventing perched water conditions and gas buildup;
—	—	—	—	d. Describe alternate methods for leachate management when it cannot be recirculated due to weather or runoff conditions, surface seeps, wind-blown spray, or elevated levels of leachate head on the liner;
—	—	—	—	e. Describe methods of gas management to control odors and migration of methane;
—	—	—	—	f. If leachate irrigation is proposed, describe treatment methods and standards for leachate treatment prior to irrigation over final cover and provide documentation that irrigation does not contribute significantly to leachate generation.

S	LOCATION	N/A	N/C
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5. Leachate storage tanks and leachate surface impoundments; (17-701.400(6), FAC)

a. Surface impoundment requirements; (17-701.400(6)(b), FAC)

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|---|---|---|---|--|
| — | — | — | — | (1) Documentation that the design of the bottom liner will not be adversely impacted by fluctuations of the ground water; |
| — | — | — | — | (2) Designed in segments to allow for inspection and repair as needed without interruption of service; |
| — | — | — | — | (3) General design requirements; |
| — | — | — | — | (a) Double liner system consisting of an upper and lower 60-mil minimum thickness geomembrane; |
| — | — | — | — | (b) Leak detection and collection system with hydraulic conductivity ≥ 1 cm/sec; |
| — | — | — | — | (c) Lower geomembrane placed on subbase 6 inches thick with $k \leq 1 \times 10^{-5}$ cm/sec |
| — | — | — | — | (d) Design calculation to predict potential leakage through the upper liner; |
| — | — | — | — | (e) Daily inspection requirements and notification and corrective action requirements if leakage rates exceed that predicted by design calculations; |
| — | — | — | — | (4) Description of procedures to prevent uplift, if applicable; |
| — | — | — | — | (5) Design calculations to demonstrate minimum two feet of freeboard will be maintained; |
| — | — | — | — | (6) Procedures for controlling vectors and offsite odors. |

b. Above-ground leachate storage tanks; (17-701.400(6)(c), FAC)

- | | | | | |
|---|---|---|---|--|
| — | — | — | — | (1) Describe tank materials of construction and ensure foundation is sufficient to support tank; |
| — | — | — | — | (2) Describe procedures for cathodic protection if needed for the tank; |

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	(3) Describe exterior painting and interior lining of the tank to protect it from the weather and the leachate stored;
—	—	—	—	(4) Describe secondary containment design to ensure adequate capacity will be provided and compatibility of materials of construction;
—	—	—	—	(5) Describe design to remove and dispose of stormwater from the secondary containment system;
—	—	—	—	(6) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling;
—	—	—	—	(7) Inspections, corrective action and reporting requirements;
—	—	—	—	(a) Overfill prevention system weekly;
—	—	—	—	(b) Exposed tank exteriors weekly;
—	—	—	—	(c) Tank interiors when tank is drained or at least every three years;
—	—	—	—	(d) Procedures for immediate corrective action if failures detected;
—	—	—	—	(e) Inspection reports available for department review.
				c. Underground leachate storage tanks; (17-701.400(6)(d),FAC)
—	—	—	—	(1) Describe materials of construction;
—	—	—	—	(2) A double-walled tank design system to be used with the following requirements;
—	—	—	—	(a) Interstitial space monitoring at least weekly;
—	—	—	—	(b) Corrosion protection provided for primary tank interior and external surface of outer shell;
—	—	—	—	(c) Interior tank coatings compatible with stored leachate;
—	—	—	—	(d) Cathodic protection inspected weekly and repaired as needed;
—	—	—	—	(3) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling and provide for weekly inspections;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	(4) Inspection reports available for department review.
—	—	—	—	d. Schedule provided for routine maintenance of LCRS; (17-701.400(6)(e),FAC)
				6. Liner systems construction quality assurance (CQA): (17-701.400(7),FAC)
—	—	—	—	a. Provide CQA Plan including:
—	—	—	—	(1) Specifications and construction requirements for liner system;
—	—	—	—	(2) Detailed description of quality control testing procedures and frequencies;
—	—	—	—	(3) Identification of supervising professional engineer;
—	—	—	—	(4) Identify responsibility and authority of all appropriate organizations and key personnel involved in the construction project;
—	—	—	—	(5) State qualifications of CQA professional engineer and support personnel;
—	—	—	—	(6) Description of CQA reporting forms documents;
—	—	—	—	b. An independent laboratory experienced in the testing of geosynthetics to perform required testing.
				7. Soil liner CQA (17-701.400(8)FAC)
—	—	—	—	a. Documentation that an adequate borrow source has been located with test results or description of the field exploration and laboratory testing program to define a suitable borrow source;
—	—	—	—	b. Description of field test section construction and test methods to be implemented prior to liner installation;
—	—	—	—	c. Description of field test methods including rejection criteria and corrective measures to ensure proper liner installation.
				8. Surface water management systems; (17-701.400(9),FAC)
—	—	—	—	a. Design of surface water management system to isolate surface water from waste filled areas and to control stormwater run-off;
—	—	—	—	b. Details of stormwater control design including retention ponds, detention ponds, and drainage ways;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	9. Gas control systems; (17-701.400(10),FAC)
—	—	—	—	a. Design details for gas control system including collection pipes and vents, and passive venting or vacuum extraction details;
—	—	—	—	b. Documentation that the gas control system will not impact the liner or leachate control system;
—	—	—	—	c. Proposed methods of odor control including flaring designs in accordance with Chapter 17-296,FAC;
—	—	—	—	d. Description of a routing gas monitoring program to ensure gas control system is operating properly including:
—	—	—	—	(1) Location of monitoring points;
—	—	—	—	(2) Requirements for quarterly sampling of all monitoring points;
—	—	—	—	(3) Description of corrective measures to be completed within 60 days of detection of elevated levels of explosive gases;
—	—	—	—	e. Description of condensate collection and disposal methods.
—	—	—	—	10. Landfill gas recovery facilities; (17-701.400(11),FAC)
—	—	—	—	a. Information required in Rules 17-701.320(7) and 17-701.330(4), FAC supplied;
—	—	—	—	b. Information required in Rule 17-701.600(4), FAC supplied where relevant and practical;
—	—	—	—	c. Estimate of current and expected gas generation rates and description of condensate disposal methods provided;
—	—	—	—	d. Description of procedures for condensate sampling, analyzing and data reporting provided;
—	—	—	—	e. Closure plan provided describing methods to control gas after recovery facility ceases operation;
—	—	—	—	f. Performance bond provided to cover closure costs if not already included in other landfill closure costs.
—	—	—	—	11. For landfills designed in groundwater, provide documentation that the landfill will provide a degree of protection equivalent to landfills designed with bottom liners not in contact with ground water; (17-701.400(12),FAC)

H. HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS (17-701.410,FAC) (This section is N/A)

1. Submit a hydrogeological investigation and site report including at least the following information:

- | | | | | |
|-------|-------|-------|-------|---|
| _____ | _____ | _____ | _____ | a. Regional and site specific geology and hydrogeology; |
| _____ | _____ | _____ | _____ | b. Direction and rate of groundwater and surface water flow including seasonal variations; |
| _____ | _____ | _____ | _____ | c. Background quality of ground water and surface water; |
| _____ | _____ | _____ | _____ | d. Any on-site hydraulic connections between aquifers; |
| _____ | _____ | _____ | _____ | e. Site stratigraphy and aquifer characteristics for confining layers, semi-confining layers, and all aquifers below the landfill site that may be affected by the landfill; |
| _____ | _____ | _____ | _____ | f. Site topography and soil characteristics; |
| _____ | _____ | _____ | _____ | g. Inventory of all public and private water wells within a one-mile radius of the landfill including well top of casing and bottom elevations, name of owner, age and usage of each well, stratigraphic unit screened, well construction technique and static water level; |
| _____ | _____ | _____ | _____ | h. Description of topography, soil types and surface water drainage systems; |
| _____ | _____ | _____ | _____ | i. An inventory of all public and private water wells within one mile of the landfill. |
| _____ | _____ | _____ | _____ | j. Existing contaminated areas on landfill site. |
| _____ | _____ | _____ | _____ | 2. Report signed, sealed and dated by PE or PG. |

I. GEOTECHNICAL INVESTIGATION REQUIREMENTS (17-701.420, FAC) (This section is N/A)

S	LOCATION	N/A	N/C
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|---|---|---|---|---|
| — | — | — | — | 1. Submit a geotechnical site investigation report defining the engineering properties of the site including at least the following: |
| — | — | — | — | a. Description of subsurface conditions including soil stratigraphy and ground water table conditions; |
| — | — | — | — | b. Investigate for the presence of muck, previously filled areas, soft ground, lineaments and sink holes; |
| — | — | — | — | c. Estimates of average and maximum high water table across the site; |
| — | — | — | — | d. Foundation analysis including: |
| — | — | — | — | (1) Foundation bearing capacity analysis; |
| — | — | — | — | (2) Total and differential subgrade settlement analysis; |
| — | — | — | — | (3) Slope stability analysis; |
| — | — | — | — | e. Description of method used in the investigation and includes soil boring logs, laboratory results, analytical calculations, cross sections, interpretations and conclusions; |
| — | — | — | — | f. An evaluation of fault area, seismic impact zones, and unstable areas as described in 40 CFR 258.13, 40 CFR 258.14 and 40 CFR 258.15 |
| — | — | — | — | 2. Report signed, sealed and dated by PE or PG. |

J. VERTICAL EXPANSION OF LANDFILLS (17-701.430,FAC) (This section is N/A)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	1. Describe how the vertical expansion shall not cause or contribute to leachate leakage from the existing landfill or adversely affect the closure design of the existing landfill;
—	—	—	—	2. Describe how the vertical expansion over unlined landfills will meet the requirements of Rule 17-701.400,FAC with the exceptions of Rule 17-701.430(1)(c),FAC;
—	—	—	—	3. Provide foundation and settlement analysis for the vertical expansion;
—	—	—	—	4. Provide total settlement calculations demonstrating that the final elevations of the lining system, that gravity drainage, and that no other component of the design will be adversely affected;
—	—	—	—	5. Minimum stability safety factor of 1.5 for the lining system component interface stability and deep stability;
—	—	—	—	6. Provide documentation to show the surface water management system will not be adversely affected by the vertical expansion;
—	—	—	—	7. Provide gas control designs to prevent accumulation of gas under the new liner for the vertical expansion.

K. LANDFILL OPERATION REQUIREMENTS (17-701.500,FAC) (This section is N/A)

—	—	—	—	1. Provide documentation that landfill will have at least one trained operator during operation and at least one trained spotter at each working face; (17-701.500(1),FAC)
				2. Provide a landfill operation plan including procedures for: (17-701,500(2),FAC)
—	—	—	—	a. Designating responsible operating and maintenance personnel;
—	—	—	—	b. Contingency operations for emergencies;
—	—	—	—	c. Controlling types of waste received at the landfill;
—	—	—	—	d. Weighing incoming waste;
—	—	—	—	e. Vehicle traffic control and unloading;
—	—	—	—	f. Method and sequence of filling waste;
—	—	—	—	g. Waste compaction and application of cover;
—	—	—	—	h. Operations of gas, leachate, and stormwater controls;
—	—	—	—	i. Water quality monitoring.

S	LOCATION	N/A	N/C	
—	—	—	—	3. Provide a description of the landfill operation record to be used at the landfill; details as to location of where various operational records will be kept (i.e. FDEP permit, engineering drawings, water quality records, etc.) (17-701.500(3),FAC)
—	—	—	—	4. Describe the waste records that will be compiled monthly and provided to the Department quarterly; (17-701.500(4),FAC)
—	—	—	—	5. Describe methods of access control; (17-701.500(5),FAC)
—	—	—	—	6. Describe load checking program to be implemented at the landfill to discourage disposal of unauthorized wastes at the landfill; (17-701.500(6),FAC)
—	—	—	—	7. Describe procedures for spreading and compacting waste at the landfill that include: (17-701.500(7),FAC)
—	—	—	—	a. Waste layer thickness and compaction frequencies;
—	—	—	—	b. Special considerations for first layer of waste placed above liner and leachate collection system;
—	—	—	—	c. Slopes of cell working face and side grades above land surface, planned lift depths during operation;
—	—	—	—	d. Maximum width of working face;
—	—	—	—	e. Description of type of initial cover to be used at the facility that controls:
—	—	—	—	(1) Disease vector breeding/animal attraction
—	—	—	—	(2) Fires
—	—	—	—	(3) Odors
—	—	—	—	(4) Blowing litter
—	—	—	—	(5) Moisture infiltration
—	—	—	—	f. Procedures for applying initial cover including minimum cover frequencies;
—	—	—	—	g. Procedures for applying intermediate cover;
—	—	—	—	h. Time frames for applying final cover;
—	—	—	—	i. Description of litter policing methods;
—	—	—	—	j. Erosion control procedures.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
				8. Describe operational procedures for leachate management including; (17-701.500(8),FAC)
—	—	—	—	a. Leachate level monitoring, sampling, analysis and data results submitted to the Department;
—	—	—	—	b. Operation and maintenance of leachate collection and removal system, and treatment as required;
—	—	—	—	c. Procedures for managing leachate if it becomes regulated as a hazardous waste;
—	—	—	—	d. Agreements for off-site discharge and treatment of leachate;
—	—	—	—	e. Contingency plan for managing leachate during emergencies or equipment problems;
—	—	—	—	f. Procedures for recording quantities of leachate generated in gal/day;
—	—	—	—	g. Procedures for comparing precipitation experienced at the landfill with leachate generation rates.
—	—	—	—	9. Describe routine gas monitoring program for the landfill as required by Rule 17-701.400(10),FAC; (17-701.500(9),FAC)
—	—	—	—	10. Describe procedures for operating and maintaining the landfill stormwater management system to comply with the standards of Chapters 17-3, 17-302 and 17-25, FAC; (17-701.500(10),FAC)
				11. Equipment and operation feature requirements; (17-701.500(11),FAC)
—	—	—	—	a. Sufficient equipment for excavating, spreading, compacting and covering waste;
—	—	—	—	b. Reserve equipment or arrangements to obtain additional equipment within 24 hours of breakdown;
—	—	—	—	c. Communications equipment;
—	—	—	—	d. Personnel shelter and sanitary facilities, first aid equipment;
—	—	—	—	e. Dust control methods;
—	—	—	—	f. Fire protection capabilities and procedures for notifying local fire department authorities in emergencies;
—	—	—	—	g. Litter control devices;
—	—	—	—	h. Signs indicating operating authority, traffic flow, hours of operation, disposal restriction

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	12. Provide a description of all-weather access road, inside perimeter road and other roads necessary for access which shall be provided at the landfill; (17-701.500(12),FAC)
				13. Additional record keeping and reporting requirements; (17-701.500(13),FAC)
—	—	—	—	a. Records used for developing permit applications and supplemental information maintained for the design period of the landfill;
—	—	—	—	b. Monitoring information, calibration and maintenance records, copies of reports required by permit maintained for at least 10 years;
—	—	—	—	c. Background water quality records shall be maintained for the design period of the landfill;
—	—	—	—	d. Maintain annual estimates of the remaining life of constructed landfills and of other permitted areas not yet constructed and submit this estimate annually to the Department.

L. WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS (17-701.510, FAC) (N/A)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	—	1. Water quality and leachate monitoring plan shall be submitted describing the proposed ground water, surface water and leachate monitoring systems and shall meet at least the following requirements;
—	—	—	—	a. Based on the information obtained in the hydrogeological investigation and signed, dated and sealed by the PG or PE who prepared it; (17-701.510(2)(a), FAC)
—	—	—	—	b. All sampling and analysis performed by organizations having Department approved Comprehensive Quality Assurance Plans; (17-701.510(2)(b), FAC)
—	—	—	—	c. Ground water monitoring requirements; (17-701.510(3), FAC)
—	—	—	—	(1) Detection wells located downgradient from and within 50 feet of disposal units;
—	—	—	—	(2) Downgradient compliance wells as required;
—	—	—	—	(3) Background wells screened in all aquifers below the landfill that may be affected by the landfill;
—	—	—	—	(4) Location information for each monitoring well;
—	—	—	—	(5) Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;
—	—	—	—	(6) Well screen locations properly selected;
—	—	—	—	(7) Procedures for properly abandoning monitoring wells;
—	—	—	—	(8) Detailed description of detection sensors if proposed.
—	—	—	—	d. Surface water monitoring requirements; (17-701.510(4), FAC)
—	—	—	—	(1) Location of and justification for all proposed surface water monitoring points;
—	—	—	—	(2) Each monitoring location to be marked and its position determined by a registered Florida land surveyor;
—	—	—	—	e. Leachate sampling locations proposed; (17-701.510(5), FAC)

S	LOCATION	N/A	N/C
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f. Routing sampling frequency and requirements;
(17-701.510(6), FAC)

—	—	—	—
---	---	---	---

(1) Background ground water and surface water sampling and analysis requirements;

—	—	—	—
---	---	---	---

(2) Leachate semi-annual and annual sampling and analysis requirements;

—	—	—	—
---	---	---	---

(3) Detection well semi-annual sampling and analysis requirements;

—	—	—	—
---	---	---	---

(4) Compliance well sampling and analysis requirements;

—	—	—	—
---	---	---	---

(5) Surface water sampling and analysis requirements

—	—	—	—
---	---	---	---

g. Describe procedures for implementing assessment monitoring and corrective action as required;
(17-701.510(7), FAC)

—	—	—	—
---	---	---	---

h. Water quality monitoring report requirements;
(17-701.510(9), FAC)

—	—	—	—
---	---	---	---

(1) Semi-annual report requirement;

—	—	—	—
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(2) Bi-annual report requirements signed, dated and sealed by PG or PE.

M. SPECIAL WASTE HANDLING REQUIREMENTS (17-701.520, FAC) (This section is N/A)

S	LOCATION	N/A	N/C	
_____	_____	<u>X</u>	_____	1. Describe procedures for managing motor vehicles; (17-701.520(1), FAC)
_____	_____	<u>X</u>	_____	2. Describe procedures for landfilling shredded waste; (17-701.520(3), FAC)
_____	_____	<u>X</u>	_____	3. Describe procedures for asbestos waste disposal; (17-701.520(4), FAC)
_____	_____	<u>X</u>	_____	4. Describe procedures for contaminated soil disposal; (17-701.520(5), FAC)

N. LANDFILL FINAL CLOSURE REQUIREMENTS (17-701.600, FAC)

				1. Closure schedule requirements; (17-701.600(2), FAC)
_____	_____	_____	<u>X</u>	a. Documentation that a written notice including a schedule for closure will be provided to the Department at least one year prior to final receipt of wastes;
_____	_____	_____	<u>X</u>	b. Notice to user requirements within 120 days of final receipt of wastes;
_____	_____	_____	<u>X</u>	c. Notice to public requirements within 10 days on final receipt of wastes.
				2. Closure permit general requirements; (17-701.600(3), FAC)
_____	_____	_____	<u>X</u>	a. Application submitted to Department at least 90 days prior to final receipt of wastes;
				b. Closure plan shall include the following:
_____	_____	_____	<u>X</u>	(1) Closure report;
_____	_____	_____	<u>X</u>	(2) Closure design plan;
_____	_____	_____	<u>X</u>	(3) Closure operation plan;
_____	_____	_____	<u>X</u>	(4) Closure procedures;
_____	_____	_____	<u>X</u>	(5) Plan for long term care;
_____	_____	_____	<u>X</u>	(6) A demonstration that proof of financial responsibility for long term care will be provided.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
				3. Closure report requirements; (17-701.600(4),FAC)
				a. General information requirements;
—	—	—	<u>X</u>	(1) Identification of landfill;
—	—	—	<u>X</u>	(2) Location, description and vicinity map;
—	—	—	<u>X</u>	(3) Total acres of disposal areas and landfill property;
—	—	—	<u>X</u>	(4) Legal property description;
—	—	—	<u>X</u>	(5) History of landfill;
—	—	—	<u>X</u>	(6) Identification of types of waste disposed of at the landfill.
—	—	—	<u>X</u>	b. Geotechnical investigation report and water quality monitoring plan required by Rule 17-701.330(4),FAC;
—	—	—	<u>X</u>	c. Land use information report indicating: identification of adjacent landowners; zoning; present land uses; and roads, highway right-of-way, or easements.
—	—	—	<u>X</u>	d. Report on actual or potential gas migration at landfills containing biodegradable wastes including detailed description of test and investigation methods used;
<u>X</u>	<u>Exhibit G</u>	—	—	e. Report assessing the effectiveness of the landfill design and operation including results of geotechnical investigations, surface water and storm water management, gas migration and concentrations, condition of existing cover, and nature of waste disposed of at the landfill;
				4. Closure design requirements to be included in the closure design plan: (17-701.600(5),FAC)
—	—	—	<u>X</u>	a. Plan sheet showing phases of site closing;
<u>x</u>	<u>Exhibit G</u>	—	—	b. Drawings showing existing topography and proposed final grades;
—	—	—	<u>X</u>	c. Provisions to close units when they reach approved design dimensions;
—	—	—	<u>X</u>	d. Final elevations before settlement;
—	—	—	<u>X</u>	e. Side slope design including benches, terraces, down slope drainage ways, energy dissipators and discussion of expected precipitation effects;

S	LOCATION	N/A	N/C	
_____	_____	_____	<u>X</u>	f. Final cover installation plans including:
_____	_____	_____	<u>X</u>	(1) CQA plan for installing and testing final cover;
_____	_____	_____	<u>X</u>	(2) Schedule for installing final cover after final receipt of waste;
_____	_____	_____	<u>X</u>	(3) Description of drought-resistant species to be used in the vegetative cover;
_____	_____	_____	<u>X</u>	(4) Top gradient design to maximize runoff and minimize erosion;
_____	_____	_____	<u>X</u>	(5) Provisions for cover material to be used for final cover maintenance.
_____	_____	_____	<u>X</u>	g. Final cover design requirements:
_____	_____	_____	<u>X</u>	(1) Protective soil layer design;
_____	_____	_____	<u>X</u>	(2) Barrier soil layer design;
_____	_____	_____	<u>X</u>	(3) Erosion control vegetation;
_____	_____	_____	<u>X</u>	(4) Geomembrane barrier layer design.
_____	_____	_____	<u>X</u>	h. Proposed method of stormwater control;
_____	_____	_____	<u>X</u>	i. Proposed method of access control;
_____	_____	_____	<u>X</u>	j. Description of proposed final use of the close landfill, if any;
_____	_____	_____	<u>X</u>	5. Closure operation plan shall include: (17-701.600(6), FAC)
_____	_____	_____	<u>X</u>	a. Detailed description of actions which will be taken to close the landfill;
_____	_____	_____	<u>X</u>	b. Time schedule for completion of closing and long term care;
_____	_____	_____	<u>X</u>	c. Describe proposed method for demonstrating financial responsibility;
_____	_____	_____	<u>X</u>	d. Indicate any additional equipment and personnel needed to complete closure.
_____	_____	_____	<u>X</u>	e. Development and implementation of the water quality monitoring plan required in Rule 17-701.510, FAC.
_____	_____	_____	<u>X</u>	f. Development and implementation of routine gas monitoring program required in Rule 17-701-400(10)(c), FAC.
_____	_____	_____	<u>X</u>	6. Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (17-701.600(7), FAC)

O. CLOSURE PROCEDURES (17-701.610,FAC)

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	<u>X</u>	1. Survey monuments; (17-701.610(2),FAC)
—	—	—	<u>X</u>	2. Final survey report; (17-701.610(3),FAC)
—	—	—	<u>X</u>	3. Certification of closure construction completion; (17-701.610(4),FAC)
—	—	—	<u>X</u>	4. Declaration to the public; (17-701.610(5),FAC)
—	—	—	<u>X</u>	5. Official date of closing; (17-701.610(6),FAC)
<u>X</u>	<u>Fig 3</u>	—	—	6. Use of closed landfill areas; (17-701.610(7),FAC)

P. LONG TERM CARE REQUIREMENTS (17-701.620,FAC)

—	—	—	<u>X</u>	1. Right of property access requirements; (17-701.620(4),FAC)
—	—	—	<u>X</u>	2. Successors of interest requirements; (17-701.620(5),FAC)
—	—	—	<u>X</u>	3. Requirements for replacement of monitoring devices; (17-701.620(7),FAC)
—	—	—	<u>X</u>	4. Completion of long term care signed and sealed by professional engineer (17-701.620(8), FAC)

Q. FINANCIAL RESPONSIBILITY REQUIREMENTS (17-701.630,FAC)

<u>X</u>	<u>Section 3</u>	—	—	1. Provide cost estimated for closing, long term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (17-701.630(3)&(7), FAC).
<u>X</u>	<u>Section 3</u>	—	—	2. Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; (17-701.630(4)&(8), FAC).
<u>X</u>	<u>Section 3</u>	—	—	3. Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; (17-701.630(5), (6), & (9), FAC).

R. CLOSURE OF EXISTING LANDFILLS (17-701.640, FAC)

—	—	—	<u>X</u>	1. Demonstration that facility does not pose a bird hazard to aircraft as specified in Rule 17-701.320(12)(b), FAC
—	—	—	<u>X</u>	2. Demonstration that facility does not restrict the flow of the 100-year flood, reduce water storage capacity or result in wash-out of solid waste as specified in Rule 17-701.340(4)(b), FAC.

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
—	—	—	<u>X</u>	3. Demonstration that facility is not located in a fault area, seismic zone or unstable area as specified in Rule 17-701.420(1)(c), FAC
				4. Request for extension of closure criteria as specified in Rule 17-701.640(2)(a) & (2)(b), FAC.
—	—	—	<u>X</u>	a. Demonstration of no alternative disposal capacity.
—	—	—	<u>X</u>	b. Demonstration of no threat to human health or the environment.

S. MATERIALS RECOVERY FACILITY REQUIREMENTS (17-701.700, FAC) (Not applicable)

—	—	—	—	1. Proof of posting a performance bond payable to the Department to cover closing costs, if required; (17-701.700(4), FAC)
—	—	—	—	2. Materials recovery facility requirements; (17-701.700, FAC)
—	—	—	—	a. Submit information required in Rule 17-701.320, FAC
—	—	—	—	b. Submit an engineering report including following:
—	—	—	—	(1) Description of the solid waste proposed to be collected, stored, processed or disposed;
—	—	—	—	(2) Projection with assumptions for waste types and quantities expected in future years;
—	—	—	—	(3) Description of operation and functions of all processing equipment with design criteria and expected performance;
—	—	—	—	(4) Description of flow of solid waste, expected regular facility operations, procedures for startup and shut down, potential safety hazards and control methods including fire protection;
—	—	—	—	(5) Description of loading, unloading, and processing area;
—	—	—	—	(6) Identification and capacity of temporary on-site storage areas for materials handled and provisions for solid waste and leachate containment;
—	—	—	—	(7) Identification of potential ground water and surface water contamination;

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

(8) Plan for disposal of unmarketable recyclables and residue and contingencies for waste handling during breakdowns.

c. Submit the following operational information:

- (1) Operation and maintenance manual;
- (2) Waste control plan to manage unauthorized wastes;
- (3) Contingency plan for emergencies;
- (4) Closure plan including the following:
 - (a) Notification to Department 180 days prior to closure;
 - (b) Procedures for removal of all waste within 30 days of receipt of final waste;
 - (c) Completion of closure activities within 80 days of receipt of final waste and notification to the Department that closure is complete.

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

A. Applicant

The undersigned applicant or authorized representative of Citrus County, Florida is aware that statements made in this form and attached information are an application for a renewal to a closed 60-acre landfill long-term care Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Susan J Metcalfe

Signature of Applicant or Agent

Susan Metcalfe. Director Of Solid Waste Management Division.

Name and Title

Date: 5/22/98

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

B. Professional Engineer Registered in Florida or Public Officer as required in Section 403.707 and 403.707(5), Florida Statutes.

This is to certify that the engineering features of this solid waste management facility have been designed/examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

Kou-Roung Chang

Signature

3011 S.W. Williston Road
Mailing Address

Kou-Roung Chang, Ph.D, P.E.

Gainesville,

Name and Title (please type)

FL 32608
City, State, Zip Code

28438

(352) 335-7991

Florida Registration Number
(please affix seal)

Telephone Number

Date: 5/20/98

FAC 62-701 Permit Application Checklist

1.1 Executive Summary

This report provides the necessary documentation in accordance with Section 62-701 Florida Administrative Code (FAC) for the Florida Department of Environmental Protection (FDEP) to renew the FDEP Long-term Care Permit SF09-211030 for the closed 60-acre site at the Citrus County Central Landfill. A copy of the long-term care permit issued in 1993 and modified in 1994 is presented in Exhibits A.

1.1.1 Original Long-term Care Permit Application Report

A closed landfill long-term care permit application report entitled *Application for Permit Renewal for Long-term Care, Citrus County Central Landfill 60-acre Site Closure* Prepared Citrus County Department of Technical Services was submitted to FDEP in 1992 to support the long-term care permit renewal application. No change in the closure design and long-term care requirements presented in the report will be made for the continuing long-term maintenance of the closed 60-acre site.

1.1.2 Groundwater and Gas Monitoring Requirements Consolidated into Landfill Operation Permit

Because the groundwater and gas monitoring networks for the closed 60-acre site effectively monitors both the operating and closed portions of the landfill, in 1997 FDEP consolidated the groundwater and gas monitoring specific conditions into the landfill's operating permit, SO09-274381. A copy of the closed landfill long-term care permit modified in 1997 is presented in Exhibit B. A copy of the landfill's operating permit is presented in Exhibit C. No change in the permitted groundwater and gas monitoring plans will be made for the continuing long-term care of the closed 60-acre site.

