

Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE

Sumter County Dept. of Public Works, Garry Breeden, Director 319 East Anderson Avenue Bushnell, Florida 33513

PERMIT/CERTIFICATION

GMS ID No.: 4060C00092 Permit No.: 22926-002-SF Date of Issue: 05/29/1998 Expiration Date: 05/01/2003

County: Sumter Lat/Long: 28°44'30"N 82°05'20"W

Sec/Town/Rge: 15 & 22/20S/22E

Project: Sumter County

Class I Landfill, Long-Term Care

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-25, 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 department and made a part hereof and specifically described as follows:

To conduct long-term care monitoring and maintenance of a closed Class I Landfill (approximately 30 acres), referred to as the Sumter County Class I Landfill, subject to the long-term care specific conditions attached. The site is located 1 mile east of Interstate 75 along the south side of C.R. 470, north of Bushnell in Sumter County, Florida. Long-term care for this site began May 24, 1990. Closure was conducted in accordance with F.A.C. Chapter 17-701.070 (dated August 2, 1989) which requires 20 years of long-term care for the landfill from May 24, 1990. A reduced long-term care period may be available if certain criteria (described in F.A.C. Chapter 17-701.075) are met.

This Permit Replaces Permit No. SF60-211255.

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 not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Garry Breeden, Director

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 403-859 through 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 personal 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: Sumter County Lblic Works Dept. Mr. Garry Breeden, Director

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

GENERAL CONDITIONS:

- 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.
 - (c) Records of monitoring information shall include:
 - 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.

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GENERAL CONDITIONS:

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.
 - (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.

PERMITTEE: Sumter County Public Works Dept. PERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

GENERAL CONDITIONS:

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.
- (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. **Facility Designation.** This landfill site shall be classified as a Class I closed landfill and shall be monitored and maintained in accordance with this permit and all applicable requirements of Chapters, 62-4, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.
- 2. **Permit Application Documentation.** This permit is issued in response to the following documents submitted for the Sumter County Class I Landfill, Inc. for the long-term care of the 30 acre closed landfill:
 - DEP Application Form 62-701.900(1) and permit renewal report received August 4, 1997;
 - Ground Water Monitoring Plan Evaluation, submitted by Springstead Engineering, Inc., dated August 1, 1997;
 - Responses submitted by Springstead Engineering, Inc., dated
 October 2, 1997; November 25, 1997; January 23, 1998; and March 3, 1998;
 - Methane Gas Migration Survey submitted by Springstead Engineering, Inc., dated December 18, 1997;
 - · And in accordance with all applicable requirements of Department rules.
- 3. **Permit Modifications.** 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.
- 4. **Control of Access.** Access to, and use of, the facility shall be controlled as required by F.A.C. Rule 62-701.600(5)(i).
- 5. Odor Complaints. The operating authority shall be responsible for the control of odors and fugitive particulates arising from this facility. Such control shall minimize the creation of these nuisance conditions on adjoining property. Complaints received from the general public and confirmed by DEP personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

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SPECIFIC CONDITIONS:

6. Stormwater System Management. The landfill shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running onto waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with F.A.C. Rule 62-701.500(10) to meet applicable standards of F.A.C. Chapters 62-3, 62-302 and 62-330.

7. Facility Maintenance and Repair.

- a. The site shall be properly maintained including maintenance of stormwater systems, cover systems, and the prevention of erosion and ponded water on closed disposal areas.
- b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, or explosion, the permittee shall immediately (within 24 hours) notify the Department 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.
- c. In the event that any portion of the groundwater monitoring system is damaged, remedial measures shall be completed within sixty (60) days of the written notification specified in Specific Condition #7.b. above, unless otherwise approved by the Department.
- d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented within **thirty (30) days** of the written notification specified in Specific Condition #7.b. above, unless otherwise approved by the Department.
- e. The permittee shall inspect the previously closed portions of the landfill, at a minimum, quarterly. In the event that the asphalt final cover is cracked, gouged, or otherwise damaged such that stormwater may infiltrate into the landfill below, the Department shall be notified as required by Specific Condition #7.b., above, and the area shall be repaired within two weeks of the Department's approval of the corrective action plan.
- f. Closed areas which are not covered by asphalt shall be inspected for erosion within 48 hours of each significant rainfall event. Areas with significant erosion shall be repaired within two weeks of discovery.

PERMITTEE: Sumter County olic Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

- 8. Financial Assurance/Cost Estimates. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 17-701.076 (effective 11-28-89). As required by Rule 17-701.076(4)(a), F.A.C., all costs for long-term care shall be adjusted and submitted annually by October 1st of 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 the DEP District Office and to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.
- 9. Water Quality Requirements. Landfills shall be designed, constructed, operated, maintained, closed, and monitored throughout its design period (which includes long-term care) to control the movement of waste and waste constituents into the environment so that ground water and surface water quality standards and criteria of F.A.C. Chapters 62-4, 62-302 and 62-520, will not be violated beyond the zone of discharge specified for the landfill.
- 10. 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. Chapter 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 whenever the sampling or laboratory agent is changed. Documentation shall include the completed signature page and the Table of Contents of the approved plan.

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. Rule 62-4.246 and Chapter 62-160. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

PERMITTEE: Sumter County Public Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

11. Zone of Discharge.

- a. The Zone of Discharge for this site shall extend horizontally 100 feet from the Class I landfill cell edge or to the property boundary, whichever is less, and shall extend vertically through the surficial aquifer to the bottom of the first confining unit.
- **b.** The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground waters will not be exceeded at the boundary of the Zone of Discharge according to F.A.C. Rules 62-520.400 and .420.
- 12. **Ground Water Monitoring Well Locations.** The ground water monitoring wells shall be located as per the attached Figure prepared by Springstead Engineering, Inc. titled "Sumter County Solid Waste Management Facility, Groundwater Elevations 7/9/96". This map was submitted with the November 25, 1997 permit response. These wells are as follows:

Well No.	Aquifer	Designation	Location
MW-1	Floridan	Detection	See attached figure
MW-2	Floridan	Detection	"
MW-4	Floridan	Detection	W
MW-6A	Floridan	Background	W
MW-7	Floridan	Detection	, , , , , , , , , , , , , , , , , , ,
MW-8	Floridan	Detection	W
MW-9	Floridan	Detection	w

All wells are to be clearly labeled and easily visible at all times. Monitoring wells should be kept locked at all times to prevent unauthorized access.

PERMITTEE: Sumter County blic Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

13. Ground Water Sampling.

a. Ground water monitoring wells listed in Specific Condition No. 12 shall be sampled quarterly for the following parameters:

Field Parameters	Laboratory Para	ameters
Static water levels	Aluminum	Thallium
before purging	Arsenic	Silver
Specific Conductivity	Barium	Sodium
рН	Cadmium	Copper
Turbidity	Chromium	Iron
Temperature	Manganese	Zinc
Colors, sheens	Lead	Mercury
	Selenium	Antimony
·	Beryllium	Nickel
	Selenium	Chloride
	Fluoride	Cyanide
	Nitrate	Sulfate
	TDS	Nitrite
	Foaming Agents	Ammonium
	Gross Alpha	
	Radium-226 + Ra	adium-228

- **b.** Annually, the ground water monitoring wells listed in Specific Condition No. 12 shall be sampled for the parameters listed in Specific Condition No. 13a, as well as the Volatile Organic Compounds, Pesticides, PCB's and Trihalomethanes listed in the Primary Drinking Water Standards listed in F.A.C. Chapter 62-550.310 (Rule dated September 7, 1994).
- c. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must meet, or be more stringent than that parameter's Maximum Contaminant Level in order to demonstrate compliance with ground water standards.
- 14. **Ground Water Monitoring Well Construction.** Prior to construction of any new wells, the permittee shall request and receive Department approval of a minor permit modification. The following information is required to be submitted within 90 days of new well installation, or as stated below:

PERMITTEE: Sumter County Public Works Dept. PERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

(Specific Condition #14, cont'd)

a. Documentation of the following for each well installed:

Well Identification
Aquifer monitored
Screen type and slot size
Screen length
Screen diameter
Elevation at top of casing
Elevation at ground surface

Boring (Lithology) Log
Total depth of well
Casing diameter
Casing type and length
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. Rule 62-550.310 and .320.
- c. A surveyed drawing shall be submitted, 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 survey shall be conducted by a Florida Registered Surveyor.
- 15. Well Abandonment. All wells not a part of the approved Water Quality Monitoring Plan shall be plugged and abandoned in accordance with F.A.C. Rule 62-532.440, and the Southwest Florida Water Management District. The permittee shall submit a written report to the Department within 90 days of well abandonment documenting verification of the well abandonment. A written request for exemption to the abandonment of a well must be submitted to the FDEP's Solid Waste Section for approval.
- 16. Verification/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 within receipt of the laboratory data 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 ground water conditions at the facility, and assessment monitoring/corrective action may be required.

RMIT NO.: 22926-002-SF

PERMITTEE: Sumter Count₂ blic Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

- 17. Water Quality Reporting Requirements. All ground water quality monitoring shall be reported on the Department Form 62-522.900(2), Ground Water Monitoring Report (attached). The permittee shall submit to the Department the results of the water quality analysis required by Specific Condition 13.a by January 15th, April 15th, July 15th and October 15th of each year. Results of the water quality analysis required by Specific Condition 13.b shall be submitted annually by January 15. A ground water flow contour map representing conditions at the time of ground water sampling shall be submitted with each set of analytical results.
- 18. Gas Migration Monitoring. Gas migration monitoring shall be conducted annually to ensure that gas concentrations remain below 25% of the Lower Explosive Limit (LEL) in all enclosed structures at and adjacent to the site, and below 100% of the LEL at the property boundary. Results of the gas monitoring shall be submitted annually by December 15th to the addresses listed in Specific Condition No. 19. Monitoring points M-1 through M-29 (located on the attached aerial photograph from Central Testing Laboratory), as well as all enclosed site structures shall be reported.
- 19. Report Submittals. All gas and water quality monitoring reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318; and also to: Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS 4565, Tallahassee, Florida 32399-2400.
- 20. Evaluation of Water Quality Monitoring. Prior to one hundred and eighty (180) days before permit expiration an evaluation of the ground water monitoring plan shall be submitted. As part of this evaluation, the ground water monitoring well sampling results required by Specific Condition No. 13.b shall be included. The evaluation shall include ground water flow conditions, trend review of indicator water quality parameters, and other pertinent data. The evaluation shall propose a monitoring plan, for the next five year period. Any ground water contamination that may exist, shall be addressed as part of a ground water investigation for the landfill assessment.
- 21. Permit Renewal Requirements. The permittee shall apply for permit renewal no later than one hundred and eighty (180) days before the expiration of this Department permit. The permittee shall apply for permit renewal on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

PERMITTEE: Sumter County Public Works Dept. PERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

- 22. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications, permit modifications 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.
- 23. **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.
- 24. **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 any conditions and deadlines.

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D.

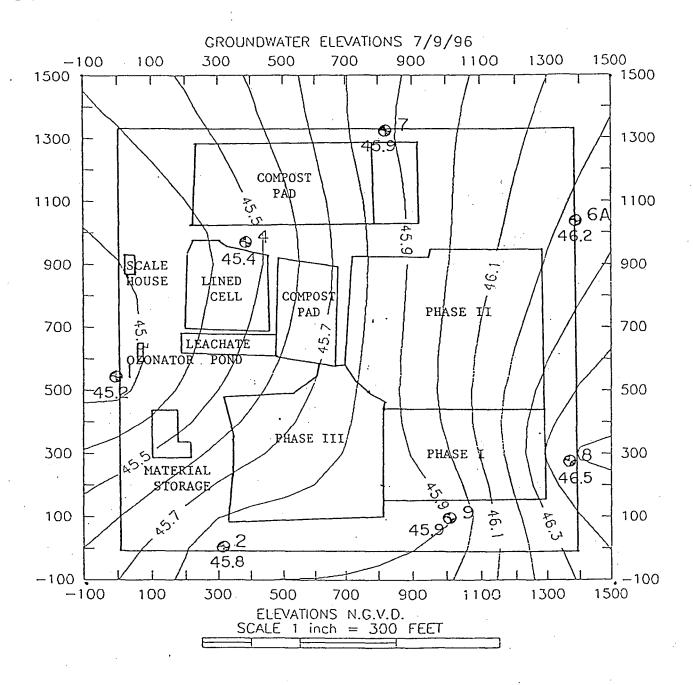
Director of District Management

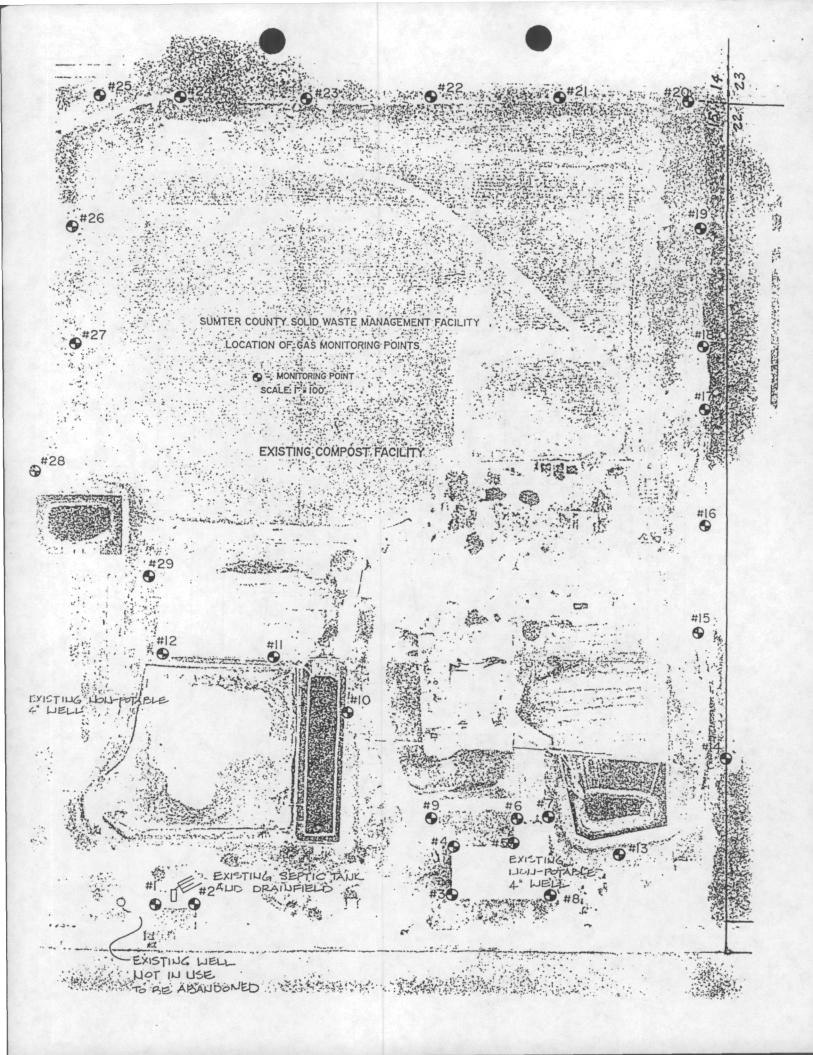
Southwest District

ATTACHMENT 1

SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
7.	Within 24 hours, Within 7 days, of occurrence	Notification of failure of systems Written notification & description of corrective actions
8.	Annually, by October 1st	Financial Assurance Cost Estimates
8.	Annually	Financial Assurance Proof of Funding
13a.	Quarterly	Sample wells
13b.	Annually	Sample wells for expanded parameter list
17.	January 15th, April 15th, July 15th and October 15th	Water Quality Sampling report and water table contour map
17.	Annually, by January 15th	Results of expanded ground water sampling parameters (#13b)
18.	Annually, by December 15th	Gas Migration Report
20.	180 days prior to permit expiration (November 2, 2002)	Evaluation of Water Quality Monitoring
21.	180 days prior to permit expiration (November 2, 2002)	Apply for permit renewal

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY





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DEP Form # 62-622.800(2)	_
Form Title GROUND WATER MONITORING REPORT	
Effective Date	
DEP Application No.	

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT.

Rule 62-522.600(11)

PART I GENERAL INFO	DRMATION		_	
(1) Facility Name		· · · · · · · · · · · · · · · · · · ·		
Address			·	
City	······································			Zip
Telephone Number				
(2) The GMS Identification	ation Number		· · · · · · · · · · · · · · · · · · ·	
(3) DEP Permit Number	er			
(4) Authorized Repres	entative Name			
Address				
City				Zip
Telephone Number				
(5) Type of Discharge		-		
	ge			
		Certification		
all attachments and the that the information is	nat, based on my inquiry of the	ose individuals immedia	tely responsible for o	on submitted in this document and btaining the information, I believe ties for submitting false information,
Date:				
		Signati	ure of Owner or Autho	orized Representative
PART II QUALITY AS	SURANCE REQUIREMENTS			
Sample Organization	Comp QAP #			
Analytical Lab	Comp QAP #/HRS Certificat	tion #		
	*Comp QAP #/HRS Certificat	tion #		
Lab Name	, · · · · · · · · · · · · · · · · · · ·			
Address	·			in the contract of the contrac
Phone Number (

PART III ANALYTICAL RESULTS Facility 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
					2		
·					·		
							·

^{*} Attach Laboratory Reports



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 29, 1998

NOTICE OF PERMIT

Sumter County Public Works Department Mr. Garry Breeden, Director 319 E. Anderson Ave. Bushnell, Florida 33513

RE: Permit No. 22926-002-SF, Sumter County Sumter County Closed Class I Landfill - Long-Term Care

Dear Mr. Breeden:

Attached is permit number 22926-002-SF, issued pursuant to Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below 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. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall 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;
- (b) A statement of how and when each petitioner received notice of 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 Petitioner, if any;

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- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends warrant reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or 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 transfer of permit will not be effective until further Order of the Department.

When the Order 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, 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.

Sumter County Publ Works Department Mr. Garry Breeden, Director

Pe t No:22926-002-SF

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

MRichard D. Garrity, Ph.D.