1.1.3 Financial Assurance Cost Estimate and Escrow

In 1997 Citrus County updated the financial assurance cost estimates for the solid waste facility including the long-term care cost estimate for the closed 60-acre site. This cost estimate along with a report prepared by an independent auditor, Williams, McCranie, and Sutton, of Inverness, Florida, indicating that an escrow for landfill closure has been deposited with the State Board of Administration. Copies of the cost estimate and auditor's report are presented in Exhibit D.

1.1.4 Minor Modification for the Construction of Training Structure

On April 20, 1998, Citrus County submitted a minor modification application to the closed landfill long-term permit for the construction of a training structure at the firing range area on the southwest corner of the closed landfill. A copy of the minor permit modification application submitted to FDEP is presented in Exhibit E.

1.1.5 Inspection and Maintenance of Leachate Collection System

The 7-acre lined cell at the northeast section of the 60-acre closed landfill is the only section that has a leachate collection system. Exhibit F presents the history of inspection, jet cleaning, repairing, and leachate flow rates of the leachate collection system. FDEP has been informed of all of the repairing and maintenance.

The leachate flow rate recorded in late 1997 to early 1998 indicating that the leachate collection system continues to operate quite well. Leachate level measurements made on May 11, 1998 showed that the leachate level in the sumps was appropriate for the non-pumping condition. For the continuing long-term care of the landfill, Citrus County does not propose any changes or remedial action to the leachate collection, pumping, piping, or flow measurement systems for the 7-acre cell, except maybe replacing the flow meter.

1.1.6 Assessment of Effectiveness of Landfill Closure Design and Maintenance

On May 4, 1998 CH2M HILL engineers made a site visit to the closed 60-acre site to inspect the stormwater management system at the landfill. The drainage swales, energy dissipaters, retention ponds, culverts, cover grass, and access roads are generally in sound conditions. The closure design has effectively protected the cover system and controlled the stormwater runoff. A report assessing the effectiveness of the closure design is presented in Exhibit G.

1.1.7 Anticipated Future Land Use

Citrus County originally proposed a land use plan for the 60-acre site including entrance road, staff office, equipment storage and maintenance buildings, sprayfield for effluent from the leachate treatment plant, soil stockpile, citizen waste and recycling drop-off facilities, and yard waste mulching area. Because of the changes in proposed uses and facility locations on the active landfill site, improvements in leachate treatment and changes in FDEP rule, some of those uses appear to be less likely.

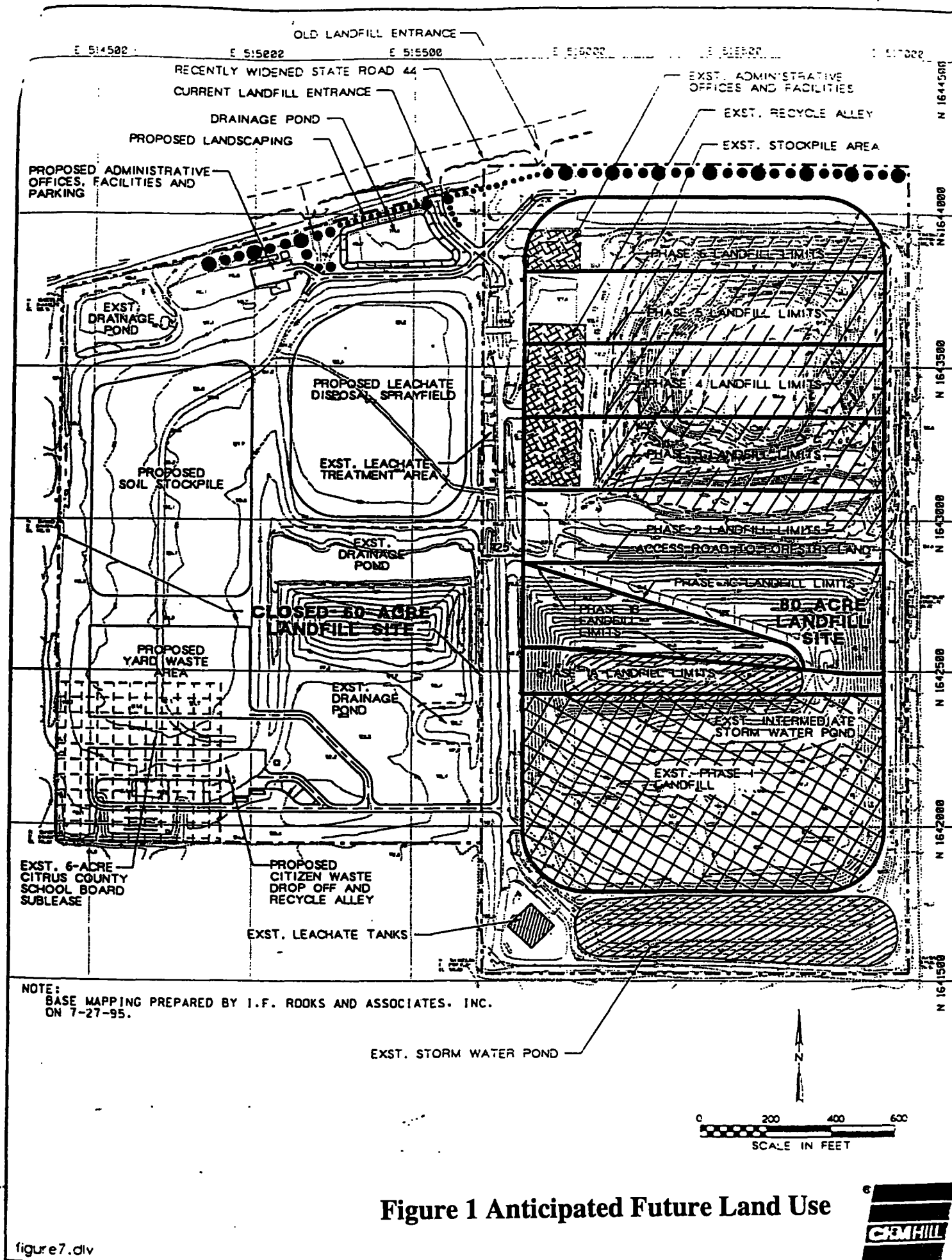
Figure 1 shows the updated version of the proposed land use for 60-acre site. The most likely uses for the site are yard waste mulching and soil stockpiling. Neither of these plans is anticipated to occur within the next few years. FDEP will be contacted for comments and approval prior to implementing the plan.

Non-implementation of the treated leachate spray field was due to improvements in the treatment plant facilities and operations, which reduced nitrate and ammonia in the effluent.

If use of the active landfill site follows the Phase 1, 1A, 1B, 1C track, rather than the Phase 1, 1A through Phase 6 plan, the current citizen waste and recycling drop-off should be able to be retained in its current position, rather than on the 60-acre site as originally proposed. Phase 1A has been constructed. Within one to five years, the Board will make a decision on future landfill use.

If changes in the proposed active landfill construction plans are carried out (Phase 1-1C or Phase 1-Phase "less than 6"), that decision will allow staff and equipment buildings to be placed on the 80-acre parcel rather than in the 60-acre site.

If a transfer station is constructed on the active landfill site as an alternate to continued landfilling, the existing facilities can remain on the 80-acre site. However, it is possible that



an additional soil stockpile area may be needed at that time. A decision by the Board on the alternate is expected within the one-to five-year time frame.

If FDEP changes the rules on yard waste handling to require full composting rather than the current requirement to mulch the trimmings, the County will require additional area for that. It is anticipated that the 60-acre site would be suitable for that use.

1.2 Checklist (FDEP Form 17-701.900(1))

1.2.1 Part A - General Information and Part B - Disposal Facility General Information

The information for Parts A and B of this permit application have been included on the Permit Application Form (FDEP Form 17-701.900(1)) included at the end of this section.

1.2.2 Part C - Volume Reduction Facility General Information

Part C of the Permit Application Form does not apply and has been noted as "Not Applicable" on the Permit Application Form.

1.2.3 Part D - Solid Waste Management Facility Permit General Requirements (62-701.320, FAC)

Part D is presented in section 2 of the permit application report.

1.2.4 Part E - Landfill Permit General Requirements (62-701.340, FAC)

Part E is not applicable for closed landfill long-term care permit renewal application.

1.2.5 Part F - General Criteria for Landfills (62-701.340, FAC)

Part F is not applicable for closed landfill long-term care permit renewal application.

1.2.6 Part G - Landfill Construction Requirements (62-701.400, FAC)

Part G is not applicable for closed landfill long-term care permit renewal application.

1.2.7 Part H - Hydrogeological Investigation Requirements (62-701.410, FAC)

Part H is not applicable for closed landfill long-term care permit renewal application.

1.2.8 Part I - Geotechnical Investigation Requirements (62-701.420, FAC)

Part I is not applicable for closed landfill long-term care permit renewal application.

1.2.9 Part J - Vertical Expansion of Landfills (62-701.430, FAC)

Part J is not applicable for closed landfill long-term care permit renewal application.

1.2.10 Part K - Landfill Operation Requirements (62-701.500, FAC)

Part K is not applicable for closed landfill long-term care permit renewal application.

1.2.11 Part L - Water Quality and Leachate Handling Requirements (62-701.510, FAC)

Part L was submitted and permitted in the landfill operation permit. A copy of the operation permit is presented in Exhibit C. No change in the permitted groundwater and leachate monitoring program will be made in the long-term care of the closed 60-acre site.

1.2.12 Part M - Special Waste Handling Requirements (62-701.520, FAC)

Part M is not applicable for closed landfill long-term care permit renewal application.

1.2.13 Part N - Landfill Final Closure Requirements (62-701.600, FAC)

Part N was submitted to FDEP in the closed landfill long-term care permit application report (1992). No change will be made to the permitted closure design and long-term care requirements.

1.2.14 Part O - Closure Procedures (62-701.610, FAC)

Part P - Long-Term Requirements (62-701.620, FAC)

Parts O and P were submitted to FDEP in the closed landfill long-term care permit application report (1992). No change will be made to the permitted closure design and long-term care requirements.

1.2.15 Part Q - Financial Responsibility Requirements (62-701.630, FAC)

The regulatory financial responsibility cost estimates (for-FY-97) is presented in Exhibit E.

1.2.16 Part R - Closure of Existing Landfills (62-701.640, FAC)

Part R is not applicable for closed landfill long-term care permit renewal application.

1.2.17 Part S - Materials Recovery Facility (62-701.700, FAC)

Part S is not applicable for closed landfill long-term care permit renewal application.

1.2.18 Part T - Certification by Applicant and Engineer or Public Officer

The certification is provided at the end of the permit application form.

SECTION 2.0

Part D - Solid Waste Management Facility Permit General Investigation 62-701.320, FAC)

2.1 Permit Applications Copies (62-701.320(5)(a), FAC)

Six copies of the closed landfill long-term care permit renewal application report, including all supporting data, are submitted herein.

2.2 Certification (62-701.320(6), FAC)

Appropriate professional certifications are provided on all applicable submittals herein.

2.3 Transmittal Letter (62-701.320(7)(b), FAC)

A transmittal letter to FDEP is submitted herein.

2.4 FDEP Form (62-701.900(1), FAC)

A completed, dated, and signed application form is included at the end of Section 1.0 of this report.

2.5 Permit Application Fee

The permit application fee is submitted herein.

2.6 Engineering Report (62-701.320(7)(d), FAC)

The Engineering Report is contained in the accompanying 2 sections of this document, and in Exhibits A through H.

2.7 Operation Plan (62-701.320(7)(e), FAC)

This section is not applicable to closed landfill long-term care permit renewal application

2.8 Contingency Plan (62-701.320(7)(e)2, FAC)

This section is not applicable to closed landfill long-term care permit renewal application

2.9 Drawings for the Solid Waste Management Facilities

This section is not applicable to closed landfill long-term care permit renewal application

2.10 Proof of Property Ownership (62-701.320(7)(g), FAC)

The closed 60-acre site was leased from Florida Department of Agriculture and Consumer Services, Division of Forestry. A leasing agreement between Florida Department of Agriculture and Citrus County is presented in Exhibit H.

2.11 Recycling Goal Achievement (62-701.320(7)(h), FAC)

This section is not applicable to closed landfill long-term care permit renewal application

2.12 History of FDEP Enforcement Activities (62-701.320(7)(i), FAC)

There have been no consent orders or notices of violations issued for the site.

2.13 Proof of Publication of Landfill Permit Applications (62-702.320(8), FAC)

This section is not applicable to closed landfill long-term care permit renewal application

2.14 Airport Safety Requirements (62-701.320(12), FAC)

This section is not applicable to closed landfill long-term care permit renewal application

SECTION 3.0

Part Q - Financial Responsibility Requirements (62-701.630, FAC)

3.1 Cost Estimates for Closing, Long-Term Care, and Corrective Action Costs

The cost estimates for closed 60-acre site long-term care is presented in Exhibit D.

3.2 Procedures for Providing Annual Cost Adjustments to FDEP Based on Inflation and Changes in the Closing, Long-Term Care, and Corrective Action Plans

Citrus County will annually adjust the cost estimates for inflation and changes in the corrective action plan, if applicable, in accordance with Rule 62-701.510(7), FAC. The adjusted cost estimates will be submitted to FDEP along with certification of the long-term care escrow account status.

3.3 Funding Mechanisms for Providing Proof of Financial Assurance

In 1997 Citrus County updated the financial assurance cost estimates for the solid waste facility including the long-term care cost estimate for the closed 60-acre site. This cost estimate along with a report prepared by an independent auditor, Williams, McCranie, and Sutton, of Inverness, Florida, indicating that an escrow for landfill closure has been deposited with the State Board of Administration. Copies of the cost estimate and auditor's report are presented in Exhibit D.

Exhibit A

**Closed 60-acre Site Long-term Care Permit Issued in 1993 and
Modified in 1994**



Lawton Chiles
Governor

BEST AVAILABLE COPY
Florida Department of
Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

Citrus County
Department of Technical Services
Mr. James Pinkerton, P.E., Director
Post Office Box 340
Lecanto, Florida 34460-0340

SEP 24 1993

Re: Citrus County Central Landfill Long-Term Care

Dear Mr. Pinkerton:

Enclosed is Permit Number SF09-211030, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

SJM
9/30
file

PERMITTEE

Citrus County
Department of Technical Services
Mr. James Pinkerton, P.E., Director
Post Office Box 340
Lecanto, Florida 34460-3440

PERMIT/CERTIFICATION

GMS ID No: 4009C00086
Permit No: SF09-211030
Date of Issue: SEP 24 1993
Expiration Date: 09/1/98
County: Citrus
Lat/Long: 28°51'N
82°26'W
Sec/Town/Rge: 1/19S/18E
Project: Citrus County Central
Landfill Long-Term Care

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-25, 17-522, 17-550, and 17-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with department and made a part hereof and specifically described as follows:

To provide long-term care, maintenance and groundwater monitoring for (approximately 60 acres), referred to as the Closed Citrus County Central Landfill, subject to the specific conditions attached. The site is located near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

Replaces Permit No.: SO09-111795

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

This permit replaces the permit that was issued on March 12, 1993 and petitioned by Citrus County on April 5, 1993. All petitioned conditions have been resolved and on August 6 1993, after receiving a Notice to Relinquish Jurisdiction, the assigned hearing officer issued an order closing the file of the Division of Administrative Hearings and relinquishing jurisdiction back to the Department.

PERMIT NO: SF09-211030

1

- 1.

SPECIFIC CONDITIONS:

5. In the event of damage to any portion of the closed landfill or related facilities, the permittee shall immediately notify the Department of Environmental Regulation explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be made within one week following the occurrence.
6. The site shall continue to have a surface water management system operated and maintained to prevent surface water flow onto the facility site, and a stormwater runoff control system operated and maintained to collect and control stormwater as indicated in the original approved stormwater management plans. Any significant modification of the approved stormwater design must be resubmitted to the Department for approval prior to implementation.
7. The site shall be properly maintained including erosion control, maintenance of grass cover, prevention of ponding, and gas venting system repairs.
8. The Groundwater Monitoring System is designed and constructed in accordance with the plans submitted on March 27, 1992 by Citrus County Department of Technical Services, and the additional information submitted May 27, June 25, August 10, October and December 15, 1992, and January 11, 1993.
9. All field and laboratory work done in connection with your routine groundwater monitoring shall be conducted by a firm possessing a Generic Quality Assurance Project Plan or a Comprehensive Quality Assurance Plan approved by the Department. The Quality Assurance Plan must specifically address the sampling and analytical work that is required by the permit. The Quality Assurance Plan shall be required from all persons performing sampling or analysis, and shall be followed by all persons collecting or analyzing samples related to this permit. Documentation of an approved Quality Assurance Plan shall be submitted annually to the Department with the first groundwater sampling report for each year. Documentation shall include the completed signature page and the table of contents of the approved plan.
10. The groundwater monitoring wells are located as follows:
- | Well Number | Aquifer | Location |
|-------------|---|-----------------------|
| B-1 | Floridan(background) | see Figure 5 attached |
| MW-A | Floridan(detection) | " |
| MW-B | Floridan(background) | " |
| MW-C | Floridan(detection) | " |
| MW-D | Floridan(former supply well, detection) | " |

All wells are to be clearly labelled and easily visible at all times.

SPECIFIC CONDITIONS:

By October 1, 1993, after issuance of this permit, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) in degrees, minutes and seconds of latitude and longitude, the Universal Transverse Mercator coordinates, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification number, location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor.

11. Well construction details for wells MW-A and MW-B shall be provided by October 1, 1993. The County has proposed to videotape these wells because no well construction details are available and there are concerns for the integrity of wells MW-A and MW-B.

12. One new well will be installed downgradient from monitoring well MW-A after four (4) quarters groundwater elevations have been obtained from the site wells MW-A, MW-B, MW-C, MW-D, B-1, B-2 and B-3. Monitor wells MW-A, MW-B, MW-C and MW-D shall be converted to allow reliable water level data to be collected. The permittee shall propose the well's location and construction to the Department by June 1, 1994 after the last quarterly water level monitoring date.

13. All wells were sampled for the Primary and Secondary Drinking Water parameters included in 17-550.310 and 17-550.320, F.A.C. and the data submitted to the Department on August 30, 1993. The permittee shall ensure that the groundwater monitoring system adequately monitors the existing site.

14. Within ninety (90) days after completion of any new wells the following information shall be provided:

Well identification	Driller's Log
Latitude/Longitude	Total depth of well
Aquifer monitored	Casing diameter
Screen Type and slot size	Casing type and length
Screen length	SWFWMD well construction
Well seal and filter pack	permit numbers
type and thickness	
Elevation at top of pipe	
Elevation at land surface	

15. All piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with FAC Rule 17-532.500(4), and the Southwest Florida Water Management District. The permittee shall submit a written report to the Department providing verification of the plugged program. A written request for exemption to the plugging of a well must be submitted to the Department's Solid Waste Section for approval.

SPECIFIC CONDITIONS:

16. All detection wells and background wells listed in Specific Condition No. 10 shall be sampled and analyzed quarterly for the ground water indicator parameters listed as follows:

Ground water indicator parameters:	
<u>Field parameters</u>	<u>Laboratory parameters</u>
Static water level in wells before purging	Ammonium (NH ₄)
Specific conductivity	Arsenic
pH	Bicarbonate
Dissolved oxygen	Cadmium
turbidity	Chlorides
Temperature	Chromium
Colors and sheens	Iron
	Lead
	Mercury
	Nitrate
	Sodium
	Total dissolved solids (TDS)
	Total organic carbon (TOC)
	EPA 601/602 Analytes

Additional samples, wells, and parameters may be required based upon subsequent analysis.

17. If at any time background groundwater standards are exceeded at the detection wells, the permittee has fifteen (15) days after the sampling data is received in which to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current groundwater conditions at the facility. If the exceedance of groundwater standards in the detection wells is confirmed, then assessment monitoring shall be initiated as detailed in Specific Condition No. 23.

18. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department of Environmental Regulation immediately. A detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation and shall require a permit modification.

19. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Chapters 17-4.246 and 17-3.401, F.A.C. Approved methods are published by the Department or as published in Standards Methods, A.S.T.M., or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

SPECIFIC CONDITIONS:

20. All groundwater monitoring analyses shall be reported on the Department Quarterly Report on Groundwater Monitoring Form 17-1.216(2). The permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis, no later than the fifteenth (15) day of the month immediately following the end of the sampling period. The results shall be sent to the Solid Waste Section, Department of Environmental Regulation, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8313.

21. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Sections 17-3.402 and 17-3.404, F.A.C. The zone of discharge shall extend horizontally to the property line or one hundred (100) feet beyond the waste management area, whichever is less.

22. Annually and prior to ninety (90) days before the expiration of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan. This plan shall include, at a minimum, an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination, specifically:

- A summary and trend analysis of parameters that have exceeded the groundwater standards for G-II groundwater listed in F.A.C. 17-520.420.

- A plot of water level elevations for the past year for each well.

- Groundwater elevation maps for the highest and lowest elevations of the Floridan aquifer as measured at the site.

- The plan must be signed and sealed by a professional geologist or engineer as defined by Florida Statutes 472 and 471, respectively.

Any groundwater contamination that may exist, shall be addressed as part of a groundwater investigation for the landfill assessment. The Groundwater Monitoring Plan shall be adequate to monitor any modifications to the existing landfill site including but not limited to closure.

23. If indicator parameters (listed in Specific Condition No. 16) are detected in detection wells in concentrations which are significantly above background water quality, or which are at levels above the Department's water quality standards or criteria specified in Chapter 17-520, F.A.C., the permittee shall resample the wells within 15 days after the sampling data is received, to confirm the data. If the data is confirmed, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate assessment monitoring as follows:

- (1) Routine monitoring of all monitoring wells according to this permit.

SPECIFIC CONDITIONS:

(2) Within 90 days of initiating assessment monitoring and annually thereafter, the permittee shall sample and analyze a representative sample of the background wells and all affected detection wells for the parameters listed in Specific Condition No. 13. Any new parameters detected and confirmed in the affected downgradient wells shall be added to the routine ground water monitoring parameter listed in Specific Condition No. 16.

(3) Within 90 days of initiating assessment monitoring, the permittee shall install and sample compliance monitoring wells at the compliance line of the zone of discharge and downgradient from the affected detection monitoring wells. Well location and construction shall be submitted to the Department and approved by the Department prior to well installation. Samples from the new wells shall be analyzed for the parameters listed in Specific Condition No. 13.

(4) Within 180 days of initiating assessment monitoring, the permittee shall submit a contamination assessment plan to the Department. This plan shall be designed to delineate the extent and cause of the contamination, to predict the likelihood that Department water quality standards will be violated outside the zone of discharge, and to evaluate methods to prevent any such violations. Upon approval by the Department, the permittee shall implement this plan and submit a contamination assessment report in accordance with the plan. All reasonable efforts shall be made by the permittee to prevent further degradation of water quality from the landfill activities.

(5) If for two consecutive sampling events the concentrations of all indicator parameters and the parameters listed in Specific Condition No. 16 are at or below background values, the permittee, upon approval by the Department, may discontinue assessment monitoring and return to routine monitoring.

24. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 17-701. All costs for long-term care shall be adjusted and submitted annually to: Solid Waste Manager, Solid Waste Section, Department of Environmental Regulation, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted annually to: Financial Coordinator, Solid Waste Section, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

25. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

26. Prior to 90 days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

PERMIT NO: SF09-211030

27. The permittee shall be aware of and operate under the attached "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

EXECUTED in Tampa, Florida.

Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

Citrus County
Mr. James Pinkerton, P.E., Director Page Two

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

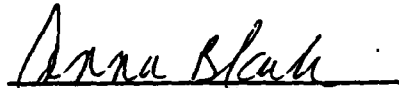
KBF/ab
Attachment

cc: Anthony Shoemaker, Citrus County
W.R. Helm, Jr., Chief, Division of Forestry
Bill Korn, Division of Forestry
Kathy Anderson, FDER Tallahassee
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were
mailed before the close of business on SEP 24 1993 to the listed
persons.

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant
the designated Department,
Clerk, receipt of which is
hereby acknowledged.


Clerk

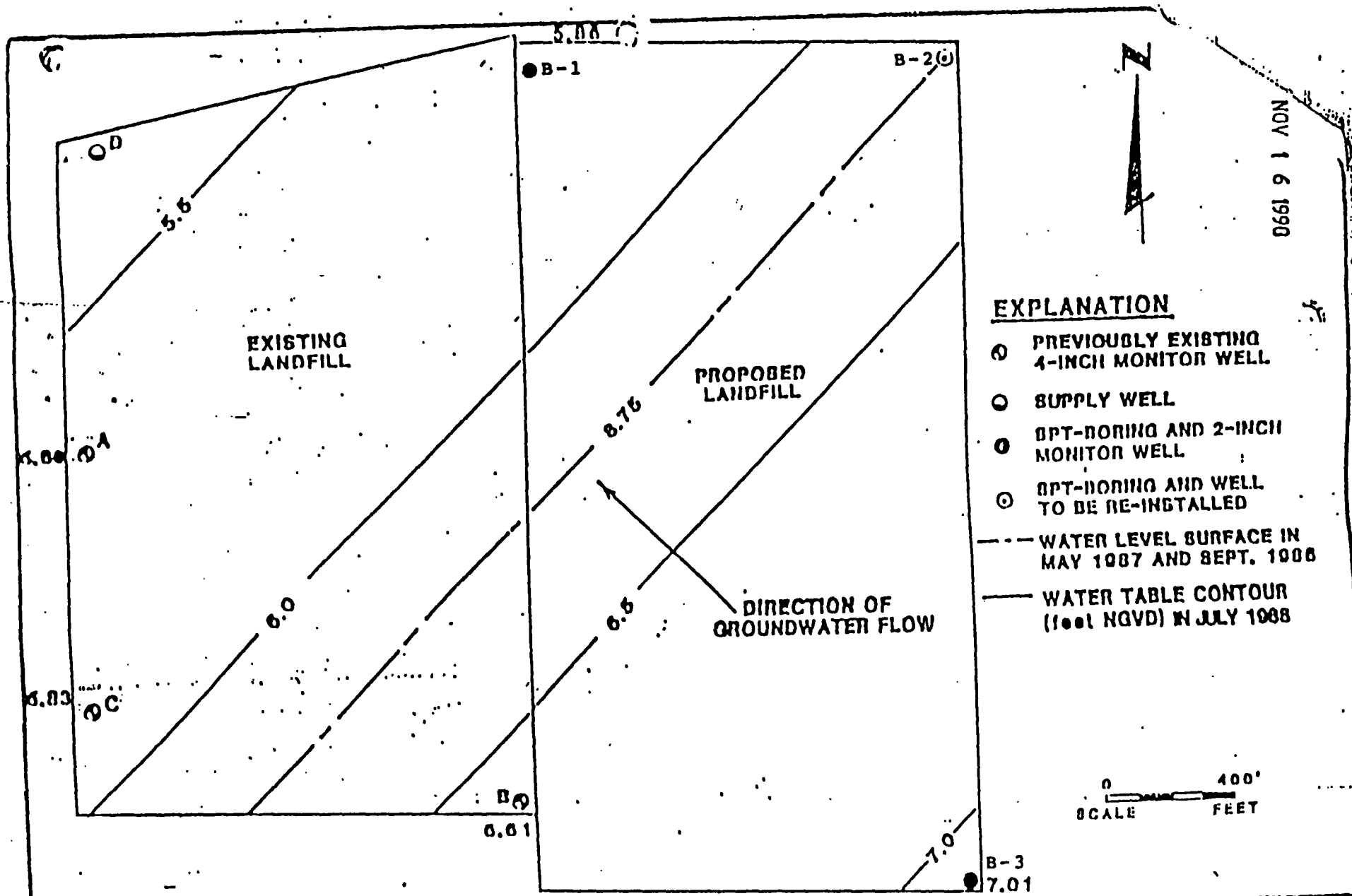
SEP 24 1993
Date

ATTACHMENT 1

PERMITTEE: CITRUS COUNTY DEPARTMENT OF TECHNICAL SERVICES
CITRUS COUNTY CENTRAL LANDFILL LONG-TERM CARE
PERMIT NO.: SF09-211030

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
3	November 1, 1993	Construction completed and certified with record drawings
4	March 1/Annually	Gas monitoring
9	With 1st groundwater report of each year/ Annually	Documentation of approved QAP including signature page and table of contents
10	October 1, 1993	Surveyed Well Drawing
11	October 1, 1993	Well Construction Details for MW-A and MW-B.
12	June 1, 1994	New well construction/ location proposal
14	Within 90 days after completion	Well completion information
16	Quarterly	Wells sampled/analyzed
22	Annually and prior to June 1, 1998	Evaluation of groundwater monitoring plan
24	Annually	Long-Term Care Estimates adjusted
24	Annually	Proof of financial assurance funding
26	Prior to June 1, 1998 (90 days before expiration)	Apply for renewal of permit

NOV 16 1990





Department of Environmental Protection

Lawton Chiles
Governor

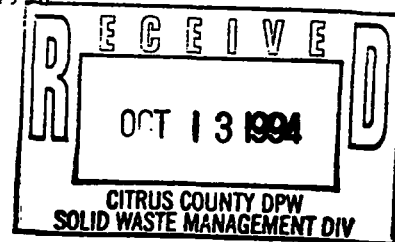
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

OCT - 7 1994

Citrus County
Board of County Commissioners
110 North Apopka Avenue
Inverness, Florida 34450



Dear County Commissioners:

Enclosed is the modification #258032 to existing Permit Number SF09-211030, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

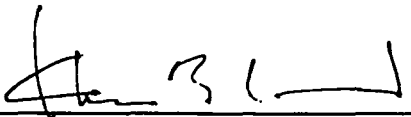
When the Order (Permit) is final, any party to the Department has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Citrus County
Board of County Commissioners
Permit No.: SF09-211030

OCT - 7 1994
Page Two

Executed in Tampa Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

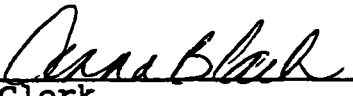
KBF/ab
Attachment

cc: Frank Schiraldi, Chairman, Citrus County BCC
Gary Kuhl, P.E., Citrus County
Susan Metcalfe, P.G., Citrus County Dept. of Solid Waste
Jon Blanchard, Division of Forestry
Kathy Anderson, FDEP Tallahassee
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on OCT - 7 1994 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.



Clerk

OCT - 7 1994

Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

OCT - 7 1994

PERMITTEE

Citrus County
Board of County Commissioners
110 North Apopka Avenue
Inverness, Florida 34450

**RE: Modification to existing permit
Permit No. SF09-211030, Citrus County
Citrus County Central Landfill Long-Term Care**


Dear County Commissioners:

We are in receipt of your September 20, 1994 request for permit modification #258032 to modify your solid waste permit #SF09-211030.

<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#3	Existing	Amended	Gas Monitoring Wells

This letter and its attachments constitute a complete permit and replace all previous permits and permit modifications for the above referenced facility.

Sincerely,


for Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

RDG/kbfb
Attachments

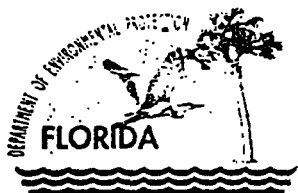
PERMIT NO.: SF09-211030

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

Page 2 of 13.



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE
Citrus County
Board of County Commissioners
110 North Apopka Avenue
Inverness, Florida 34450

PERMIT/CERTIFICATION
GMS ID No: 4009C00086
Permit No: SF09-211030
Date of Issue: 09/24/93
Expiration Date: 09/1/98
County: Citrus
Lat/Long: 28°51'N
82°26'W
Sec/Town/Rge: 1/19S/18E
Project: Citrus County
Central Landfill
Long-Term Care

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-3, 17-4, 17-25, 17-522, 17-550, and 17-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To provide long-term care, maintenance and groundwater monitoring for (approximately 60 acres), referred to as the Closed Citrus County Central Landfill, subject to the specific conditions attached. The site is located near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

Replaces Permit No.: S009-111795

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

This permit replaces the permit that was issued on March 12, 1993 and petitioned by Citrus County on April 5, 1993. All petitioned conditions have been resolved and on August 6, 1993, after receiving a Notice to Relinquish Jurisdiction, the assigned hearing officer issued an order closing the file of the Division of Administrative Hearings and relinquishing jurisdiction back to the Department.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central PERMIT NO.: SF09-211030
Landfill Long-Term Care

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

SPECIFIC CONDITIONS:

1. This landfill site is classified as a closed Class I landfill. Long-term care, maintenance, and groundwater monitoring shall be provided in accordance with all applicable requirements of Chapters 17-4, 17-25, 17-522, 17-550, and 17-701, Florida Administrative Code. Any construction on the closed landfill shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Construction does not include routine maintenance.

2. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this closed landfill. Such control shall prevent the creation of these nuisance conditions on adjoining property. Complaints received from the general public and confirmed by Department personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

3. The installation of the gas monitoring wells and warning signs submitted by Citrus County on September 20, 1994 shall be completed by November 1, 1994. Any construction not previously approved as part of this permit shall require a separate Department permit unless the department determines a permit modification to be more appropriate. After all significant initial construction of the site or facility components have been completed, the engineer or the authorized public officer shall complete a Certification of Construction Completion, Department Form 17-701.900(2), and contact the Department to arrange for a Department representative to inspect the facility in the company of the permittee, the engineer, and the proposed on-site facility operator. The inspection is to ensure that the site or facility components have been developed in accordance with the approved permit. Certification and Record Drawings shall be submitted to the Department within sixty (60) days after the completion of construction.

Amended _____.

4. Gas monitoring shall be provided annually and shall include monitoring of the site along the landfill boundary and monitoring in and adjacent to all on-site structures. Test results shall be provided as a percent of the lower explosive limit (LEL). Test locations shall be shown on a drawing and described in a report. The report shall provide professional conclusions and recommendations regarding the adequacy of the existing gas venting and protective measures. The report shall be provided by March 1 of each year. Evidence of methane gas buildup or migration may necessitate installation of additional measures to control such buildup and/or migration.

SPECIFIC CONDITIONS:

5. In the event of damage to any portion of the closed landfill or related facilities, the permittee shall immediately notify the Department of Environmental Regulation explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be made within one week following the occurrence.

6. The site shall continue to have a surface water management system operated and maintained to prevent surface water flow onto the facility site, and a stormwater runoff control system operated and maintained to collect and control stormwater as indicated in the original approved stormwater management plans. Any significant modification of the approved stormwater design must be resubmitted to the Department for approval prior to implementation.

7. The site shall be properly maintained including erosion control, maintenance of grass cover, prevention of ponding, and gas venting system repairs.

8. The Groundwater Monitoring System is designed and constructed in accordance with the plans submitted on March 27, 1992 by Citrus County Department of Technical Services, and the additional information submitted May 27, June 25, August 10, October and December 15, 1992, and January 11, 1993.

9. All field and laboratory work done in connection with your routine groundwater monitoring shall be conducted by a firm possessing a Generic Quality Assurance Project Plan or a Comprehensive Quality Assurance Plan approved by the Department. The Quality Assurance Plan must specifically address the sampling and analytical work that is required by the permit. The Quality Assurance Plan shall be required from all persons performing sampling or analysis, and shall be followed by all persons collecting or analyzing samples related to this permit. Documentation of an approved Quality Assurance Plan shall be submitted annually to the Department with the first groundwater sampling report for each year. Documentation shall include the completed signature page and the table of contents of the approved plan.

10. The groundwater monitoring wells are located as follows:

Well Number	Aquifer	Location
B-1	Floridan(background)	see Figure 5 attached
MW-A	Floridan(detection)	
MW-B	Floridan(background)	
MW-C	Floridan(detection)	
MW-D	Floridan(former supply well, detection)	

SPECIFIC CONDITIONS:

All wells are to be clearly labeled and easily visible at all times.

By October 1, 1993, after issuance of this permit, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) in degrees, minutes and seconds of latitude and longitude, the Universal Transverse Mercator coordinates, and the elevation of the top of the well casing to the nearest .01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification number, location and elevation of all permanent benchmarks) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor.

11. Well construction details for wells MW-A and MW-B shall be provided by October 1, 1993. The County has proposed to videotape these wells because no well construction details are available and there are concerns for the integrity of wells MW-A and MW-B.

12. One new well will be installed downgradient from monitoring well MW-A after four (4) quarters groundwater elevations have been obtained from the site wells MW-A, MW-B, MW-C, MW-D, B-1, B-2 and B-3. Monitor wells MW-A, MW-B, MW-C and MW-D shall be converted to allow reliable water level data to be collected. The permittee shall propose the well's location and construction to the Department by June 1, 1994 after the last quarterly water level monitoring date.

13. All wells were sampled for the Primary and Secondary Drinking Water parameters included in 17-550.310 and 17-550.320, F.A.C. and the data submitted to the Department on August 30, 1993. The permittee shall ensure that the groundwater monitoring system adequately monitors the existing site.

14. Within ninety (90) days after completion of any new wells the following information shall be provided:

Well identification
Latitude/Longitude
Aquifer monitored
Screen Type and slot size
Screen length
Well seal and filter pack
type and thickness
Elevation at top of pipe
Elevation at land surface

Driller's Log
Total depth of well
Casing diameter
Casing type and length
SWFWMD well construction
permit numbers

PERMIT NO.: SF09-211030

15. All piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with FAC Rule 17-532.500(4), and the Southwest Florida Water Management District. The permittee shall submit a written report to the Department providing verification of the plugged program. A written request for exemption to the plugging of a well must be submitted to the Department's Solid Waste Section for approval.

Groundwater indicator	parameters:
<u>Field parameters</u>	<u>Laboratory Parameters</u>
Static water level in wells	Ammonium (NH ₄)
before purging	Arsenic
Specific conductivity	Bicarbonate
pH	Cadmium
Dissolved oxygen	Chlorides
turbidity	Chromium
Temperature	Iron
Colors and sheens	Lead
	Mercury
	Nitrate
	Sodium
	Total dissolved solids (TDS)
	Total organic carbon (TOC)
	EPA 601/602 Analytes

17. If at any time background groundwater standards are exceeded at the detection wells, the permittee has fifteen (15) days after the sampling data is received in which to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current groundwater conditions at the facility. If the exceedance of groundwater standards in the detection wells is confirmed, then assessment monitoring shall be initiated as detailed in Specific condition No. 23.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central
Landfill Long-Term Care

PERMIT NO.: SF09-211030

SPECIFIC CONDITIONS:

18. If any monitoring well becomes damaged or inoperable, the permittee shall notify the Department of Environmental Regulation immediately. A detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent the recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation and shall require a permit modification.

19. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with Chapters 17-4.246 and 17-3.401, F.A.C. Approved methods are published by the Department or as published in Standards Methods, A.S.T.M., or EPA methods shall be used. Approved methods for chemical analyses are summarized in the Federal Register, December 1, 1976 (41FR52780) except that turbidity shall be measured by the Nephelometric Method.

20. All groundwater monitoring analyses shall be reported on the Department Quarterly Report on Groundwater Monitoring Form 17-1.216(2). The permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis, no later than the fifteenth (15) day of the month immediately following the end of the sampling period. The results shall be sent to the Solid Waste Section, Department of Environmental Regulation, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8313.

21. The permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to Sections 17-3.402 and 17-3.404, F.A.C. The zone of discharge shall extend horizontally to the property line or one hundred (100) feet beyond the waste management area, whichever is less.

22. Annually and prior to ninety (90) days before the expiration of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan. This plan shall include, at a minimum, an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination, specifically:

· A summary and trend analysis of parameters that have exceeded the groundwater standards for G-II groundwater listed in F.A.C. 17-520.420.

A plot of water level elevations for the past year for each well.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central PERMIT NO.: SF09-211030
Landfill Long-Term Care

SPECIFIC CONDITIONS:

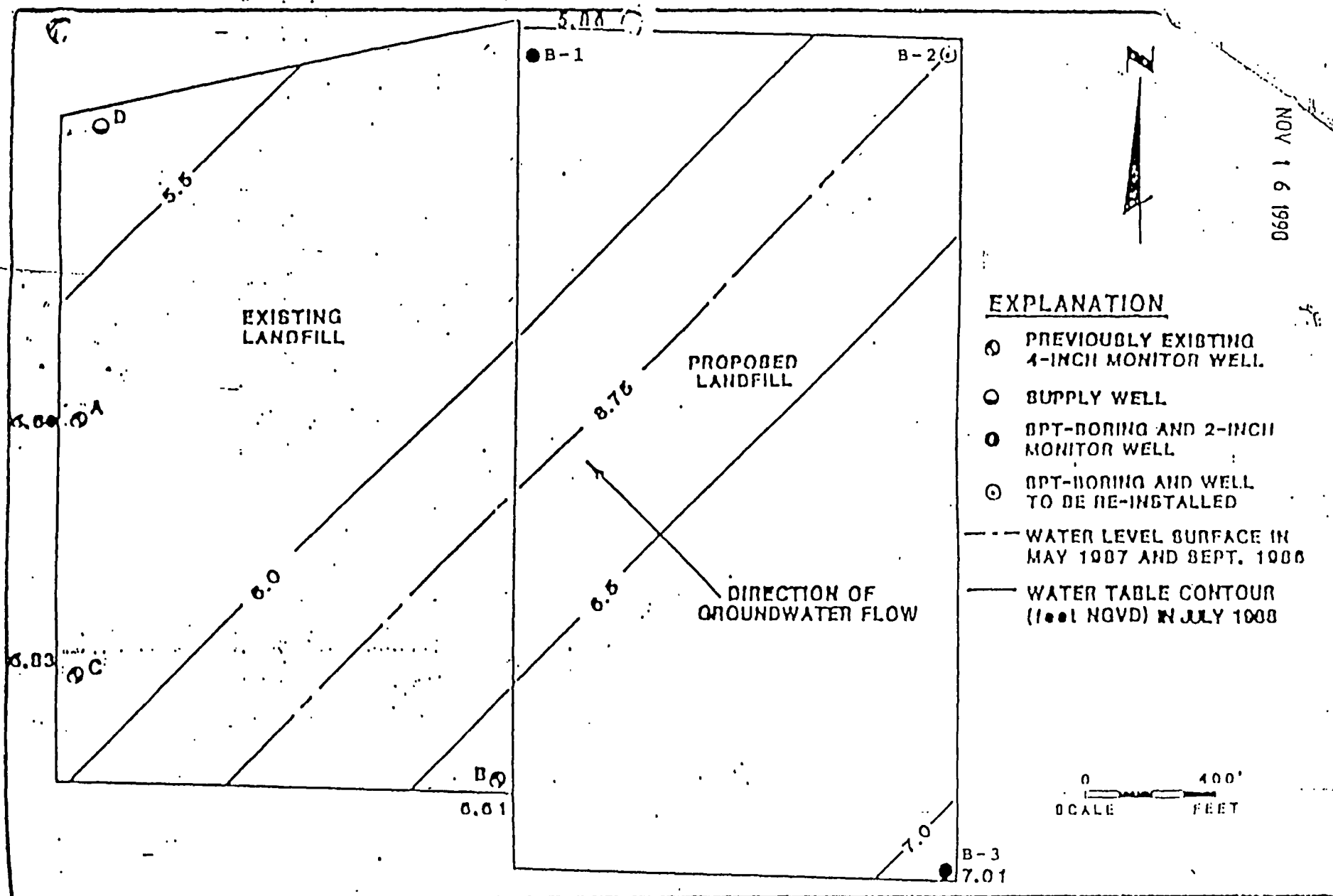
28. By acceptance of this Permit, the permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

ATTACHMENT 1

**PERMITTEE: CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
CITRUS COUNTY CENTRAL LANDFILL LONG-TERM CARE
PERMIT NO.: SF09-211030**

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
3	November 1, 1994	Construction completed and certified with record drawings
4	March 1/Annually	Gas monitoring
9	With 1st groundwater report of each year/ Annually	Documentation of approved QAP including signature page and table of contents
10	October 1, 1993	Surveyed Well Drawing
11	October 1, 1993	Well Construction Details for MW-A and MW-B.
12	June 1, 1994	New well construction/ location proposal
14	Within 90 days after completion	Well completion information
16	Quarterly	Wells sampled/analyzed
22	Annually and prior to June 1, 1998	Evaluation of groundwater monitoring plan
24	Annually	Long-Term Care Estimates adjusted
24	Annually	Proof of financial assurance funding
26	Prior to June 1, 1998 (90 days before expiration)	Apply for renewal of permit

NOV 16 1990



POST, BUCKLEY, SCHUH & JERNIGAN, INC.

CITRUS COUNTY LANDFILL SITE MAP
 SHOWING WELL LOCATIONS AND WATER LEVEL CONTOURS

FIGURE 5



Department of Environmental Protection

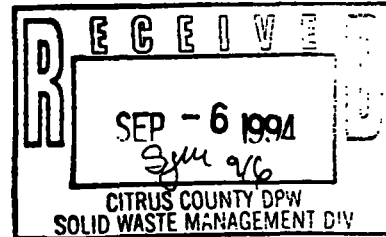
Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

September 2, 1994

Ms. Susan Metcalfe, P.G.
Solid Waste Management
Citrus County
Post Office Box 340
Lecanto, FL 34460-0340



Re: 7 Acre Disposal Unit
Permit #SF09-211030, Citrus County
Construction Certification

response 9/8

Dear Ms. Metcalfe:

The construction certification for regrading the closed 7-acre disposal unit is not approved. The site visit on September 1, 1994 revealed the following:

1. Grass was growing very sparsely and did not exist over much of the top slope. Very tall weeds are growing over much of the surface.

Seed and mulch should be properly applied or the surface sodded. Tall weeds should be cropped.

Please resubmit certification of construction completion following project completion. If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Gary Kuhl, P.E., Citrus County
Michael Moore, P.E., Citrus County
Robert Butera, P.E., FDEP Tampa
Steve Morgan, FDEP Tampa



Lawton Chiles
Governor

Florida Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619
813-744-6100

Virginia B. Wetherell
Secretary

March 8, 1994

Ms. Susan Metcalfe, P.G.
Citrus County
Solid Waste Management
P O Box 340
Lecanto, FL 34460-3440

Re: 7-Acre Regrade, Citrus County Landfill
Permit No.: SF09-211030

Dear Ms. Metcalfe:

The construction certification for regrading the closed 7-acre disposal area is not approved. The site visit on February 17, 1994 revealed the following:

1. Contours shown on the record drawings do not match the approved design drawings.
2. Mulch was spread over portions of the top in different thicknesses and did not appear to promote vegetation.
3. Grass was growing very sparsely and did not exist over much of the top slope.

The "red-line" copy of the final contours confirm the site is much flatter in some areas than the 2 percent designed top slope. All top slopes should be approximately 2 percent and regraded if necessary. Low areas should be filled. The top surface after grading should be smooth with no rutting from traffic. Seed and mulch should be properly applied or the surface sodded. Excessive mulching does not promote the growth of grass and since moisture does not appear to be a problem, mulching should be minimal.

Please resubmit certification of construction completion following project completion. If you have any questions, you may call me at (813) 744-6100, extension 382.

Sincerely,

A handwritten signature in black ink, appearing to read "Kim B. Ford".

Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab

cc: Gary Kuhl, P.E., Citrus County
Michael Moore, P.E., Citrus County
Robert Butera P.E., FDEP Tampa
Steve Morgan, FDEP Tampa

Exhibit B

Closed 60-acre Site Long-term Care Permit Modified in 1997



Department of Environmental Protection

Lawton Chiles
Governor

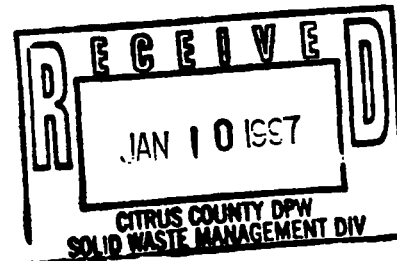
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT

JAN - 8 1997

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460



Dear Ms. Metcalfe:

Enclosed is the modification to existing Permit Number SF09-211030, issued pursuant to Section(s) 403.087(1), Florida Statutes.

The Department will issue the permit with the attached conditions unless petition for administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, Florida Statutes. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any other person must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition (or a request for mediation, as discussed below) within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-5.207 of the Florida Administrative Code.

A petition must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number, and the county in which the project is proposed;

Citrus County
Ms. Susan Metcalfe, P.G.
Permit No.: SF09-211030

- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by the petitioner, if any;
- (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail

Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have authority to settle or recommend settlement; and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

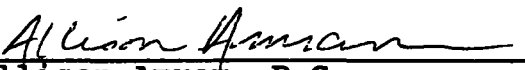
As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice of intent. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for

challenging the agency action and electing remedies under those two statutes.

When the Order (Permit) is final, any party to the Department has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Allison Amram, P.G.
Solid Waste Section
Division of Waste Management

AEA
Attachment

cc: Board of County Commissioners, 111 W. Main St., Masonic
Bldg, 3rd Floor, Inverness, FL 34450
Gary Kuhl, P.E., Citrus County
Kathy Anderson, FDEP Tallahassee
Steve Morgan, FDEP Tampa
Robert Butera, P.E., FDEP Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on JAN - 8 1997 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

JAN - 8 1997
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

JAN - 8 1997

PERMITTEE

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

**RE: Modification to existing permit
Permit No. SF09-211030, Citrus County
Citrus County Central Landfill Long-Term Care**

Dear Ms. Metcalfe:

The Long-term care permit No. SF09-211030 for the Citrus County Central landfill is being modified by the Florida Department of Environmental Protection. The groundwater and gas monitoring networks for the closed landfill effectively monitors both the operating and closed portions of the landfill, so these conditions have been consolidated into the landfill's operating permit, SO09-274381. This modification deletes specific conditions that have been moved into the operating permit, which was issued on October 28, 1996.

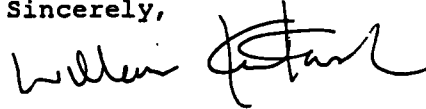
<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
#3	Existing	Deleted	Gas wells and warning signs already installed.
#4	Existing	Amended	Refers gas monitoring to SO09-274391.
#7	Existing	Amended	Adds leachate management.
#8	Existing	Amended	Refers groundwater monitoring conditions to SO09-274391.
#9 - 23	Existing	Deleted	Groundwater monitoring conditions moved to SO09-274381.
#24	Existing	Amended	Provides submittal date for financial assurance cost estimates.

Ms. Susan Metcalfe, P.G.
Page 2

JAN - 8 1997

This letter and its attachments constitute a complete permit and replace all previous permits and permit modifications for the above referenced facility.

Sincerely,



Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

RDG/aea
Attachments



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE

Citrus County
Board of County Commissioners
110 North Apopka Avenue
Inverness, Florida 34450

PERMIT/CERTIFICATION

GMS ID No: 4009C00086
Permit No: SF09-211030
Date of Issue: 09/24/93
Expiration Date: 09/1/98
County: Citrus
Lat/Long: 28°51'N
82°26'W
Sec/Town/Rge: 1/19S/18E
Project: Citrus County
Central Landfill
Long-Term Care

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-3, 62-4, 62-25, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To provide long-term care, maintenance and groundwater monitoring for (approximately 60 acres), referred to as the Closed Citrus County Central Landfill, subject to the specific conditions attached. The site is located near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

Replaces Permit No.: SO09-111795

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action will be initiated.

This permit replaces the permit that was issued on March 12, 1993 and petitioned by Citrus County on April 5, 1993. All petitioned conditions have been resolved and on August 6, 1993, after receiving a Notice to Relinquish Jurisdiction, the assigned hearing officer issued an order closing the file of the Division of Administrative Hearings and relinquishing jurisdiction back to the Department.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

GENERAL CONDITIONS:

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

16. In the case of an underground injection control permit, the following permit conditions also shall apply:

- (a) All reports or information required by the Department shall be certified as being true, accurate and complete.
- (b) Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
- (c) Notification of any noncompliance which may endanger health or the environment shall be reported verbally to the Department within 24 hours and again within 72 hours, and a final written report provided within two weeks.
 1. The verbal reports shall contain any monitoring or other information which indicate that any contaminant may endanger an underground source of drinking water and any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.
 2. The written submission shall contain a description of and a discussion of the cause of the noncompliance and, if it has not been corrected, the anticipated time the noncompliance is expected to continue, the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance and all information required by Rule 62-528.230(4)(b), F.A.C.

GENERAL CONDITIONS:

- (d) The Department shall be notified at least 180 days before conversion or abandonment of an injection well, unless abandonment within a lesser period of time is necessary to protect waters of the state.
- (17) The following conditions also shall apply to a hazardous waste facility permit.
 - (a) The following reports shall be submitted to the Department:
 - 1. Manifest discrepancy report. If a significant discrepancy in a manifest is discovered, the permittee shall attempt to rectify the discrepancy. If not resolved within 15 days after the waste is received, the permittee shall immediately submit a letter report, including a copy of the manifest, to the Department.
 - 2. Unmanifested waste report. The permittee shall submit an unmanifested waste report to the Department within 15 days of receipt of unmanifested waste.
 - 3. Biennial report. A biennial report covering facility activities during the previous calendar year shall be submitted by March 1 of each even numbered year pursuant to Chapter 62-730, F.A.C.
 - (b) Notification of any noncompliance which may endanger health or the environment, including the release of any hazardous waste that may endanger public drinking water supplies or the occurrence of a fire or explosion from the facility which could threaten the environment or human health outside the facility, shall be reported verbally to the Department within 24 hours, and a written report shall be provided within 5 days. The verbal report shall include the name, address, I.D. number, and telephone number of the facility, its owner or operator, the name and quantity of materials involved, the extent of any injuries, an assessment of actual or potential hazards, and the estimated quantity and disposition of recovered material. The written submission shall contain:
 - 1. A description and cause of the noncompliance.
 - 2. If not corrected, the expected time of correction, and the steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

GENERAL CONDITIONS:

- (c) Reports of compliance or noncompliance with, or any progress reports on, requirements in any compliance schedule shall be submitted no later than 14 days after each schedule date.
- (d) All reports or information required by the Department by a hazardous waste permittee shall be signed by a person authorized to sign a permit application.

SPECIFIC CONDITIONS:

1. This landfill site is classified as a closed Class I landfill. Long-term care, maintenance, and groundwater monitoring shall be provided in accordance with all applicable requirements of Chapters 62-4, 62-25, 62-522, 62-550, and 62-701, Florida Administrative Code. Any construction on the closed landfill shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Construction does not include routine maintenance.
2. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this closed landfill. Such control shall prevent the creation of these nuisance conditions on adjoining property. Complaints received from the general public and confirmed by Department personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.
3. Deleted JAN - 8 1997.
4. Gas monitoring shall be conducted and reported as required by the operating permit No. SO09-274381.
Amended JAN - 8 1997.
5. In the event of damage to any portion of the closed landfill or related facilities, the permittee shall immediately notify the Department of Environmental Regulation explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be made within one week following the occurrence.
6. The site shall continue to have a surface water management system operated and maintained to prevent surface water flow onto the facility site, and a stormwater runoff control system operated and maintained to collect and control stormwater as indicated in the original approved stormwater management plans. Any significant modification of the approved stormwater design must be resubmitted to the Department for approval prior to implementation.
7. At least one hundred eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines shall be evaluated to verify performance. The methods of evaluation may include pressure testing, video inspection, cleaning, statistical review of onsite and/or offsite leachate collection data or other approaches. Components not performing adequately shall be repaired, where possible. If repairs are not possible, the permittee shall propose measures to maintain performance at an alternate measurable standard. The results of the evaluation demonstrating adequate performance, remedial measures and/or alternate standards shall be submitted to the Solid Waste Section of the Southwest District Office prior to permit renewal.
Amended JAN - 8 1997.

PERMITTEE: Citrus County Board of County Commissioners
Citrus County Central **PERMIT NO.: SF09-211030**
Landfill Long-Term Care

SPECIFIC CONDITIONS:

8. Groundwater Monitoring conditions were transferred to the operating permit No. SO09-274381 on October 28, 1996.

Amended JAN - 8 1997.

9. - 23. Deleted **JAN - 8 1997.**

24. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 62-701. All costs for long-term care shall be adjusted and submitted annually by September 1st to: Solid Waste Manager, Solid Waste Section, Department of Environmental Regulation, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted annually to: Financial Coordinator, Solid Waste Section, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

Amended JAN - 8 1997.

25. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professionals who prepared or approved them.

26. Prior to 90 days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

27. The permittee shall be aware of and operate under the attached "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

28. By acceptance of this Permit, the permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

Attachment 1

**PERMITTEE: CITRUS COUNTY BOARD OF COUNTY COMMISSIONERS
CITRUS COUNTY CENTRAL LANDFILL LONG-TERM CARE
PERMIT NO.: SF09-211030**

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
24.	Annually by September 1st	Long-Term Care Estimates adjusted
24.	Annually	Proof of financial assurance funding
26.	Prior to June 1, 1998 (90 days before expiration	Apply for renewal of permit

Exhibit C

Operation Permit Issued in February 1998



Department of Environmental Protection

COPY

SM

Lawton Chiles
Governor

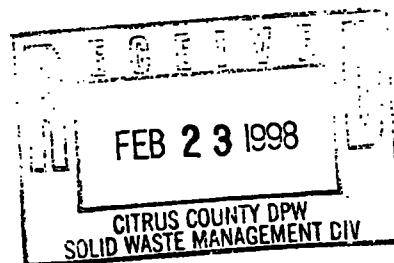
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

February 19, 1998

NOTICE OF PERMIT

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P. O. Box 340
Lecanto, FL 34460



Dear Ms. Metcalfe:

Enclosed is a Modification Number 21375-001 to Operation Permit Number **SO09-274381**, issued pursuant to Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by the Department's proposed agency action may file a timely petition for an administrative hearing under sections 120.569 and 120.57 of the Florida Statutes, or may choose to pursue mediation as an alternative remedy under section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth below.

A person may pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The names, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;

(e) The date, time, and place of the first mediation session, or a deadline for holding the first session, of no mediator has yet been chosen;

(f) The name of each party's representative who shall have authority to settle or recommend settlement; and

(g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of intent or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.

(h) The signatures of all parties or their authorized representatives.

As provided in section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that they will apply for challenging the agency action and electing remedies under those two statutes.