Director of District Management

Southwest District

RDG/sjp

Copies w/Attachment to:

Sumter County Board of County Commissioners
David Springstead, P.E., Springstead Engineering, 727 S. 14th St.,
Leesburg, Fl. 34748

Terry Hurst, Sumter County, PO Box 1066, Bushnell, Fl. 33513
Mitch Kessler, TIA, 10012 N. Dale Mabry, Ste. 223, Tampa, Fl. 33618
Douglas Beason, OGC Tallahassee
Fred Wick, FDEP Tallahassee
Robert Butera, P.E., FDEP Tampa
Danielle Nichols, FDEP Tampa (Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on May 29, 1998 to the listed persons. (date stamp)

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

Clerk

Katé

Payment | Site | Facility | partY | Reports | Permitting Application SITE Permit Site Name: SUMTER CO. CLASS I LF LTC (LFC1) Site #: 0022926 County: SUMTER Comments: N RPAs: N # Cases: 0 ----- Project ------Permit #:0022926-002-SF Project #: 002 Logged:08-AUG-1997 CRA #: 7135 Permit Office: SWD (DISTRICT) Agency Action: Issued Project Name: SUMTER CO LF LONG-TERM CARE Desc: Type/Sub/Des: SF /09 RENEWAL - CLASS I - Closure COE #: Received: **04-AUG-1997** Issued: 29-MAY-1998 Expires: **01-MAY-2003** OGC: **100.00** Fee Recd: 100.00 Dele: Override: SMALL CO. WAIV ------Pelated Party ------Role: APPLICANT Begin: 08-AUG-1997 End: Name: BREEDEN, GARRY Company: SUMTER CO PUBLIC WORKS Addr: 319 E ANDERSON AVE, SUITE B State: FL Zip: 33513- Country: U.S.A. City: BUSHNELL Phone: 352-793-0240 Fax: ----- Processors ------Processor: AMRAM_A Y A Y Active: 08-AUG-1997 Inactive: Help Reports eXit Permitting Application Events Scheduled of 90 Site #: 0022926 Name: SUMTER CO. CLASS I LF LTC (LFC1) Permit #: 0022926-002-SF Type/Subtype: SF /09 Received: 04-AUG-1997 Project #: 002 Name: SUMTER CO LF LONG-TERM CARE > Receive Request: Done Event |Begin Date | Prd | Due Date Rmn Status End Date Receive Request 04-AUG-1997|1 04-AUG-1997 05-AUG-1997 Done Fee Verification 104-AUG-199712 06-AUG-1997 Sufficient | 04-AUG-1997 Completeness Revie 04-AUG-1997 30 03-SEP-1997 Incomplete | 02-SEP-1997 Awaiting Addition 02-SEP-1997 45 17-OCT-1997 Received 03-OCT-1997 Completeness Rev 03-OCT-1997 30 02-NOV-1997 Incomplete 29-OCT-1997 Awaiting Additi 29-OCT-1997 45 13-DEC-1997 Received 26-NOV-1997 Completeness R 26-NOV-1997 30 26-DEC-1997 Incomplete 23-DEC-1997 Awaiting Addi 23-DEC-1997 45 26-JAN-1998 06-FEB-1998 Received Incomplete 24-FEB-1998 Completeness 26-JAN-1998 30 25-FEB-1998 Awaiting Ad 24-FEB-1998 45 Received 05-MAR-1998 10-APR-1998 Completene | 05-MAR-1998 | 30 05-MAR-1998 Complete 04-APR-1998 Determine | 05-MAR-1998 | 90 03-JUN-1998 Issue 29-MAY-1998 Issue Fi | 29-MAY-1998 | 14 Issued 29-MAY-1998 12-JUN-1998 29-MAY-1998 ISSUE P|29-MAY-1998|1 30-MAY-1998 Done STOP CL 29-MAY-1998 1 30-MAY-1998 Done 29-MAY-1998 RESET CLOCK 24-FEB-1998 1 25-FEB-1998 Done 24-FEB-1998 RESET CLOCK 23-DEC-1997 1 24-DEC-1997 Done 23-DEC-1997 29-OCT-1997 RESET CLOCK 29-OCT-1997|1 30-OCT-1997 Done 02-SEP-1997 RESET CLOCK |02-SEP-1997|1 03-SEP-1997 Done

AREA: SWD_			ng Application t Log Remittance		CRAF00	06A 00.00
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JAM JIM 3/0/63

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 3/10/03 (n ref. to 3/7/03)	Subject <u>Sunter</u> Co Vol Red.
Time 9:40 AM	Permit No. aa4a6-002-5F
	County 5 mtec
Mr. Alan Yecr	Telephone No. 35a-787-1268
RepresentingCTL	
Phoned Me Was Called	[] Scheduled Meeting . [] Unscheduled Meeting
Other Individuals Involved in Conversation/M	
	ear was phoned on 317103 in regards to the
•	c county. The report forms indicate that all
	response was that they didn't catch the
miotake, but that they did not filter	during the sampling event. He will send revised
sheets,	
On March 10, 2003 Mr. Herr calle	ed me regarding the radio-nuclides. Ite stated
that they wouldn't be able to add t	tem to the summary report - I told him it was
Oh as long as we have the lab data.	He infamed me that he is redoing the entire
report a will send all documentation	v
•	ature Zora Ross
sheet, if necessary) Title	ES T
Title	

PA-01

1/96

pap

A WIN

Florida Department of

Environmental Protection

Southwest District

	CONVERSATION RECORD						
Date November 14, 2001	Subject Sumter County Closed Class I Gas Migration						
Time 12:20 PM	Permit No. 22926-002-SF						
	County Sumter						
Ms. Cindy Tomkins	Phone No. 352-793-3368						
Representing Sumter Coun	ty Solid Waste						
[] Phoned Me [X] W	as Called [] Scheduled Meeting [] Unscheduled Meeting						
Other Individuals in Conver	sation/Meeting						
Summary of Conversation/M	leeting:						
Sumter County was called as a reminder that according to Specific Condition 18 of the above referenced permit, the annual gas migration monitoring is due by December 15, 2001. Cindy stated that it had been done and was already on the way to the Department via mail.							
	Signature Mallan						
	Sara I. Smithee						

Central Testing Laboratory

Engineering and Materials Testing
November 30, 2001

Reply to:

F.D.E.P. Southwest District 3804 Coconut Palm Dr. Tampa, Fl 33619 Attn: Mr. John Morris

D.E.P.

DEC 1 0 2001

Southwest District Tampa

RE: Response to Request for Additional Information Sumter County – Solid Waste Landfill, Class I Permit NO. 22926-002-SF

Mr. Morris:

We are in receipt of your Request for Additional Information (RAI) dated November 5,2001. Please find the following response:

GROUNDWATER SAMPLING

- Specific Condition 7 Facility Maintenance and Repair. Part b. of this condition states that in the event of a failure of any portion of the landfill systems the permittee shall immediately notify the Department of the occurrence, explain remedial measures to be taken, and time needed for repairs. It is the Departments positions that dry monitoring wells or wells that cannot be sampled represent a failure of a portion of the landfill systems. If dry or damaged monitor wells are encountered during future sampling events the Department must be immediately notified. The submittal prepared by Central Testing Laboratory indicated that MW-6A could not be sampled on July 23,2001. The transmittal letter contained no description of remedial actions. Please provide written notification of the following: the proposed investigative actions to be implemented to restore MW-6A, the time needed to complete the corrective actions, and the schedule for conducting a supplemental sample event at this location.
- 1. As the Department is well aware, Florida is subject to a wide variety of climatic conditions including extended droughts. The water table is low across the region and has greatly affected Central Florida. The Department was notified verbally prior to the 3rd quarter report being issued with discussions of the lower water table, confirmation of working equipment, and purging techniques. We understood from the Department that further action may be required should a dry 6A well be encountered upon a 4th quarter sampling event.

The 4th quarter water samples were collected on 10/11/01 and MW-6A was properly purged and samples were obtained. This information was presented verbally to Mr. John Morris prior to the receipt of the RAI letter. We are currently awaiting the results of the 4th quarter. Other well issues such as nitrates and elevation concerns were discussed, with Mr. Morris at this time.

1725 SW 17th Street

Ocala, FL 34474

Response to Request for Additional Information Sumter County – Solid Waste Landfill, Class I Permit NO. 22926-002-SF

Since samples were obtained in October, the water levels are up significantly and it appears that a dry 6A well is recovered. However CTL will re-visit the well to take additional water levels and re-develop the well. These steps should ensure more productive sampling events for the future. These steps should be completed before the end of the first quarter, 2002.

- It was reported that the ground water surface was measured at an elevation of 42.02 feet at well 6A during the July sample events, however the poor recharge of the well did not allow sample collection. Review of previous sample events indicates that ground water samples were collected from MW-6 during the April and July 2000 sample events when groundwater was reported at lower elevations. Please include a discussion of this apparent inconsistency between sample events within the response to comment No. 1, above.
- 2. The difference in the depth to water between the months of April and July 2000 and July 2001 is on the order of 0.88 feet. With the new S.O.P changes in field sampling, and with the establishments of NELAP/NELAC, we have upgraded our sampling equipment within this year from a bottom suction purge pump (Whale Pump) to a middle screen, variable speed suction pump (Redi-Flow II). The higher intake from the middle screen pumps in turn,, decreases the amount of available accessible groundwater by approximately 6 inches. CTL will make changes in HDPE tubing length specifically for the Sumter County Sampling Events by decreasing our tubing length from 100ft to 50ft. This modification will use less water in the purging process and leave more water for sampling events.
 - 3. The results of iron analyses were not included for wells MW-2, MW-8, and MW-9 in the report for the July 2001 sampling event. Please note the failure to report all required parameters is a violation of Specific Condition 13a. of the above referenced permit. Please ensure that all parameters are included in future sampling events.
 - 3. As stated in the 3rd quarter report, the MBAS sample containers were broken during shipment by UPS. After re-sampling and during the compiling of data the iron results were then inadvertently omitted from the lab results in error by the lab. Advanced Environmental Laboratory has assured us, this will not occur again.
 - 4. The ground water surface elevation reported for well MW-2 during the July 2001 sample event was five feet lower than the elevations previously recorded at this well since July 1999. Please closely review the ground water levels measured at the facility during the future sample events.
 - 4. This comment is noted. We will also verify TOC and Elevations prior to the end 1st quarter.

Response to Request for Additional Information Sumter County – Solid Waste Landfill, Class I Permit NO. 22926-002-SF

- 5. Elevated turbidity measurements have been sporadically reported during previous sampling events. It is noted that considerable variation in turbidity values has been reported for this facility, and it is unclear if high ground water turbidity is a naturally occurring condition. Please implement appropriate procedures that will minimize turbidity in future sampling events.
- 5. This comment is noted. Turbidity SOP's will be explored more thoroughly in the future.
- 6. Additionally, it is noted that several groundwater standards have been exceeded for the July 2001 sampling event, as summarized on the attached table. These exceedances are noted below:
 - a. Nitrate was reported at a concentration of 15mg/L at a well MW-4 (primary ground water standard at 10 mg/L). It is noted that nitrate concentrations have exceeded the ground water standard at MW-4 during twelve of the last fourteen sampling events (since Feb. 1998) as summarized on the attached table.
 - b. Aluminum was reported at a concentration of 11mg/L at well MW-1 (secondary groundwater standard at 0.2 mg/L).
 - c. Iron was reported at concentrations of 0.92mg/L at MW-1 and of 1.3 mg/L at MW-7 (secondary groundwater standard at 0.3mg/L).
 - d. Manganese was reported at concentration of 0.054 mg/L at MW-9 (secondary groundwater standard at 0.05mg/L).
 - e. Total dissolved solids were reported at a concentration of 502mg/L at MW-4 (secondary groundwater standard at 500mg/L).

Please note that specific condition 16 of the above referenced permit indicates that upon receipt of laboratory data the permittee has 15 days to re-sample the monitor wells to verify the original analysis. Should the permittee choose not to re-sample, the Department will consider the water quality analyses to be representative of current ground water conditions.

Exceedances of groundwater standards listed in item No. 6 above provide the basis for the Department to require the initiation of evaluation monitoring in accordance with rule 62-701.510 (7), F.A.C. Implantation of this rule may include the installation of additional monitor wells located at the property boundary and the analysis of additional parameters. A copy of this section of the Solid Waste Rule is attached for your convenience. Please provide the locations and justification of proposed construction details for supplemental monitor wells in the vicinity of well MW-4. It is the Department's intention to provide written notification to the County to initiate evaluation monitoring concurrent with approval of the

Response to Request for Additional Information Sumter County – Solid Waste Landfill, Class I Permit NO. 22926-002-SF

monitor well construction details.

6. CTL and Sumter County requests some additional time to explore, sample, and investigate reasons as to possibilities for the excessive values before any new monitor wells are installed. We believe it will be more beneficial and acceptable to the taxpayers financially. After a recent meeting with Sumter County, and discussion about possible causes of the high Nitrates, it is being considered that the high nitrate concentration in MW-4 may be associated with several septic drain fields positioned up gradient from this well location. Prior to February 1, 2001 CTL will obtain additional samples from the well and will test for indicator parameters for effluent and leachate. These parameters will include the following to which it applies: COD, TOC, Total Nitrogen, Total Phosphorus, Chloride, TDS, TKN, Alkalinity, Iron, 601, and 602.

The results of this sampling and testing will be provided to the Department along with a discussion of the results and recommendations for future sampling analysis.

The elevated aluminum, iron, and manganese concentrations noted are most likely due to natural attenuation concentrations in the groundwater in this area.

We trust this information meets your needs at this time. Should you have additional questions or require additional information, please contact our office.

Very truly yours,

Central Testing Laboratory

Patricia Snowdon

Environmental Specialist

Theodore 8 strouse, P.E. Fl. Reg. No. 48220

Attachments

cc: Mr. Gary Breeden

Mr. Terry Hurst

Mr. David Springstead, P.E.

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that we card to you. Attach this form to the front of the mailpiece, or on the back if spac permit. Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered and delivered.	e does not e number.	I also wish to receive the following services (for an extra fee): 1.	
ted	3. Article Addressed to:	4a. Article N		
completed	Mr. barry Breeden	7099 3400 0001 9758 8015 4b. Service Type		
2	Suntar County Dept or Public Works 319 E. anderson Are Bruhnell FL 33513	☐ Registere	ed XDCertified	
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	PS Form 3811 , December 1994	595-97-B-0179	Domestic Return Receipt	

	U.S. Postal Service CERTIFIED MAIL RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)
i i	Article Sent To:
J 🗄	Sumter Couty Dept of Publishes
=	Postage \$
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0	Return Receipt Fee Here (Endorsement Required)
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	- 319 E. andersu Due
15	1 Sughell, Fl SSS(S)
	PS Form 3800, July 1999 See Reverse for Instructions



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

David B. Struhs Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Garry Breeden Sumter County Department of Public Works 319 East Anderson Avenue Bushnell, Florida 33513 November 5, 2001

Re:

Groundwater Sampling at Sumter County Class I Landfill, Sumter County

Permit No. 22926-002-SF

Mr. Breeden:

The Solid Waste Section of the Florida Department of Environmental Protection has reviewed the results of the environmental monitoring conducted at the above referenced facility. This letter specifically addresses the July 2001 groundwater analysis data submitted by Central Testing Laboratory, dated September 21, 2001, received October 1, 2001. The purpose of this letter is to provide: review comments regarding the submitted groundwater sampling results; clarification regarding the reporting requirements of the above referenced permit; and, notification of non-compliance with Rule 62-701.510, F.A.C., and with the above referenced permit.

- Specific Condition 7 Facility Maintenance and Repair. Part b. of this condition states that in the event of a
 failure of any portion of the landfill systems the permittee shall immediately notify the Department of the
 occurrence, explain remedial measures to be taken, and time needed for repairs. It is the Department's
 position that dry monitoring wells or wells that cannot be sampled represent a failure of a portion of the landfill
 systems. If dry or damaged monitor wells are encountered during future sampling events the Department must
 be immediately notified. The submittal prepared by Central Testing Laboratory indicated that MW-6A could
 not be sampled on July 23, 2001. The transmittal letter contained no description of remedial actions. Please
 provide written notification of the following: the proposed investigative actions to be implemented to restore
 MW-6A, the time needed to complete the corrective actions, and the schedule for conducting a supplemental
 sampling event at this location.
- 2. It was reported that the ground water surface was measured at an elevation of 42.02 feet at well MW-6A during the July 2001 sampling event, however the poor recharge of the well did not allow sample collection. Review of previous sampling events indicates that ground water samples were collected from well MW-6A during the April and July 2000 sampling events when groundwater was reported at lower elevations. Please include a discussion of this apparent inconsistency between these sampling events with in the response to comment No. 1, above.
- 3. The results of iron analyses were not included for wells MW-2, MW-8 and MW-9 in the report for the July 2001 sampling event. Please note that the failure to report all required parameters is a violation of Specific Condition 13.a., of the above referenced permit. Please ensure that all required parameters are included in future sampling events.
- 4. The ground water surface elevation reported for well MW-2 during the July 2001 sampling event was about five feet lower than the elevations previously recorded at this well since July 1999. Please closely review the ground water levels measured at the facility during future sampling events.

"More Protection, Less Process"

- Elevated turbidity measurements have been sporadically reported during previous sampling events. It is noted that considerable variation in turbidity values has been reported for the facility, and it is unclear if high ground water turbidity is a naturally occurring condition. Please implement appropriate procedures that will minimize turbidity in future sampling events.
- 6. Additionally, it is noted that several ground water standards have been exceeded for the July 2001 sampling event, as summarized on the attached table. These exceedances are noted below:
 - Nitrate was reported at a concentration of 15 mg/L at well MW-4 (primary ground water standard at 10 mg/L). It is noted that nitrate concentrations have exceeded the ground water standard at well MW-4 during twelve of the last fourteen sampling events (since Feb. 1998) as summarized on the attached table.
 - Aluminum was reported at a concentration of 11 mg/L at well MW-1 (secondary ground water standard at 0.2 mg/L).
 - Iron was reported at concentrations of 0.92 mg/L at well MW-1 and of 1.3 mg/L at well MW-7 (secondary ground water standard at 0.3 mg/L).
 - Manganese was reported at a concentration of 0.054 mg/L at well MW-9 (secondary ground water standard at 0.05 mg/L).
 - Total Dissolved Solids were reported at a concentration of 502 mg/L at well MW-4 (secondary ground water standard at 500 mg/L).

Please note that Specific Condition 16 of the above referenced permit indicates that upon receipt of laboratory data the permittee has 15 days to resample the monitor wells to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analyses to be representative of current ground water conditions.

Exceedances of ground water standards listed in Item No. 6 above, provide the basis for the Department to require the initiation of evaluation monitoring in accordance with Rule 62-701.510(7), F.A.C. Implementation of this rule may include the installation of additional monitor wells located at the property boundary and the analysis of additional parameters. A copy of this section of the solid waste rule is attached for your convenience. Please provide the locations and justification of proposed construction details for supplemental monitor wells in the vicinity of well MW-4. It is the Department's intention to provide written notification to the County to initiate evaluation monitoring concurrent with approval of the monitor well construction details.

Please provide written responses to the underlined items within 30 days of receipt of this letter. I can be reached at (813) 744-6100, extension 336, to discuss the issues presented in this letter.

Sincerely,

cc:

John R. Morris, P.G.

Moore

Solid Waste Section

Attachments --Summary of results, July 2001 sampling event Summary of nitrate concentration Rule 62-701.510(7), F.A.C.

Terry Hurst, Sumter County Solid Waste, 835 C.R. 529, Lake Panasoffkee, FL 33538 Patricia Snowdon, Central Testing Laboratory, 727 So. 14th Street, Leesburg, FL 34748 Robert Butera, P.E., FDEP Susan Pelz, P.E., FDEP

Analytical Results Summary for Ground Water Samples Collected at Class I/III Landfills

Approval of Sampling QA Plan -- Y

Facility Name -- Sumter County Class I Landfill Analytical Laboratory -- Advanced Environmental Laboratories, Inc. County -- Sumter

Date Sampled -- 7/23-24/01

Date Received -- 10/01/01

Approval of Analytical QA Plan -- Y

Samping Frequency -- Quarterly

Filtered Metals -- N

Equipment Blank -- N

Duplicate -- N

GW Contour Map -- Y

Exceedances summarized -- N

	Ground		.,,	Мо	nitor Well Ide	ntification Nur	nber		
•	Water	MW-I	MW-2	MW-4	MW-6A	MW-7	MW-8	MW-9	Notes
PARAMETERS	Standard	D/F	D/F	D/F	B/F	D/F	D/F	D/F	(as needed)
Field Measurements									
Water Level Elevation	NE	41.74	36.64	41.76	42.04**	41.94	43.06	42.05	** = MW-6A not included as
pH (Std. Units)	6.5 - 8.5	8.2	7.15	7.25	NS	8.42	7.36	7.25	inadequate sample was available
Turbidity (NTU)	20*	37	32	11	NS	11	46	71	due to slow recharge/silt content
Conductivity (µmhos/cm)	NE	135	202	6.87	NS	22.3	329	742	
Dissolved Oxygen (mg/L)	<20% sat*	NA	NA	NA	NS	NA	NA	NA	Not required by permit
Temperature (°C)	NE	26.9	28	28.1	NS	25.2	27.9	28.2	
Metals/Semimetals									
Aluminum (mg/L)	0.2	11	< 0.2	< 0.2	NS	7	<0.2	<0.2	
Antimony (mg/L)	0.006	< 0.006	< 0.006	< 0.006	NS	< 0.006	< 0.006	< 0.006	
Arsenic (mg/L)	0.05	< 0.01	< 0.01	< 0.01	NS	< 0.01	< 0.01	< 0.01	
Beryllium (mg/L)	0.004	< 0.003	< 0.003	< 0.003	NS	< 0.003	< 0.003	< 0.003	
Cadmium (mg/L)	0.005	< 0.005	< 0.005	< 0.005	NS	< 0.005	< 0.005	< 0.005	
Chromium (mg/L)	0.1	0.026	< 0.01	0.013	NS	0.039	< 0.01	< 0.01	
Iron (mg/L)	0.3	0.92	NA	0.052	NS	1.3	NA	NA	
Lead (mg/L)	0.015	0.0063	0.0051	0.0087	NS	0.013	0.014	0.008	
Manganese (mg/L)	0.05	< 0.01	< 0.01	< 0.01	NS	0.013	< 0.01	0.054	
Mercury (mg/L)	0.002	< 0.002	< 0.002	< 0.002	NS	< 0.002	< 0.002	< 0.002	
Selenium (mg/L)	0.05	< 0.01	< 0.01	< 0.01	NS	< 0.01	< 0.01	< 0.01	
Sodium (mg/L)	160		8.5		NS	4.2	5.6	10	
Thallium (mg/L)	0.002	< 0.002	< 0.002	< 0.002	NS	< 0.002	< 0.002	< 0.002	
Inorganics						1	i		
Ammonia (mg/L)	NE	0.16	< 0.02	< 0.02	NS	0.03	< 0.02	< 0.02	
Chlorides (mg/L)	250	<1 .	<1	53	NS	<1	<1	<1	
Fluoride (mg/L)	4	< 0.05	< 0.05	< 0.05	NS	< 0.05	< 0.05	< 0.05	
Nitrate (mg/L)	10	3.2	4.5	15	NS	3.6	1.4	< 0.05	
Nitrite (mg/L)	1	< 0.05	< 0.05	0.23	NS	0.32	< 0.05	< 0.05	-
Sulfate (mg/L)	250	<1	11	<1	NS	<1	<1	<1	
Total Dissolved Solids (mg/L)	500	100	70	502	NS	160	200	490	
Radionuclides		1			5	1		1	
Gross Alpha (pCi/L)	15	11.4	l ₁	6.1	NS.	1.2	<1.5	3.6	
Radium 226 + 228 (pCi/L)	5	3.6	2.1	3.6	NS .		1.6	3.1	
Volatile Organics	f					1	1		Analyzed annually ***
Benzene (µg/L)	lı .								
Chlorobenzene (µg/L)	100	-				/			
1,2-dichlorobenzene (µg/L)	600	l						<u> </u>	
1,4-dichlorobenzene (µg/L)	75							 	
1,2-dichloroethane (µg/L)	3								
1,1-dichloroethene (µg/L)	7						<u> </u>		
cis-1,2-dicholoethene (µg/L)	70		<u> </u>						
Ethylbenzene (µg/L)	700					 			
Methylene chloride (µg/L)	5						 		
Tetrachloroethene (μg/L)	3	<u> </u>	 						
Vinyl Chloride (µg/L)	1	l				l		 	Analyzed annually ***
Pesticides	varies	 					 		Analyzed annually ***
PCBs (µg/L)	0.5	 					 	 	Analyzed annually ***
TTHMs (μg/L)	100					-			Analyzed annually ***
T T T T T T T T T T T T T T T T T T T	1100	J	L			L	l	<u> </u>	rinaryzeu amidany

Monitor Well Descriptions:

B = background; C = compliance; D = detection /// S = surficial aquifer; I = intermediate aquifer (confined); F = Floridan aquifer

NE = not established

PCBs = polychlorinated biphenyls

NA = not analyzed

TTHMs = total trihalomethanes (sum of bromodichloromethane, dibromochloromethane, bromoform, and chloroform)

NS = not sampled

* = SOP FS 2200 (Ground water sampling)

^{*** -} Organics last analyzed for the sampling event conducted during February 2001

SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

		DATE OF SAMPLING EVENT														· · · · · · · · · · · · · · · · · · ·
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98	02/02/99	04/20/99	07/14/99
MW-1	3.7	3.64	4.27	3.35	66.2	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77	0.0876	4.01	0.456
MW-2	6.52	6.92	6.77	9.72	99.7	7.63	0.541	2.86	7.87	1.13	0.53	0.946	13.1	1.7	2.06	0.973
MW-4	4.06	3.65	2.96	4.08	62	7.45	0.797	1.92	8.63	9.21	20.6	18.5	6.26	21.3	21	18.3
MW-6A	4.35	4.03	3.57	3.64	55.3	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82	4.83	5.97	5.0
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45	1.35	6.8	< 0.02
MW-8	<0.01	0.365	1.16	1.03	14.3	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249	0.0662	2.12	1.65
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398	0.0575	0.527	0.0518

							DAT	E OF SAM
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01
MW-1	1.65	4.54	14.9	9.17	3.61	3.23	3.4	3.2
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5
MW-4	6.87	15.3	11.4	14.6	14.5	10.6	19	15
MW-6A	2.46	6.25	6.06	12.2	6.62	5.23	5.4	NA
MW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6
MW-8	0.548	2.05	2.07	3.76	<0.2	1.64	1.64	1.4
MW-9	<0.28	< 0.028	< 0.2	0.302	< 0.2	< 0.03	0.1	< 0.05

Notes: Results for quarterly sampling events conducted during 1996 not available for review

Nitrate results are reported in milligrams per liter

NA = not analyzed

62-701.510 Water Quality and Leachate Monitoring Requirements.

- (7) Evaluation monitoring, prevention measures and corrective action.
- (a) Evaluation monitoring. If monitoring parameters 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 62-520, F.A.C., the permittee may resample the wells within 30 days after the sampling data is received, to confirm the data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring as follows:
- 1. Routine monitoring of all monitoring wells, surface water monitoring locations and leachate sampling locations shall continue according to the requirements of subsection (6) of this section.
- 2. Within 90 days of initiating evaluation 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 paragraph (8)(d) of this section. Any new parameters detected and confirmed in the affected downgradient wells shall be added to the routine ground water monitoring parameter lists required in subsection (6) of this section for the affected wells.
- 3. Within 90 days of initiating evaluation 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. These wells shall be installed according to the requirements of paragraph (3)(d) of this section, and samples from these wells and the affected detection wells shall be analyzed quarterly for the parameters listed in paragraphs (8)(a) and (d) of this section.
- 4. Within 180 days of initiating evaluation monitoring, the permittee shall submit a contamination evaluation plan to the appropriate Department District Office. This plan shall be designed to delineate the extent and cause of the contamination, in order 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. After the Department and the permittee agree that the plan is so designed, the permittee shall implement this plan and submit a contamination evaluation 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. The owner or operator of a solid waste disposal unit may request a permit modification from the appropriate District Office of the Department to use an alternate monitoring frequency, for repeated sampling during evaluation monitoring. The Department will grant such modification upon a demonstration that the alternate frequency is appropriate based upon site specific lithology of the aquifer and unsaturated zone, hydraulic conductivity of the aquifer and unsaturated zone, ground water flow rates, minimum distance of travel and the fate and transport of parameters detected.

62-701.510 Water Quality and Leachate Monitoring Requirements.

- 6. The owner or operator of a solid waste disposal unit may request a permit modification from the appropriate District Office of the Department to delete specific monitoring parameters or field parameters from evaluation analyses of detection or compliance wells. The Department will grant such modification upon a demonstration that these parameters are not reasonably expected to be in or derived from the waste contained in the unit.
- 7. The permittee shall not discontinue evaluation monitoring, and return to routine monitoring only, until authorized to do so by the Department. The Department shall make this determination based upon the results of the contamination evaluation report and other relevant water quality data.
 - (b) Prevention measures and corrective actions.
- 1. If the contamination evaluation report indicates that water quality standards are likely to be violated outside the zone of discharge, the permittee shall, within 90 days, submit a prevention measures plan to the Department. Upon approval, the permittee shall initiate prevention measures to prevent such violations.
- 2. If any contaminants are detected and confirmed in compliance wells in concentrations which exceed both background levels and Department water quality standards or criteria, or are detected and confirmed in detection wells in concentrations which are above Department water quality minimum criteria, the permittee shall notify the Department within 14 days of this finding and shall initiate corrective actions. Evaluation monitoring shall continue according to the requirements of paragraph (7)(a) of this section.



SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

							DAT	E OF SAM	PLING EV	'ENT	_					
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98	02/02/99	04/20/99	07/14/99
MW-1	3.7	3.64	4.27	3.35		3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77	0.0876	4.01	0.456
MW-2	6.52	6.92	6.77	9.72		7.63	0.541	2.86	7.87	1.13	0.53	0.946	13.1	1.7	2.06	0.973
MW-4	4.06	3.65	2.96	4.08	_62	7.45	0.797	1.92	8.63	9.21	20.6	18.5	6.26	21.3	21	18.3
MW-6A	4.35	4.03	3.57	3.64	<u>55.3</u> _ ;	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82	4.83	5.97	5.0
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45	1.35	6.8	< 0.02
MW-8	< 0.01	0.365	1.16	1.03	14.3	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249	0.0662	2.12	1.65
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398	0.0575	0.527	0.0518

							DAT	E OF SAM	PLING EV	ENT		· · · · · · · · · · · · · · · · · · ·			
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01							
MW-1	1.65	4.54	14.9	9.17	3.61	3.23	3.4	3.2							
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4,5							
MW-4	6.87	15.3	11.4	14.6	14.5	10.6	19	15							
MW-6A	2.46	6.25	6.06	12.2	6.62	5.23	5.4	NA							
MW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6			·				
MW-8	0.548	2.05	2.07	3.76	< 0.2	1.64	1.64	1.4							5 .
MW-9	< 0.28	< 0.028	< 0.2	0.302	< 0.2	< 0.03.	0.1	< 0.05							

Notes:

Results for quarterly sampling events conducted during 1996 not available for review

Nitrate results are reported in milligrams per liter
NA = not analyzed

NATURE SAVER™ FAX MEMO 01616	19 1 Pageo
TO TRICIA SNOWDON	From JOHN MORRIS
Co./Dept.	Co.
Phone #	Phone # I HOPE This IS
Fax# 352-728-2245	Fax# MONE LEGIBLE

P. 1				•	Oct 23 2001	2001 8:30
Telephone Number	Mode	Start	Time	Pages	Time Pages Result	Note
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Summary of Nitrate in Ground Water Samples

4.55													
k Fe						√	DAT	E OF SAM	PLING EV	ENT		\.	
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98
MW-1	3.7	3.64	4.27	3.35	66.2	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77
MW-2	6.52	6.92	6.77	9.72	99.7	7.63	0.541	2.86	7.87	1.13	0.53	0.946	13.1
MW-4	4.06	3.65	2.96	4.08	_62	7.45	0.797	1.92	8.63	9.21	20.6	18.5	6.26
MW-6A	4.35	4.03	3.57	3.64	55.3	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45
MW-8	<0.01	0.365	1.16	1.03	14.3	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398

			<u> </u>				DAT	E OF SAMPLI	NG EVENT
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01	
MW-1	1.65	4.54	14.9	9.17	3.61	3.23	3.4	3.2	
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5	
MW-4	6.87	15.3	11.4	14.6	14.5	10.6	19	15	NATURE SAVER™ FAX MEMO 01616 [5
MW-6A	2.46	6.25	6.06	12.2	6.62	5.23	5.4	NA	TO TRICIA SHOWDON F
MW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6	Co./Dept. eTC
MW-8	0.548	2.05	2.07	3.76	<0.2	1.64	1.64	1.4	Phone # Fax # 352 - 728 - 2245 F
MW-9	< 0.28	< 0.028	< 0.2	0.302	<0.2	< 0.03	0.1	< 0.05	200 200 200

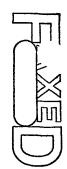
Notes:

Results for quarterly sampling events conducted during 1996 not available for review Nitrate results are reported in milligrams per liter

SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

							DAT	E OF SAM	PLING EV	ENT			.`			
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98	02/02/99	04/20/99	07/14/99
MW-1	3.7	3.64	4.27	3.35	66.2	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77	0.0876	4.01	0.456
MW-2	6.52	6.92	6.77	9.72	99.7	7.63	0.541	2.86	7.87	1.13	0.53	0.946	13:1	1.7	2.06	0.973
MW-4	4.06	3.65	2.96	4.08	62	7.45	0.797	1.92	8.63	9.21	20.6	18.5	6.26	21.3	21	183
MW-6A	4.35	4.03	3.57	3.64	55.3	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82	4.83	5.97	5.0
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45	1.35	6.8	< 0.02
MW-8	< 0.01	0.365	1.16	1.03	14.3	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249	0.0662	2.12	1.65
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398	0.0575	0.527	0.0518



-						,	DAT	TE OF SAM	PLING EV	/ENT	 		
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01					T
MW-1	1.65	4.54	14.9	9.17	3.61	3.23	3.4	3.2	-				
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5					
MW-4	6.87	15:3	11.4	14.6	14.5	10:6	19	15					
MW-6A	2.46	6.25	6.06	12:2	6.62	5.23	5.4	-NA					
AW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6					
MW-8	0.548	2.05	2.07	3.76	<0.2	1.64	1.64	1.4					
MW-9	< 0.28	< 0.028	< 0.2	.0.302	< 0.2	< 0.03	0.1	< 0.05					

Notes:

Results for quarterly sampling events conducted during 1996 not available for review Nitrate results are reported in milligrams per liter

NATURE SAVER™ FAX MEMO 01616	Date 10 201 #of pages > 1
TO TRICIA SNOWDON	From JOHN MORRES
Co./Dept. CTL	Co.
Phone #	Phone # AS PROMISED
Fax# 352-728-2245	Fax #



WASTE MGT TAMPA SWD

x:8137446125

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SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

							DAT	E OF SAM	IPLING EV	ENT			
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98
MW-1	3.7	3.64	4.27	3.35	66.2	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77
MW-2	6.52	6.92	6.77	9.72	997] [0.541	2.86	7.87	1.13	0.53	0.946	11341
MW-4	4.06	3.65	2.96	4.08	162	7.45	0.797	1.92	8.63	9.21	20.6	18520	6.26
MW-6A	4.35	4.03	3.57	3.64	55.35	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45
MW-8	< 0.01	0.365	1.16	1.03	148	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398

							DAT	E OF SAM	PLING EVE	NT
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01		
MW-1	1.65	4.54	100	9.17	3.61	3.23	3.4	3.2		
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5		
MW-4	6.87	158	11.4	#14.6¶#	14.5	10.6	19: 15	15 15 (c. 1		NATION CALLED WERN AREAS OF CALL
MW-6A	2.46	6.25	6.06	12.2	6.62	5.23	5.4	L NA LL		NATURE SAVER™ FAX MEMO 01616
MW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6		Co./Dept. CTC
MW-8	0.548	2.05	2.07	3.76	<0.2	1.64	1.64	1.4	·	Phone # Fax # 352 - 728 - 2245
MW-9	<0.28	< 0.028	< 0.2	0.302	<0.2	< 0.03	0.1	< 0.05		972 100 0010

Notes:

Results for quarterly sampling events conducted during 1996 not available for review

Nitrate results are reported in milligrams per liter

SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

							DAT	E OF SAM	PLING EV	ENT						
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98	02/02/99	04/20/99	07/14/99
MW-1	3.7	3.64	4.27	3.35	66.2	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77	0.0876	4.01	0.456
MW-2	6.52	6.92	6.77	9.72	99.7	7.63	0.541	2.86	7.87	1.13	0.53	0.946	16,1	1.7	2.06	0.973
MW-4	4.06	3.65	2.96	4.08	2	7.45	0.797	1.92	8.63	9.21	20.6	18.5	6.26	21.3	21	18.3
MW-6A	4.35	4.03	3.57	3.64	55.3	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82	4.83	5.97	5.0
MW-7	4.72	4.36	4.58	3.76	81.6	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45	1.35	6.8	< 0.02
MW-8	< 0.01	0.365	1.16	1.03	143	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249	0.0662	2.12	1.65
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398	0.0575	0.527	0.0518