The petition for an administrative hearing must conform to the requirements of Chapters 62-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

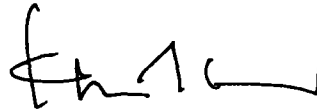
Citrus County BCC
Ms. Susan Metcalfe
Permit No.: SO09-274381

February 19, 1998
Page Three

When the Order (Permit) is final, any party to the Department has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Kim B. Ford, P.E.
Solid Waste Section
Division of Waste Management

KBF/ab
Attachment

cc: Gary Kuhl, P.E., Citrus County
Bill Korn, Division of Forestry
Robert Butera, P.E., FDEP Tampa
Danielle Nichols, FDEP Tampa

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on FEB 19, 1998 to the listed persons.

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Anna Black
Clerk

2/19/98
Date

RULES OF THE ADMINISTRATION COMMISSION, MODEL RULES OF PROCEDURE
CHAPTER 28-5, DECISIONS DETERMINING SUBSTANTIAL INTERESTS
PART II, FORMAL HEARINGS
A) PREHEARING PROCEDURES

28-5.201 Initial of Formal Proceedings.

(1) Initiation of formal proceedings shall be made by petition to the Agency responsible for rendering final Agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.

(2) All petitions filed under these rules should contain:

(a) The name and address of each Agency affected and each Agency's file or identification number, if known;

(b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the Agency determination;

(c) A statement of when and how petitioner received notice of the Agency decision of intent to render a decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;

(f) A demand for relief to which the petitioner deems himself entitled; and

(g) Other information which the petitioner contends is material.

(3) Upon receipt of a petition for formal proceedings, the Agency shall either accept or deny the petition, and if accepted shall elect either to conduct the hearing itself through the Agency head, or member thereof, assign a person authorized by Subsection 120.57(1)(a) or other authority, or request that a Hearing Officer from the Division of Administrative Hearings be assigned to conduct the hearing.

(a) A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the Agency determination, or if the petition is untimely.

(b) The Agency shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefore.

(4) If the Agency elects to request that a Hearing Officer of the Division of Administrative Hearings be assigned to conduct the hearing, the Agency shall forward the petition, and all materials filed with the Agency, to the Division of Administrative hearings, and shall notify all parties of its action.

Specific Authority: 120.53(1), 120.54(10), F.S.
Law Implemented: 120.57, F.S.
History: New 3-23-80



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

February 19, 1998

PERMITTEE:

Citrus County
Board of County Commissioners
c/o Ms. Susan Metcalfe, P.G.
Solid Waste Management
P.O. Box 340
Lecanto, FL 34460

Re: Modification #21375-001 to existing Operation Permit
Permit No.: SO09-274381, Citrus County
Citrus County Central Class I Landfill

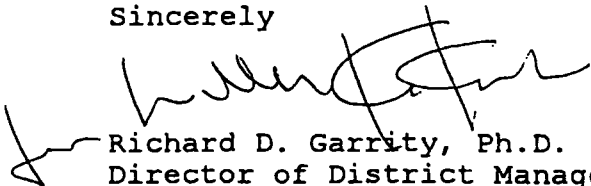
Dear Ms. Metcalfe:

We are in receipt of your August 14, 1997 request for permit modification. This modifies your solid waste operation permit #SO09-274381.

<u>SPECIFIC CONDITIONS</u>	<u>FROM</u>	<u>TO</u>	<u>TYPE OF MODIFICATION</u>
2.	Existing	Amended	Operation of Phase 1A
3.	Existing	Amended	Operation of Phase 1A
17.	Existing	Amended	Leachate Reports
21.	Existing	Amended	Stormwater Systems
44.	Existing	Amended	Current Rule Referenced
45.	New		Air Requirements

This letter and its attachments constitute a complete permit and replace all previous permits and permit modifications for the above referenced facility.

Sincerely


Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

RDG/kbfb
Attachments



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE

Citrus County
Board of County Commissioners
c/o Ms Susan Metcalfe, P.G.
Solid Waste Management
P. O. Box 340
Lecanto, FL 34460

PERMIT/CERTIFICATION

GMS ID No: 4009C00086
Permit No: SO09-274381
Date of Issue: 10/28/1996
Expiration Date: 10/25/2001
County: Citrus
Lat/Long: 28°51'08"N
82°26'38"W
Sec/Town/Rge: 1/19S/21E
Project: Citrus County Central
Class I Landfill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-330, 62-520, 62-522, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

To operate and maintain a landfill with leachate storage and treatment, and related facilities (approximately 80 acres), referred to as the Citrus County Central Class I Landfill, subject to the specific and general conditions attached, for management and disposal of solid waste and leachate, near S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

1. Class I Landfill, Leachate Storage and Treatment Facility

Replaces Permit No.: SO09-187229, SC09-272928 and SC09-282375

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

GENERAL CONDITIONS:

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

PERMITTEE: Citrus County Board of
County Commissioners

PERMIT NO: 8009-274381
Citrus County Central Class I Landfill

GENERAL CONDITIONS:

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-330, 62-520, 62-522, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation of Phases 1 and 1A of the Class I landfill and related facilities in accordance with the reports, plans and other information as follows:

- Groundwater Monitoring Plan by Hydro Q dated April 1995 received July 3, 1995, and revised pages received September 19, 1995;
- October 20, 1995 Operation Permit Application and supporting information by CH2M Hill received October 27, 1995;
- October 1996 Operations Plan by CH2M Hill received September 26, 1996 (and October 22, 1996 for Appendix B - Phase 1 Filling Plans and Appendix G - Gas Monitoring Program);
- Supporting information by Citrus County dated October 8 and December 19, 1997 received October 10 and December 24, 1997, respectively;
- and in accordance with all applicable requirements of Department rules.

Amended FEB 19, 1998.

3. **Permit Modifications.** This permit does not authorize landfill closure or operation of the temporary transfer station. The proposed transfer station will require a minor permit modification approved by FDEP prior to construction and operation. The construction and operation will be required to be substantially in accordance with FDEP letter dated January 13, 1995 to Mr. Gary Kuhl, P.E., Director of Public Works. Any activities not previously approved as part of this permit may require a separate Department permit unless the Department determines a permit modification to be more appropriate. Permits shall be modified in accordance with the requirements of 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

Amended FEB 19, 1998.

4. **Permit Renewal.** No later than one hundred eighty (180) days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by F.A.C. 62-701.330(3).

5. **Prohibitions.** The prohibitions of F.A.C. 62-701.300 shall not be violated by the activities at this facility.

SPECIFIC CONDITIONS:

6. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with F.A.C. 62-701.300(8), 62-701.520 and any other applicable Department rules, to protect the public safety, health and welfare.

- a. White goods and scrap metal that are held for the purposes of recycling shall be held no longer than one hundred and eighty (180) days, and shall be stored in a manner so as to prevent the discharge of CFCs and other residuals which may cause air or groundwater pollution. Surface water shall be diverted away from all storage or holding areas.
- b. All solid wastes, recovered materials or residues handled at the site shall be stored in a manner so as not to constitute a fire or safety hazard or a sanitary nuisance, and shall comply with all applicable local or state regulations. Recovered resources which may be offered for sale shall comply with applicable regulations of all appropriate state agencies.
- c. Yard trash accepted at the site shall be processed and recycled, or disposed of within twelve months.
- d. The operation of the citizen waste drop-off facility shall comply with the following procedures:
 - (1) Only residential customers shall use the facilities, that is, no solid waste collectors or commercial haulers will be allowed usage;
 - (2) An attendant shall be on duty when the facility is operating. Operating hours shall be posted, and fencing and gates shall be used to prevent unauthorized access when the facility is closed;
 - (3) Only roll-off containers and/or dumpsters shall be utilized for waste disposal. No compactors of any type shall be used; and
 - (4) All processable and non-processable solid waste, with the exception of recyclables, shall be removed from the site at least daily or when a container is full. At the close of business each day when no additional waste will be received all processable and non-processable waste shall be covered with a waterproof tarp until the facility is again receiving solid waste.
 - (5) The Citizen Drop-off area shall be inspected for unauthorized materials and household hazardous waste collection/storage facility at least daily.

SPECIFIC CONDITIONS:

- e. The household hazardous waste collection/storage ("HHW C/S") facility shall be operated in accordance with the October 1996 Operations Plan, Appendix N, by CH2M Hill and as follows:
- (1) HHW received at the Citizen Drop-off area shall be identified, and then relocated for storage within the containment area of the HHW Collection/Storage Facility at the end of each collection day.
 - (2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.
 - (3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.
 - (4) Non-latex paints shall not be air dried.
 - (5) Waste received at the HHW C/S Facility shall be stored within containment areas at all times.
 - (6) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.
- f. The Used Oil Collection Center shall comply with FAC Chapter 62-710 and 40 Code of Federal Regulations (CFR) 280 and 281, and all applicable requirements of Department rules. Discharges are not allowed and are subject to FAC Chapter 62-770 for cleanup.

7. **Landfill Operation Requirements.** The permittee shall operate this facility in accordance with F.A.C. 62-701.500, Landfill Operation Requirements, and the October 1996 Operations Plan by CH2M Hill.

8. **Operating Personnel.** As required by F.A.C. 62-701.500(1), at least one operator, trained in accordance with F.A.C. 62-703, shall be at the landfill at all times when the landfill receives waste.

9. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of F.A.C. 62-701.500(2). A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. An operating record as required by F.A.C. 62-701.500(3) is part of the operations plan, and shall also be maintained at the site.

SPECIFIC CONDITIONS:

10. **Method and Sequence of Filling.** The method and sequence of filling shall be in accordance with the October 1996 Operations Plan, Section 2 and Appendix B, by CH2M Hill.
11. **Waste Records.** Waste quantity records shall be compiled monthly as described by F.A.C. 62-701.500(4) and made available to the Department upon request.
12. **Control of Access.** Access to, and use of, the facility shall be controlled as required by F.A.C. 62-701.500(5).
13. **Monitoring of Waste.** Wastes shall be monitored as required by F.A.C. 62-701.500(6), including a load checking program and associated activities.
 - a. The permittee shall not knowingly accept hazardous waste or any hazardous substance for disposal at this site. Hazardous waste is a waste identified in Chapter 62-730, F.A.C. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with F.A.C. 62-701.300(4) and 62-701.500(6)(b).
 - b. The operating authority shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.
14. **Waste Handling Requirements.** All solid waste disposed of in the Class I area shall be covered as required by F.A.C. 62-701.500(7).
 - a. Initial cover shall be applied and maintained in accordance with F.A.C. 62-701.500(7)(e) so as to protect the public health and welfare. All solid waste disposed of in the Class I area must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department, at the end of each working day.
 - b. Alternate initial cover materials shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary cover or tarpaulin. Waste tires that have been cut into sufficiently small parts, which means that 70 percent of the waste tire material is cut into pieces of 4 square inches or less and 100 percent of the waste tire material is 32 square inches or less, and applied in a six (6) inch compacted layer, may be used as initial cover within the bermed working area.

SPECIFIC CONDITIONS:

c. Intermediate cover shall be applied and maintained in accordance with F.A.C. 62-701.500(7)(f). An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion.

15. **Working Face.** As required by F.A.C. 62-701.500(7)(d), the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area. **Interceptor berms shall be maintained around the active working area to prevent leachate runoff from the working face from entering the stormwater management system.** Runoff from outside the bermed working face area will be considered stormwater only if the flow passes over areas which have no exposed waste.

16. **Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed in accordance with F.A.C. 62-701.500(7)(g) and all applicable requirements of Department rules.

17. **Leachate Management.** Leachate shall be managed in accordance with the requirements of F.A.C. 62-701.500(8) and the October 1996 Operations Plan, Section 8 and Appendix O, by CH2M Hill.

a. The leachate storage tanks shall be inspected as required by F.A.C. 62-701.400(6)(c)9.

b. Each pump shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repaired, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility.

c. Leachate generation reports shall be compiled monthly and submitted to the Department semi-annually by January 15th and July 15th or more frequently if requested. Leachate generation reports shall include the number of open, intermediate and closed acres, and the quantities of leachate collected, recirculated, treated and disposed on-site, and hauled/piped off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

d. No later than one hundred and eighty (180) days prior to permit expiration, the entire leachate collection and removal system, force mains and gravity pipelines, shall be visually or video inspected and pressure tested where possible to verify adequate performance. Components not performing adequately shall be cleaned and/or repaired. The results of the inspection and testing shall be submitted to the Solid Waste Section of the Southwest District Office to demonstrate adequate performance prior to permit renewal.

Amended FEB 19, 1998.

SPECIFIC CONDITIONS:

18. **Gas Monitoring.** Landfill gas shall be monitored as required by F.A.C. 62-701.500(9), 62-701.400(10), and the October 1996 Operations Plan, Appendix G, by CH2M Hill. The results of quarterly monitoring shall be submitted by January 15th, April 15th, July 15th and October 15th each year. Gas probes GS-1S and GS-1E shall be installed and sampled, and the construction details and sampling results submitted by February 15, 1997.

19. **Gas Monitoring Locations.** The following gas monitoring locations shall be sampled quarterly for the Lower Explosive Limit (LEL) of methane, as described in F.A.C. Rule 62-701.400(10)(c).

Monitoring Point

Active Landfill

Closed 60-acre Landfill

Scalehouse

Locations:

GS-1S and GS-1E, see Figure 1

See Figure 1 (attached)

See Figure 3 (attached)

20. **Gas Remediation.** In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on or off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, within 7 days of detection, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

21. **Stormwater System Management.** Stormwater shall be managed as required by F.A.C. 62-701.500(10) to meet applicable standards of F.A.C. 62-302 and 62-330. The system shall minimize stormwater from entering waste filled areas and avoid the mixing of stormwater with leachate in accordance with Figure 11 (attached) by CH2M Hill. All stormwater conveyances shall be inspected at least weekly to verify adequate performance. Conveyances not performing adequately shall be repaired within three (3) working days. Documentation of all inspections and repairs shall be kept on file at the facility.

Amended FEB 19, 1998

22. **Recordkeeping.** Records shall be maintained as required by F.A.C. 62-701.500(13).

23. **Waste Burning.** Open burning of solid waste is prohibited except in accordance with F.A.C. 62-701.520(2). Controlled burning of solid waste is prohibited at this site except for clean vegetative and wood wastes which may be burned in a permitted air curtain incinerator in accordance with F.A.C. 62-296.401(6). Any accidental fires which require longer than one (1) hour to extinguish must be promptly reported to the Department of Environmental Protection.

24. **Closure Permit Requirements.** No later than one hundred eighty (180) days prior to the date when wastes will no longer be accepted for active portions of the landfill, the landfill owner or operator shall submit a closure permit application to the Department in order to assure conformance with all applicable Department rules.

SPECIFIC CONDITIONS:

25. **Financial Assurance.** The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. 62-701.630. All costs for closure and long-term care shall be adjusted and submitted **annually, by September 1 each year**, to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318. Proof that the financial assurance has been funded adequately shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

26. **Control of Nuisance Conditions.** The operating authority shall be responsible for the control of odors and fugitive particulates arising from this operation. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance. The owner or operator shall control mosquitoes and rodents so as to protect the public health and welfare.

27. **Liner Location.** The top edge of the geomembrane liner shall be clearly flagged in as many locations as required to prevent waste disposal and leachate runoff outside the geomembrane liner. The flagging or staking markers shall be maintained at all times.

28. **Facility Maintenance and Repair.** The site shall be properly maintained including erosion control, maintenance of grass cover, prevention of ponding, groundwater monitoring system repairs, gas monitoring system repairs, repair and maintenance of leachate collection and removal systems, and maintenance of the leachate storage and treatment facilities. In the event of damage to any portion of the landfill site facilities or failure of any part of the landfill systems, the permittee shall immediately (**within 24 hours**) notify the Department of Environmental Protection explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

29. **Water Quality Monitoring Quality Assurance.**

a. All field and laboratory work done in connection with the facility's Water Quality Monitoring Plan shall be conducted by a firm possessing a Comprehensive Quality Assurance Plan approved by the Department to meet the requirements of F.A.C. 62-160. The Quality Assurance Plan must specifically address the types of sampling and analytical work that is required by the permit. The Quality Assurance Plan shall be required of all persons performing sampling or analysis, and shall be followed by all persons collecting or analyzing samples related to this permit. Documentation of an approved QAP shall be submitted **annually** to the Department with the groundwater sampling report due **January 15th**. Documentation shall include the completed signature page and the Table of Contents of the approved plan.

SPECIFIC CONDITIONS:

b. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with methods approved by the Department in accordance with F.A.C. 62-4.246 and 62-160. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

30. Zone of Discharge.

a. The zone of discharge for the site landfills and the percolation ponds for treated leachate shall extend horizontally as shown on the figure labelled "Specific Condition 30, Zone of Discharge" (attached), prepared by Citrus County shall extend vertically to the bottom of the first occurring aquifer.

b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge according to F.A.C. 62-520.420.

c. The permittee must record the dimensions of the zone of discharge on the property record of the adjacent land as required by F.A.C. Rule 62-522.500(3)(e). Documentation from the County Clerk of this addition to the property record must be submitted to the FDEP Solid Waste Section, 3804 Coconut Palm Drive, Tampa, Florida, by **January 31, 1997**.

31. Leachate Sampling. Leachate shall be sampled from the leachate holding tank until the master lift station is installed, at which time leachate shall be sampled from the master lift station. Leachate shall be analyzed **every 6 months** for the following monitoring parameters:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Specific Conductivity	Total Ammonia - N
pH	Bicarbonate
Dissolved oxygen	Chlorides
Colors, sheens	Iron
(by observation)	Mercury
	Nitrate
	Sodium
	Total Dissolved Solids (TDS)
	Those parameters listed in
	40 CFR Part 258, Appendix I

In addition, leachate shall be sampled and analyzed **annually** for the parameters listed in 40 CFR part 258, Appendix II. If this annual analysis indicates that a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the permittee shall initiate a monthly sampling and analysis program. If in any three consecutive months the same listed contaminant exceeds the regulatory level, the permittee shall, within 90 days, initiate a program designed to identify the source and reduce the presence of the contaminant in the leachate so that it no longer exceeds the regulatory level. This program may include additional monitoring of waste received and additional up-front separation of waste materials. Any leachate which

SPECIFIC CONDITIONS:

is not recirculated or taken to a permitted industrial or domestic wastewater treatment facility shall be treated or managed so that no contaminant exceeds the regulatory level. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

32. **Discharges from Percolation Pond.** Direct discharge from the percolation pond system to area surface waters is not allowed. Surface discharge shall be considered a violation of this permit and the permittee shall immediately report any such discharge to the Southwest District office of the Department of Environmental Protection.

33. **Leachate Treatment Plant Testing.** Prior to on-site discharge into the percolation ponds, the permittee shall demonstrate 3 consecutive months of acceptable leachate treatment based on the results from the following daily and weekly sampling, submit the sampling results and obtain Department for approval prior to discharge. The effluent shall be tested once during the 3 month demonstration period for the parameters listed in Appendix II, 40 CFR Part 258. These test parameters shall meet the Florida Groundwater Standards and minimum criteria listed in F.A.C. 62-520.400 and 62-520.420 with the exception of sodium, chloride and total dissolved solids (TDS). These parameters shall meet the standards listed in FAC 62-520.420 at the edge of the zone of discharge (as described in Specific Condition #30).

a. The following effluent testing schedule shall be conducted. Results shall be submitted quarterly. The 1st quarter of a year shall be submitted by April 15th, the 2nd quarter by July 15th, the 3rd quarter by October 15th and 4th quarter by January 15th.

Parameter	Unit	Minimum	Maximum	Frequency
flow	gpd	N/A	30,000	Daily
pH	STD UN	6.00	8.50	Daily
Chlorine Residual	mg/l	N/A	N/A	Daily, if using chlorine
CBOD ₅	mg/l	N/A	20	Weekly
COD	mg/l	(acceptable CBOD ₅ :COD ratio)		Weekly
TSS	mg/l	N/A	20	Weekly
Total Phosphorous	mg/l	N/A	N/A	Weekly
Ammonia Nitrogen	mg/l	N/A	N/A	Weekly
Nitrate-N	mg/l	N/A	12	Weekly
Total Nitrogen	mg/l	N/A	N/A	Weekly
Fecal Coliform	#/100	N/A	200	Weekly
Chloride	mg/l	N/A	N/A	Quarterly
Sodium	mg/l	N/A	N/A	Quarterly
TDS	mg/l	N/A	N/A	Quarterly
Arsenic	mg/l	N/A	N/A	Quarterly
Barium	mg/l	N/A	N/A	Quarterly
Cadmium	mg/l	N/A	N/A	Quarterly
Chromium	mg/l	N/A	N/A	Quarterly
Iron	mg/l	N/A	N/A	Quarterly
Mercury	mg/l	N/A	N/A	Quarterly
Lead	mg/l	N/A	N/A	Quarterly
Selenium	mg/l	N/A	N/A	Quarterly

SPECIFIC CONDITIONS:

Parameter	Unit	Minimum	Maximum	Frequency
Silver	mg/l	N/A	N/A	Quarterly
Total THMs	mg/l	N/A	N/A	Quarterly
Benzene	mg/l	N/A	N/A	Quarterly
Toluene	mg/l	N/A	N/A	Quarterly
Ethylbenzene	mg/l	N/A	N/A	Quarterly
Total Xylenes	mg/l	N/A	N/A	Quarterly
Ethylene dibromide (EDB)	mg/l	N/A	N/A	Quarterly

Annually, the effluent shall be tested for the Appendix II parameters listed in 40 CFR Part 258.

If in any two consecutive weeks of effluent sampling, the same listed contaminant exceeds the regulatory level, the permittee shall immediately cease discharge into the percolation ponds and provide off-site disposal for its leachate and/or effluent, until acceptable leachate treatment is again demonstrated and until on-site discharge into the percolation ponds is again approved by the Department.

b. Waste sludge from the leachate treatment plant shall be sampled and analyzed annually under an approved Quality Assurance Plan for the following parameters:

Toxic Characteristic Leaching Potential Test (TCLP) for
organics, metals and pesticides
pH (standard units)
Solids (percent)

Waste sludge that is not classified as hazardous waste (Chapter 62-730.030, FAC) may be disposed of in the Class I landfill. Based upon the results of the analyses, the Department may require further testing and alternative disposal in order to assure compliance with all Department rules and regulations. The Department shall be notified within thirty (30) days of alternative sludge disposal activities.

34. **Groundwater Monitoring Well Locations.** The Groundwater Monitoring System is designed and constructed in accordance with the "Groundwater Monitoring Plan for the 80-acre Landfill Expansion, Citrus County Central Landfill", report dated April 1995 and revised September 19, 1995 prepared by Hydro Q. The groundwater monitoring wells are located as per Figure 48 of this report:

Well Number	Aquifer	Location
MW-1(R)	Floridan (background)	Figure 48, attached
MW-2	Floridan (background)	Figure 48, attached
MW-3	Floridan (background)	Figure 48, attached
MW-B	Floridan (detection)	Figure 48, attached
MW-4	Floridan (intermediate)	Figure 48, attached
MW-5	Floridan (intermediate)	Figure 48, attached
MW-6	Floridan (intermediate)	Figure 48, attached
MW-AA	Floridan (detection)	Figure 48, attached
MW-C	Floridan (detection)	Figure 48, attached
MW-D	Floridan (detection)	Figure 48, attached
MW-E	Floridan (compliance)	Figure 48, attached
MW-7*	Floridan (background)	Figure 48, attached

SPECIFIC CONDITIONS:

<u>Well Number</u>	<u>Aquifer</u>	<u>Location</u>
MW-8*	Floridan (detection)	Figure 48, attached
MW-9*	Floridan (detection)	Figure 48, attached

*Wells to be constructed prior to use of Phase 1A.

35. **Groundwater Sampling.** All detection and background wells, intermediate well MW-6, and compliance well MW-E shall be sampled in accordance with F.A.C. 62-701.510(6)(c) and analyzed **every 6 months** for the groundwater monitoring parameters listed as follows:

<u>Field parameters</u>	<u>Laboratory parameters</u>
Static Water Level	Total Ammonia - N
before purging	Chlorides
Specific Conductivity	Iron
pH	Mercury
Dissolved Oxygen	Nitrate
Turbidity	Sodium
Temperature	Total Dissolved Solids (TDS)
Colors and sheens	Those parameters listed in
(by observation)	40 CFR Part 258, Appendix I

Water levels shall be measured in all site wells listed in Specific Conditions No. 34.

Additional samples, wells, and parameters may be required based upon subsequent analysis.

36. **Groundwater Monitoring Well Construction.** Any new wells constructed must be approved by the Department through permit modification. The following information shall be submitted to the Department by within 90 days of well completion:

a. Documentation of the following for each well installed:

Well Identification	Boring (Lithology) Log
Aquifer monitored	Total depth of well
Screen type and slot size	Casing diameter
Screen length	Casing type and length
Screen diameter	SWFWMD well construction permit Nos.
Well seal and filter pack	
type and thickness	

b. **Within one week of well completion** and development, each new well shall be sampled for the parameters listed in F.A.C. Rules 62-701.510(8)(a) and (d).

c. A surveyed drawing shall be submitted in accordance with F.A.C. Rule 62-701.510(3)(d)(1), showing the location of all monitoring wells (active and abandoned) horizontally located in degrees, minutes and seconds of latitude and longitude, the Universal Transverse Mercator coordinates, and the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or

SPECIFIC CONDITIONS:

corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

d. Prior to utilization of Phase 1A, the information required in a-c (above) must be submitted for monitoring wells MW-7, MW-8 and MW-9. These wells are to be constructed as proposed in the groundwater monitoring plan referenced in Specific Condition No. 34.

37. Well Abandonment. All wells not a part of the approved Water Quality Monitoring Plan are to be plugged and abandoned in accordance with F.A.C. 62-532.440, and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing piezometer/well locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

38. Assessment Monitoring. If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 15 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis representative of current groundwater conditions at the facility, and assessment monitoring/corrective action as described in F.A.C. 62-701.510(7) shall be initiated.

39. Water Quality and Leachate Reporting Requirements. All ground water quality monitoring and leachate and sludge analyses shall be reported on the Department Form 62-522.900(2), Ground Water Monitoring Report (attached). This report shall include the items listed in F.A.C. 62-701.510(9)(a). The permittee shall submit to the Department the results of the water quality and leachate analysis **July 15th and January 15th** for the semi-annual periods January-June and July-December, respectively. Sludge results shall be submitted **annually by January 15th**. The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318, and to the Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, FL 32399-2400.

SPECIFIC CONDITIONS:

40. Groundwater Monitoring Plan Evaluation.

Every two years and prior to 180 days before the expiration of the Department Permit, the permittee shall submit an evaluation of the Groundwater Monitoring Plan as described in F.A.C. 62-701.510(9)(b). The evaluation shall include the applicable information as required by F.A.C. 62-701.510(9), and shall include assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination. Any groundwater contamination that may exist, shall be addressed as part of a groundwater investigation for the landfill assessment. The Groundwater Monitoring Plan shall be adequate to monitor any modifications to the existing landfill site including but not limited to closure. The first evaluation shall be submitted to the Solid Waste Section of the Department by July 15, 1997.

41. Professional Certification. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

42. General Conditions. The permittee shall be aware of and operate under the "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

43. Permit Acceptance. By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

44. Regulations. F.A.C. 62-701, effective April 23, 1997, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

Amended FEB 19, 1998.

45. Air Requirements.

a. An air construction permit is not required for the landfill unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.