							DAT	E OF SAM	PLING EV	/ENT		 	_		
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01							
MW-1	1.65	4.54	14.9	9.17	3.61	3.23	3.4	3.2							
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5							
MW-4	6.87	15.3	10.4	14.6	14.5	10:6	19***	15						*	
MW-6A	2.46	6.25	6.06	19:23	6.62	5.23	5.4	NA .							
MW-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6							
MW-8	0.548	2.05	2.07	3.76	< 0.2	1.64	1.64	1.4						·	
MW-9	< 0.28	< 0.028	< 0.2	0.302	< 0.2	< 0.03	0.1	< 0.05			. <u> </u>				

Notes:

Results for quarterly sampling events conducted during 1996 not available for review

Nitrate results are reported in milligrams per liter

X Conf. Repor

17:49 Note 2001 22 Result × Pages 2,40" 22,17:46 Start S-FINE Mode Telephone Number

SUMTER COUNTY CLASS I LANDFILL -- LONG TERM CARE MONITORING DATA

Summary of Nitrate in Ground Water Samples

			•				DAT	E OF SAM	IPLING EV	ENT			
WELL NO.	9/14/94	11/01/94	2/13/95	04/19/95	07/19/95	01/22/97	04/22/97	7/15/97	10/21/97	01/13/98	04/29/98	07/14/98	10/13/98
MW-1	3.7	3.64	4.27	3,35	(86.j) ·	3.6	0.156	1.01	3.26	2.32	2.65	2.8	2.77
MW-2	6.52	6.92	6.77	9.72	727	7.63	0.541	2.86	7.87	1.13	0.53	0.946	00.7
MW-4	4.06	3.65	2.96	4.08	- E	7.45	0.797	1.92	8.63	9.21	Øi-∆	18 to	6.26
MW-6A	4.35	4.03	3.57	3.64	15.0	5.82	0.526	2.31	5.53	4.69	5.43	5.22	6.82
MW-7	4.72	4.36	4.58	3.76	W #	5.12	0.431	2.17	5.35	4.14	5.59	5.63	2.45
MW-8	< 0.01	0.365	1.16	1.03	10.5	4.84	1.7	0.657	2.06	1.72	2.26	1.66	0.249
MW-9	< 0.01	< 0.01	1.12	0.0361	0.0855	0.359	< 0.01	< 0.01	< 0.01	0.107	0.207	0.121	0.398

							DAT	E OF SAM	PLING EVEN	r
WELL NO.	10/19/99	02/07/00	4/26/00	07/19/00	10/17/00	01/18/01	04/12/01	7/24/01		
MW-1	1.65	4.54	. , . +2	9.17	3.61	3.23	3.4	3.2		
MW-2	1.92	6.84	5.3	7.6	4.66	3.73	5.1	4.5		
∕IW-4	6.87		mc#	16 Jr	ins :	ánā	10)	TE .		NATURE SAVER™ FAX MEMO OF TRICIA SNOW DO
MW-6A	2.46	6.25	6.06	顶滚	6.62	5.23	5.4	200		Co/Dept. CTL
1W-7	2.48	5.89	5.82	9.5	5.87	4.33	4.4	3.6		Phone # Fax # 352 - 728 - 22
1W-8	0.548	2.05	2.07	3.76	<0.2	1.64	1.64	1.4		1 252 100 20
/W-9	< 0.28	< 0.028	< 0.2	0.302	<0.2	< 0.03	0.1	< 0.05		

Notes:

Results for quarterly sampling events conducted during 1996 not available for review

Nitrate results are reported in milligrams per liter

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

JRM -JRM 1/23/07

CONVERSATION RECORD

Date 1/17/01	Subject <u>Sumter County</u> Groundwate
Time 10 AM	Permit No. 22926 - 602 - SF
	County Sum fer
Ms. Patricia Snowden	Telephone No. 352 - 787 - 1268
Representing <u>CTL</u>	
Phoned Me [] Was Called	[] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conversation/	
Summary of Conversation/Meeting Tr	ish has just taken over from old
COMOMONU	
- MW-7 need new	pgs with correct date data sheet for 1/19/00
- will send & field	I data sheet for 1/19/00
= will copy pgs to	om Flowers with signatures
all will be sent	t certified
- Flowers to be	contacted about testing for
extended paran 4 is already	neters latera as quarter
4 is already	in the mail
/	
	Cakel
	gnature July July
sheet, if necessary) Tit	le EST BPS
PA-01 1/96	

pap

Memorandum

Florida Department of Environmental Protection

	PERMIT COVER MEMO
	TO: x RICK GARRITY, Director of District Management
	FROM/THROUGH:
	William Kutash Robert Butera, P.E. 5/27, Allison Amram, P.G. 5/27, GEOLOGIST ENVIRONMENTAL ADMINISTRATOR SUPERVISOR GEOLOGIST
	DATE: May 27, 1998
	FILE NAME: Sumter County Landfill LTC PERMIT #:22926-002-SF COUNTY: Sumter
	TYPE OF PERMIT ACTION: X ISSUE DENY MODIFY TRANSFER OWNER NOD
	PUBLIC NOTICEINTENT TO ISSUE
	PUBLIC NOTICE PERIOD CLOSED? PETITION FILED?
,	PERMIT SUMMARY: This permit is to continue monitoring and maintenance of the closed Class I landfill at the Sumter County Solid Waste Management Facility.
	PROFESSIONAL RECOMMENDATION: X APPROVE DENY
	EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department Rules.
	Application received - August 4, 1997. Application complete - March 5, 1998. Department processing time - 199 days (to 5-27-98). Total processing time - 297 days (to 5-27-98).
	DAY 90/30 FOR THIS ACTION IS: ASAP - by MAY 29, 1998.

(Day 90=6-3-98)

■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we card try you. ■ Attach this form to the front of the mailpiece, or on the back if spapermit. ■ Write "Return Receipt Requested" on the mailpiece below the article The Return Receipt will show to whom the article was delivered a delivered.	ce does not	following services (for an extra fee): 1.	Receipt Service.
3. Article Addressed to: SUMTER COUNTY PUBLIC WORKS MR. GARRY BREEDEN, DIRECTOR 319 E. ANDERSON AVENUE BUSHNELL, FL 33513 5. Received By: (Print Name) 6. Signatural (Addressed or Age 1)	7. Date of De	Type Insured Insure	Thank you for using Return Rec
X Jeny floral	02595-97-B-0179	Domestic Return Receipt	

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Lawton Chiles

Department of Environmental Protection

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell Secretary

Governor
CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 29, 1998

NOTICE OF PERMIT

Sumter County Public Works Department Mr. Garry Breeden, Director 319 E. Anderson Ave. Bushnell, Florida 33513

RE: Permit No. 22926-002-SF, Sumter County
Sumter County Closed Class I Landfill - Long-Term Care

Dear Mr. Breeden:

Attached is permit number 22926-002-SF, issued pursuant to Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below 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. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall 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;
- (b) A statement of how and when each petitioner received notice of 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 Petitioner, if any;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends warrant reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or 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 transfer of permit will not be effective until further Order of the Department.

When the Order 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, 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

Richard D. Garrity, Ph.D.

Director of District Management

Southwest District

RDG/sjp

Copies w/Attachment to:

Sumter County Board of County Commissioners
David Springstead, P.E., Springstead Engineering, 727 S. 14th St.,

Leesburg, Fl. 34748

Terry Hurst, Sumter County, PO Box 1066, Bushnell, Fl. 33513

Mitch Kessler, TIA, 10012 N. Dale Mabry, Ste. 223, Tampa, Fl. 33618

Douglas Beason, OGC Tallahassee

Fred Wick, FDEP Tallahassee

Robert Butera, P.E., FDEP Tampa

Danielle Nichols, FDEP Tampa (Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on May 29, 1998 to the listed persons. (date stamp)

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

Clerk

)até



Department of Environmental Protection

Lawton Chiles Governor Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE

Sumter County Dept. of Public Works, Garry Breeden, Director 319 East Anderson Avenue Bushnell, Florida 33513

PERMIT/CERTIFICATION

GMS ID No.: 4060C00092

Permit No.: 22926-002-SF

Date of Issue: 05/29/1998

Expiration Date: 05/01/2003

County: Sumter Lat/Long: 28°44'30"N 82°05'20"W

Sec/Town/Rge: 15 & 22/20S/22E

Project: Sumter County Class I Landfill,

Long-Term Care

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-25, 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 department and made a part hereof and specifically described as follows:

To conduct **long-term care** monitoring and maintenance of a closed Class I Landfill (approximately 30 acres), referred to as the Sumter County Class I Landfill, subject to the long-term care specific conditions attached. The site is located 1 mile east of Interstate 75 along the south side of C.R. 470, north of Bushnell in Sumter County, Florida. Long-term care for this site began May 24, 1990. Closure was conducted in accordance with F.A.C. Chapter 17-701.070 (dated August 2, 1989) which requires 20 years of long-term care for the landfill from May 24, 1990. A reduced long-term care period may be available if certain criteria (described in F.A.C. Chapter 17-701.075) are met.

This Permit Replaces Permit No. SF60-211255.

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 not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

PERMIT NO.: 22926-002-SF

PERMITTEE: Sumter County Jublic Works Dept. Mr. Garry Breeden, Director

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 403-859 through 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 personal 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: Sumter County ablic Works Dept. ERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

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

GENERAL CONDITIONS:

- 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.
 - (c) Records of monitoring information shall include:
 - 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.

Mr. Garry Breeden, Director

GENERAL CONDITIONS:

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.
 - (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.

PERMIT NO.: 22926-002-SF

PERMITTEE: Sumter County Jublic Works Dept. Mr. Garry Breeden, Director

GENERAL CONDITIONS:

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.
- (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.

PERMITTEE: Sumter County iblic Works Dept. ERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

1. **Facility Designation.** This landfill site shall be classified as a Class I closed landfill and shall be monitored and maintained in accordance with this permit and all applicable requirements of Chapters, 62-4, 62-330, 62-520, 62-522 and 62-701, Florida Administrative Code.

- 2. **Permit Application Documentation.** This permit is issued in response to the following documents submitted for the Sumter County Class I Landfill, Inc. for the long-term care of the 30 acre closed landfill:
 - DEP Application Form 62-701.900(1) and permit renewal report received August 4, 1997;
 - Ground Water Monitoring Plan Evaluation, submitted by Springstead Engineering, Inc., dated August 1, 1997;
 - Responses submitted by Springstead Engineering, Inc., dated October 2, 1997; November 25, 1997; January 23, 1998; and March 3, 1998;
 - Methane Gas Migration Survey submitted by Springstead Engineering, Inc., dated December 18, 1997;
 - · And in accordance with all applicable requirements of Department rules.
- 3. **Permit Modifications.** 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.
- 4. **Control of Access.** Access to, and use of, the facility shall be controlled as required by F.A.C. Rule 62-701.600(5)(i).
- 5. **Odor Complaints.** The operating authority shall be responsible for the control of odors and fugitive particulates arising from this facility. Such control shall minimize the creation of these nuisance conditions on adjoining property. Complaints received from the general public and confirmed by DEP personnel upon site inspection shall constitute a nuisance condition and the permittee must take immediate corrective action to abate the nuisance.

PERMITTEE: Sumter County Public Works Dept. PERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

6. **Stormwater System Management.** The landfill shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running onto waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with F.A.C. Rule 62-701.500(10) to meet applicable standards of F.A.C. Chapters 62-3, 62-302 and 62-330.

7. Facility Maintenance and Repair.

- a. The site shall be properly maintained including maintenance of stormwater systems, cover systems, and the prevention of erosion and ponded water on closed disposal areas.
- b. In the event of damage to any portion of the landfill site facilities, failure of any portion of the landfill systems, fire, or explosion, the permittee shall **immediately (within 24 hours)** notify the Department 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.
- c. In the event that any portion of the groundwater monitoring system is damaged, remedial measures shall be completed within sixty (60) days of the written notification specified in Specific Condition #7.b. above, unless otherwise approved by the Department.
- d. In the event that the stormwater system is damaged or is not operating effectively, corrective actions shall be implemented within **thirty (30) days** of the written notification specified in Specific Condition #7.b. above, unless otherwise approved by the Department.
- e. The permittee shall inspect the previously closed portions of the landfill, at a minimum, quarterly. In the event that the asphalt final cover is cracked, gouged, or otherwise damaged such that stormwater may infiltrate into the landfill below, the Department shall be notified as required by Specific Condition #7.b., above, and the area shall be repaired within **two weeks** of the Department's approval of the corrective action plan.
- f. Closed areas which are not covered by asphalt shall be inspected for erosion within 48 hours of each significant rainfall event. Areas with significant erosion shall be repaired within two weeks of discovery.

PERMITTEE: Sumter Count: ablic Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

- 8. Financial Assurance/Cost Estimates. The permittee shall provide financial assurance for this landfill site in accordance with F.A.C. Rule 17-701.076 (effective 11-28-89). As required by Rule 17-701.076(4)(a), F.A.C., all costs for long-term care shall be adjusted and submitted annually by October 1st of 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 the DEP District Office and to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.
- 9. Water Quality Requirements. Landfills shall be designed, constructed, operated, maintained, closed, and monitored throughout its design period (which includes long-term care) to control the movement of waste and waste constituents into the environment so that ground water and surface water quality standards and criteria of F.A.C. Chapters 62-4, 62-302 and 62-520, will not be violated beyond the zone of discharge specified for the landfill.
- 10. 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. Chapter 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 whenever the sampling or laboratory agent is changed. Documentation shall include the completed signature page and the Table of Contents of the approved plan.

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. Rule 62-4.246 and Chapter 62-160. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

PERMITTEE: Sumter County Public Works Dept. PERMIT NO.: 22926-002-SF Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

11. Zone of Discharge.

- a. The Zone of Discharge for this site shall extend horizontally 100 feet from the Class I landfill cell edge or to the property boundary, whichever is less, and shall extend vertically through the surficial aquifer to the bottom of the first confining unit.
- **b.** The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground waters will not be exceeded at the boundary of the Zone of Discharge according to F.A.C. Rules 62-520.400 and .420.
- 12. **Ground Water Monitoring Well Locations.** The ground water monitoring wells shall be located as per the attached Figure prepared by Springstead Engineering, Inc. titled "Sumter County Solid Waste Management Facility, Groundwater Elevations 7/9/96". This map was submitted with the November 25, 1997 permit response. These wells are as follows:

Well No.	Aquifer	Designation	Location
MW-1	Floridan	Detection	See attached figure
MW-2	Floridan	Detection	W
MW-4	Floridan	Detection	"
MW-6A	Floridan	Background	W
MW-7	Floridan	Detection	" .
8-WM	Floridan	Detection	W
MW-9	Floridan	Detection	w

All wells are to be clearly labeled and easily visible at all times. Monitoring wells should be kept locked at all times to prevent unauthorized access.

ERMIT NO.: 22926-002-SF

PERMITTEE: Sumter County ablic Works Dept.
Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

13. Ground Water Sampling.

a. Ground water monitoring wells listed in Specific Condition No. 12 shall be sampled **quarterly** for the following parameters:

Field Parameters	Laboratory Para	ameters
Static water levels	Aluminum	Thallium
before purging	Arsenic	Silver
Specific Conductivity	Barium	Sodium
рН	Cadmium	Copper
Turbidity	Chromium	Iron
Temperature	Manganese	Zinc
Colors, sheens	Lead	Mercury
	Selenium	Antimony
	Beryllium	Nickel
	Selenium	Chloride
	Fluoride	Cyanide
	Nitrate	Sulfate
	TDS	Nitrite
	Foaming Agents	Ammonium
•	Gross Alpha	
	Radium-226 + Ra	adium-228

- **b.** Annually, the ground water monitoring wells listed in Specific Condition No. 12 shall be sampled for the parameters listed in Specific Condition No. 13a, as well as the Volatile Organic Compounds, Pesticides, PCB's and Trihalomethanes listed in the Primary Drinking Water Standards listed in F.A.C. Chapter 62-550.310 (Rule dated September 7, 1994).
- c. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must meet, or be more stringent than that parameter's Maximum Contaminant Level in order to demonstrate compliance with ground water standards.
- 14. **Ground Water Monitoring Well Construction.** Prior to construction of any new wells, the permittee shall request and receive Department approval of a minor permit modification. The following information is required to be submitted within 90 days of new well installation, or as stated below:

PERMIT NO.: 22926-002-SF

PERMITTEE: Sumter County Public Works Dept. Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

(Specific Condition #14, cont'd)

a. Documentation of the following for each well installed:

Well Identification
Aquifer monitored
Screen type and slot size
Screen length
Screen diameter
Elevation at top of casing
Elevation at ground surface

Boring (Lithology) Log
Total depth of well
Casing diameter
Casing type and length
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. Rule 62-550.310 and .320.
- c. A surveyed drawing shall be submitted, 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 survey shall be conducted by a Florida Registered Surveyor.
- 15. Well Abandonment. All wells not a part of the approved Water Quality Monitoring Plan shall be plugged and abandoned in accordance with F.A.C. Rule 62-532.440, and the Southwest Florida Water Management District. The permittee shall submit a written report to the Department within 90 days of well abandonment documenting verification of the well abandonment. A written request for exemption to the abandonment of a well must be submitted to the FDEP's Solid Waste Section for approval.
- 16. Verification/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 within receipt of the laboratory data 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 ground water conditions at the facility, and assessment monitoring/corrective action may be required.

PERMITTEE: Sumter Count_ ublic Works Dept. ERMIT NO.: 22926-002-SF

Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

17. Water Quality Reporting Requirements. All ground water quality monitoring shall be reported on the Department Form 62-522.900(2), Ground Water Monitoring Report (attached). The permittee shall submit to the Department the results of the water quality analysis required by Specific Condition 13.a by January 15th, April 15th, July 15th and October 15th of each year. Results of the water quality analysis required by Specific Condition 13.b shall be submitted annually by January 15. A ground water flow contour map representing conditions at the time of ground water sampling shall be submitted with each set of analytical results.

- 18. Gas Migration Monitoring. Gas migration monitoring shall be conducted annually to ensure that gas concentrations remain below 25% of the Lower Explosive Limit (LEL) in all enclosed structures at and adjacent to the site, and below 100% of the LEL at the property boundary. Results of the gas monitoring shall be submitted annually by December 15th to the addresses listed in Specific Condition No. 19. Monitoring points M-1 through M-29 (located on the attached aerial photograph from Central Testing Laboratory), as well as all enclosed site structures shall be reported.
- 19. Report Submittals. All gas and water quality monitoring reports for compliance with this permit shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318; and also to: Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS 4565, Tallahassee, Florida 32399-2400.
- 20. Evaluation of Water Quality Monitoring. Prior to one hundred and eighty (180) days before permit expiration an evaluation of the ground water monitoring plan shall be submitted. As part of this evaluation, the ground water monitoring well sampling results required by Specific Condition No. 13.b shall be included. The evaluation shall include ground water flow conditions, trend review of indicator water quality parameters, and other pertinent data. The evaluation shall propose a monitoring plan, for the next five year period. Any ground water contamination that may exist, shall be addressed as part of a ground water investigation for the landfill assessment.
- 21. **Permit Renewal Requirements.** The permittee shall apply for permit renewal no later than **one hundred and eighty (180) days** before the expiration of this Department permit. The permittee shall apply for permit renewal on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.

PERMITTEE: Sumter County Jublic Works Dept.

ZERMIT NO.: 22926-002-SF

Mr. Garry Breeden, Director

SPECIFIC CONDITIONS:

22. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications, permit modifications 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.

- 23. **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.
- 24. **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 any conditions and deadlines.

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D.

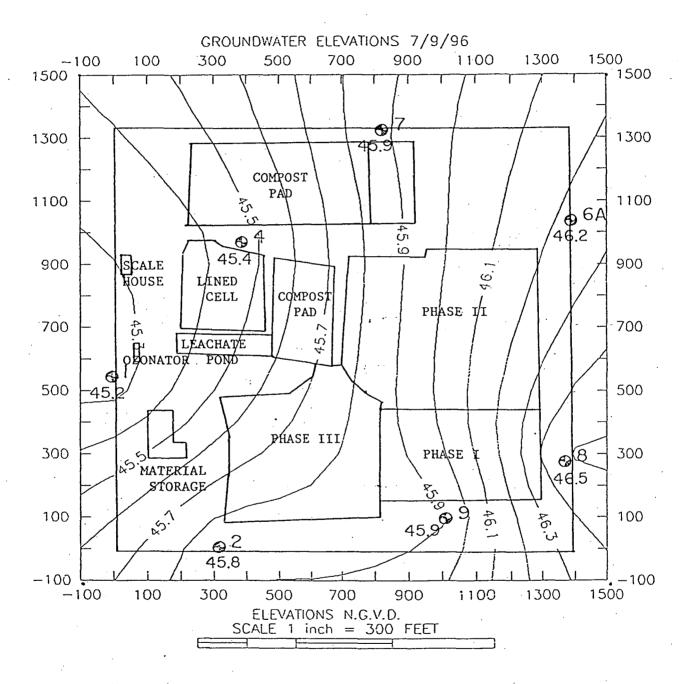
Director of District Management

Southwest District

ATTACHMENT 1

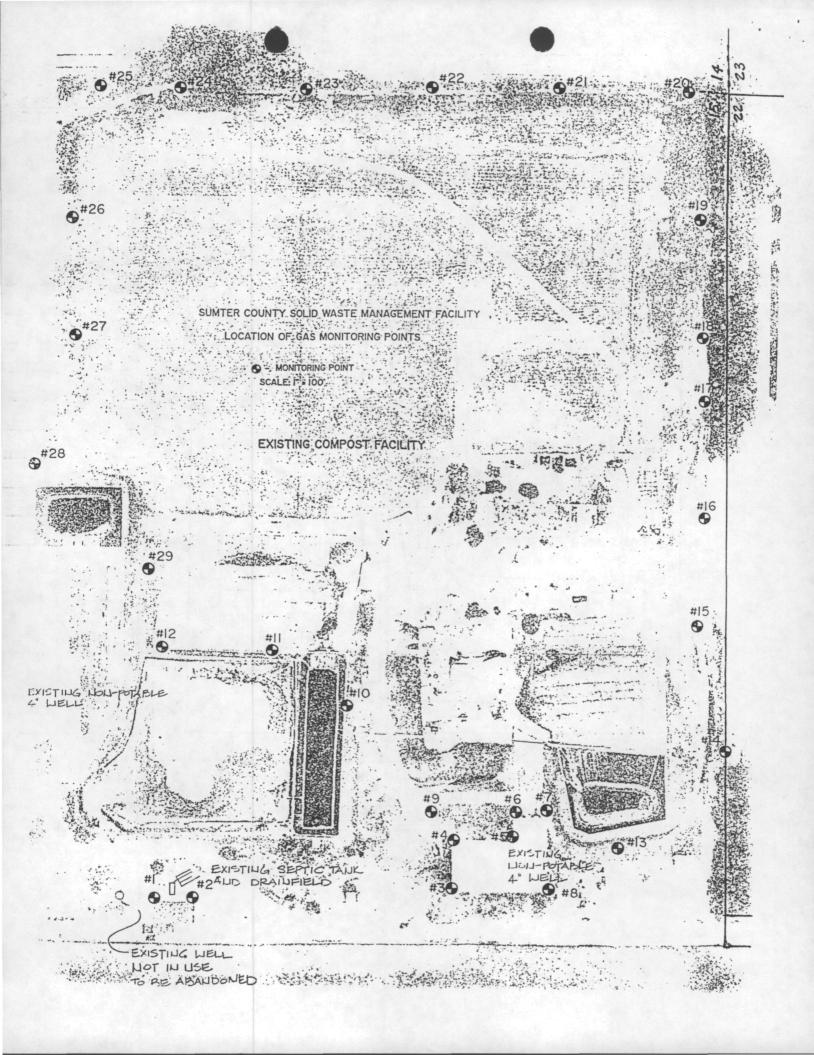
SPECIFIC CONDITION	SUBMITTAL DUE DATE	REQUIRED ITEM
7.	Within 24 hours, Within 7 days, of occurrence	Notification of failure of systems Written notification & description of corrective actions
8.	Annually, by October 1st	Financial Assurance Cost Estimates
8.	Annually	Financial Assurance Proof of Funding
13a.	Quarterly	Sample wells
13b.	Annually	Sample wells for expanded parameter list
17.	January 15th, April 15th, July 15th and October 15th	Water Quality Sampling report and water table contour map
17.	Annually, by January 15th	Results of expanded ground water sampling parameters (#13b)
18.	Annually, by December 15th	Gas Migration Report
20.	180 days prior to permit expiration (November 2, 2002)	Evaluation of Water Quality Monitoring
21.	180 days prior to permit expiration (November 2, 2002)	Apply for permit renewal

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY



Carried .

Secretal,



DEP Form # 62-622.900(2)	_
Form Title <u>CROUND WATER MONITORING</u> REPORT	
Effective Date	
DEP Application No	

Florida Department of Environmental Protection

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahasace, Florida 32399-2400

GROUND WATER MONITORING REPORT.

Rule 62-522.600(11)

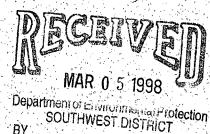
PART I GENERAL INFO	ORMATION			•
(1) Facility Name			· · · · · · · · · · · · · · · · · · ·	•
Address		·		
Telephone Number				
(2) The GMS Identification	ation Number	*		
(3) DEP Permit Numbe	er			
(4) Authorized Repres	entative Name			
Address				
Telephone Number	1			
(5) Type of Discharge				
	ge			
		Certification		
all attachments and that the information is	of law that I have personally examat, based on my inquiry of those strue, accurate, and complete. It yof fine and imprisonment.	individuals immediately re	sponsible for obtaining	the information, I believe
Date:				
		Signature of (Owner or Authorized Re	epresentative
PART II QUALITY AS:	SURANCE REQUIREMENTS			
Sample Organization	Comp QAP #			
Analytical Lab	Comp QAP #/HRS Certification	#		
	*Comp QAP #/HRS Certification			
Lab Name			·	
Address		· · · · · · · · · · · · · · · · · · ·		
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PART III ANALYTICAL RESULTS

Facility GMS	#:			Sampling Date	/Time:			
Test Site ID	#:	 	: <u></u>	Report Period:		(year/quarter)		
						Y/N):	·	
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	er Elevation (NG				() Intermediate) Compliance		
	•	ISL):		·	() Other		
Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units	
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Attach Laboratory Reports





EB - 0001723 AA - 0002820

LB-0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

March 3, 1998

Ms. Allison Amram, P.G. Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619

Response to Request for Additional Information RE:

Sumter County Composting Facility Long Term Care Permit Renewal

Pending Permit No. 22926-002-SF

Dear Ms. Amram:

Please find attached copies of the proof of publication of the Declaration to the Public for the above referenced facility in addition to a copy of the declaration which has been recorded into the public records of Sumter County. The declaration will appear any time a search of title for a property with the legal description the same as the closed landfill is performed. This process has effectively attached this declaration to the deed as required by the rule.

We hope that the information provided meets your needs at the present time. If you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

Springstead Engineering, Inc.

Florida Registration No. 48229

Attachments

Garry Breeden - Sumter County. CC:

Terry Hurst - Sumter County

Denise Reynolds - Sumter County

Randall N. Thornton, Esquire - Sumter County

Proof Of Publication

from the

SUMTER COUNTY TIMES

Bushnell, Sumter County, Florida PUBLISHED WEEKLY

STATE OF FLORIDA COUNTY OF SUMTER

Before the undersigned authority personally appeared_ FELICIA H.SATCHELL

of the Sumter County Times, a newspaper published weekly on Thursday at Bushnell in Sumter County. Florida, that the attached copy of advertisement eing a public notice in the matter of the

2/10 DECLARATION OF LAND FILL SITE

Court, was published in said newspaper in the issues

FEBRAURY 12,1998

Affiant further says that the Sumter County Times is a newspaper published at Bushnell in said Sumter County, Florida, and that the said newspaper has heretofore been continuously published in Sumter County, Florida, each week and has been entered as second class mail matter at the post office in Bushnell in said Sumter County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

The forgoing instrument was acknowledged before

12th_day of FEB 19 98 me this

FELICIA H.SATCHELL

who is personally known to me and who did take an oath.

Notary Public, State of Florida Commission No. CC 669909 POF NO My Commission Exp. 08/16/2001

FEB 25 1998

BOARD COUNTY COMMISSIONERS SUMTER COUNTY BUSHNELL, FLORIDA &

'98 MAR 1 PM 12 06

605-0212-SCT

DECLARATION TO THE PUBLIC

Sumter County, Florida, political subdivision of the State of Florida, does hereby declare that the following described real property is filled with solid waste and has been utilized as a land fill site. Any and all future owners or users of the following described real property should consult with the Florida Department of Environmental Protection prior to planning or initiating any activity involving the disturbance of the land fill cover, monitoring system or other control structures.

Legal Description:

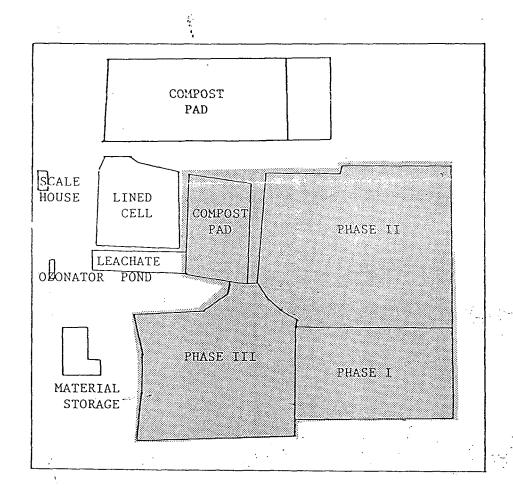
The South 990.00 feet of the SE 1/4 of the SE 1/4 of Section 15, Township 20 South, Range 22 East, Sumter County, Florida.

Map of area filled with solid waste attached hereto.

DATED this 10th day of February, 1998

s- Benny Strickland, Chairman Sumter County, Florida

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Legal Description:

The South 990.00 feet of the SE 1/4 of the SE 1/4 of Section 15, Township 20 South, Range 22 East, Sumter County, Florida.

Map of area filled with solid waste attached hereto.

DATED this 10th day of February

1

Sumter County, Florida

By: Benny Strickland, Chairman

"98 FEB 25 PM 1 45

RECORDED IN
PUBLIC RECORDS
SUMTER COUNTY, FLA

with the

32477 #



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

February 24, 1998

Virginia B. Wetherell Secretary

Mr. Garry Breeden
Director, Sumter County Public Works
319 East Anderson Avenue
Bushnell, Florida 33513

Mr. David W. Springstead, P.E. Springstead Engineering, Inc. 727 S. 14th Street Leesburg, Florida 34748

Subject:

Sumter County Landfill, Long-term Care Permit Renewal Pending Permit No. 22926-002-SF, Sumter County

Dear Mr. Breeden and Mr. Springstead:

This letter is to acknowledge your January 23, 1998 permit renewal application response to the Florida Department of Environmental Protection's (FDEP) December 23, 1997 letter. Your response was received November 26, 1997.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter 403, Florida Statute.

All comments have been adequately addressed except for the following:

O4. The Declaration to the Public must be recorded with the property deed to complete this application. A copy of the wording was received by facsimile on February 19, 1998, but it does not show that it was recorded by the County Land Clerk with the property deed. Please submit a Clerked copy of the Declaration.

"NOTICE! Pursuant to the provisions of Section 120.60 F.S., if the FDEP does not receive a complete response to this request for information within 30 days of the receipt of this letter, the FDEP may issue a final order denying your application. Your need to **respond within 30 days** after receipt of this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 days to develop, you should develop a specific time table for the submission of the requested information for FDEP review and consideration. Failure to comply with a time table accepted by the FDEP may be grounds for the FDEP to issue a Final Order of Denial for lack of a timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available."

If there are points which must be discussed and resolved, please contact me at 813/744-6100, ext. 336.

Sincerely,

CC:

Allison Amsam Allison Amram, P.G.

Solid Waste Section

Terry Hurst, Sumter County Composting, Processing & Recycling Facility, 835

CR 529, Sumterville, FL 33585 (w/ attachment)

Robert Butera, P.E., FDEP Susan Pelz, P.E., FDEP

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

DECLARATION TO THE PUBLIC

Sumter County, Florida, political subdivision of the State of Florida, does hereby declare that the following described real property is filled with solid waste and has been utilized as a land fill site. Any and all future owners or users of the following described real property should consult with the Florida Department of Environmental Protection prior to planning or initiating any activity involving the disturbance of the land fill cover, monitoring system or other control structures.

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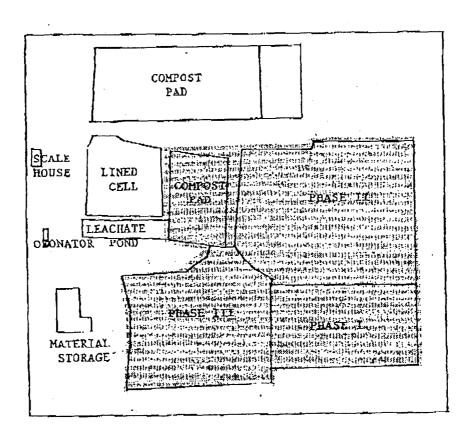
Map of area filled with solid waste attached hereto.

DATED this 10th day of February , 1998

Summer County, Florida
By: Renny Strickland, Chairman

Pullisi : 7el. 12, 1958

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From JAN
Co.
Phone #
Fax *



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/19/98 Subject Sumter LTC
Time 3/15 Permit No
M. David Spr/1/95lead Telephone No. 352/787-1414
Representing Springstead Engineering
[] Phoned Me [] Was Called [] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conversation/Meeting
Summary of Conversation/Meeting
Rid fax w Declaration to the Public - it looks like a publication for a newspaper - not a recorded property deed
it looks like a publication for a
newsnasen - not a recorded property
deed 1
2/20 - The got this notice from the Co. clert -
2/20 - The got this notice from the Co. clerk it was recorded in the public record (also
published in a newspaper) but his not sure
published in a newspaper) but he's not sure if it is w/ the property deed. The will check & call me back.
& call me back.
2/24 - David's out til this atternoon - left
message that I will be sending an
incompleteness letter out this morphine.
(continue on another Signature 44mnam/
sheet, if necessary) Title
PA-01 1/96

pap



EB - 0001723 AA - 0002820 LB - 0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

FACSIMILE TRANSMITTAL SHEET

DATF:	2/19/98	
TO:	Ausson America	_
COMPANY:	FOEP	_
PHONE NO.:	·	
FAX NO.:	813 - 744 - 6125	
FROM:	David W. Springstead, P.E.	
COMPANY:	Springstead Engineering, Inc.	
PHONE NO.:	(352) 787-1414	
FAX NO.:	(352) 787-7221	
NO. OF PAGES:		
	DRIGIMA TO BE SENT BY MAIL	, hear can
	IF YOU HAVE ANY OULSTONS.	<u> </u>
		AANCS
		DAVID.
If you experience	any problems with this fax, contact Jey at (35)	2) 787-1414.
(SELFAX)		

DECLARATION TO THE PUBLIC

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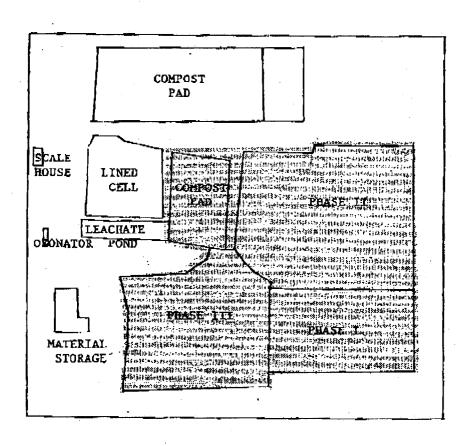
Map of area filled with solid waste attached hereto.