PERMITTEE: Citrus County Board of
County Commissioners

PERMIT NO: 8009-274381
Citrus County Central Class I Landfill

SPECIFIC CONDITIONS:

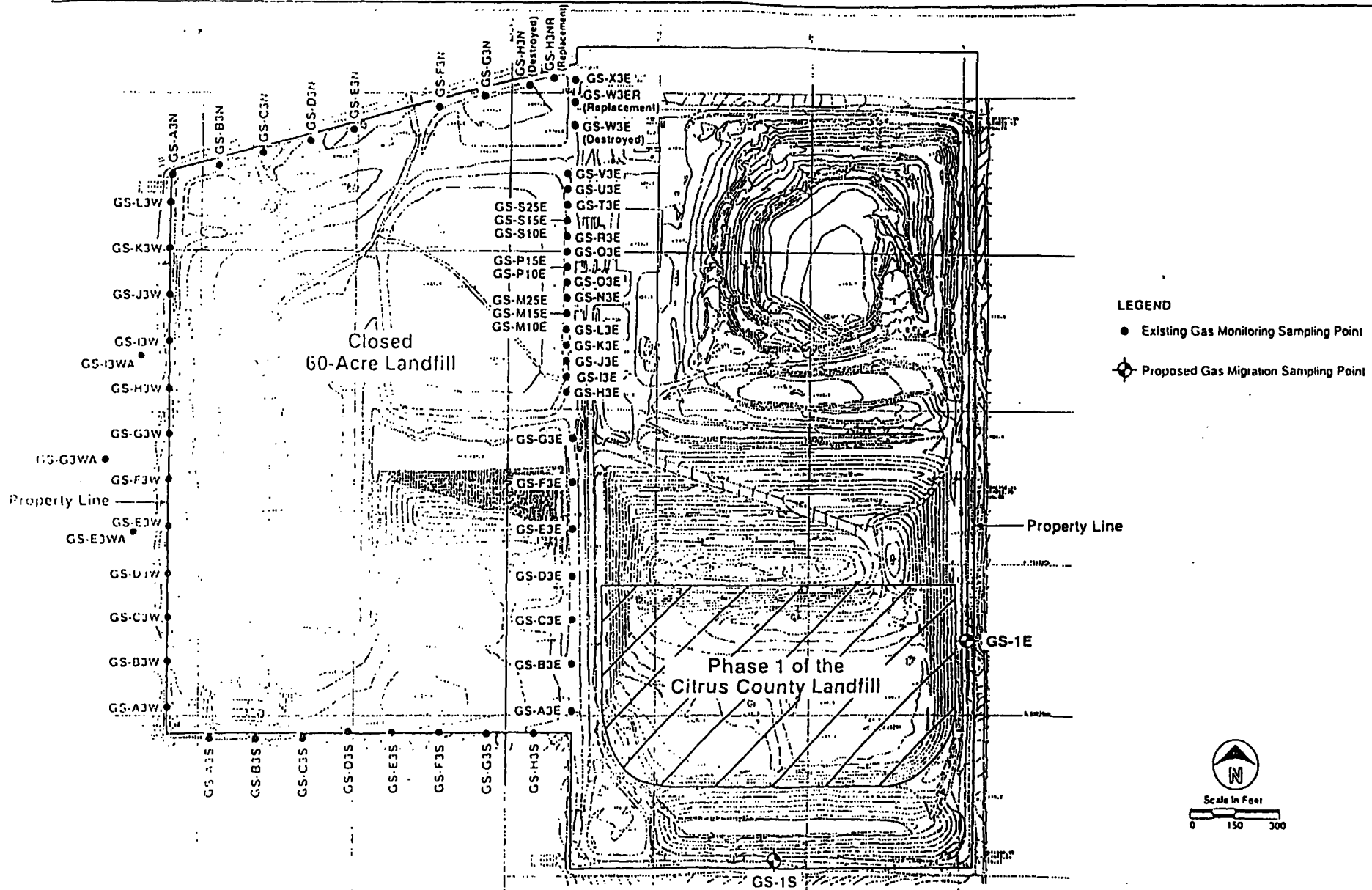
b. An air operating permit is not required unless the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Section 403.0872, F.S. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is collocated or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity, as defined at 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and contact requirements of Rule 62-204.800, F.A.C. and Chapter 62-213, F.A.C. Title V applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill location.

c. The landfill shall comply with the requirements of 40 CFR 60, Subpart WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b) shall be submitted to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, FL 32399-2400.

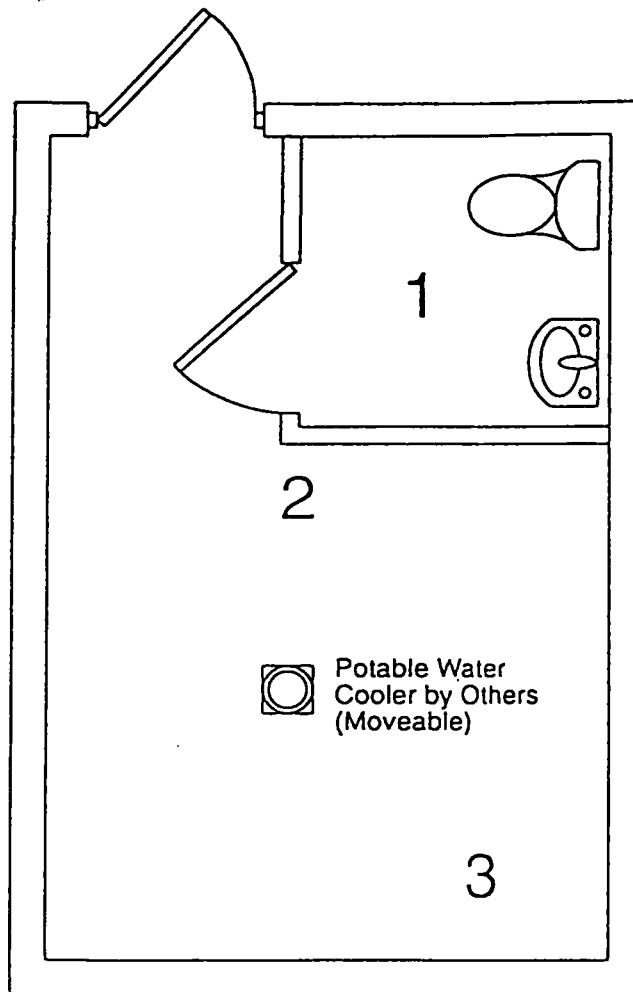
New FEB 19, 1998.

Attachment 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
4., 17.d.	180 days prior to permit expiration	Permit Renewal Application LCRS Inspection
18. and 33.a	Quarterly, by January 15th, April 15th, July 15th, and October 15th	Gas monitoring results, Leachate treatment results
25.	Annually, by September 1st	Financial assurance cost estimates
29.a.	Annually, by January 15th	Water quality QAP documentation
31.	Every 6 months	Leachate sampled/analyzed
31.	Annually	Leachate sampled/analyzed for 40 CFR Part 258, Appendix II parameters
33.b.	Annually	Leachate treatment - Sludge results
35.	Every 6 months	Groundwater wells sampled/ analyzed
39.	Semi-annually, by January 15th, and July 15th	Water quality and leachate monitoring results
39.	Annually, by January 15th	Leachate treatment plant sludge analyses
40.	Every two years by July 15th and 180 days prior to permit expiration	Evaluation of groundwater monitoring plan



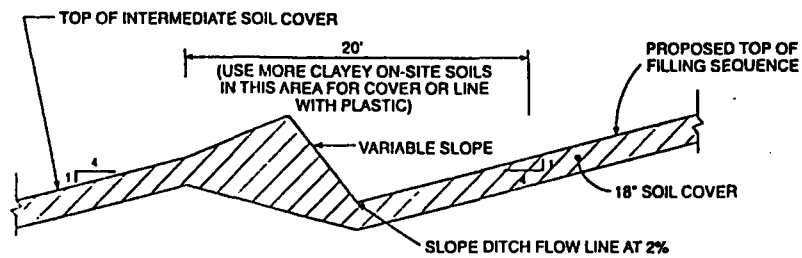
11795-28.0



- 1 - Bathroom Floor Drain
- 2 - Electric Connections for Scale Meter - West Side
- 3 - Electric Connections for Scale Meter - East Side

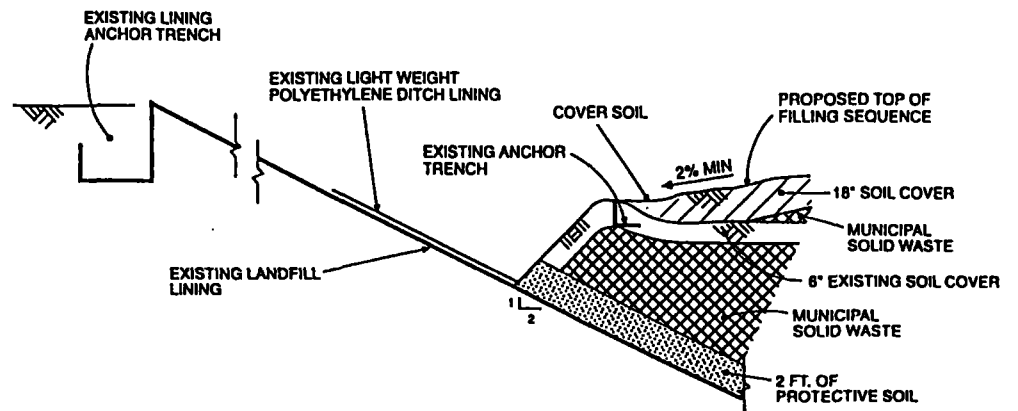
FIGURE 3
Scalehouse Gas Monitoring Points



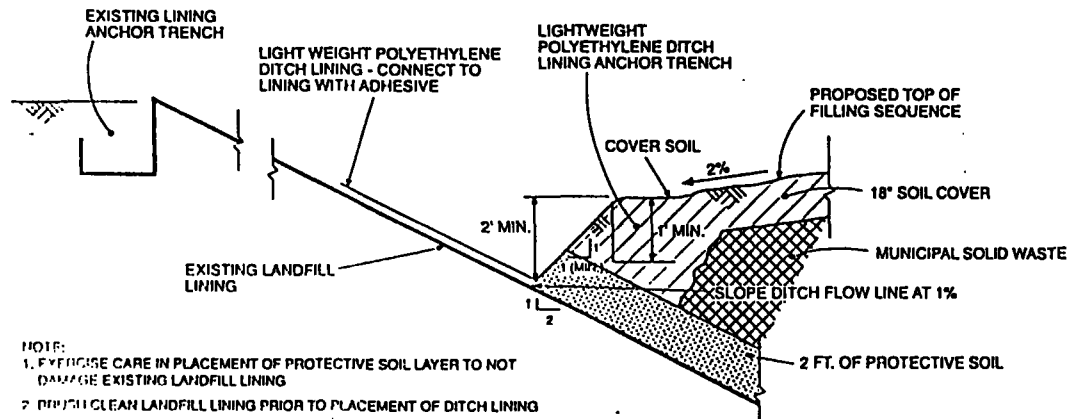


NOTE:
SEED AND MULCH ALL 4:1 SLOPES

DITCHES ON NORTHERN FACE
NTS

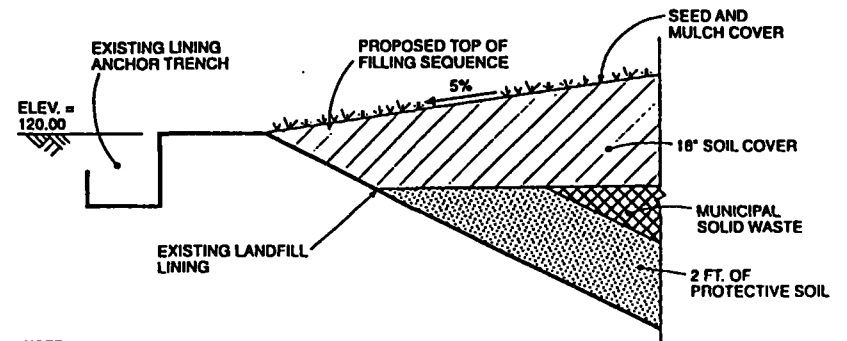


CONNECTION TO EXISTING LINED DITCH
NTS



- NOTE:
1. EXERCISE CARE IN PLACEMENT OF PROTECTIVE SOIL LAYER TO NOT DAMAGE EXISTING LANDFILL LINING
 2. DITCH CLEAN LANDFILL LINING PRIOR TO PLACEMENT OF DITCH LINING
 3. APPLY ADHESIVE BETWEEN LINING AND DITCH LINING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
 4. DO NOT APPLY ADHESIVE IF LINING IS WET

NEW LINED DITCH
NTS

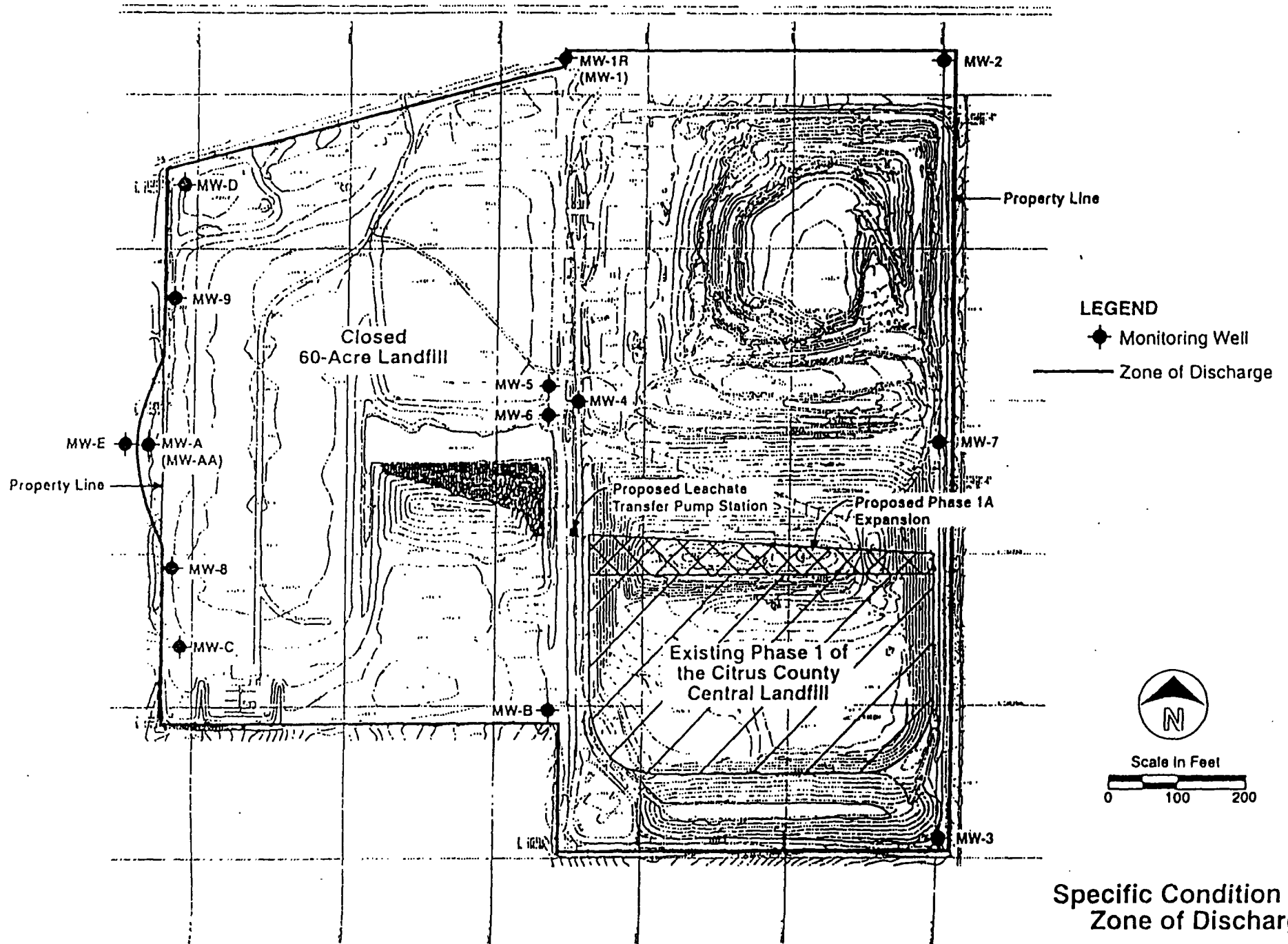


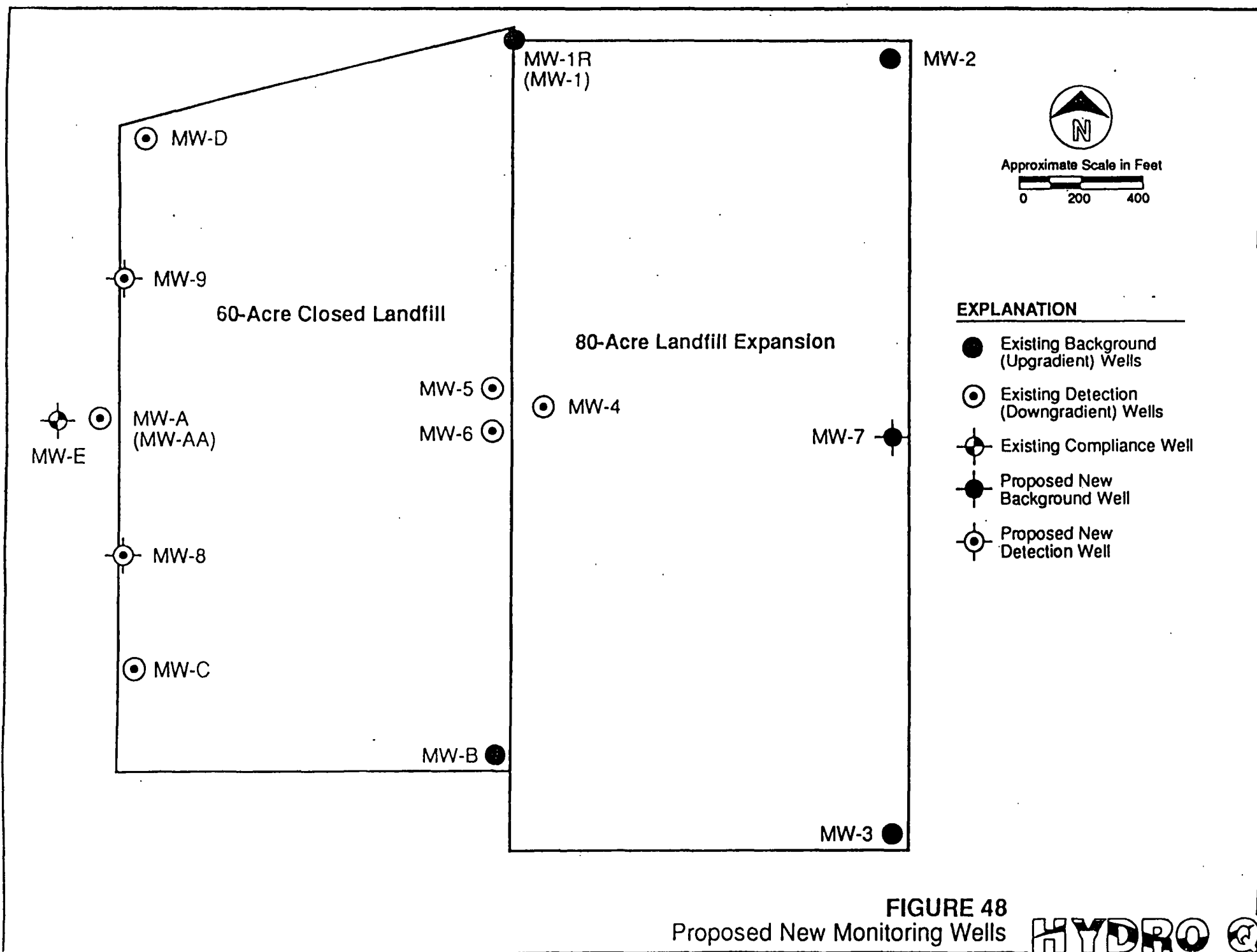
- NOTE:
1. EXERCISE CARE IN PLACEMENT OF PROTECTIVE SOIL LAYER TO NOT DAMAGE EXISTING LANDFILL LINING
 2. DO NOT ALLOW SOIL COVER TO MIX WITH UNDERLYING WASTE DURING PLACEMENT

EXISTING ANCHOR TRENCH DETAIL
NTS

Figure 11
Typical Sections







1. PART III ANALYTICAL RESULTS

Utility GMS #: _____ Sampling Date/Time: _____

Test Site ID #: _____ Report Period: _____
(year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water: _____ Well Type: () Background
() Intermediate

Ground Water Elevation (NGVD): _____ () Compliance
 _____ () Other
 or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

- Attach Laboratory Reports

Exhibit D

Financial Assurance Cost Estimates

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FINANCIAL ASSURANCE COST ESTIMATES

Date: 12/16/97

Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Citrus County Central Landfill GMS No.: 4009C00086

Permit No.: SC09-282375, SO09-274381 & SF09-211030 Expiration Date: N/A

Address (facility): 230 West Gulf to Lake Highway, Lecanto, Florida 34461

Address (mailing): P. O. Box 340, Lecanto, Florida 34460-0340

Permittee (operating authority): Citrus County Board of County Commissioners

Facility Lat. 28°51' N Long. 82°26' W or UTM's _____

Description of the Solid Waste Disposal Units included: Citrus County Central Landfill Phases 1 & 1A
and Closed 60 Acre Site

Landfill Acreage included in this Estimate: Phases 1 & 1A = 18.3 ac.; Close 60 Acre Site = 49.6 ac.

Date Disposal Unit Began Accepting Waste January 1991 Design Life of Disposal Unit Mid-Year 2003

Type of Landfill: X Class I _____ Class III

No Exempt; Type of Exemption _____

Closure Plan Approved: (Yes) / No **Note: Closure cost estimates are based on the conceptual closure plan for Phases 1 & 1A.**

II. TYPE OF FINANCIAL DOCUMENT SUBMITTED TO ENSURE FINANCIAL ASSURANCE:

<u> </u> Trust Fund Agreement	<u> </u> Performance Bond (only for landfills with an approved closure plant)
<u> </u> Letter of Credit	<u> </u> Standby Trust Fund Agreement
<u> </u> Insurance Certificate	<u> X </u> Escrow Account
<u> </u> Financial Guarantee Bond	<u> </u> Other (Explain) _____

IIIA. ESTIMATED CLOSING COST - CITRUS COUNTY CENTRAL LANDFILL, PHASES I & IA

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

****Third Party Estimate/Quote must be provided for each item.**

****Costs must be for a third party providing all material and labor.**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A).

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

1. Monitoring Wells: Not applicable - Monitoring wells are already inplace.

Borehole Excavation	CY			
Backfill	CY			
Gravel Pack	CY			
Casing	LF			
Screen	EA			
Cap	EA			

Subtotal Monitor Wells _____

2. Slope and Fill:

Excavation	CY	30,331	2.02	61,147
Placement/Spreading	CY	30,331	1.64	49,682
Compaction	CY	30,331	0.63	19,108
Off-Site Material	CY			

Subtotal Slope and Fill \$ 129,937

3. Cover Material (Barrier Layer):

Off-Site Clay	CY			
On-Site Clay	CY			
Synthetics - 40 mil	SY	90,992	3.63	330,192
Synthetics - 30 mil	SY			
Synthetics - GCL	SY			
Comp. Drainage Net	SY	90,992	4.67	425,351

Subtotal Cover Material \$ 755,543

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

4. Top Soil and Drainage Layer:

On-Site Material	CY	50,551	2.02	101,911
Off-Site Material	CY	10,110	6.30	63,694
Delivery	CY	10,110	5.29	53,503
Spreading	CY	60,661	1.64	99,363
Compaction	CY	60,661	0.63	38,217

Subtotal Top Soil Cover \$ **356,689**

5. Stormwater Control: **Existing stormwater pond will be used.**

Excavation, Grading, Recontouring	CY			
Stormwater Control	EA			
Ditch Erosion Control	SY			
Berm Construction	CY	Included in "Slope and Fill" above		
Rip-Rap	CY			

Subtotal Stormwater Control _____

6. Gas Migration Control:

Wells	LF	1,140	157.50	179,550
Pipe and Fittings	LF			
Traps	EA			
Sump	EA			
Flare Assembly	EA	19	3,150.00	59,850
Flame Arrestor	EA			
Mist Eliminator	EA			
Flow Meter	EA			
Blowers	EA			
Monitoring Probes	LF	120	24.00	2,880

Subtotal Gas Migration Control \$ **242,280**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

7. Revegetation:

Sodding	SY	9,099	3.78	34,395
Soil Preparation/ Grading	SY	90,992	0.09	8,025
Hydroseeding	AC	47	914.76	42,646
Fertilizer	AC	49	182.95	8,873
Mulch	AC	47	914.76	42,646

Subtotal Revegetation \$ **136,586**

8. Landscape Irrigation System:

Not needed for site location and vegetation used.

Pipe and Fittings	LF			
Pumps	EA			

Subtotal Landscape Irrigation System

9. Security System:

Not applicable - Security system is already inplace.

Fencing	LF			
Gate(s)	EA			
Sign(s)	EA			

Subtotal Security System

10. Engineering:

Closure Plan Report	LS	1	49,000	49,000
Certified Engineering Drawings (for construction	LS	1	113,000	113,000
Closure Permit	LS	1	8,500	8,500

Other (Detail):

Subtotal Engineering \$ **170,500**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
11. Benchmark Installation	EA	4	516	2,064
Benchmark Survey	LS	1	7,742	7,742
Subtotal Benchmark Installation				\$ 9,806
12. Certification of Closure	LS	Included in "Engineering" cost.		
Subtotal Certification of Closure				
13. Administrative:		Hours	@\$/hour	
P.E. Supervisor	HR	50	93	4,650
On-Site Engineer	HR	50	67	3,350
Office Engineer	HR	100	72	7,200
On-Site Technician	HR	50	41	2,050
Other-(explain):	HR			
Office/Clerical		100	31	3,100
Subtotal Administration				\$ 20,350
14. Quality Assurance:		Hours	@\$/hour	
P.E. Supervisor	HR	312	93	29,016
On-Site Engineer	HR	1300	67	87,100
Office Engineer	HR	52	72	3,744
On-Site Technician	HR	1040	41	42,640
QA Testing	LS	1	15,484	15,484
Other-(explain):				
Office/Clerical		312	31	9,672
Subtotal Quality Assurance				\$ 187,656

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

15. Site Specific Costs (explain):

Waste Tire Facility			\$	7,619

Subtotal Site Specific Costs \$ 7,619

16. Contingency % of Total 25% \$ 504,241

TOTAL CLOSING COSTS \$ 2,521,206

CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility, and comply with the requirements of Florida Administrative Code (FAC), Rule 17-1701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be revised and submitted to the Department annually as required by FAC 17-701.630(4).

Signature

12/16/97

CH2M HILL

Company Name

R. J. Bruner III, Environmental Engineer
Name and Title (please Type)

3011 S.W Williston Road
Mailing Address

PE-35951
Florida Registration Number (please affix seal)

Gainesville, Florida 32608-3928
City, State, Zip Code

352/335-7991
Telephone Number

Date: 12/16/97

IIIB. ESTIMATED CLOSING COST - CITRUS CO. CENT. LANDFILL, 60 AC CLOSED AREA

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

****Third Party Estimate/Quote must be provided for each item.**

****Costs must be for a third party providing all material and labor.**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A).

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

1. Monitoring Wells: Not applicable - facility is closed and being monitored and maintained.

Borehole Excavation	CY			
Backfill	CY			
Gravel Pack	CY			
Casing	LF			
Screen	EA			
Cap	EA			

Subtotal Monitor Wells _____

2. Slope and Fill: Not applicable - facility is closed and being monitored and maintained.

Excavation	CY			
Placement/Spreading	SY			
Compaction	CY			
Off-Site Material	CY			

Subtotal Slope and Fill _____

3. Cover Material (Barrier Layer): Not applicable - facility is closed and being monitored and maintained.

Off-Site Clay	CY			
On-Site Clay	CY			
Synthetics - 40 mil	SY			
Synthetics - 30 mil	SY			
Synthetics - GCL	SY			
8 oz. Comp. Geonet	SY			

Subtotal Cover Material _____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

4. Top Soil and Drainage Layer: **Not applicable - facility is closed and being monitored and maintained.**

On-Site Material	CY			
Off-Site Material	CY			
Delivery	CY			
Spreading	SY			
Compaction	CY			

Subtotal Top Soil Cover _____

5. Stormwater Control: **Not applicable - facility is closed and being monitored and maintained.**

Excavation, Grading, Recontouring	CY			
Stormwater Control	EA			
Ditch Erosion Control	SY			
Berm Construction	CY			
Rip-Rap	CY			

Subtotal Stormwater Control _____

6. Gas Migration Control: **Not applicable - facility is closed and being monitored and maintained.**

Wells	LF			
Pipe and Fittings	LF			
Traps	EA			
Sump	EA			
Flare Assembly	EA			
Flame Arrestor	EA			
Mist Eliminator	EA			
Flow Meter	EA			
Blowers	EA			
Monitoring Probes	LF			

Subtotal Gas Migration Control _____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

7. Revegetation: **Not applicable - facility is closed and being monitored and maintained.**

Sodding	SY	_____	_____	_____
Soil Preparation/ Grading	SY	_____	_____	_____
Hydroseeding	AC	_____	_____	_____
Fertilizer	AC	_____	_____	_____
Mulch	AC	_____	_____	_____

Subtotal Revegetation _____

8. Landscape Irrigation System: **Not applicable - facility is closed and being monitored and maintained.**

Pipe and Fittings	LF	_____	_____	_____
Pumps	EA	_____	_____	_____

Subtotal Landscape Irrigation System _____

9. Security System: **Not applicable - facility is closed and being monitored and maintained.**

Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____

Subtotal Security System _____

10. Engineering: **Not applicable - facility is closed and being monitored and maintained.**

Closure Plan Report	LS	_____	_____	_____
Certified Engineering Drawings (for construction	LS	_____	_____	_____
Closure Permit	LS	_____	_____	_____

Other (Detail):

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Subtotal Engineering _____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

11. Benchmark Installation EA Not applicable - facility is closed and being monitored and maintained.

Benchmark Survey LS _____

Subtotal Benchmark Installation _____

12. Certification of Closure LS Not applicable - facility is closed and being monitored and maintained.

Subtotal Certification of Closure _____

13. Administrative: Not applicable - facility is closed and being monitored and maintained.

P.E. Supervisor HR _____

On-Site Engineer HR _____

Office Engineer HR _____

On-Site Technician HR _____

Other-(explain): HR _____

Office/Clerical _____

Subtotal Administration _____

14. Quality Assurance: Not applicable - facility is closed and being monitored and maintained.

P.E. Supervisor HR _____

On-Site Engineer HR _____

Office Engineer HR _____

On-Site Technician HR _____

QA Testing LS _____

Other-(explain): _____

Subtotal Quality Assurance _____

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
-------------	------	----------	-----------	-------

15. Site Specific Costs (explain):

_____	_____
_____	_____
_____	_____
_____	_____

Subtotal Site Specific Costs _____

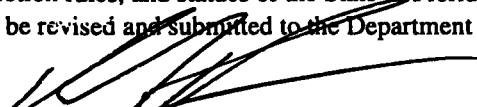
16. Contingency % of Total \$ _____

TOTAL CLOSING COSTS \$ _____

CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility, and comply with the requirements of Florida Administrative Code (FAC), Rule 17-1701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be revised and submitted to the Department annually as required by FAC 17-701.630(4).