DATED this 10th day of February . 1998

Sunter County, Florida By: Renny Strickland, Chairman

Pullist : 7th. 12, 1998

osi-H" brand fax tran	smittal memo 7671 x of pages > 2
	From JAN
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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2/17/98	Subject <u>LTC permit renewal</u>
Time $\frac{3.10}{}$	Permit No.
	County Sumle
M David Springstead	Telephone No. 352/787-1414
Representing <u>Sammatead</u>	Engineerin
[] Phoned Me [] Was Call	led [] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Conversa	tion/Meeting
Summary of Conversation/Meeting	
- Application for i	enewal of LTC permit is
complete except 1	for the Declaration to the Public.
- Paperwork has b	een sent to the County
Attorney to sec	cord on the property Ideed-
he will see the	attn'y foright x rall me
tomorrow withe	status.
He has a faxed	copy of the Declaration-
it has been.	filed. He will fax it to
me + mail	me good capy when he
gets it. This	will make the application
complete!!	
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(continue on another sheet, if necessary)	Signature 44man
,	Title $PG/$
PA-01	
1/96	

pap

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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SOUTHWEST DISTRICT

CONVERSATION RECORD

Date	Subject Closed LF inspection
Time	Permit No.
. Terry Hand	County Sunter
M. Garry Breedon	Telephone No. $352/793-3368$
Representing <u>Sumle</u>	n Ca
[] Phoned Me [] W	as Called [] Scheduled Meeting [] Unscheduled Meeting
Other Individuals Involved in Co	nversation/Meeting
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Summary of Conversation/Meeting	ng
sity inspection	n done 1/15/95
spen - don't	n done 1/15/95 need to schedule
- in sernot renew	al-FOEP sent /PR 12/23/97 (gas mon, rcd.
	0,19 allthe 21 a
- waste types S	tored on pad - quant, C+D, bulky item
- check asphalt	fored on pad - quant, C+D, bulky items! pad for ponding - showing waste TYPE from littus Recyclins, / ~
- disposal receipts	: showing want TYPE from litrus Recycling, 10
- photos of New	bldg (should not be op, there yet)
Timancial 6	E I
Q2 197 loggy	Q3+4 rc'd
(continue on another	Signature Affragan
sheet, if necessary)	Title
PA-01	

PA-01 1/96 pap Date: "

9.1.1998 18:44:09

From:

Robert Butera TPA

Subject:

Re: Northern Closed landfill inspections

To:

Allison Amram TPA Susan Pelz TPA

CC:

Danielle Nichols TPA

Allison - Check with Susan or RCRA as to the location we're told that Magnum Oil operates a bulking/consolidating facility in Sumter County. It appears this is a similar Material Processing Facility as Florida Waste Environmental Services and/or HOWCO. Just thought if it was located close to I-75 or near Sumter County it would save Susan a trip.

At Sumter I would appreciate you requesting that Terry Hurst provide you with disposal receipts identifying the type of waste he has received from Citrus Recycling Inc. recently. Check with Danielle as she has spoken to Terry on this subject.

Neither of the above are urgent. Just thought they may not impact the time allocated for your inspections. Thanks for always keeping me up to date.

Sunter - Should have new blog almost done but Not in op. Vysor) Photos of New 6/dg

) RCRA going coon

Date: ` From:

12.1.1998 15:14:55 Danielle Nichols TPA

Subject: To: Re: Northern Closed landfill inspections

Allison Amram TPA

A-

Sumter did some work on their pad--it has/had settled and there was ponding. They filled in some areas with asphalt--see what you think. Also just let me know what they've got up there (on pad) as far as C&D and other wastes. If you could just note the quantity of the oversized bulky waste-TV's, couches, mattresses, etc. and see if there's any Class I garbage up there. Thanks!

Citrus Recycling-bring old news paper for free
- Sunter removes residual plastic, trash-sells newspaper.
- Cardboard only loads (290) the MRF-better SiNCE varient rejected loads - ran 1 The tips For free old blog - dry starage for recyclables compost op. since June finishing bly for what they do
- foundation not pound 2/23 - Stell bldg parts delivered - hope to ce complete 4/1/98



3804 Coconut Palm Drive

Department of Environmental Protection

TO:

Consulting Engineers - Architects - Planners - Surveyors

727 South 14th Street

Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

SOUTHWEST DISTRICT

1ampa, FL 33019	Date: January 23, 1998 Job No.: 921100.008	
	Attention: Ms Allison Amram, P.G.	
	RE: Long-term Care Permit Renewal (RAI)	
GENTLEMEN:	<u></u>	
WE ARE SENDING YOU	xx Enclosed _ under separate cover via the following items:	
_ Shop Drawings	_ Prints _ Plans _ Samples _ Specifications _ Facsimile	
_ Copy of Letter	_ Change Order	
Copies Date	No. Description	
3	REQUEST FOR ADDITIONAL INFORMATION SUMTER COUNTY LANDFILL, LONG-TERM CARE PERMIT RENEWAL PENDING PERMIT NO. 22926-002-SF, SUMTER COUNTY	
THESE ARE TRANSMITTED	as checked below:	
_ For Approval	_ Approved as submitted _ Approved for payment	
_ For your use Approved as noted Resubmit copies for approval		
_ As Requested _ Returned for corrections		
_ For Review and Con	mment	
_ Material and/or prin	ats returned after loan to us	
REMARKS COPY TO: Garry Breeden-Sumter County	SIGNED: David W. Springstead, P.E.	

Denise Reynolds-Sumter County Terry Hurst-Sumter County

bound report attached



Department of Environmental Protection

Sunter LTC permit File

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

December 23, 1997

Mr. Garry Breeden Director, Sumter County Public Works 319 East Anderson Avenue Bushnell, Florida 33513

Mr. David W. Springstead, P.E. Springstead Engineering, Inc. 727 S. 14th Street Leesburg, Florida 34748

Subject:

Sumter County Landfill, Long-term Care Permit Renewal

Pending Permit No. 22926-002-SF, Sumter County

Dear Mr. Breeden and Mr. Springstead:

This letter is to acknowledge your November 25, 1997 permit renewal application response to the Florida Department of Environmental Protection's (FDEP) October 29, 1997 letter. Your response was received November 26, 1997.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter 403, Florida Statute.

The following information is needed in support of your application; comment numbers correspond to those in the FDEP's October 29, 1997 letter.

1. N3e. This comment has been adequately addressed.

Appendix B.

- 1. The November 25, 1997 submittal states, "The general overall condition of the asphalt cover is good. The overall drainage design for the landfill, in general, is effective and has operated as designed." The purpose of final cover is to minimize infiltration and subsequent leachate generation. During recent inspections, the Department has observed several areas with significant cracks in the asphalt and settlement/subsidence of the underlying landfill. This settlement has resulted in poor drainage in some areas. The Department does not believe that the cover was designed to have cracks which may allow infiltration of liquids, or have subsidence/settlement which may cause ponded water on the asphalt.
 - a. Please provide the <u>basis</u> for the conclusions that the "asphalt cover is in good condition" and "the drainage design of the landfill has been effective..." if significant cracks, subsidence, and ponded water have been observed in the asphalt covered areas.
 - b. Please provide specific maintenance procedures (including timeframes for implementation) for ensuring that the asphalt cover is intact and functioning properly. An

"annual visual observation" of the pad does not seem to be sufficient to ensure that the landfill cap is adequately maintained and functioning.

- c. When the asphalt repairs are completed for the entire landfill area, please notify the Department to arrange a site inspection. The Department may not consider the pending permit application to be complete until the repairs have been completed and approved by the Department.
- 2. This comment has been adequately addressed.
- 3. FAC 17-701.073(6)(c)3. (effective 7-1-85) requires that the closure (or long-term care) plan include provisions for the filling of "areas of subsidence or other depressions [and] general maintenance of the facility...." The November 25, 1997 submittal did not include procedures for maintaining the non-asphalt-covered areas of the landfill.
 - a. Please provide procedures for the filling of low areas and general maintenance of the facility. These procedures should include, but not be limited to, the type of maintenance activity (e.g. mowing, regrading, re-paving, monitoring activities, etc.) and minimum frequency for the activity. Please provide these procedures for maintaining all portions of the landfill facility.
 - O4. This declaration must be submitted to complete this application. Please notify the FDEP of the status of this item in future correspondence.
 - Q. This comment has been adequately addressed.
- 2. The 1997 gas migration results are required to complete the application.

Ground Water Monitoring Plan Evaluation

- 4. This comment has been adequately addressed.
- 5. This comment has been adequately addressed.
- 8. The FDEP currently has the proposed ground water monitoring plan to include the following: Quarterly monitoring for:

Field Parameters	Laboratory Parameters
pH Specific Conductivity Temperature Color (by observation) Static Water Level before purging Turbidity	Aluminum Arsenic Barium Cadmium Chromium Fluoride Lead Mercury Selenium Antimony Beryllium Cyanide Nickel Nitrate Nitrite Selenium

Mr. Breeden & Mr. Spri. ...ead December 23, 1997 Page 3

Thallium
Silver
Sodium
Chloride
Copper
Iron
Manganese
Sulfate
Total Dissolved Solids
Foaming Agents
Ammonium
Zinc
Gross Alpha
Radium-226 + Radium-228

Annual monitoring for the quarterly parameters, plus the Volatile Organic Compounds, Pesticides, PCB's, and Trihalomethanes listed in the Primary Drinking Water Standards, FAC Rule 62-550.310 (attached).

Please confirm these parameters and frequencies. The wells to be sampled are MW-1, MW-2, MW-4, MW-6a, MW-7, MW-8 and MW-9.

Please provide 3 copies of all permit application responses for FDEP review.

Please provide all responses that relate to engineering or geological interpretation signed and sealed by the respective Florida-licensed professional.

"NOTICE! Pursuant to the provisions of Section 120.60 F.S., if the FDEP does not receive a complete response to this request for information within 30 days of the receipt of this letter, the FDEP may issue a final order denying your application. Your need to respond within 30 days after receipt of this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 days to develop, you should develop a specific time table for the submission of the requested information for FDEP review and consideration. Failure to comply with a time table accepted by the FDEP may be grounds for the FDEP to issue a Final Order of Denial for lack of a timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available."

If there are points which must be discussed and resolved, please contact me at 813/744-6100, ext. 336.

Sincerely,

CC:

Allison Amram, P.G. Solid Waste Section

Terry Hurst, Sumter County Composting, Processing & Recycling Facility, 835 CR 529, Sumterville, FL 33585

Robert Butera, P.E., FDEP Susan Pelz, P.E., FDEP

TABLE 1 MAXIMUM CONTAMINANT LEVELS FOR INORGANIC COMPOUNDS

FEDERAL CONTAMINANT ID NUMBER	CONTAMINANT	MCL (mg/L)
1074	Antimony	0.006
1005	Arsenic	0.05
1094	Asbestos	7 MFL
1010	Barium	2
1075	Beryllium	0.004
1015	Cadmium	0.005
1020	Chromium	0.1
1024	Cyanide	0.2
1025	Fluoride	4
1030	Lead	0.015
1035	Mercury	0.002
1036	Nickel	0.1
1040	Nitrate	10 (as N)
1041	Nitrite	1 (as N)
1045	Selenium	0.05
1052	Sodium	160
1085	Thallium	0.002

Abbreviations used: MCL = maximum contaminant level

MFL = million fibers per liter greater than 10 micrometers.

mg/L = milligrams per liter

MAXIMUM CONTAMINANT LIMITS FOR VOLATILE ORGANIC COMPOUNDS

FEDERAL CONTAMINANT ID	CONTAMINANT & (CAS NUMBER)	MCL (mg/L)
NUMBER		
2977	1,1-Dichloroethylene (75-35-4)	0.007
2981	1,1,1-Trichloroethane (71-55-6)	0.2
2985	1,1,2-Tricholoroethane (79-00-5)	0.005
2980	1,2-Dichloroethane (107-06-2)	0.003
2983	1,2-Dichloropropane (78-87-5)	0.005
2378	1,2,4-Tricholorobenzene (120-82-1)	0.07
2990	Benzene (71-43-2)	0.001
2982	Carbon tetrachloride (56-23-5)	0.003
2380	cis-1,2-Dichloroethylene (156-59-2)	0.07
2964	Dichloromethane (75-09-2)	0.005
2992	Ethylbenzene (100-41-4)	0.7
2989	Monochlorobenzene (108-90-7)	0.1
2968 1,2	o-Dichlorobenzene (95-50-1)	0.6
2969 1,4	para-Dichlorobenzene (106-46-7)	0.075
2996	Styrene (100-42-5)	0.1
2987	Tetrachloroethylene (127-18-4)	0.003
2991	Toluene (108-88-3)	1
2979	trans-1,2-Dichloroethylene (156-60-5)	0.1
2984	Trichloroethylene (79-01-6)	0.003
2976	Vinyl chloride (75-01-4)	0.001
2955	Xylenes (total) (1330-20-7)	10

Abbreviations used: MCL = maximum contaminant level

mg/L = milligrams per liter
CAS Number = Chemical Abstract System Number

TABLE 3
MAXIMUM CONTAMINANT LIMITS FOR PESTICIDES AND PCBs

CONTAMINANT ID NUMBER	CONTAMINANT & CAS NUMBER	" MCL (mg/L)
2063	2,3,7,8-TCDD (Dioxin) (1746-01-6)	3 X 10 ⁻⁸
2105	2,4-D (94-75-7)	0.07
2110	2,4,5-TP (Silvex) (93-72-1)	0.05
2051	Alachlor (15972-60-8)	0.002
2050	Atrazine (1912-24-9)	0.003
2306	Benzo(a)pyrene (50-32-8)	0.0002
2046	Carbofuran (1563-66-2)	0.04
2959	Chlordane (57-74-9)	0.002
2031	Dalapon (75-99-0)	0.2
2035	Di(2-ethylhexyl)adipate (103-23-1)	0.4
2039	Di(2-ethylhexyl)phthalate (117-81-7)	0.006
2931	Dibromochloropropane(DBCP) (96-12-8)	0.0002
2041	Dinoseb (88-85-7)	0.007
2032	Diquat (85-00-7)	0.02
2033	Endothall (145-73-3)	0.1
2005	Endrin (72-20-8)	0.002
2946	Ethylene dibromide (EDB) (106-93-4)	0.00002
2034	Glyphosate (1071-83-6)	0.7
2065	Heptachlor (76-44-8)	0.0004
2067	Heptachlor epoxide (1024-57-3)	0.0002
2274	Hexachlorobenzene (118-74-1)	0.001
2042	Hexachlorocyclopentadiene (77-47-4)	0.05
2010	Lindane (58-89-9)	0.0002
2015	Methoxychlor (72-43-5)	0.04
2036	Oxamyl (vydate) (23135-22-0)	0.2
2326	Pentachlorophenol (87-86-5)	0.001
2040	Picloram (1918-02-1)	0.5
2383	Polychlorinated biphenyl (PCB) (1336-36-3)	0.0005
2037	Simazine (122-34-9)	0.004
2020	Toxaphene (8001-35-2)	0.003

Abbreviations used: MCL = maximum contaminant level
mg/L = milligrams per liter
CAS Number = Chemical Abstract System Number

(\$2°)

TABLE 4 SECONDARY DRINKING WATER STANDARDS

FEDERAL CONTAMINANT ID NUMBER	CONTAMINANT	LEVELS (mg/L)*
1002	Aluminum	0.2
1017	Chloride	250
1022	Copper	1
1025	Fluoride	2.0
1028	Iron	0.3
1032	Manganese	0.05
1050	Silver	0.1
1055	Sulfate	250
1095	Zinc	5
1905	Color	15 color units
1920	Odor**	3 (threshold odor number)
1925	pН	6.5 - 8.5
1930	Total Dissolved Solids	500 (may be greater if no other maximum contaminant level is exceeded)
2905	Foaming agents	0.5

^{*}except color, odor, corrosivity, and pH

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^{**} For purpose of compliance with ground water quality secondary standards, as referenced in Chapter 62-520, F.A.C., levels of ethylbenzene exceeding 30 micrograms per liter, toluene exceeding 40 micrograms per liter, or xylenes exceeding 20 micrograms per liter shall be considered equivalent to exceeding the drinking water secondary standard for odor.

Memorandum

Florida Department of Environmental Protection

TO:

Allison Amram, P.G.

FROM:

Susan Pelz, P.E.

DATE:

December 16, 1997

SUBJECT:

Sumter County's November 25, 1997 submittal Pending Permit 22926-002-SF, Long-Term Care

Appendix B.

The November 25, 1997 submittal states, "The general overall condition of the asphalt cover is good. The overall drainage design for the landfill, in general, is effective and has operated as designed." The purpose of final cover is to minimize infiltration and subsequent leachate generation. During recent inspections, the Department has observed several areas with significant cracks in the asphalt and settlement/subsidence of the underlying landfill. This settlement has resulted in poor drainage in some areas. The Department does not believe that the cover was designed to have cracks which may allow infiltration of liquids, or have subsidence/settlement which may cause ponded water on the asphalt.

- a. Please provide the <u>basis</u> for the conclusions that the "asphalt cover is in good condition" and "the drainage design of the landfill has been effective..." if significant cracks, subsidence, and ponded water have been observed in the asphalt covered areas.
- b. Please provide specific maintenance procedures (including timeframes for implementation) for ensuring that the asphalt cover is intact and functioning properly. An "annual visual observation" of the pad does not seem to be sufficient to ensure that the landfill cap is adequately maintained and functioning.
- c. When the asphalt repairs are completed for the entire landfill area, please notify the Department to arrange a site inspection. The Department may not consider the pending permit application to be complete until the repairs have been completed and approved by the Department.
- 3. FAC 17-701.073(6)(c)3. (effective 7-1-85) requires that the closure (or long-term care) plan include provisions for the filling of "areas of subsidence or other depressions [and] general maintenance of the facility...." The November 25, 1997 submittal did not include procedures for maintaining the non-asphalt-covered areas of the landfill.
 - a. Please provide procedures for the filling of low areas and general maintenance of the facility. These procedures should include, but not be limited to, the type of maintenance activity (e.g. mowing, regrading, re-paving, monitoring activities, etc.) and minimum frequency for the activity. Please provide these procedures for maintaining all portions of the landfill facility.



Department of Environmental Protection

Sunta Long-torn care purm it ale

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

October 29, 1997

Mr. Garry Breeden Director, Sumter County Public Works 319 East Anderson Avenue Bushnell, Florida 33513

Mr. David W. Springstead, P.E. Springstead Engineering, Inc. 727 S. 14th Street Leesburg, Florida 34748

Subject:

Sumter County Landfill, Long-term Care Permit Renewal

Pending Permit No. 22926-002-SF, Sumter County

Dear Mr. Breeden and Mr. Springstead:

This letter is to acknowledge your October 1, 1997 permit renewal application response to the Florida Department of Environmental Protection's (FDEP) September 2, 1997 letter. Your response was received October 3, 1997.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter 403, Florida Statute.

The following information is needed in support of your application; comment numbers correspond to those in the FDEP's September 2, 1997 letter.

1. N3e. What geotechnical investigations have been done on the landfill site and adjacent parcels, and how do they indicate that the landfill is not having any detrimental effects? If reports of these investigations have been submitted to the FDEP, you may reference the report by title, author and date submitted.

Appendix B:

- 1. The purpose of final cover is to minimize infiltration and subsequent leachate generation. During recent inspections, the Department has observed several areas with significant cracks in the asphalt and settlement/subsidence of the underlying landfill. This settlement has resulted in poor drainage in some areas. Please explain the conclusions that the "asphalt cover is in good condition" and "the drainage design of the landfill has been effective..." if significant cracks, subsidence, and ponded water have been observed in the asphalt covered areas.
- 2. Since materials are stored on the asphalt paved cover, please provide the operational procedures for management of these materials during the "re-leveling and re-paving" activities. Will the existing asphalt be removed prior to installation of new pavement?

- 3. FAC 17-701.073(6)(c)3. (effective 7-1-85) requires that the closure (or long-term care) plan include provisions for the filling of "areas of subsidence or other depressions [and] general maintenance of the facility...." Please provide procedures for the filling of low areas and general maintenance of the facility. These procedures should include, but not be limited to, the type of maintenance activity (e.g. mowing, regrading, re-paving, monitoring activities, etc.) and minimum frequency for the activity.
- O4. This declaration must be submitted to complete this application. Please notify the FDEP of the status of this item in future correspondence.
- Q. The cost estimates for the site were approved in the FDEP's October 28, 1997 letter, sent separately.
- Please submit the 1997 gas migration results. If these results are comparable to the last two
 years, then a reduced monitoring plan would be acceptable to the FDEP. The active areas
 of the closed landfill, nearby enclosed structures, and the north property boundary should
 continue to be monitored to protect public health.
- 3. This comment has been adequately addressed.
- 4. The revised maps are missing the following requested information: landfill outline and other pertinent structures in the area. Please revise the maps as originally requested.
- 5. Thank you for providing a summary of some of the inorganic parameters from the sampling plan. Were the other parameters not detected from 1994 on?
- 6. The FDEP notes that no request for reduction of sampling frequency is proposed at this time.
- 7. This comment has been adequately addressed.
- 8. In order to evaluate this request for reduction in sampling parameters, please summarize the detection of the parameters you are requesting to delete. That is the intended purpose of the request in comment no. 5. The FDEP anticipates that if these compounds have not been detected, or only sporadically at concentrations close to the lower method detection limits, that a reduction may be permittable. However, because the site specific ground water flow conditions remain unknown, the FDEP does not see how the age of the landfill can be correlated to the detection of compounds in the future. A possible compromise would be annual sampling for a larger suite of parameters. Please provide the requested data, and your professional conclusions, bearing these items in mind.

Please provide 3 copies of all permit application responses for FDEP review.

Please provide all responses that relate to engineering or geological interpretation signed and sealed by the respective Florida-licensed professional.

"NOTICE! Pursuant to the provisions of Section 120.60 F.S., if the FDEP does not receive a complete response to this request for information within 30 days of the receipt of this letter, the FDEP may issue a final order denying your application. Your need to **respond within 30 days** after receipt of this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 days to develop, you should develop a specific time table for the submission of the requested information for FDEP review and consideration. Failure to comply with a time table accepted by the FDEP may be grounds for the FDEP to issue a Final Order of Denial for lack of a timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available."

Mr. Breeden & Mr. Springstead October 29, 1997 Page 3

If there are points which must be discussed and resolved, please contact me at 813/744-6100, ext. 336.

Sincerely,

Allen Jonson

Allison Amram, P.G. **Solid Waste Section**

Terry Hurst, Sumter County Composting, Processing & Recycling Facility, 835 CR 529, CC: Sumterville, FL 33585

Robert Butera, P.E., FDEP Susan Pelz, P.E., FDEP



TO:

NOV 26 1997 anymormental Protection SOUTHWEST DISTRICT Jepaillie.

EB - 0001723 AA - 0002820 LB-0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

Department of Environmental Protection 3804 Coconut Palm Drive

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COPY TO: Garry Breeder	n-Sumter County		;	SIGNED: U	David W	Springstead P.E.

Garry Breeden-Sumter County Denise Reynolds-Sumter County Terry Hurst-Sumter County Mitch Kessler-TIA

logged in pa 12/6/97

USA Airbill 9**1364264**55 11702798 David W. Springstead 352)787-1414 Dept./Floor/Suite/Room PRINGSTEAD ENGINEERING INC 727 S 14TH ST LEESBURG 921100.008 Your Internal Billing Reference Information 813,744 6100 Ms. Allison Amram Recipient's Dept:/Floor/Suite/Room FLURIDA DEPT OF ENVIR PROTECTI 804 COCONUT (To "HOLD" at FedEx location, print FedEx address here), TAMPA For HOLD at FedEx Location check here For Saturday Delivery check here (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight) Hold Saturday (Not available at all locations)

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Your signature authorizes Federal Express to deliver this ship ment without obtaining a signature and agrees to indemnify and hold harmless Federal Express from any resulting claims.





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- for loss or damage to shipments of prohibited items
- for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war strikes, civil commotions, or acts of public authorities with actual or apparent authority.

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- For other shipments, the highest declared value allowed is \$50,000 unless your package contains items of "extraordinary value," in which case the highest declared value allowed is \$500.
- Items of "extraordinary value" include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our Service Guide.
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We'll consider your claim filed if you notify our Customer Service Department at 1-800-Go-FedEx and make your claim in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all the information you have about it. We aren't obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing available for inspection.

Right To Inspect We may at our option open and inspect your packages before or after you give them to us to deliver.

Right Of Rejection We reserve the right to reject a shipment when such shipment would be likely to cause delay or damage to other shipments, equipment, or personnel or if its shipment is prohibited by law; or if the shipment would violate any terms of our Agreement or our current Service Guide.

C.O.D. Services C.O.D. SERVICE IS NOT AVAILABLE WITH THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. airbill.

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Money-Back Guarantee In the event of untimely delivery, Federal Express will at your request and with some limitations, refund or credit all transportation charges. See current Service Guide for more information.



Department of **Environmental Protection**

Lawton Chiles Governor

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

FAX TRANSMITTAL SHEET DATE: October 30, 1997



TO: Garry Breeden - Sumter County

David Springstead, P.E. - Springstead Engineering

Mitch Kessler - TIA

Fax: 352-793-0247

Fax: 352-787-7221 813-265-8140 Fax:

FROM:

Susan Pelz, P.E.

Phone: (813) 744-6100 ext 386

Fax:

(813)744-6125

TOTAL NUMBER OF PAGES, INCLUDING COVER SHEET

Summary of Permitting Activity/Status per your request on October 22, 1997. **SUBJECT:**

Permit Number	Application received	Information Requested	Information Received	Status
SC60-298996 Digester permit	Issued 8-29 - 97			
Certification of Construction		9-16-97	10-30-97	Pending DEP review
126940-003-SO Request to Modify Permit			10-30-97	Pending DEP review (Upon satisfactory completion of this modification, this permit will be modified to allow operation of the digester.)
126940-001-SO Composting Operation renewal	8-4-97	9-2-97 10-28-97	10-2-97	Awaiting response to 10-28-97 RAI

Permit Number	Application received	Information Requested	Information Received	Status
126941-001-SO MRF Operation renewal	8-4-97	9-2-97 10-28-97	10-2-97	Awaiting response to 10-28-97 RAI
126940-002-SC Finishing Bldg. construction	10-17-97	10-21-97	10-27-97	Pending complete DEP review.
126848-001-WT Waste Tire Collection Center				Pending signature for issuance- will be issued by 11-8-97
22926-002-SF Landfill Long- Term Care	8-4-97	9-2-97 10-29-97	10-3-97	Awaiting response to 10-29-97 RAI

If you have any questions, you may contact me at the phone number listed above.

16:46

Transmit Confirmation Report

No. 010

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Consulting Engineers - Architects - Planners - Surveyors

EB - 0001723 AA - 0002820 LB-0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

Department of Environmental	Protection
3804 Coconut Palm Drive	
Tampa, FL 33619	

Date: October 2, 1997 Job No.: 921100.008 Attention: Department of Environmental Protection RE: Sumter County Landfill, Long-term Care Permit Renewal Permit No. 22926-002-SF, Sumter County _ Enclosed _ under separate cover via ____ the following items: WE ARE SENDING YOU _ Plans _ Samples _ Specifications Facsimile _ Change Order _ ____ Date No. Description Request for Additional Information THESE ARE TRANSMITTED as checked below: _ For Approval _ Approved as submitted _ Approved for payment For your use _ Approved as noted _ Resubmit ___ copies for approval _ Returned for corrections As Requested _ For Review and Comment _ __ _ Material and/or prints returned after loan to us

REMARKS

COPY TO: Garry Breeden SIGNED:

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Terms And Conditions

Definitions On this airbill, we, our and us refer to Federal Express Corporation, its employees, and agents. You and your refer to the sender, its employees, and agents.

Agreement To Terms By giving us your package to deliver, you agree to all the terms in our current Service Guide, which is available on request. You also agree to those terms on behalf of any third party with an interest in the package. If there is a conflict between the Service Guide and this Airbill, the Service Guide will control. No one is authorized to change the terms of our Agreement.

Responsibility For Packaging And Completing Airbill You are responsible for adequately packaging your goods and properly filling out this airbill. If you omit the number of packages and/or weight per package, our billing will be based on our best estimate of the number of packages we received and/or an estimated "default" weight per package as determined by us.

Responsibility For Payment Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we incur in either returning your package to you or warehousing it pending disposition.

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- In any event, we will not be liable for any damage, whether direct, incidental, special, or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including but not limited to loss of income or profits.

- · We won't be liable:
- for your acts or omissions including but not limited to improper or insufficient packing, securing, marking, or addressing or those of the recipient or anyone else with an interest in the package
- if you or the recipient violate any of the terms of an Agreement
- for loss or damage to shipments of prohibited items
- for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war strikes, civil commotions, or acts of public authorities with actual or apparent authority.

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- Items of "extraordinary value" include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our Service Guide.
- You may send more than one package on this airbill and fill in the total declared value for all packages, not to exceed the \$100, \$500 or \$50,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$250,000.) In that case, our liability is limited to the actual value of the package(s) lost or damaged, but may not exceed the maximum allowable declared value(s) or the total declared value, whichever is less. You are responsible for proving the actual loss or damage.

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Within 90 days after you notify us of your claim, you must send us all the information you have about it. We aren't obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any .damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing available for inspection.

Right To Inspect We may at our option open and inspect your packages before or after you give them to us to deliver.

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Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

CERTIFIED MAIL RETURN RECEIPT

SEP 1 8 1997

Mr. Garry Breeden
Director
Sumter County Public Works Dept.
319 East Anderson Street
Bushnell, FL 33513

Re: Emergency Detonation or Thermal Treatment of Certain

Hazardous Waste, 62-730.320 FAC (enclosed)

Dear Mr. Breeden:

The purpose of this letter is to encourage active coordination between the Solid Waste Operation at landfills (where treatment of the referenced materials occur), and the persons (Fire Department, Bomb Squad, etc.) responsible for the safe detonation of explosives and this Department.

It has been brought to my attention by Waste Management staff that the referenced treatment may be occurring at some solid waste landfills permitted by this Department. The Department is concerned that the referenced treatment may be occurring at locations in the landfill which may be in close proximity to methane gases escaping from passive vents and/or flares at actively vented landfills. Two recent explosions occurring at leachate sumps at solid waste landfills resulted in injury to personnel. These explosions occurred at pump stations where leachate was being removed from the sumps and the methane gases contained within the pump station were exposed to an ignition source. In addition the Department is concerned with landfill fires, possible damage to HDPE liners utilized in closures and depressions in intermediate cover exposing waste.

The Department requests that the responsible solid waste operation submit (within 90 days of receipt of this letter) a scale site plan of the facility identifying the specific location where the referenced treatment will occur. You are requested to include sites where detonations occur on properties adjacent to solid waste landfills. If no detonations occur at your facility please respond accordingly. The site plan should include the locations of flares, passive vents, leachate sumps, all occupied buildings on site, and their respective distances from the location of these detonations.

Mr. Garry Breeden
Sumter County Public Works Dept.

The Department's Solid Waste and Hazardous Waste Sections will review these submittals and respond to the Solid Waste Permittee as to the approved locations for that particular facility. The Solid Waste Section should be contacted for authorization for all further modifications to the gas vent, building, and sump relocations.

In accordance with 62-730.320(1) "Certain hazardous wastes, due to their origin, age, and storage conditions have become a hazard to their surroundings. Because of the flammable, shock sensitive and explosive nature of the wastes, there is an immediate danger and imminent hazard to persons and property in the surrounding area. Therefore an authorization is granted for the emergency detonation or treatment of reactive hazardous wastes, as defined in FAC Chapter 62-730." The Department requests that all authorizations be requested in accordance with 62-730.320(1)(a) which states "The person having custody of the waste contacts the Department and obtains oral or written permission prior to the detonation or treatment."

The authorized person for detonating the waste such as the Fire Department, Bomb Squad, etc. should coordinate with the solid waste operation to assure all further detonations will occur at the Department approved locations. The Department requests your cooperation on this matter and thanks you in advance for protecting the environment and providing a safe area within the landfill. If you have any questions concerning this letter you may contact Bob Butera in the Solid Waste Section at 813-744-6100, Ext. 451 or William Crawford in the Hazardous Waste Section at 813-744-6100, Ext. 372.

Sincerely,

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

Southwest District

Attachment

cc: Robert Butera, P.E., FDEP
 William Crawford, FDEP
 Mr. Terry Hurst, Sumter County
 Susan Pelz, P.E., FDEP
 Allison Amra, P.G., FDEP
 Daneille Nichols, FDEP



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

September 2, 1997

Mr. Garry Breeden
Director, Sumter County Public Works
319 East Anderson Avenue
Bushnell, Florida 33513

Mr. David W. Springstead, P.E. Springstead Engineering, Inc. 727 S. 14th Street Leesburg, Florida 34748

Subject:

Sumter County Landfill, Long-term Care Permit Renewal

Pending Permit No. 22926-002-SF, Sumter County

Dear Mr. Breeden and Mr. Springstead:

This letter is to acknowledge your August 1, 1997 permit renewal application to the Florida Department of Environmental Protection's (FDEP). Your application was received August 4, 1997. According to FDEP records, the last cell of the closed landfill was certified as complete on May 24, 1990. This is the beginning date of long-term care for the facility. Under the effective solid waste rule at that time (Rule 17-701.075(1), F.A.C.), the long-term care period is 20 years.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is <u>incomplete</u>. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until <u>all</u> requested information has been received.

The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

- 1. Solid Waste Management Facility Permit application: Please complete the following sections (and provide the required supporting data/reports) as they pertain to the closed landfill: B3, B8, B21, N3d, N3e, O4, O6, and Q. Section B contains general information concerning the closed landfill; Section N requires an engineering evaluation of the existing closed landfill systems (gas and water quality monitoring, cover conditions, stormwater control, etc.); Section O concerns the current use of the landfill areas (vacant land and recyclable storage only?) as well as documentation in the property deed that a landfill is present (see attached rule language from 17-701.074(4), dated December 10, 1985); and Section Q requires information about the financial responsibility accounts.
- 2. Based on the text provided, the FDEP understands that the applicant wishes to continue with the annual gas surveys. This is acceptable to the FDEP.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Breeden & Mr. Springstead September 2, 1997 Page 2

3. The ground water parameters missing from the last quarterly sampling event (listed in your August 20, 1997 letter to Ms. Danielle Nichols) are included in the EPA 601 parameter list. These parameters are part of the required quarterly sampling parameters and must be included in future sampling events. For your reference, the EPA 601 and 602 parameters as listed in 40 CFR Part 136, Appendix A are attached to this letter.

The FDEP received one copy of the "Groundwater Monitoring Plan Evaluation" on August 22, 1997. The report was prepared by Springstead Engineering, Inc., and is dated August 1, 1997. Comments 4-8 refer to this submittal.

- 4. Appendix A, Groundwater Elevation Contour Maps. Please provide the ground water elevation at each measurement point, and include the outline of the closed landfill and other pertinent structures in this area.
- 5. The evaluation included data from the past year only. The evaluation should include sampling events that occurred after those included in the May 1994 ground water evaluation.
- 6. A request to decrease sampling frequency must be supported by site-specific ground water flow velocity calculations. Please submit this data with supporting calculations. Well testing should be conducted on a representative number of wells.
- 7. The evaluation stated that turbidity is a problem during some sampling events. Wells that are purged with bailers often exhibit higher turbidity than wells purged with pumps. If the wells are purged with bailers, the applicant may want to instruct the samplers to gently lower the bailers in and out of the wells. If problems persist, the applicant may wish to have the wells redeveloped, or institute another method for purging the wells.
- 8. If the applicant would like to reduce the parameter list, a proposed list must be submitted along with rationale for the proposed changes.

Please provide 3 copies of all permit application responses for FDEP review.

Please provide all responses that relate to engineering or geological interpretation signed and sealed by the respective Florida-licensed professional.

"NOTICE! Pursuant to the provisions of Section 120.60 F.S., if the Department does not received a complete response to this request for information within 30 days of the receipt of this letter, the Department may issue a final order denying your application. You need to respond within 30 days after receipt of this letter, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 30 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department may be grounds for the Department to issue a Final Order of Denial for lack of a timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available."

Mr. Breeden & Mr. Springstead September 2, 1997 Page 3

Please include all outstanding items in that submittal, or include a schedule for submittal. If there are points which must be discussed and resolved, please contact me at 813/744-6100, ext. 336.

Sincerely,

Allison Amram, P.G. Solid Waste Section

Attachments

cc: Terry Hurst, Sumter County Composting, Processing & Recycling Facility, 835 CR 529,

Sumterville, FL 33585 Robert Butera, P.E., FDEP Susan Pelz, P.E., FDEP

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(8) Certification by registered professional engineer. Information, plans, and drawings presented in support of a closure permit for a landfill shall be prepared under the direction of, and certified by, a registered professional engineer authorized to practice in the State of Florida in accordance with the provisions of Chapter 471, Florida Statutes. A letter of appointment shall be submitted by the proper federal, state, county, municipal or agency employee, or company official, or individual, confirming that the engineer is authorized to prepare plans and specifications. The professional engineer or another qualified engineer shall be required to make periodic inspections during the closing of the facility to insure closure is being accomplished according to the closure plan.

Specific Authority: 403.704, F.S.

DER 1988

aw Implemented: 403.704, 403.707, F.S. History: New 7-1-85; Formerly 17-7.073.

17-701.074 Closure Procedures. Upon approval of the closure plan and issuance of the closure permit by the Department, the landfill owner or operator shall close the landfill in accordance with the approved plans and any special permit provisions.

(1) Closing inspections. The Department may specify in the closure permit that particular closing steps or operations must be inspected and approved by the

Department before proceeding with subsequent closure actions.