Signature


12/16/97

CH2M HILL

Company Name

R. J. Bruner III, Environmental Engineer

Name and Title (please Type)

3011 S.W Williston Road

Mailing Address

PE-35951

Florida Registration Number (please affix seal)

Gainesville, Florida 32608-3928

City, State, Zip Code

352/335-7991

Telephone Number

Date: 12/16/97

IVA. ANNUAL COST FOR LONG-TERM CARE - CITRUS COUNTY CENTRAL LANDFILL

(for 20 or 30 yrs., see 17-1701.600(1)a.1.)

(circle one)

****Third Party Estimate/Quote must be provided for each item.**

****Costs must be for a third party providing all material and labor.**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A).

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)= (A)x(B)x(C)
1. Groundwater Monitoring 17-701.510(6),(8)(a)	sampling frequency events/yr	# of wells	\$/well/event	\$/yr
Monthly				
Quarterly				
Semi-Annual	2	12	600	14,400
Annual				
Subtotal Groundwater Monitoring				\$ 14,400
2. Gas Monitoring 17-701.400(10)	sampling frequency events/yr	# of locations	\$/location/event	\$/yr
Monthly				
Quarterly	4	94	7.40	2,782
(Probes)				
Semi-Annual				
(Condensate)				
Annual				
Subtotal Gas Migration Monitoring				\$ 2,782
3. Leachate Monitoring 17-701.510(5), (6)(b), 17-701.510(8)(c)	sampling frequency events/yr	# of locations	\$/location/event	\$/yr
Weekly	52	1	125	6,500
Quarterly	1	4	190	760
Semi-Annual	1	2	290	580
Annual	1	1	2,500	2,500
Subtotal Leachate Monitoring				\$ 10,340

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)= (A)x(B)x(C)
-------------	-------------	-----------------	------------------	-----------------------------------

4. Surface Water Monitoring
17-701.510(4), (8)(b)

sampling frequency events/yr

of locations

\$/location/event

\$/yr

Not applicable - Surface water monitoring is not required by permit.

Monthly

Quarterly

Semi-Annual

Annual

Subtotal Surface Water Monitoring

5. Maintenance of Leachate Collection/Treatment Systems

Collection Pipes LF 5,400 0.04 216

Sumps, Traps EA

Lift Stations EA 11 900 9,900
Includes stormwater lift station.

Tanks EA 2 2,700 5,400

Impoundments-
Liner Repair SY

Sludge Removal CY

Aeration Systems-
Fine Bubble Aerators EA 4 1,200 4,800

Spray Aerators EA

Off-Site Disposal 1000 gal

On-Site Pretreatment System Maintenance-(Describe)

On-Site Treatment 1000 gal 600 40.00 24,000
- including electricity for leachate pumps, blowers, etc.

Other (Describe)- Months \$/Month

Subtotal Leachate Collection/Treatment System Maintenance \$ 44,316

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)= (A)x(B)x(C)
-------------	-------------	-----------------	------------------	-----------------------------------

6. Maintenance of Groundwater
Monitoring Wells

LF	30	52	1,560
----	----	----	-------

Subtotal Groundwater Monitoring Well Maintenance \$ 1,560

7. Maintenance of Gas Migration System

Piping, Vents	LF	25	157.50	3,938
---------------	----	----	--------	-------

Blowers	EA			
---------	----	--	--	--

Flaring Units	EA	1	3,150	3,150
---------------	----	---	-------	-------

Meters, Valves	EA			
----------------	----	--	--	--

Subtotal Gas Migration System Maintenance \$ 7,088

8. Landscape Maintenance

Mowing	AC	140	100	14,000
--------	----	-----	-----	--------

Fertilizer	AC	140	6.20	868
------------	----	-----	------	-----

Irrigation	AC			
------------	----	--	--	--

Subtotal Landscape Maintenance \$ 14,868

9. Benchmark Maintenance

EA	1	155	155
----	---	-----	-----

Subtotal Benchmark Maintenance \$ 155

10. Administrative/Overhead:

Hours @\$/hour

P.E. Supervisor	HR	18	93	1,674
-----------------	----	----	----	-------

On-Site Engineer	HR	144	67	9,648
------------------	----	-----	----	-------

Office Engineer	HR			
-----------------	----	--	--	--

On-Site Technician	HR	312	41	12,792
--------------------	----	-----	----	--------

Other-(explain):

<u>Office/Clerical</u>	HR	72	31	2,232
------------------------	----	----	----	-------

Electricity:	LS	1	6,200	6,200
--------------	----	---	-------	-------

-including stormwater pumps, lighting, etc. (excludes leachate treatment)

Subtotal Administrative/Overhead \$ 32,546

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)= (A)x(B)x(C)
-------------	-------------	-----------------	------------------	-----------------------------------

11. Maintenance of Cover:

Sodding	SY	2,000	3.80	7,600
Regrading	SY	2,000	1.60	3,200
Liner Repair- Synthetic	SY	300	8.00	2,400
Clay	CY			
Subtotal Cover Integrity Maintenance				\$ 13,200

12. Surface Water Drainage Maintenance

Ditch Cleaning	LF	12,600	0.15	1,890
Stormwater Conveyance Maint.	EA	2	155	310
Subtotal Drainage Maintenance				\$ 2,200

13. Security System Maintenance:

Fencing	LF	200	12	2,400
Gate(s)	EA	1	155	155
Sign(s)	EA	1	206	206
Subtotal Security System Maintenance				\$ 2,761

14. Remedial Actions	LS	% of Total	10%	14,622
----------------------	----	------------	-----	--------

Subtotal Remedial Actions \$ 14,622

15. Site Specific Costs (explain):

Subtotal Site Specific Costs

\$ 160,837

TOTAL LONG-TERM CARE COST (\$)
(\$/year times required years of long-term care)

\$ 4,825,125

CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility, and comply with the requirements of Florida Administrative Code (FAC), Rule 17-1701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be revised and submitted to the Department annually as required by FAC 17-701.630(4).

Signature

CH2M HILL

Company Name

R. J. Bruner III, Environmental Engineer

Name and Title (please Type)

3011 S.W Williston Road

Mailing Address

PE-35951

Florida Registration Number (please affix seal)

Gainesville, Florida 32608-3928

City, State, Zip Code

352/335-7991

Telephone Number

Date: 12/16/97

CITRUS COUNTY, FLORIDA
FINANCIAL STATEMENTS, SUPPLEMENTARY INFORMATION
AND
INDEPENDENT AUDITOR'S REPORT
FOR THE YEAR ENDED SEPTEMBER 30, 1997

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**INDEPENDENT AUDITOR'S REPORT ON THE GENERAL PURPOSE
FINANCIAL STATEMENTS, SUPPLEMENTARY SCHEDULE OF EXPENDITURES
OF FEDERAL AWARDS AND OTHER FINANCIAL INFORMATION**

Board of County Commissioners
Citrus County, Florida
Inverness, Florida

We have audited the accompanying general purpose financial statements of Citrus County, Florida as of and for the year ended September 30, 1997, as listed in the table of contents. These financial statements of Citrus County, Florida are the responsibility of the County's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We have conducted our audit in accordance with generally accepted auditing standards, Government Auditing Standards, issued by the Comptroller General of the United States and the provisions of Office of Management and Budget Circular A-133, "Audits of State and Local governments and Non-Profit Organizations". Those standards and the provisions of OMB Circular A-133, require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the general purpose financial statements referred to above present fairly, in all material respects, the financial position of Citrus county, Florida, at September 30, 1997, and the results of its operations and cash flows of its proprietary fund types for the year then ended, in conformity with generally accepted accounting principles.

As more fully explained in Note 24 to the financial statements, the County changed its method of accounting for its employee deferred compensation agency fund.

As more fully explained in Note 21 to the financial statements, the County changed certain assumptions relating to landfill closure, postclosure care costs and capacity.

Board of County Commissioners
Citrus County, Florida

Our audit was made for the purpose of forming an opinion on the general purpose financial statements taken as a whole. The accompanying schedule of expenditures of federal awards as required by OMB Circular A-133, the schedule of Florida state financial assistance as required by Rules of the Auditor General, Chapter 10.600, State of Florida and other supplementary information listed in the table of contents as supplementary information is presented for the purpose of additional analysis and are not a required part of the general purpose financial statements of Citrus County, Florida. Such information has been subjected to the auditing procedures applied in the audit of the general purpose financial statements and, in our opinion, is fairly stated in all material respects in relation to the general purpose financial statements taken as a whole.

In accordance with Government Auditing Standards, we have also issued a report dated December 23, 1997, on our consideration of Citrus County, Florida's internal control over financial reporting and our tests of its compliance with certain provisions of laws and regulations, contracts and grants.

Williams, McCranie & Sutton, P.A.
Williams, McCranie & Sutton, P.A.

Inverness, Florida
December 23, 1998

CITRUS COUNTY, FLORIDA
 COMBINED BALANCE SHEET - ALL FUND TYPES AND ACCOUNT GROUPS
 SEPTEMBER 30, 1997

	GOVERNMENTAL FUND TYPES				PROPRIETARY FUND TYPES	
	GENERAL	SPECIAL REVENUE	DEBT SERVICE	CAPITAL PROJECTS	ENTERPRISE	INTERNAL SERVICE
ASSETS AND OTHER DEBITS						
Cash	\$1,776,569	\$ 265,991	\$ -	\$ -	\$ 336	\$ 50,929
Cash with fiscal agent	-	-	-	-	-	217,284
Investments with fiscal agent	-	-	1,001,199	-	-	-
Investments, at cost	3,904,663	22,250,392	1,895,203	961,459	5,849,845	2,763,141
Accounts receivable (net of allowance for uncollectable accounts)	6,455	33,398	-	-	391,074	44,384
Special assessments receivable	-	486,410	24,283	-	4,001	-
Due from other funds	333,132	1,216	-	-	-	53,840
Due from other governments	1,875,103	1,311,103	-	-	39,573	18,229
Inventory	-	50,391	-	-	-	110,463
Prepaid expenses	58,607	49,041	319	-	5,436	285,061
Property held - not forfeited / sold	-	-	-	-	-	-
Restricted Assets:						
Investments	-	-	-	-	2,788,695	-
Fixed assets, net of accumulated depreciation and amortization	-	-	-	-	18,532,302	1,318,122
Amount available in debt service funds	-	-	-	-	-	-
Amount to be provided for retirement of general long - term debt	-	-	-	-	-	-
TOTAL ASSETS AND OTHER DEBITS	\$7,954,529	\$24,447,942	\$2,921,004	\$ 961,459	\$ 27,611,262	\$4,861,453

The notes to the financial statements are an integral part of these statements.

CITRUS COUNTY, FLORIDA
 NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
 FOR THE YEAR ENDED SEPTEMBER 30, 1997

NOTE 21: LANDFILL CLOSURE AND POSTCLOSURE COSTS

State and Federal laws and regulations require that the County place a final cover on its landfill when closed and perform certain maintenance and monitoring functions at the landfill site for thirty years after closure. The amount of cost recognized each period is based on the amount of waste received during the period, even though some of the closure and postclosure care costs will be paid after the landfill is closed.

Annual engineering estimates of postclosure costs, closure costs and landfill capacity are used as a basis for recognizing annual charges to operations for these costs. The engineering estimates for these costs done during the current fiscal year reflected lower postclosure costs than had previously been estimated and a significant increase in landfill capacity as outlined below:

	1996	1997
	Estimates	Estimates
Closure costs	\$2,032,751	\$4,427,831
Postclosure care	\$10,631,460	\$5,214,150
Landfill capacity in cubic yard	1,893,000	3,666,000

During the current year, the County adopted plans to develop the remaining landfill site which significantly affected previously estimated landfill capacity, closure and postclosure care costs.

The increase in landfill capacity of 1,773,000 cubic yards and the decrease in combined estimated closure and postclosure cost of \$3,022,230 had the effect of reducing the accrued liability for closure and postclosure care costs by \$3,838,384, which is reflected as a reduction in operating costs of the landfill in the current year and a corresponding reduction in the liability for closure and postclosure care costs. Future changes in estimated costs and capacity based on regulatory and economic factors may significantly affect the estimated costs and capacity of the landfill. Management believes that the current estimates accurately reflects the facts and circumstances most likely to occur as now anticipated operations and development of the landfill site continues.

CITRUS COUNTY, FLORIDA
NOTES TO THE FINANCIAL STATEMENTS (CONTINUED)
FOR THE YEAR ENDED SEPTEMBER 30, 1997

NOTE 21: LANDFILL CLOSURE AND POSTCLOSURE COSTS (CONTINUED)

The \$2,525,221 accrued liability for landfill closure and postclosure care costs represents the extent to which accrued costs for closure and postclosure care recognized exceed actual costs paid to date. The amount of the remaining estimated cost of \$7,116,760 for the current landfill cell closure and the landfill postclosure care cost will be recognized on a pro rata basis as the remaining capacity of the landfill is used. As of year-end, approximately 26% of the total capacity, as currently estimated, had been used. The County expects the landfill to close in 2014. All amounts recognized are based on what it could cost to perform all closure and postclosure care at year-end; however, actual costs may be higher due to inflation. The County is required by state law to make annual contributions to finance closure costs. The closure costs calculations required by the State is based on a total capacity of 1,893,000 cubic yards and, accordingly, results in a higher escrow requirement than if the capacity for financial statement purposes was used. The County is in compliance with the State requirements and holds \$1,985,764 in its closure costs accounts at year-end.

It is anticipated that future inflation costs will be, in part, financed by the earnings on investments. The remaining portion of anticipated future inflation costs (including inadequate earnings on investments, if any) and additional costs that might arise from changes in postclosure requirements (due to changes in technology or more rigorous environmental regulations, for example), may need to be covered by charges to future landfill users, taxpayers, or both.

During the current year, the County experienced a decrease in landfill revenues. This has resulted in the County exploring additional methods of supporting landfill operations, including an annual countywide assessment on each household.

NOTE 22: UNCONDITIONAL PURCHASE OBLIGATIONS

The County has entered into an agreement with Withlacoochee Regional Water Supply Authority (The Authority) which calls for the Authority to build and provide for the operations of a water supply facility to provide a potable water supply to the County. The County will have the right to use, as much water from this facility as it requires over a thirty-year period. In return, the County has agreed to the following unconditional payments to the Authority regardless of the quantity of water actually consumed:

CITRUS COUNTY, FLORIDA
 COMBINING BALANCE SHEET - ALL ENTERPRISE FUNDS
 SEPTEMBER 30, 1997

	<u>SANITARY LANDFILL</u>	<u>PUBLIC UTILITY</u>	<u>TOTALS</u>
<u>ASSETS</u>			
Current Assets:			
Cash	\$ 232	\$ 104	\$ 336
Accounts and connections receivable (net of allowance for uncollectible)	155,728	235,346	391,074
Assessments receivable	-	4,001	4,001
Investments	2,216,396	3,633,449	5,849,845
Due from other governments	39,545	28	39,573
Prepaid expenses	2,402	3,034	5,436
Total Current Assets	<u>2,414,303</u>	<u>3,875,962</u>	<u>6,290,265</u>
Restricted Assets:			
Investments	<u>2,350,408</u>	<u>438,287</u>	<u>2,788,695</u>
Total Restricted Assets	<u>2,350,408</u>	<u>438,287</u>	<u>2,788,695</u>
Property and equipment, net	<u>7,107,575</u>	<u>11,424,727</u>	<u>18,532,302</u>
Total Assets	<u>\$ 11,872,286</u>	<u>\$ 15,738,976</u>	<u>\$ 27,611,262</u>

CITRUS COUNTY, FLORIDA
COMBINING BALANCE SHEET - ALL ENTERPRISE FUNDS (CONTINUED)
SEPTEMBER 30, 1997

	SANITARY LANDFILL	PUBLIC UTILITY	TOTALS
<u>LIABILITIES AND FUND EQUITY</u>			
Current Liabilities (payable from current assets):			
Accounts payable	\$ 279,397	\$ 112,531	\$ 391,928
Other accrued liabilities and compensated absences	56,512	46,278	102,790
Current portion - notes payable	974,333	206,652	1,180,985
Total Current Liabilities (Payable from Current Assets)	<u>1,310,242</u>	<u>365,461</u>	<u>1,675,703</u>
Current Liabilities (payable from restricted assets):			
Due to other governments	-	438,287	438,287
Customer deposits	-	139,864	139,864
Total Current Liabilities (payable from restricted assets)	<u>-</u>	<u>578,151</u>	<u>578,151</u>
Long - term Liabilities, less current portion			
Deferred capital contributions	-	3,539,273	3,539,273
Accrued postclosure and closure costs	2,525,221	-	2,525,221
Notes payable	3,356,256	1,357,510	4,713,766
Total Long - Term Liabilities	<u>5,881,477</u>	<u>4,896,783</u>	<u>10,778,260</u>
Total Liabilities	<u>7,191,719</u>	<u>5,840,395</u>	<u>13,032,114</u>
Fund Equity:			
Contributed capital:			
Capital grants	120,662	-	120,662
Developers and customers	-	7,620,462	7,620,462
County	118,399	1,022,279	1,140,678
Total Contributed Capital	<u>239,061</u>	<u>8,642,741</u>	<u>8,881,802</u>
Retained Earnings:			
Reserve for closure and postclosure costs	2,350,407	-	2,350,407
Unreserved	2,091,099	1,255,840	3,346,939
Total Retained Earnings	<u>4,441,506</u>	<u>1,255,840</u>	<u>5,697,346</u>
Total Fund Equity	<u>4,680,567</u>	<u>9,898,581</u>	<u>14,579,148</u>
Total Liabilities and Fund Equity	<u>\$ 11,872,286</u>	<u>\$ 15,738,976</u>	<u>\$ 27,611,262</u>

CITRUS COUNTY, FLORIDA
COMBINING STATEMENT OF REVENUES, EXPENSES AND CHANGES IN
RETAINED EARNINGS - ALL ENTERPRISE FUNDS
FOR THE YEAR ENDED SEPTEMBER 30, 1997

	SANITARY LANDFILL	PUBLIC UTILITY	TOTALS
Operating Revenues :			
Charges for services	<u>\$ 2,347,672</u>	<u>\$ 1,800,198</u>	<u>\$ 4,147,870</u>
Total Operating Revenues	<u>2,347,672</u>	<u>1,800,198</u>	<u>4,147,870</u>
Operating Expenses :			
Personal services	545,575	578,933	1,124,508
Contractual services	506,696	83,773	590,469
General operating	314,716	441,887	756,603
Purchased water	-	226,163	226,163
Depreciation	829,426	465,745	1,295,171
Provision (credit) for long - term care and closure costs	<u>(3,838,384)</u>	<u>-</u>	<u>(3,838,384)</u>
Total Operating Expenses	<u>(1,641,971)</u>	<u>1,796,501</u>	<u>154,530</u>
Operating Income	3,989,643	3,697	3,993,340
Nonoperating Revenue (Expenses)			
Gain (loss) on disposal of fixed assets	103,321	1,250	104,571
Other income	48,333	68,854	117,187
Operating grants	263,080	-	263,080
Interest income	274,731	208,679	483,410
Interest expense	<u>(221,746)</u>	<u>(80,724)</u>	<u>(302,470)</u>
Total Nonoperating Revenues	<u>467,719</u>	<u>198,059</u>	<u>665,778</u>
Income before operating transfers	4,457,362	201,756	4,659,118
Operating transfers in	275,000	80,000	355,000
Operating transfers (out)	<u>(327,434)</u>	<u>(216,100)</u>	<u>(543,534)</u>
Net Income	4,404,928	65,656	4,470,584
Retained Earnings			
Beginning of Year	<u>36,578</u>	<u>1,190,184</u>	<u>1,226,762</u>
End of Year	<u>\$ 4,441,506</u>	<u>\$ 1,255,840</u>	<u>\$ 5,697,346</u>

CITRUS COUNTY, FLORIDA
COMBINING STATEMENT OF CASH FLOWS - ALL ENTERPRISE FUNDS
FOR THE YEAR ENDED SEPTEMBER 30, 1997

	<u>SANITARY LANDFILL</u>	<u>PUBLIC UTILITY</u>	<u>TOTALS</u>
Cash flows from operating activities :			
Cash received from customers	\$2,411,161	\$1,770,016	\$4,181,177
Cash payments to suppliers for goods and services	(707,940)	(686,668)	(1,394,608)
Cash payments to employees for services	(541,547)	(572,404)	(1,113,951)
Net cash provided by operating activities	<u>1,161,674</u>	<u>510,944</u>	<u>1,672,618</u>
Cash flows from noncapital financing activities :			
Escrow deposits from other governments	-	92,479	92,479
Other income	48,333	68,854	117,187
Operating grants received	247,732	-	247,732
Customer deposits	-	7,841	7,841
Operating transfers in (out)	(52,434)	(136,100)	(188,534)
Net cash provided by noncapital financing activities	<u>243,631</u>	<u>33,074</u>	<u>276,705</u>
Cash flows from capital and related financing activities :			
Proceeds from asset sales	195,599	1,250	196,849
Proceeds from notes payable	4,765,062	-	4,765,062
Assessments receivable - collections	-	1,015	1,015
Connections fees received	-	797,701	797,701
Principal paid on note payable	(3,543,969)	(197,229)	(3,741,198)
Interest paid	(221,746)	(80,724)	(302,470)
Acquisition of capital assets	(2,431,164)	(668,627)	(3,099,791)
Net cash (used by) capital and related financing activities	<u>(1,236,218)</u>	<u>(146,614)</u>	<u>(1,382,832)</u>
Cash flows from investing activities :			
Interest on Investments	274,731	208,679	483,410
Net cash provided by investing activities	<u>274,731</u>	<u>208,679</u>	<u>483,410</u>
Net increase in cash	443,818	606,083	1,049,901
Cash at beginning of year	4,123,218	3,465,757	7,588,975
Cash at end of year	<u>\$4,567,036</u>	<u>\$4,071,840</u>	<u>\$8,638,876</u>
Reconciliation of operating income to net cash provided by operating activities			
Operating income	\$3,989,643	\$ 3,697	\$3,993,340
Adjustments to reconcile operating income to net cash provided by operating activities			
Depreciation	829,426	465,745	1,295,171
Changes in assets and liabilities :			
(Increase) decrease in accounts receivable	63,489	(30,182)	33,307
Increase in accounts payable	106,735	67,974	174,709
Increase in accrued liabilities	4,028	6,529	10,557
(Increase) decrease in prepaid assets	6,737	(2,819)	3,918
(Decrease) in accrued landfill closure costs	(3,838,384)	-	(3,838,384)
Total Adjustments	<u>(2,827,969)</u>	<u>507,247</u>	<u>(2,320,722)</u>
Net cash provided by operating activities	<u>\$1,161,674</u>	<u>\$ 510,944</u>	<u>\$1,672,618</u>

Cash Flows Accounting Policy

For purposes of the statement of cash flows, the County considers all investments (including restricted investments) to be cash equivalents. The County's investments in the enterprise funds consist of amounts on deposit with the State Board of Administration, which are readily convertible to cash.

Significant non - cash transactions

During the year a developer contributed a sewer system totaling \$ 133,153 to the public utility fund.

Exhibit E

Minor Permit Modification Application for the Construction of Training Structure



BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

300 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

UTILITY 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

April 28, 1998

Kim B. Ford, P.E.
Solid Waste Section
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Citrus County Central Landfill
Permit No. SC09-211030, Closed 60-Acre Site
Minor Permit Modification Request - Firing Range Area

Dear Mr. Ford:

This is a follow-up to our phone conversation today and a supplement to the April 20 application for a minor permit modification for construction of a training structure for the firing range area on the closed landfill.

There is a change to the proposed structure design. First the orientation will be turned 90 degrees, facing south rather than west, with the long dimension running east-west.. This will still result in having a dirt berm behind the targets. It will simplify construction in that the foundation will be level; that area is sloped from south to north for drainage.

This project will result in reuse of about 250 large off-road tires, a major benefit in the recycling hierarchy. If the training facility is ever abandoned, WTI will be responsible for removing and properly disposing of the structures (including tires) and any contaminated soil.

The facility will be used not only by Citrus County law enforcement trainees, but it has been recommended that this be used as a regional training site for several surrounding counties. WTI personnel are eager to begin the project and can be available to answer questions you may have during your review.

STATE OF FLORIDA
COUNTY OF CITRUS
INVERNESS, FLORIDA

County Warrant

130255

DEPARTMENT	ACCOUNT	PURCH. ORDER	INVOICE NUMBER	AMOUNT	DESCRIPTION
116	54912		PERMIT	250.00	MINOR PERMIT MODIFICATION

0548.4 DEPT OF ENVIRONMENTAL PROTECTION

PLEASE DETACH
BEFORE DEPOSITING

STATE OF FLORIDA
County Warrant
110 N. APOPKA AVENUE
INVERNESS, FLORIDA 34450-4299

CITRUS COUNTY ACCOUNTS PAYABLE
SUNTRUST BANK
INVERNESS, FLORIDA
VOID AFTER 90 DAYS
63-115
631

130255
CHECK
DATE 130255
04/14/98

AMOUNT *****250.00**

PAY TWO HUNDRED FIFTY DOLLARS & ZERO CENTS

TO THE
ORDER

DEPT OF ENVIRONMENTAL PROTECTION

Harry Bostell
CHAIRMAN BOARD OF COUNTY COMMISSIONERS
SEAL
Betty Stifler
CLERK AND AUDITOR CITRUS COUNTY

⑈130255⑈ ⑈063101153⑈6990134054003⑈



BOARD OF COUNTY COMMISSIONERS DEPARTMENT OF PUBLIC WORKS

REPLY TO:
Solid Waste Management
P.O. Box 340
Lecanto, Florida 34460-0340

April 20, 1998

Kim B. Ford, P.E.
Solid Waste Section
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Citrus County Central Landfill
Permit No. SC09-211030, Closed 60-Acre Site
Minor Permit Modification Request - Firing Range Area

Dear Mr. Ford:

As you know, the closed 60-acre landfill site is a sublease to the County from the Division of Forestry which operates the surrounding Withlacoochee State Forest for the Division of State Lands and the TIITF. The current sublease includes 54 acres of the 60-acre parcel; the Citrus County School Board (Withlachochee Technical Institute) holds the sublease on a 6-acre square parcel in the far southwest corner of the old landfill. That parcel is currently used by the law enforcement training program as a small firearms and physical training area.

Because the Citrus County Board of County Commissioners is the FDEP permit holder for the closed landfill, we are requesting a minor permit modification for the permit No. SC09-211030 for activities and facilities that Withlacoochee Tech. wishes to do in their sublease area. Enclosed is a check in the amount of \$250 as the fee for this permit modification. Also enclosed, are four sketches of the proposed structure. The locations of the sublease area and the proposed structure are shown on two maps of the site.

We understand that the structure will be used for building entry training. There are three subunits with walls built of tires, a front wall with doors and a balcony for the instructor/observer. The back wall of the structure would either be the existing earth berm or another tire wall. Any fill material needed for the area would be provided by the landfill. All other construction would be the responsibility of Withlacoochee Tech.

The contact at Withlacoochee Technical Institute is Eber Brown, WTI, 1201 West Main St., Inverness, FL 34450. His telephone number is (352)726-2430. You may

5000 W. SOVEREIGN PATH
LECANTO, FLORIDA 34461

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

ENGINEERING DIVISION:
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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

50 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

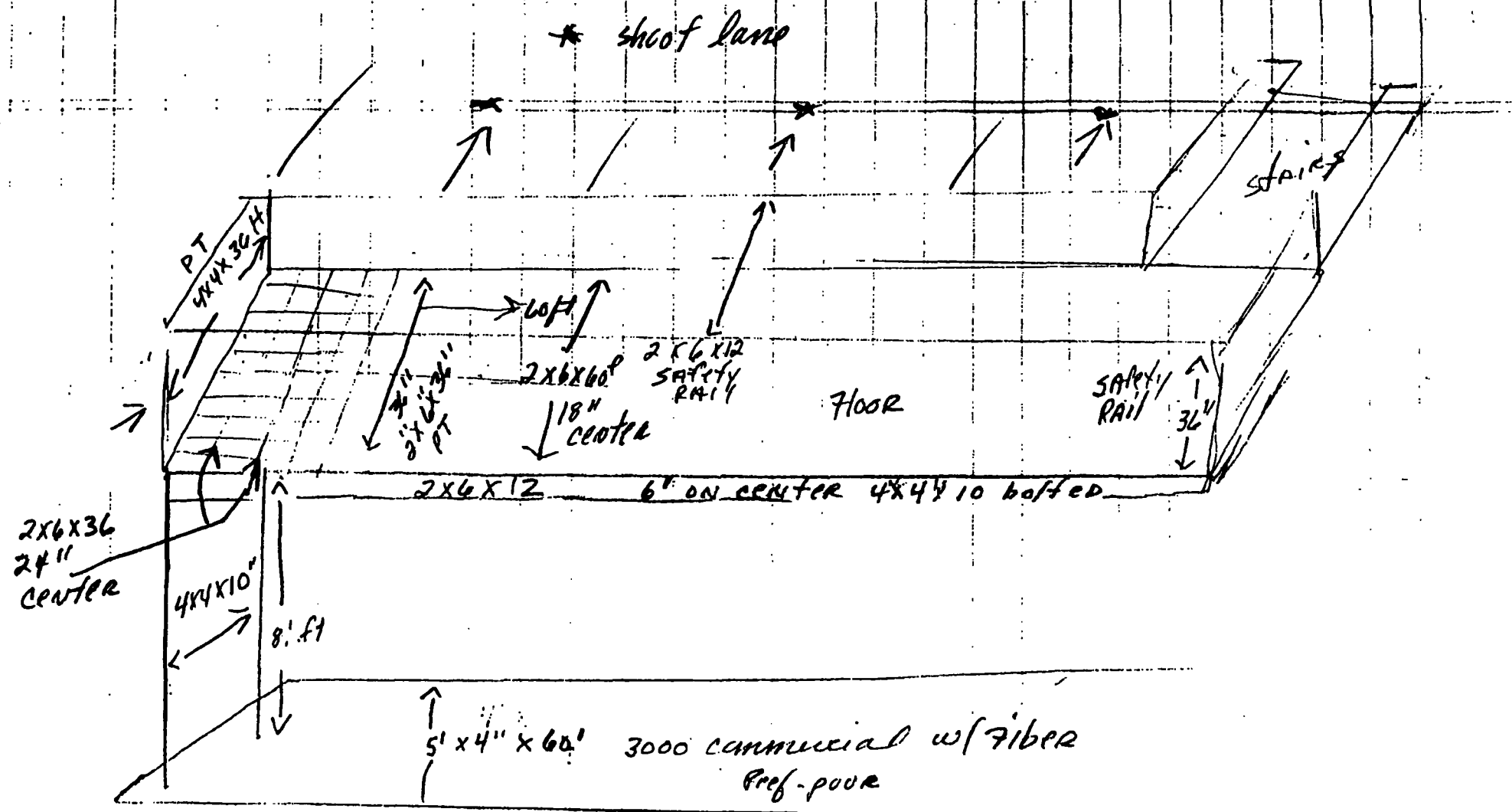
- Fleet Management Section
PO Box 215
Lecanto, FL 34460
352-746-6888 Phone
352-746-5011 Fax

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

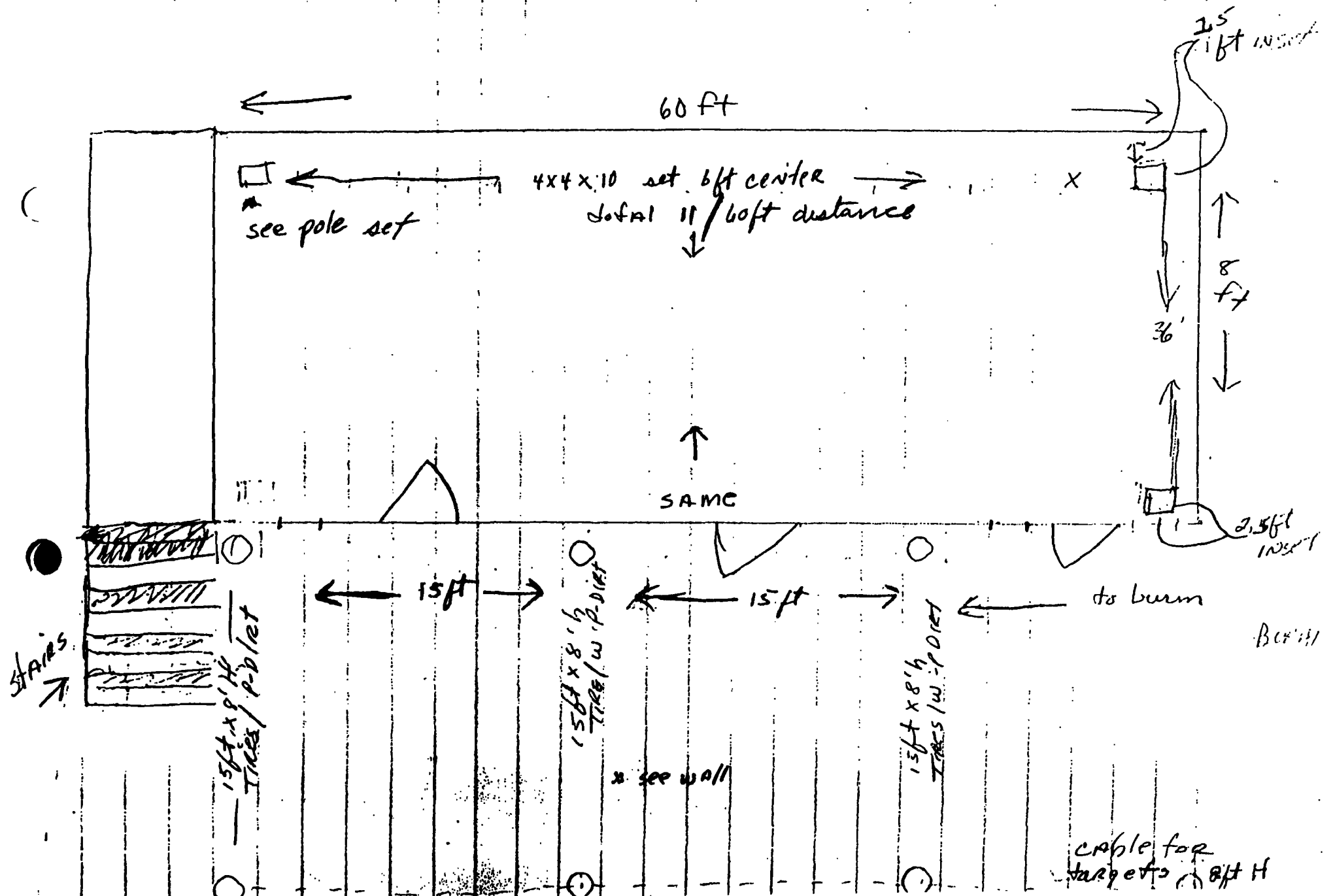
ROAD MAINTENANCE
PO Box 167
Lecanto, FL 34460
352-746-4107 Phone
352-746-1203 Fax

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

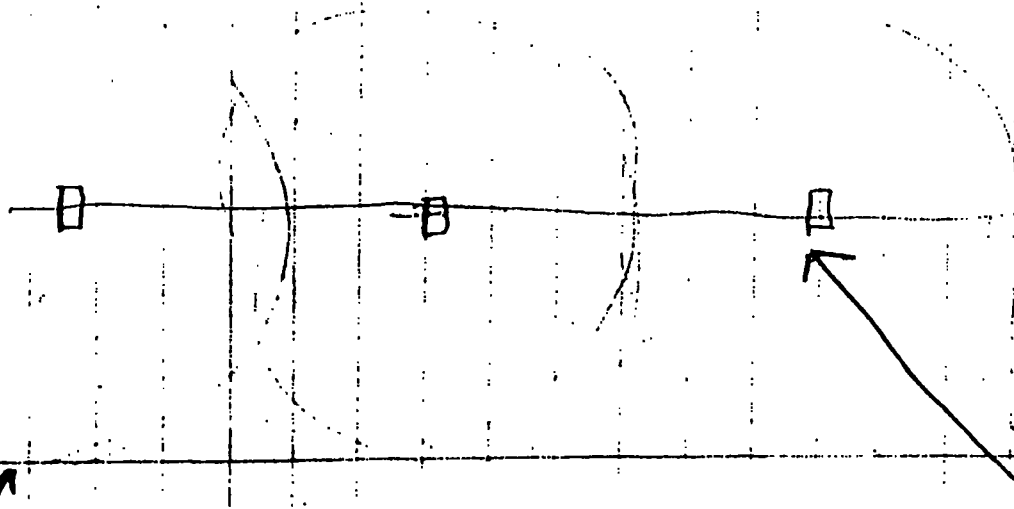
SOLID WASTE MANAGEMENT
230 W. Gulf to Lake Highway
PO Box 340
Lecanto, FL 34460
352-746-5000 Phone
352-527-1204 Fax



OVERVIEW

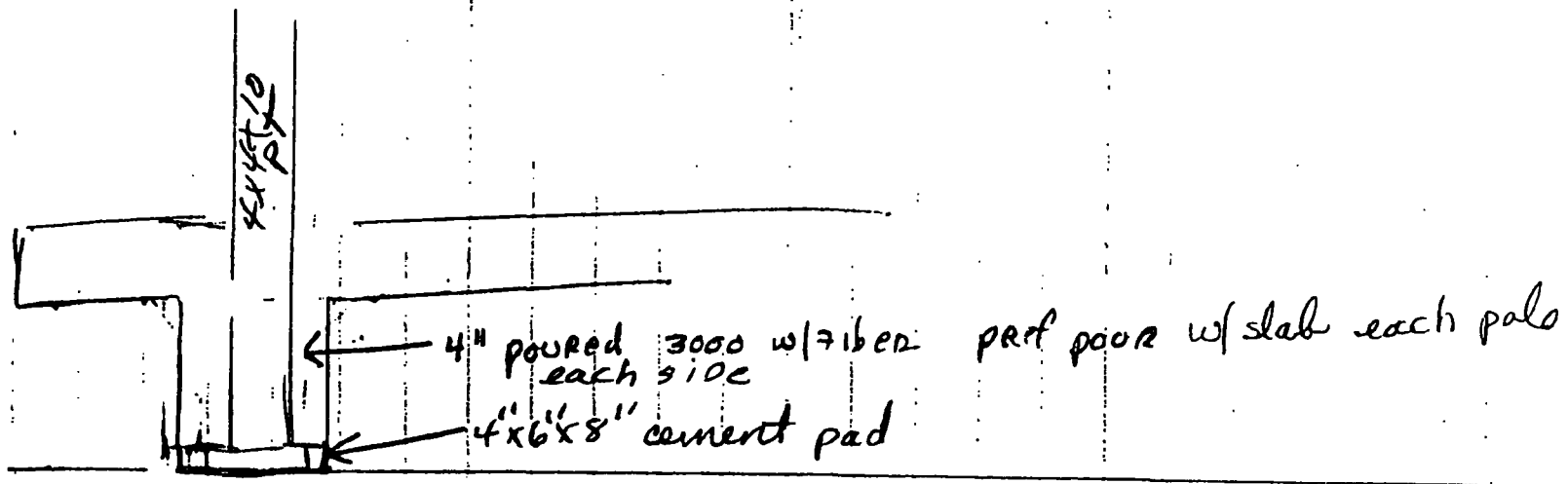


8'N x 40"W x 15'L



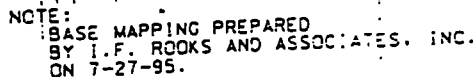
use old tires (truck semi) fill & pack with dirt
encase 2x4s to each tire to lock wall
w/ cable.

wall requires 30" build up. 2' ft depth



site prep:

D: 30" x 8' W x 40' 4" solid pack, on top of existing grade
 pole set 30" depth excavated 4" slab. w/ 4" sides poured.
 slab & structure to run with existing grade for
 DRAINAGE



- PROPOSED GROUNDWATER MONITORING WELLS
- ⊕ GROUNDWATER MONITORING WELLS
- ⊠ GAS MONITORING SAMPLING POINT
- ⊙ GAS VENT

6-acre Sublease Area (WTI)

Proposed Firearms Training Structure

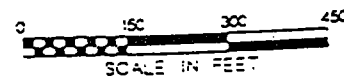


FIGURE 2B
Existing Features of Closed 60-Acre Landfill

N 16-40000
N 16-3500
N 16-3000
N 16-2500
N 16-2000

- LEGEND**
- CAPPED AREA BOUNDARY
 - STORMWATER SWALES
 - ▨ DRAINAGE POND
 - ▨ LINED AREA
 - ⊠ LIFT STATIONS
 - ▭ PAVED ROAD
 - XXXXXX FENCE

NOTE:
BASE MAPPING PREPARED
BY I.F. ROOKS AND ASSOCIATES, INC.
ON 7-27-95.

- 6-acre Sublease Area (WTI)
- ▬ Proposed Firearms Training Structure

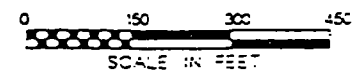


FIGURE 2A
Existing Features of Closed 60-Acre Landfill

figure2a.dlv



Exhibit F

Leachate Collection System Inspection, Repairing, and Maintenance History

Inspection, Repairing, and Maintenance of Leachate Collection System

The 7-acre lined cell in the northeast section of the 60-acre closed landfill is the only section that includes a leachate collection system. During February and March 1997, that entire leachate collection system was inspected and repaired. That project was intended to meet the permit condition (SC-7) requiring verification of system performance. Correspondences from Citrus County to FDEP dated November 25, 1996, December 12, 1996, January 10, 1997, March 10, 1997, September 29, 1997, and October 20, 1997 detail the progress of that project.

Figure 1 shows leachate flow from the 7-acre cell for the entire period of record. The cell was being filled between early 1988 and the end of 1990. Leachate recovered from the Phase 1 cell of the 80-acre site began with filling in January 1991. Flow was not measured separately from those two sources until the end of 1993. From that time until mid-1994, flows were estimated from pump run time. However, pump performance was not confirmed.

The mid 1994 through 1995 flows show gradually diminishing amounts of leachate removed. This may have been due to a combination of pump wear and clogging of the collection system. During February of 1996, an explosion occurred in the east lift station. It was discovered that the pump had a hole in the casing, apparently from abrasion from sand. It was also determined that the bottom several feet of the lift station had filled with sand. A new temporary pump was placed in the lift station just above the sand. In March, a fire occurred in the west lift station. That pump also showed signs of wear but did not have any holes. A new temporary pump was placed in that lift station as well. The increase in flow in March 1996 indicates that the new pumps were performing. Correspondences from Citrus County to FDEP dated February 29, 1997, March 26, 1997 and July 30, 1997 detailed these events.

Debris from the explosion/fire (plastic wiring ties) clogged the flow meter repeatedly in the next few months; sometimes flow was restricted, while at other times, flow continued but the meter did not turn. During installation of the permanent pumping equipment in July 1996, the lines were flushed of debris and the clogging ceased.

At the time of this change in configuration, there were no valves in the piping system between the 7-acre leachate lift stations and the treatment plant. The same pipeline continued beyond the treatment plant to the leachate storage tank, picking up flow from the Phase 1 lift station on the way. Because of the combination of changes in pipe size and composition, multiple branches and lack of valves, no simple method of testing that force main was found.

Beginning in January 1997, Solid Waste Management staff attempted to remove some of the sand which blocked the bottom of the east lift station by jetting water into the lift

station and removing the slurry with the existing pumps. This was marginally successful. Methane Divers work in February and March, which was detailed in the referenced correspondence, was much more successful in clearing accumulated sand and in opening clogged perforations. The pumping equipment was reinstalled after the cleaning procedures at six inches off the bottom of each lift station. Water introduced during cleaning operations was not measured by the flow meter. The increased flow which was observed during March, April and May reflects the positive effect of cleaning on collection and pumping system.

During June, July and August of 1997, flow from the 7-acre lift stations was regulated by the Phase 1A construction contractor. The pumps were not operated automatically during that period. When the contractor could accept flow through the pipeline, the pumps were turned on and allowed to operate according to the float controls. However, the contractor did not want automatic operation at times when no attendant was onsite. This resulted in operation about 10 to 12 hours a day. After the construction period, flows returned to post-cleaning levels.

All new piping installed during construction of Phase 1A, which includes some of the piping carrying leachate from the 7-acre cell, was pressure tested according to the methods described in the specifications (CH2M HILL, 6/96). All sections were found to be within acceptable limits. The pipeline from the 7-acre lift stations now extends only as far as the leachate master lift station with the branch to the treatment plant remaining.

The late 1997 to early 1998 flow remains at a rate higher than before the cleaning exercise, indicating that the leachate collection system continues to operate quite well. Pump performance has been checked 3 times since they were installed in July 1996. Table 1 shows the results of those measurements. These measurements are consistent with the pump specifications provided by the manufacturer.

Leachate level measurements made on May 11, 1998 showed that the leachate level in the sumps was appropriate for the non-pumping condition. The west sump leachate level was 58.7 feet below the top of the concrete lid (elevation 74.5); the east sump leachate level was 59.3 feet below the top of the lid (elevation 73.1). Both are above the collection line inlet level, below the top of the HDPE section of the sump and below the pump start level.

The flow meter connected to the 7-acre lift stations is one of five installed by the construction contractor in 1997. A potential problem with the size of this meter, perhaps impacting its performance, has been raised by the meter vendor. The effect, if any, would be to overestimate flow. That question has not yet been resolved.

Based upon the above information, Citrus County does not propose any changes or remedial actions to the leachate collection, pumping, piping or flow measurement systems for the 7-acre cell of the 60-acre closed landfill, except perhaps replacing the flow meter.

7-ACRE CELL LEACHATE PUMP PERFORMANCE TESTING

DATE	PUMP	FLOW RATE GPM	ELECTRICAL DRAW AMPS
10/97	WEST		1- 4.5, 2- 4.3, 3- 3.5
	EAST		1- 5.4, 2- 4.3, 3- 5.0
	TOGETHER		
2/98	WEST	27.8	1- 2.6, 2- 2.7, 3- 2.6
	EAST	26.7	1- 2.8, 2- 2.9, 3- 2.8
	TOGETHER	38.8	
4/98	WEST	28.0	1- 2.7, 2-2.7, 3- 2.6
	EAST	26.8	1- 2.8, 2-2.9, 3- 2.8
	TOGETHER	39.7	

7-Acre Leachate Flow

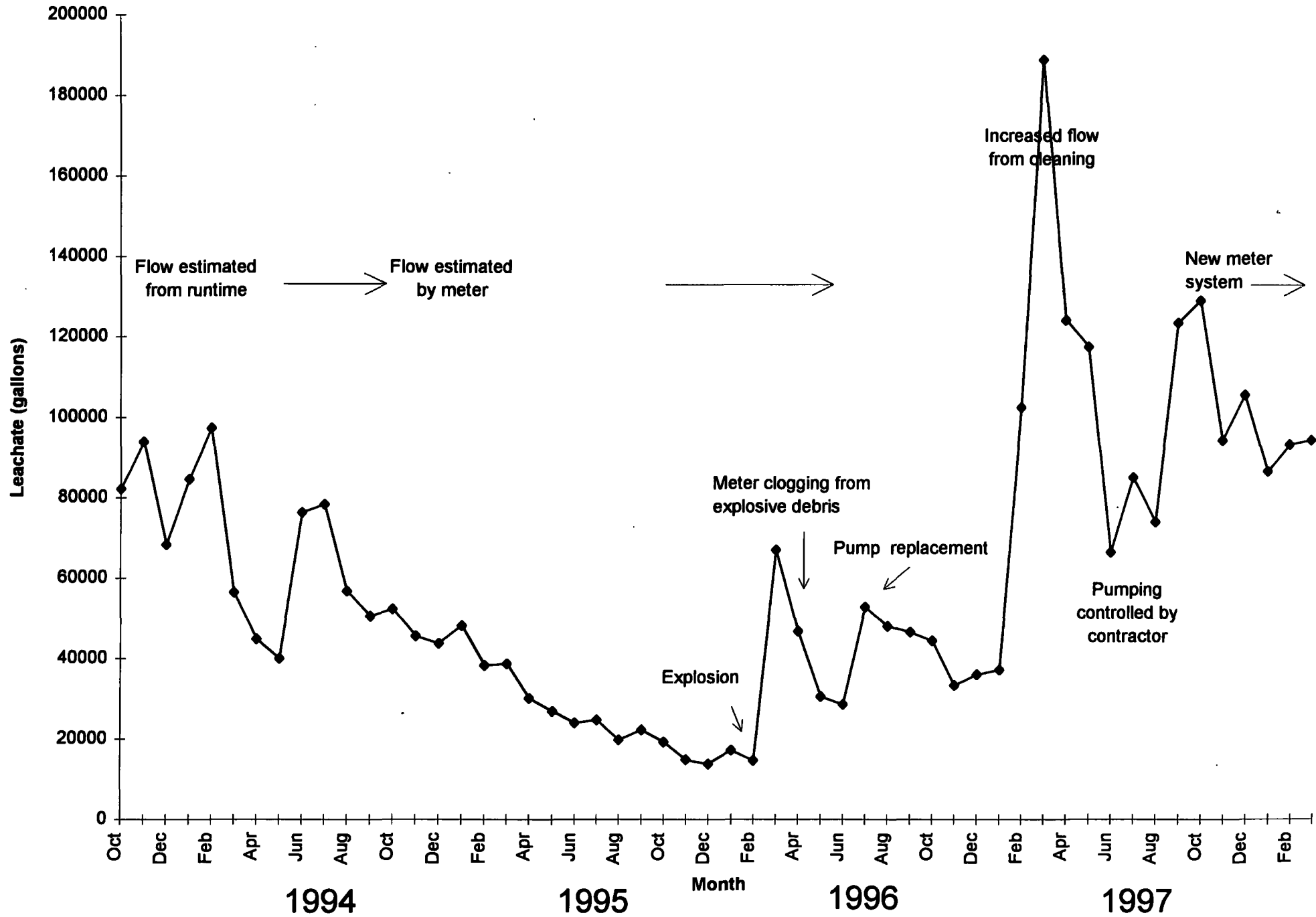


Table 1

CITRUS COUNTY CENTRAL LANDFILL
LEACHATE INFLUENT - 7 ACRE CELL

YEAR	1991	1991	1992	1992	1993	1993	1994	1994	1995	1995	1996	1996	1997	1997	1998	1998	PROGRAM	PROGRAM
	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	TOTAL	TOTAL
MONTH	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLON	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	LEACHATE	RAIN
JAN	ND	ND	ND	ND	3.35	ND	11.20	84690	5.10	48261	4.61	17334	2.20	37239	3.50	86644		
FEB	ND	ND	ND	ND	3.85	ND	0.83	97400	1.25	38361	1.50	14730	0.1	102479	9.50	93334		
MAR	ND	ND	ND	ND	4.01	ND	3.10	56550	2.65	38785	9.20	67104	2.85	189082	6.10	94362		
APR	ND	ND	ND	ND	2.67	ND	3.75	44927	3.90	30199	2.00	46852	6.85	124258				
MAY	ND	ND	ND	ND	4.00	ND	4.05	40128	4.10	26925	1.12	30604	0.75	117546				
JUN	ND	ND	7.25	ND	5.35	ND	12.25	76428	10.25	24064	7.90	28717	5.56	66527				
JUL	ND	ND	4.05	ND	8.90	ND	10.75	78408	9.45	24822	7.65	52859	5.32	85073				
AUG	ND	ND	11.06	ND	4.95	ND	7.30	56809	8.00	19861	5.73	48188	7.07	74033				
SEPT	ND	ND	0.75	ND	4.20	ND	6.80	50626	9.75	22339	4.30	46625	5.70	123576				
OCT	ND	ND	11.95	ND	3.20	82225	6.29	52342	5.10	19364	3.05	44506	8.65	129166				
NOV	ND	ND	2.75	ND	1.75	93910	3.00	45692	0.25	14939	0.90	33380	5.01	94389				
DEC	ND	ND	1.00	ND	1.82	68300	5.58	43811	1.30	13867	4.65	36153	11.85	105690				
ANNUAL																		
TOTALS		0	38.81	0	48.05	244435	74.90	727811	61.10	321787	52.61	467052	61.91	1249058	19.10	274340	3284483	356.48
PLANT START DATE 9/91																		
ND = NO DATA																		

CITRUS COUNTY CENTRAL LANDFILL - 7 ACRE CELL UNDERDRAIN LEACHATE GENERATION

YEAR	1994	1993	1994	1994	1995	1995	1996	1996	1997	1997	1998	1998	PROGRAM	PROGRAM
	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	RAIN	INFLUENT	TOTAL	TOTAL
MONTH	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	INCHES	GALLONS	LEACHATE	RAIN
JAN			11.20	84690	5.10	48261	4.61	17334	2.20	37239	3.50	86644		
FEB			0.83	97400	1.25	38361	1.50	14730	0.1	102479	9.50	93334		
MAR			3.10	56550	2.65	38785	9.20	67104	2.85	189082	6.10	94362		
APR			3.75	44927	3.90	30199	2.00	46852	6.85	124258				
MAY			4.05	40128	4.10	26925	1.12	30604	0.75	117546				
JUN			12.25	76428	10.25	24064	7.90	28717	5.56	66527				
JUL			10.75	78408	9.45	24822	7.65	52859	5.32	85073				
AUG			7.30	56809	8.00	19861	5.73	48188	7.07	74033				
SEPT			6.80	50626	9.75	22339	4.30	46625	5.70	123576				
OCT	6.29	82225	6.29	52342	5.10	19364	3.05	44506	8.65	129166				
NOV	3.00	93910	3.00	45692	0.25	14939	0.90	33380	5.01	94389				
DEC	5.58	68300	5.58	43811	1.30	13867	4.65	36153	11.85	105690				
ANNUAL														
TOTALS	14.87	244435	74.90	727811	61.10	321787	52.61	467052	61.91	1249058	19.10	274340	3284483	284.49

Exhibit G

Assessment of the Effectiveness of Landfill Closure

Design and Maintenance

Assessment of the Effectiveness of Landfill Closure Design and Maintenance

Field Inspection

On May 4, 1998, CH2M HILL engineers made a site visit to the closed 60-acre cells to inspect the stormwater management system at the landfill. The inspection indicates that the drainage swales, energy dissipaters, retention ponds, culverts, cover grass, and access roads are generally in sound conditions. No deep depression or water ponding was observed at the landfill surface. The landfill surface was properly mowed and maintained.

Topographic Survey

Figure 1 show the existing site features and the topography of the 60-acre site surveyed on December 1997. The topography shows that the cover system is generally in sound conditions and stormwater is draining to the stormwater ponds as originally designed in the closure plan.

Effectiveness of the Closure Design

Based on the results of the field inspection, review of the maintenance data, and interview with the landfill operator, CH2M HILL has concluded that the landfill closure system has effectively controlled the stormwater runoff and protected the cover system.

Prepared by

Kou-Roung Chang
Kou-Roung Chang, P.E.

5/20/98

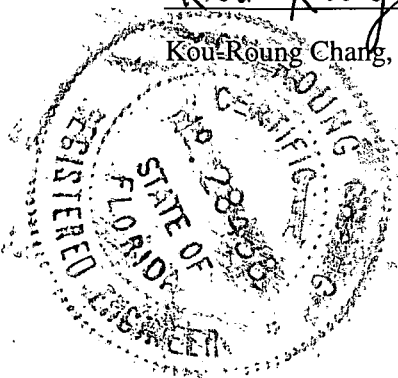




Exhibit H

Leasing Agreement between Florida Department of Agriculture and Citrus County

BEST AVAILABLE COPY

*fill
fast
lease*

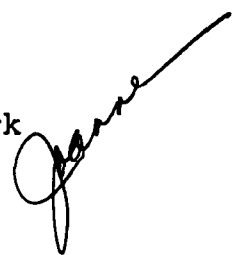
CITRUS COUNTY CLERK OF CIRCUIT COURT
FINANCE DEPARTMENT
COMMISSION RECORDS
110 North Apopka Avenue
Inverness, FL 34450-4299
(352) 637-9455 and 637-9456

Joanne B. Mishou, D. C.

Ann Townsend, D. C.

INTEROFFICE MEMORANDUM

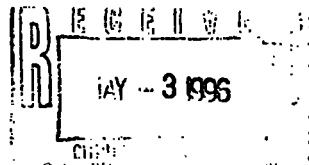
TO: Susan Metcalfe, Director
FROM: Joanne B. Mishou, Deputy Clerk
DATE: 2 May 1996
SUBJECT: Sublease of Closed Landfill



As requested, enclosed is a certified copy of the sublease agreement between Citrus County and the Florida Department of Agriculture, Division of Forestry for use of the closed 60-acre landfill site.

Enclosure

RECEIVED
MAY - 3 1996



FDAL

3289 E

OAS8101

FLORIDA DEPARTMENT OF AGRICULTURE
AND
CONSUMER SERVICES
DIVISION OF FORESTRY

SUBLEASE AGREEMENT

CERTIFIED TO BE A TRUE COPY
BETTY STRIFLER
CLERK OF CIRCUIT COURT

BY: James B. Thishou D.C.
This 2nd day of May A.D. 19 96

Sublease No. 3316-5

THIS SUBLEASE AGREEMENT is entered into this 2nd day of April 1996, by and between the STATE OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF FORESTRY hereinafter referred to as "SUBLESSOR", and BOARD OF COUNTY COMMISSIONERS OF CITRUS COUNTY, FLORIDA hereinafter referred to as "SUBLESSEE".

WITNESSETH

In consideration of the covenants and conditions set forth herein SUBLESSOR subleases the below described premises to SUBLESSEE on the following terms and conditions:

1. ACKNOWLEDGEMENTS: The parties acknowledge that title to the subleased premises is held by the Board of Trustees of the Internal Improvement Trust Fund ("TRUSTEES") and is currently managed by SUBLESSOR as a portion of the Withlacoochee State Forest pursuant to TRUSTEES' Lease Number 3316.

2. DESCRIPTION OF PREMISES: The property subject to this sublease agreement, is situated in the County of Citrus, State of Florida and is more particularly described in Exhibit A attached hereto and hereinafter referred to as the "subleased premises".

3. SUBLEASE TERM: The term of this sublease shall be for a period of twenty five (25) years commencing on April 15, 1996 and ending on April 14, 2021, or for the active life of the adjacent landfill, owned and operated by SUBLESSEE, whichever is less, unless sooner terminated pursuant to the provisions of this sublease.

4. PURPOSE: SUBLESSEE shall manage the subleased premises only for the uses outlined in the Site Master Plan identified as Exhibit B.

5. CONFORMITY: This sublease shall conform to all terms and conditions of TRUSTEES' Lease Number 3316 between the

TRUSTEES, as Lessor and SUBLESSOR, as Lessee, dated January 10, 1984, a copy of which is attached hereto as Exhibit C, and SUBLESSEE shall through its agents and employees prevent the unauthorized use of the subleased premises or any use thereof not in conformance with this sublease.

6. QUIET ENJOYMENT AND RIGHT OF USE: SUBLESSEE shall have the right of ingress and egress to, from and upon the subleased premises for all purposes necessary to full quiet enjoyment by said SUBLESSEE of the rights conveyed herein.

7. MANAGEMENT PLAN: SUBLESSEE shall prepare and submit a Management Plan for the subleased premises in accordance with Chapters 18-2 and 18-4, Florida Administrative Code, within 12 months of the effective date of this sublease. The Management Plan shall be submitted to the TRUSTEES for approval through SUBLESSOR and the Division of State Lands, Department of Environmental Protection. The subleased premises shall not be developed or physically altered in any way other than what is necessary for security and maintenance of the subleased premises without the prior written approval of the TRUSTEES and SUBLESSOR until the Management Plan is approved. SUBLESSEE shall provide SUBLESSOR with an opportunity to participate in all phases of preparing the development and Management Plan for the subleased premises. The Management Plan shall be submitted to SUBLESSOR in draft form for review and comments within ten months of the effective date of this sublease. SUBLESSEE shall give SUBLESSOR reasonable notice of the application for and receipt of any state, federal or local permits as well as any public hearings or meetings relating to the development or use of the subleased premises. SUBLESSEE shall not proceed with development of said subleased premises including, but not limited to, funding, permit application, design or building contracts, until the Management Plan required herein has been submitted and approved. Any financial commitments made by SUBLESSEE which are not in compliance with the terms of this sublease shall be done at SUBLESSEE'S own risk. The Management Plan shall emphasize the original management concept as approved by the TRUSTEES at the

time of acquisition which established the primary purpose for which the subleased premises were acquired. The approved Management Plan shall provide the basic guidance for all management activities and shall be reviewed jointly by SUBLESSEE, SUBLESSOR and the TRUSTEES at least every five (5) years. SUBLESSEE shall not use or alter the subleased premises except as provided for in the approved Management Plan without the advance written approval of the TRUSTEES and SUBLESSOR. The Management Plan prepared under this sublease shall identify management strategies for exotic species, if present. The introduction of exotic species is prohibited, except when specifically authorized by the approved Management Plan.

8. ASSIGNMENT: This sublease shall not be assigned in whole or in part without the prior written consent of the TRUSTEES and SUBLESSOR. Any assignment made either in whole or in part without the prior written consent of the TRUSTEES and SUBLESSOR shall be void and without legal effect.

9. RIGHT OF INSPECTION: The TRUSTEES and SUBLESSOR or their duly authorized agents, representatives or employees shall have the right at any and all times to inspect the subleased premises and the works and operations thereon of SUBLESSEE in any matter pertaining to this sublease.

10. PLACEMENT AND REMOVAL OF EQUIPMENT: All buildings, structures, improvements and signs shall be constructed at the expense of SUBLESSEE in accordance with plans prepared by professional designers and shall require the prior written approval of SUBLESSOR as to purpose, location and design. Further, no trees, other than non-native species, shall be removed or major land alterations done without the prior written approval of SUBLESSOR. Removable equipment and removable improvements placed on the subleased premises by SUBLESSEE which do not become a permanent part of the subleased premises will remain the property of SUBLESSEE and may be removed by SUBLESSEE upon termination of this sublease.

11. INSURANCE REQUIREMENTS: During the term of this sublease SUBLESSEE shall procure and maintain policies of fire,

extended risk, and liability insurance coverage. The extended risk and fire insurance coverage shall be in an amount equal to the full insurable replacement value of any improvements or fixtures located on the subleased premises. The liability insurance coverage shall be in amounts not less than (\$100,000.00) per occurrence and (\$200,000.00) per accident for personal injury, death, and property damage on the subleased premises. Such policies of insurance shall name SUBLESSEE, the TRUSTEES, SUBLESSOR and the State of Florida as co-insureds. SUBLESSEE shall submit written evidence of having procured all insurance policies required herein prior to the effective date of this sublease and shall submit annually thereafter, written evidence of maintaining such insurance policies to SUBLESSOR and the Bureau of Land Management Services, Division of State Lands, Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station 130, Tallahassee, Florida 32399. SUBLESSEE shall purchase all policies of insurance from a financially-responsible insurer duly authorized to do business in the State of Florida. Any certificate of self-insurance shall be issued or approved by the Insurance Commissioner, State of Florida. The certificate of self-insurance shall provide for casualty and liability coverage. SUBLESSEE further agrees to immediately notify SUBLESSOR, the TRUSTEES and the insurer of any erection or removal of any structure or other fixed improvement on the subleased premises and any changes affecting the value of any improvements and to request said insurer to make adequate changes in the coverage to reflect the changes in value. SUBLESSEE shall be financially responsible for any loss due to failure to obtain adequate insurance coverage, and the failure to maintain such policies or certificate in the amounts set forth shall constitute a breach of this sublease.

12. LIABILITY: Each party is responsible for all personal injury and property damage attributable to the negligent acts or omissions of that party and the officers, employees and agents thereof. Nothing herein shall be construed as an indemnity or a waiver of sovereign immunity enjoyed by any party hereto, as

provided in Section 768.28, Florida Statutes, as amended from time to time, or any other law providing limitations on claims.

13. PAYMENT OF TAXES AND ASSESSMENTS: SUBLESSEE shall assume full responsibility for and shall pay all liabilities that accrue to the subleased premises or to the improvements thereon, including any and all drainage and special assessments or taxes of every kind and all mechanic's or materialman's liens which may be hereafter lawfully assessed and levied against the subleased premises.

14. NO WAIVER OF BREACH: The failure of SUBLESSOR to insist in any one or more instances upon strict performance of any one or more of the covenants, terms and conditions of this sublease shall not be construed as a waiver of such covenants, terms and conditions, but the same shall continue in full force and effect, and no waiver of SUBLESSOR of any of the provisions hereof shall in any event be deemed to have been made unless the waiver is set forth in writing, signed by SUBLESSOR.

15. TIME: Time is expressly declared to be of the essence of this sublease.

16. NON-DISCRIMINATION: As a condition of obtaining this sublease, SUBLESSEE hereby agrees not to discriminate against any individual because of that individual's race, color, religion, sex, national origin, age, handicap, or marital status with respect to any activity occurring within the subleased premises or upon lands adjacent to and used as an adjunct of the subleased premises.

17. UTILITY FEES: SUBLESSEE shall be responsible for the payment of all charges for the furnishing of gas, electricity, water and other public utilities to the subleased premises and for having all utilities turned off when the subleased premises are surrendered.

18. MINERAL RIGHTS: This sublease does not cover petroleum or petroleum products or minerals and does not give the right to SUBLESSEE to drill for or develop the same. However, SUBLESSEE shall be fully compensated for any and all damages that might result to the subleasehold interest of SUBLESSEE by reason of

such exploration and recovery operations.

19. RIGHT OF AUDIT: SUBLESSEE shall make available to the TRUSTEES and SUBLESSOR all financial and other records relating to this sublease, and SUBLESSOR and/or the TRUSTEES shall have the right to audit such records at any reasonable time. This right shall be continuous until this sublease expires or is terminated. This sublease may be terminated by SUBLESSOR should SUBLESSEE fail to allow public access to all documents, papers, letters or other materials made or received in conjunction with this sublease, pursuant to the provisions of Chapter 119, Florida Statutes.

20. CONDITION OF PROPERTY: SUBLESSOR assumes no liability or obligation to SUBLESSEE with reference to the condition of the subleased premises or the suitability of the subleased premises for any improvements. The subleased premises herein are subleased by SUBLESSOR to SUBLESSEE in an "as is" condition, with SUBLESSOR assuming no responsibility for bidding, contracting, permitting, construction, and the care, repair, maintenance or improvement of the subleased premises for the benefit of SUBLESSEE. It is acknowledged that the site was a previously State-permitted sanitary landfill, which now has a closure/long-term care permit, the requirements of which are being administered by SUBLESSEE.

21. NOTICES: All notices given under this sublease shall be in writing and shall be served by certified mail including, but not limited to, notice of any violation served pursuant to Section 253.04, Florida Statutes, to the last address of the party to whom notice is to be given, as designated by such party in writing. SUBLESSOR and SUBLESSEE hereby designate their address as follows:

SUBLESSOR: Mr. Charles Maynard, Chief
Forest Management Bureau
Division of Forestry
3125 Conner Boulevard
Tallahassee, Florida 32399-3650

SUBLESSEE: Ms. Susan Metcalfe, Director
Division of Solid Waste Management
Citrus County
Lecanto, Florida 34460-0340

22. BREACH OF COVENANTS TERMS, OR CONDITIONS: Should SUBLESSEE breach any of the covenants, terms, or conditions of this sublease, SUBLESSOR shall give written notice to SUBLESSEE to remedy such breach within sixty (60) days of such notice. In the event SUBLESSEE fails to remedy the breach to the satisfaction of SUBLESSOR within sixty (60) days of receipt of written notice, SUBLESSOR may either terminate this sublease and recover from SUBLESSEE all damages SUBLESSOR may incur by reason of the breach including, but not limited to, the cost of recovering the subleased premises and attorneys' fees or maintain this sublease in full force and effect and exercise all rights and remedies herein conferred upon SUBLESSOR.

23. DAMAGE TO THE PREMISES: (A) SUBLESSEE shall not do, or suffer to be done, in, on or upon the subleased premises or as affecting said subleased premises or adjacent properties, any act which may result in damage or depreciation of value to the subleased premises or adjacent properties, or any part thereof. (B) SUBLESSEE shall not generate, store, produce, place, treat, release or discharge any contaminants, pollutants or pollution, including, but not limited to, hazardous or toxic substances, chemicals or other agents on, into, or from the subleased premises or any adjacent lands or waters in any manner not permitted by law. For the purposes of this sublease, "hazardous substances" shall mean and include those elements or compounds defined in 42 USC Section 9601 or which are contained in the list of hazardous substances adopted by the United States Environmental Protection Agency (EPA) and the list of toxic pollutants designated by the United States Congress or the EPA or defined by any other federal, state or local statute, law, ordinance, code, rule, regulation, order or decree regulating, relating to, or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance, material, pollutant or contaminant. "Pollutants" and "pollution" shall mean those products or substances defined in Chapters 376 and 403, Florida Statutes, and the rules promulgated thereunder,

all as amended or updated from time to time. In the event of SUBLESSEE's failure to comply with this paragraph, SUBLESSEE shall, at its sole cost and expense, promptly commence and diligently pursue any legally required closure, investigation, assessment, cleanup, decontamination, remediation, restoration and monitoring of (1) the leased premises, and (2) all off-site ground and surface waters and lands affected by SUBLESSEE's such failure to comply, as may be necessary to bring the subleased premises and affected off-site waters and lands into full compliance with all applicable federal, state or local statutes, laws, ordinances, codes, rules, regulations, orders and decrees, and to restore the damaged property to the condition existing immediately prior to the occurrence which caused the damage. SUBLESSEE's obligations set forth in this paragraph shall survive the termination or expiration of this sublease. This paragraph shall not be construed as a limitation upon SUBLESSEE's obligations regarding indemnification and payment of costs and fees as set forth in Paragraph 12 of this sublease, nor upon any other obligations or responsibilities of SUBLESSEE as set forth herein. Nothing herein shall relieve SUBLESSEE of any responsibility or liability prescribed by law for fines, penalties and damages levied by governmental agencies, and the cost of cleaning up any contamination caused directly or indirectly by SUBLESSEE's activities or facilities. Upon discovery of a release of a hazardous substance or pollutant, or any other violation of local, state or federal law, ordinance, code, rule, regulation, order or decree relating to the generation, storage, production, placement, treatment, release or discharge of any contaminant, SUBLESSEE shall report such violation to all applicable governmental agencies having jurisdiction, and to SUBLESSOR, all within the reporting periods of the applicable governmental agencies.

24. SURRENDER OF PREMISES: Upon termination or expiration of this sublease, SUBLESSEE shall surrender the subleased premises to SUBLESSOR. In the event no further use of the subleased premises or any part thereof is needed, SUBLESSEE shall

give written notification to SUBLESSOR and the Bureau of Land Management Services, Division of State Lands, Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station 130, Tallahassee, Florida 32399 at least six (6) months prior to the release of any or all of the subleased premises. Notification shall include a legal description, this sublease number and an explanation of the release. The release shall only be valid if approved by SUBLESSOR and the TRUSTEES through execution of a release of sublease instrument with the same formality as this sublease. Upon release of all or any part of the subleased premises or upon termination or expiration of this sublease, all improvements, including both physical structures and modifications of the subleased premises, shall become the property of the TRUSTEES and SUBLESSOR, unless SUBLESSOR gives written notice to SUBLESSEE to remove any or all such improvements at the expense of SUBLESSEE. The decision to retain any improvements upon termination of this sublease shall be at SUBLESSOR'S sole discretion. Prior to surrender of all or any part of the subleased premises a representative of SUBLESSOR shall perform an on-site inspection and the keys to any building on the subleased premises shall be turned over to SUBLESSOR. If the subleased premises do not meet all conditions as set forth in paragraphs 17 and 34 herein, SUBLESSEE shall, at its expense, pay all costs necessary to meet the prescribed conditions.

25. BEST MANAGEMENT PRACTICES: SUBLESSEE shall comply with applicable state and local ordinances and Best Management Practices for all activities conducted under this sublease.

26. QUADRUPLICATE ORIGINALS: This sublease is executed in quadruplicate originals each of which shall be considered an original for all purposes.

27. SOVEREIGNTY SUBMERGED LANDS: This sublease does not authorize any use of lands located waterward of the mean or ordinary high water line of any lake, river, stream, creek, bay, estuary, or other water body or the waters or the air space thereabove.

28. PROHIBITIONS AGAINST LIENS OR OTHER ENCUMBRANCES: Fee

title to the subleased premises is held by the TRUSTEES. SUBLESSEE shall not do or permit anything to be done which purports to create a lien or encumbrance of any nature against the real property contained in the subleased premises including, but not limited to, mortgages or construction liens against the subleased premises or against any interest of the TRUSTEES and SUBLESSOR therein.

29. CONDITIONS AND COVENANTS: All of the provisions of this sublease shall be deemed covenants running with the land included in the subleased premises, and construed to be "conditions" as well as "covenants" as though the words specifically expressing or imparting covenants and conditions were used in each separate provision.

30. PARTIAL INVALIDITY: If any term, covenant, condition or provision of this sublease shall be ruled by a court of competent jurisdiction to be invalid, void, or unenforceable, the remainder shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

31. ENTIRE UNDERSTANDING: This sublease sets forth the entire understanding between the parties and shall only be amended with the prior written approval of the TRUSTEES and SUBLESSOR.

32. EASEMENTS: All easements including, but not limited to, utility easements are expressly prohibited without the prior written approval of the TRUSTEES and SUBLESSOR. Any easement not approved in writing by the TRUSTEES and SUBLESSOR shall be void and without legal effect.

33. SUBSUBLEASES: This sublease is for the purposes specified herein and any subsubleases of any nature are prohibited, without the prior written approval of the TRUSTEES and SUBLESSOR. Any subsublease not approved in writing by the TRUSTEES and SUBLESSOR shall be void and without legal effect.

34. MAINTENANCE OF IMPROVEMENTS: SUBLESSEE shall maintain the real property contained within the subleased premises and any improvements located thereon, in a state of good condition, working order and repair including, but not limited to,

maintaining the planned improvements as set forth in the approved Management Plan, keeping the subleased premises free of trash or litter, meeting all building and safety codes in the location situated and maintaining any and all existing roads, canals, ditches, culverts, risers and the like in as good condition as the same may be on the effective date of this sublease.

35. COMPLIANCE WITH LAWS: SUBLESSEE agrees that this sublease is contingent upon and subject to SUBLESSEE obtaining all applicable permits and complying with all applicable permits, regulations, ordinances, rules, and laws of the State of Florida or the United States or of any political subdivision or agency of either.

36. ARCHAEOLOGICAL AND HISTORIC SITES: Execution of this sublease in no way affects any of the parties' obligations pursuant to Chapter 267, Florida Statutes. The collection of artifacts or the disturbance of archaeological and historic sites on state-owned lands is prohibited unless prior authorization has been obtained from the Department of State, Division of Historical Resources. The Management Plan prepared pursuant to Chapters 18-2 and 18-4, Florida Administrative Code, shall be reviewed by the Division of Historical Resources to insure that adequate measures have been planned to locate, identify, protect and preserve the archaeological and historic sites and properties on the subleased premises.

37. GOVERNING LAW: This sublease shall be governed by and interpreted according to the laws of the State of Florida.

38. SECTION CAPTIONS: Articles, subsections and other captions contained in this sublease are for reference purposes only and are in no way intended to describe, interpret, define or limit the scope, extent or intent of this sublease or any provisions thereof.

39. ADMINISTRATIVE FEE: SUBLESSEE shall pay the Division of State Lands, Department of Environmental Protection, as agent for the TRUSTEES an annual administrative fee of \$300.00. The initial annual administrative fee shall be payable within 30 days from the receipt of an invoice from the Division of State Lands

and shall be prorated based on the number of months or fraction thereof remaining in the fiscal year of execution. For purposes of this sublease agreement, the fiscal year shall be the period extending from July 1 to June 30. Each annual payment thereafter shall be due and payable on July 1 of each subsequent year.

40. SPECIAL CONDITIONS: The following special conditions shall apply to this sublease.

a. SUBLESSEE will improve roads within the Withlacoochee State Forest (WSF) according to the map and specifications set forth in Exhibit D.

b. SUBLESSEE will locate, identify and map Cogongrass (*Imperata cylindrica*) infestations occurring on the Citrus Unit of WSF according to specifications set forth in Exhibit E.

c. SUBLESSEE will plant a visual screen or barrier between State Road 44 and the two landfill sites. Said barrier shall utilize native species as approved by WSF personnel.

d. The subleased premises were previously a State-permitted sanitary landfill, which now has a closure/long-term care permit. SUBLESSEE will continue to comply with the requirements of the above mentioned closure/long-term care permit. Uses of the subleased premises under this sublease agreement will be as identified in Exhibit B and the management plan required under paragraph 7. One potential use for the subleased premises will be for handling and temporary (up to 3 months) storage of waste materials. These activities, such as collection of household waste, including hazardous materials or yard waste, must be performed according to all applicable state and federal laws and regulations.

IN WITNESS WHEREOF, the parties have cause this sublease to be executed on the day and year first above written.

STATE OF FLORIDA DEPARTMENT OF
AGRICULTURE AND CONSUMER SERVICES,
DIVISION OF FORESTRY

Ben C. Brown
Witness

Ben C. Brown
Print/Type Witness Name

Sue P. Burch
Witness

Sue P. Burch
Print/Type Witness Name

STATE OF FLORIDA
COUNTY OF LEON

By: Mike Gresham (SEAL)

Mike Gresham
Print/Type Name

Its: Director of Administration

"SUBLESSOR"

The foregoing instrument was acknowledged before me this
28th day of MARCH 1996, by MIKE GRESHAM, as
DIRECTOR OF ADMINISTRATION, State of Florida Department
of AGRICULTURE who is are personally known to me or
who produced _____ as identification.

(SEAL)



KAREN A. MEYER
MY COMMISSION # CC237028 EXPIRES
October 20, 1998
BONDED THRU TROY FARM INSURANCE, INC.

Karen A. Meyer
Notary Public, State of Florida

KAREN A. MEYER
Print/Type Notary Name

Commission Number:

Commission Expires:

BOARD OF COUNTY COMMISSIONERS
CITRUS COUNTY, FLORIDA

Cheryl A. Clamer
Witness

Cheryl A. Clamer
Print/Type Witness Name

Jean E. Lamberton
Witness

JEAN E. LAMBERTON
Print/Type Witness Name

By: Brad Thorpe (SEAL)

Brad Thorpe
Print/Type Name

Its: Chairman

STATE OF Florida
COUNTY OF Citrus

Attest:

Betty Strifler
Betty Strifler
Print/Type Name
Its: Clerk

(OFFICIAL SEAL)

The foregoing instrument was acknowledged before me this
27th day of February 1996, by Brad Thorpe
as Chairman, Board of County
Commissioners of Citrus County, who is/~~are~~ personally known to me
~~or who produced~~ _____ as identification.

(SEAL)



CHERYL A. CLAMER
My Comm Exp. 4/02/99
Bonded By Service Ins
No. CC450028
☒ Personally Known ☐ Other I.D.

Cheryl A. Clamer
Notary Public, State of Florida

Print/Type Notary Name

Commission Number:

Commission Expires:

Consented to by the TRUSTEES on

18th day of April, 1996

Daniel T. Cralch

Chief, Bureau of Land Management
Services, Division of State Lands,
Department of Environmental Protection

Approved as to Form and Legality

By:

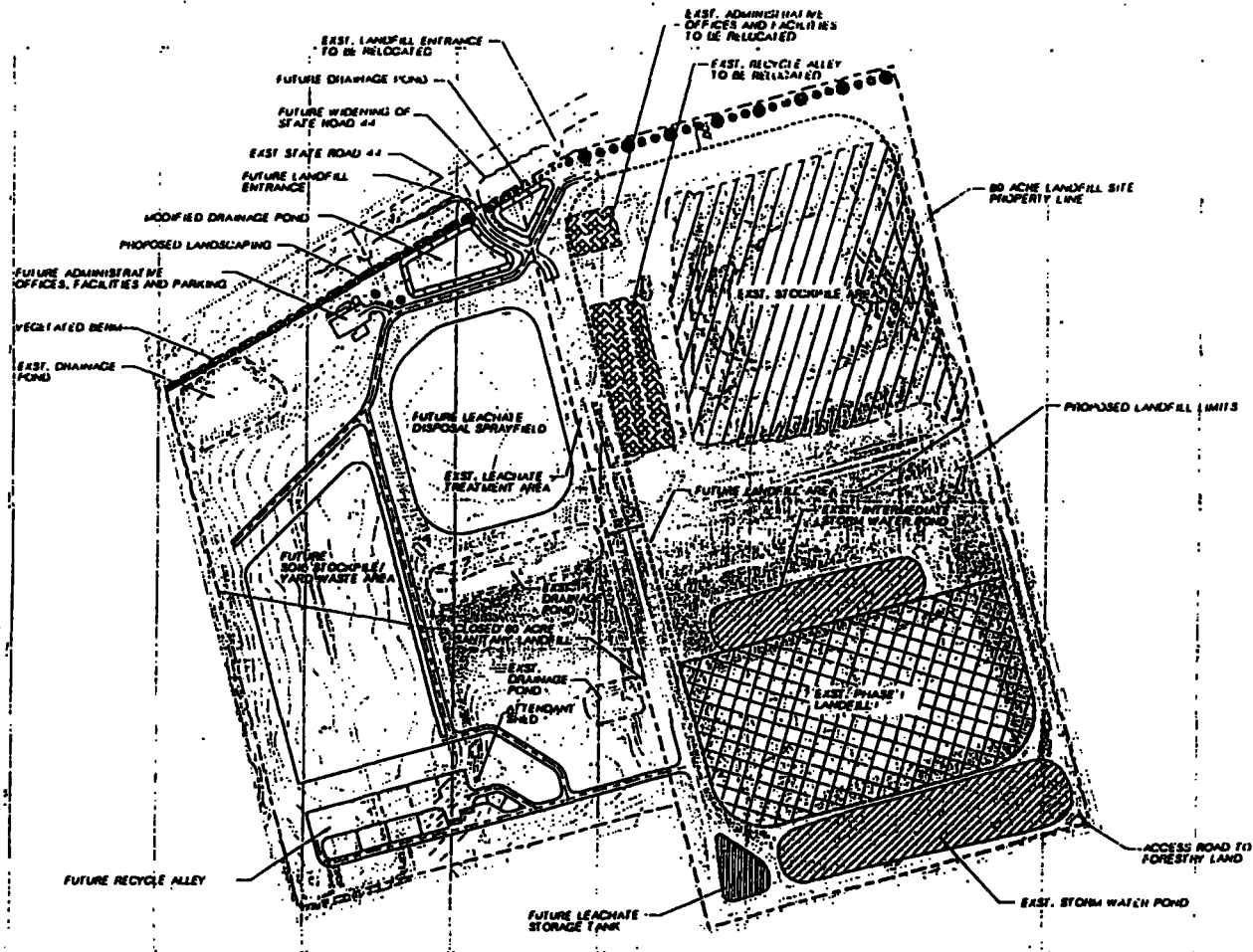
Larry K. Kinn
DEP Attorney

EXHIBIT A

A portion of Section 1, Township 19 South, Range 18 East being more particularly described as follows: Commence at the Southwest Corner of Lot 9, Block A, New Mayfield Acres as recorded in Plat Book 2, Page 42, Public Records of Citrus County, Florida, thence N 89°13'46" E on an Easterly projection of the South line of said Lot 9, Block A, a distance of 640.22 feet, thence S 0°46'14" E a distance of 76.67 feet to a point that is 150 feet from, measured at a right angle to, the Centerline of State Road No. 44, said point also being the Point of Beginning, thence continue S 0°46'14" E a distance of 2151.70 feet, thence S 89°13'46" W a distance of 1320 feet, thence N 0°46'14" W a distance of 1808.78 feet to a point that is 150 feet from, measured at a right angle to, the Centerline of said State Road No. 44, thence N 74°40'03" E, parallel to and 150 feet from the Centerline of State Road No. 44 a distance of 1363.81 feet to the Point of Beginning:

LESS AND EXCEPT: A portion of Section 1, Township 19 South, Range 18 East, Citrus County, Florida described as follows: Commence at the SW corner of Lot 9, Block A, New Mayfield Acres as recorded in Plat Book 2, Page 42, Public Records of Citrus County, Florida, thence S 89°43'25" E along the South line of said Lot 9 and an Easterly projection thereof a distance of 640.22 feet, thence S 0°16'35" W 76.49 feet to a point that is 150 feet Southeasterly from, measured at a right angle to, the Centerline of State Road No. 44, thence continue S 0°16'35" W 2151.70 feet, thence N 89°43'25" W 808.77 feet to the Point of Beginning, thence continue N 89°43'25" W 511.23 feet, thence N 0°16'35" E 511.23 feet, thence S 89°43'25" E 511.23 feet, thence S 0°16'35" W 511.23 feet to the Point of Beginning. Said exception containing 6 acres more or less.

TOGETHER WITH an Easement for ingress and egress over the following described lands: Commence at the Southwest Corner of Lot 9, Block A, New Mayfield Acres, as recorded in Plat Book 2, Page 42, Public Records of Citrus County, Florida, thence N 89°13'46" E on an Easterly projection of the South line of said Lot 9, Block A, a distance of 640.22 feet, thence S 0°46'14" E a distance of 76.67 feet to a point that is 150 feet from, measured at a right angle to, the Centerline of State Road No. 44, said point also being the Point of Beginning, thence S 74°40'03" W, parallel to and 150 feet from the Centerline of State Road No. 44, a distance of 1363.81 feet, thence N 0°46'14" W a distance of 101.33 feet to the Southerly right-of-way line of State Road No. 44, thence N 74°40'03" E along said right-of-way line a distance of 1265.77 feet, thence N 89°13'46" E a distance of 94.90 feet, thence S 0°46'14" E a distance of 76.67 feet to the Point of Beginning.



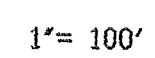
BASE MAPPING PREPARED BY:
KUCERA INTERNATIONAL - INC.
AERIAL PHOTOGRAPHY TAKEN 04-01-94

	JOHN A. LACAMANA G.L. DELRIO JOHN A. LACAMANA JOHN WOOD	NO. DATE REVISION REVISED FOR FORESTRY LEASE REQUEST BY APND	REUSE OF DOCUMENTS This document, map, or plan is to be used only for the purpose for which it was prepared. It is not to be used for any other purpose without the written approval of the author.	THIS IS THE ONLY COPY OF THE ORIGINAL DOCUMENT. IT IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN APPROVAL OF THE AUTHOR.	CITRUS COUNTY CENTRAL LANDFILL MASTER PLAN	SHEET C-1 DATE 10-21-90 FILE 2000.11
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SITE MASTER PLAN

PRELIMINARY

PROJECT
LOCATION



SUBJECT: Citrus County Central Landfill

This Map and the Survey and Map Report constitute a full Map; neither is full and complete without the other.