- (2) Survey monuments. Concrete monuments shall be installed to mark the boundaries of the landfill property and other permanent markers installed to outline the general waste filled areas. These latter markers shall be tied to one or more of the boundary markers by a survey performed by an engineer or a registered land surveyor. The location and elevation of all markers shall be shown on a site plan filed with the "Declaration to the Public" described in subsection (4) below.
- (3) Final survey and as built report. When landfill operations have been conducted which have raised the final elevations higher than 10 feet above the natural land surface, a final survey shall be performed by an engineer or a registered surveyor to verify that final contours and elevations of the facility are in accordance with the plans as approved in the permit. Aerial mapping techniques which provide equivalent survey accuracy may be substituted for the survey. The survey or aerial mapping information shall be a report which also includes information reflecting the as-built conditions of the landfill. Contours should be shown at no greater than 5 foot intervals. The landfill owner or operator shall submit this report to the Department in accordance with the closing schedule.
- (4) Declaration to the public. After closing operations are inspected and approved by the Department, the landfill owner or operator shall file a declaration to the public in the deed records in the office of the county clerk of the county in which the landfill is located. The declaration shall include a legal description of the property on which the landfill is located and a site plan specifying the area actually filled with solid waste. The declaration shall also include a notice that any future owner or user of the site should consult with the Department prior to planning or initiating any activity involving the disturbance of the landfill cover, monitoring system or other control structures. A certified copy of the declaration shall be filed with the Department.

17-701.073(8) -- 17-701.074(4)

(5) Official date of closing. Upon receipt of the documents required in paragraphs (3) and (4) of this section, the Department shall, within 30 days, acknowledge by letter to the facility operator, that notice of termination of operations and closing of the facility has been received. The date of this letter shall be the official date of landfill closing for purposes of determining the long term care period.

(6) Use of closed landfill areas. Closed landfill areas, if disturbed, are a potential hazard to public health, groundwater and the environment. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, monitoring system or leachate and stormwater controls. Consultation with the Department is required prior to conducting activities at the closed landfill.

(7) Construction on closed landfill. Pursuant to s. 403.705(1), Florida Statutes,

the following guidance is provided for use of a closed landfill.

(a) Enclosed ground level and underground structures should be avoided due to the potential for explosive concentrations of methane gas. Special construction and ventilation techniques must be employed if such structures are contemplated.

(b) Ponding of water, excessive irrigation, or plowing to a depth below the topsoil should not be done unless there is assurance that percolation of moisture into

the buried waste will not occur. 🤌

(c) Concentrated weight loadings should be avoided to prevent uneven settlement.

(d) The effectiveness of landfill cover and any liners or barriers must not be

disturbed when structures are built, particularly when pilings are used.

(e) Underground utilities and similar installations that are placed within 200 feet of, or cross any side of any filled areas should be avoided. If they cannot, a properly located gas barrier or ventilation system should be placed at each property boundary crossed to prevent methane gas migration along the utility line to off-site structures. Specific Authority: 403.704, F.S.

Law Implemented: 403.704, 403.707, F.S. History: New 7-1-85; Formerly 17-7.074.

17-701.075 Long Term Care. The following long term care provisions shall apply to landfills after closing operations have been completed.

(1) Long term care period. The owner or operator of any landfill in operation after the effective date of this rule shall be responsible for monitoring and maintenance of the facility in accordance with an approved closure plan for 20 years from the date of closing. Prior to the expiration of the post closing monitoring and maintenance period the Department may extend the time period if it finds extension is necessary if the closure design or closure operation plan is found to be ineffective.

17-701.074(5) -- 17-701.075(1)

(2) Reduced long term care period. The owner or operator of a landfill may apply to the Department for a reduced long-term care schedule if reasonable assurance is provided to the Department that there is no significant threat to human health or the environment and if the landfill:

(a) Has been constructed and operated in accordance with approved standards,

has a leachate control system, has a liner or

(b) Was closed with appropriate final cover, good vegetative cover established,

and a good monitoring system installed and;

(c) Has a 10 year history of no leachate detected in the monitoring system, no leachate collected after closing, no detrimental erosion of cover, and subsidence of waste has ceased.

- (3) Right of access. It is the responsibility of the owner or operator to possess or acquire a sufficient interest in, or a right to use the property for which a permit is issued, including the access route onto the property to carry out the requirements of this rule. The issuance of a permit by the Department does not convey any property rights or interest in real or personal property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of federal, state, or local laws or regulations outside the authority under which a permit is issued. The permittee must retain the right of entry to the landfill property for the long term care period, after termination of solid waste operations, for inspection, monitoring and maintenance of the site.
- (4) Successors in interest. Any person acquiring rights or ownership, possession or operation of a permitted landfill through lease or transfer of property shall be subject to all requirements of the permit for the facility and shall provide any required proof of financial responsibility to the Department in accordance with this rule. Any lease or transfer of property shall include specific conditions to delineate:
- (a) The previous owner or operator is responsible for closure and shall maintain any required proof of financial responsibility until the person acquiring ownership, possession or operation of the landfill establishes the required proof of financial responsibility with the Department;

(b) Responsibility for the continuance of monitoring, maintenance, and

correction of deficiencies or problems;

(c) Mineral rights attached to the property and the rights to any recoverable materials that may be buried on the property or landfill gasses that may be produced. A Department permit shall be required if any on-site operations subsequent to closing of a landfill involve disturbing the landfill.

(5) Transfer of Permit. Transfer of landfill permit shall be in accordance with the provisions of Chapter 17-4.120 Fla. Admin. Code and this rule.

(6) Replacement of monitoring devices. If a monitoring well or other device required by the monitoring plan is destroyed or fails to operate for any reason, the landfill owner or operator shall, immediately upon discovery, notify the Department in writing. All inoperative monitoring devices shall be replaced with functioning devices within 60 days of the discovery of the malfunctioning unit unless the landfill owner or operator is notified otherwise in writing by the Department.

Specific Authority: 403.704, F.S.

Law Implemented: 403.704, 403.707, F.S. History: New 7-1-85' Formerly 17-7.075.

17-701.076 Financial Responsibility.

(1) Cost estimates.

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- (a) For the purpose of determining the amount of proof of financial responsibility that is required in subsection 17-701.076(3) the owner or operator shall estimate the total cost of closure for the time period in the landfill operation when the extent and manner of its operation make closing most expensive, and shall estimate the annual cost of long-term care and submit the estimate together with all necessary justification for approval to the Department. The costs shall be based on a third party performing the work, reported on a per unit basis. The source of estimates shall be indicated;
- (b) Closing costs shall be based on the nature and characteristics of the wastes disposed of at the site and shall include estimated costs of cover material, topsoil, seeding, fertilizing, mulching and labor:

(c) Long-term care costs shall include land surface care, gas monitoring, leachate pumping, transportation, monitoring and treatment; and groundwater

monitoring, collection and analysis.

- (2) Government owned landfills. After July 1, 1985, federal, state, county, or municipal governments or special districts which own a landfill shall provide the department with a plan or documentation of how they will finance the closure of the facility. The plan or documentation shall be submitted with the initial construction permit application. For existing, but not closed landfills, it shall be submitted by July 1, 1986.
- (3) Non-government owned landfills. After July 1, 1985, any person applying for a permit to construct a new landfill which is not owned by federal, state, county or municipal government or special districts, shall obtain and submit proof of financial responsibility 60 days prior to acceptance of solid waste as a condition of the permit. Owners or operators of existing but not closed landfills shall submit proof of financial responsibility to the Department, by July 1, 1986. Proof of financial responsibility shall be submitted on forms provided by the Department in accordance with the requirements of this Section 17-701.076, F.A.C.
- (a) 40 CFR Part 264 Subpart H which contains EPA's rules on financial requirements for owners and operators of hazardous waste facilities are hereby adopted as financial requirements for purposes of this rule and incorporated by reference as those rules appear in 40 CFR 264 revised as of July 1, 1984, except:

17-701.075(6) -- 17-701.076(3)(a)

- 1.2 This is a purge and trap gas chromatographic (GC) method applicable to the determination of the compounds listed above in municipal and industrial discharges as provided under 40 CFR 136.1. When this method is used to analyze unfamiliar samples for any or all of the compounds above, compound identifications should be supported by at least one additional qualitative technique. This method describes analytical conditions for a second gas chromatographic column that can be used to confirm measurements made with the primary column. Method 624 provides gas chromatograph/mass spectrometer (GC/MS) conditions appropriate for the qualitative and quantitative confirmation of results for most of the parameters listed above.
- 1.3 The method detection limit (MDL, defined in Section 12.1) for each parameter is listed in Table 1. The MDL for a specific wastewater may differ from those listed, depending upon the nature of interferences in the sample matrix.
- 1.4 Any modification of this method, beyond those expressly permitted, shall be considered as a major modification subject to application and approval of alternate test procedures under 40 CFR 136.4 and 136.5.
- 1.5 This method is restricted to use by or under the supervision of analysts experienced in the operation of a purge and trap system and a gas chromatograph and in the interpretation of gas chromatograms. Each analyst must demonstrate the ability to gen-

erate acceptable results with this method using the procedure described in Section 8.2.

2. Summary of Method

- 2.1 An inert gas is bubbled through a 5-mL water sample contained in a specially-designed purging chamber at ambient temperature. The halocarbons are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent trap where the halocarbons are trapped. After purging is completed, the trap is heated and backflushed with the inert gas to desorb the nalocarbons onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the halocarbons which are then detected with a halide-specific detector.^{2,3}
- 2.2 The method provides an optional gas chromatographic column that may be helpful in resolving the compounds of interest from interferences that may occur.

3. Interferences

- 3.1 Impurities in the purge gas and organic compounds outgassing from the plumbing ahead of the trap account for the majority of contamination problems. The analytical system must be demonstrated to be free from contamination under the conditions of the analysis by running laboratory reagent blanks as described in Section 8.1.3. The use of non-Teflon plastic tubing, non-Teflon thread sealants, or flow controllers with rubber components in the purge and trap system should be avoided.
- 3.2 Samples can be contaminated by diffusion of volatile organics (particularly fluorocarbons and methylene chloride) through the septum seal ilto the sample during shipment and storage. A field reagent blank prepared from reagent water and carried through the sampling and handling protocol can serve as a check on such contamination.
- 3.3 Contamination by carry-over can occur whenever high level and low level samples are sequentially analyzed. To reduce carry-over, the purging device and sample syringe must be rinsed with reagent water between sample analyses. Whenever an unusually concentrated sample is encountered, it should be followed by an analysis of reagent water to check for cross contamination. For samples containing large amounts of water-soluble materials, suspended solids, high boiling compounds or high organohalide levels, it may be necessary to wash out the purging device with a detergent solution, rinse it with distilled water, and then dry it in a 105°C oven between analyses. The trap and other parts of the system are also subject to contamination; therefore, frequent bakeout and purging of the entire system may be required.

- 4.1 The tox each reagent u been precisely (ical compound : tial health haza posure to these to the lowest means available ble for maintain of OSHA regu handling of the method. A refe. handling sheets able to all perso cal analysis. Add tory safety are identified +6 for t lyst.
- 4.2 The follow this method have as known or susp an carcinogens: a roform, 1,4-dichlaride. Primary sta pounds should b NIOSH/MESA as tor should be wo dles high concent pounds

5. Appara

5.1 Sampling sampling.

5.1.1 Vial—25-n equipped with a sc center (Pierce #13 gent wash, rinse water, and dry at 1

5.1.2 Septum—7 (Pierce #12722 of wash, rinse with taking at 105 °C for 1

5.2 Purge and and trap system cpieces of equipmer and desorber. Seve now commercially a

- 5.2.1 The purgisigned to accept 5-1 column at least 3 head space between the trap must have than 15 mL. The through the water bubbles with a diar at the origin. The 1 duced no more than the water column. I trated in Figure 1 ria.
- 5.2.2 The trap r long and have an in 0.105 in. The trap m the following minir ents: 1.0 cm of meth

1. Scope and Application

1.1 This method covers the determination of various purgeable aromatics. The following parameters may ie determined by this method:

Parameter	STORET No.	CAS No.
Benzene Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Ethylbenzene Toluene	34536	71-43-2 108-90-7 95-50-1 541-73-1 106-46-7 100-41-4 108-88-3

1.2 This is a purge and trap gas chromatographic (GC) method applicable to the determination of the compounds listed above in municipal and industrial discharges as provided under 40 CFR 136.1. When this method is used to analyze unfamiliar samples for any or all of the compounds above, compound identifications should be supported by at least one additional qualitative technique. This method describes analytical conditions for a second gas chromatographic column that can be used to confirm measurements made with the primary column. Method 624 provides gas chromatograph/mass spectrometer (GC/MS) conditions appropriate for the qualitative and quantitative confirmation of results for all of the parameters listed above.

1.3 The method detection limit (MDL, defined in Section 12.1) for each parameter is listed in Table 1. The MDL for a specific wastewater may differ from those listed, depending upon the nature of interferences in

the sample matrix.

1.4 Any modification of this method, beyond those expressly permitted, shall be considered as a major modification subject to application and approval of alternate test procedures under 40 CFR 136.4 and 136.5.

1.5 This method is restricted to use by or under the supervision of analysts experienced in the operation of a purge and trap system and a gas chromatograph and in the interpretation of gas chromatograms. Each analyst must demonstrate the ability to generate acceptable results with this method using the procedure described in Section 8.2.

2. Summary of Method

2.1 An inert gas is bubbled through a 5mL water sample contained in a speciallydesigned purging chamber at ambient temperature. The aromatics are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent trap where the aromatics are

40 CFR Ch. (7-1-86 Edition)

trapped. After purging is completed, the trap is heated and backflushed with the inert gas to desorb the aromatics onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the aromatics which are then detected with a photoionization detector.2.3

2.2 The method provides an optional gas chromatographic column that may be helpful in resolving the compounds of interest from interferences that may occur.

3. Interferences

3.1 Impurities in the purge gas and organic compounds outgassing from the plumbing ahead of the trap account for the majority of contamination problems. The analytical system must be demonstrated to be free from contamination under the conditions of the analysis by running laboratory reagent blanks as described in Section 8.1.3. The use of non-Teflon plastic tubing, non-Teflon thread sealants, or flow controllers with rubber components in the purge and trap system should be avoided.

3.2 Samples can be contaminated by diffusion of volatile organics through the septum seal into the sample during shipment and storage. A field reagent blank prepared from reagent water and carried through the sampling and handling protocol can serve as a check on such contamina-

tion.

3.3 Contamination by carry-over can occur whenever high level and low level samples are sequentially analyzed. To reduce carry-over, the purging device and sample syringe must be rinsed with reagent water between sample analyses. Whenever an unusually concentrated sample is encountered, it should be followed by an analysis of reagent water to check for cross contamination. For samples containing large amounts of water-soluble materials, suspended solids, high boiling compounds or high aromatic levels, it may be necessary to wash the purging device with a detergent solution, rinse it with distilled water, and then dry it in an oven at 105°C between analyses. The trap and other parts of the system are also subject to contamination; therefore, frequent bakeout and purging of the entire system may be required.

4. Safety

4.1 The toxicity or carcinogenicity of each reagent used in this method has not been precisely defined; however, each chemical compound should be treated as a potential health hazard. From this viewpoint, exposure to these chemicals must be reduced to the lowest possible level by whatever means available. The laboratory is responsible for maintaining a current awareness file of OSHA regulations regarding the safe

Environmental Protect

handling of the chemica method. A reference filhandling sheets should & able to all personnel inve cal analysis. Additional re tory safety are availab identified *6 for the infor lyst.

4.2 The following par: this method have been to as known or suspected, h an carcinogens: benzene benzene. Primary stands compounds should be pre NIOSH/MESA approved tor should be worn whe. dles high concentrations pounds.

5. Apparatus and

5.1 Sampling equipm sampling.

5.1.1 Vial]25-mL equipped with a screw car center (Pierce #13075 or gent wash, rinse with water, and dry at 105 °C t

5.1.2 Septum—Teflon-: (Pierce #12722 or equi wash, rinse with tap and dry at 105 °C for 1 h befo

5.2 Purge and trap s and trap system consists pieces of equipment: A p and desorber. Several co. now commercially availab

- 5.2.1 The purging d€ signed to accept 5-mL sa column at least 3 cm head space between the the trap must have a te than 15 mL. The pur through the water colun bubbles with a diameter at the origin. The purge duced no more than 5 m the water column. The r trated in Figure 1 meets ria.
- 5.2.2 The trap must long and have an inside 0.105 in.
- 5.2.2.1 The trap is pa methyl silicone coated 6.4.2) and 23 cm of 2,6 polymer (Section 6.4.1) 2. This trap was used to performance statements

5.2.2.2 Alternatively, traps described in Metho although water vapor measurement of low cor zene.

5.2.3 The desorber r rapidly heating the trap mer section of the tr heated higher than 180



GROUNDWATER MONITORING PLAN EVALUATION
SUMTER COUNTY SOLID WASTE
MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA

GMS ID NO.: 4060C00092 PERMIT NO.: SF60-211255

Springstead Engineering, inc.

Consulting Engineers - Architects - Planners - Surveyors 727 South 14th Street Leesburg, Florida 34748 Lake (352) 787-1414

Sumter (352) 793-3639

Fax (352) 787-7221

rcid 8/22/97 bound report attached



EB - 0001723 AA - 0002820 LB - 0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

Ms. Danielle Nichols:
Environmental Specialist
Solid Waste Southwest District
Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

RECEIVED AUG 2 2 1997

RE: Deficiencies in required submittals SC60-211255, Sumter County

Dear Ms. Nichols:

August 20, 1997

We are in receipt of your letter regarding deficiencies in required submittals for the above referenced permit. Please find the following responses:

The above-referenced permit outlines the parameters required for the County's quarterly groundwater monitoring sampling events for the closed landfill. The last submittal was received on June 19, 1997 for your April sampling event. Review of the data shows a number of parameters missing, including:

Bromodichloromethane
Bromoform
Bromomethane
Bromomethane
Chloroethane
2-Chloroethylvinyl ether
Chloroform
Chloromethane
Chloromethane
Chloromethane
Chloromethane
Chloromethane
Chloromethane
Chloromethane
Chloromethane
Dibromochloromethane

Specific Condition 11 of the above referenced permit requires that upon completion of new wells, all groundwater monitoring wells be sampled for the following parameters:

EPA 624/625 parameters
EPA Priority Pollutants Metals
Primary and Secondary Drinking Water Standards
Water Level
Temperature
Conductivity
Ammonium
Color

AND, all existing groundwater monitoring wells be sampled quarterly for the following parameters:

EPA 601/602 parameters
Primary and Secondary Drinking Water Standards
Water Level
Temperature
Conductivity
Ammonium
Color

MW-8 and MW-9 were sampled for all of the new well parameters after construction and all wells have been sampled and tested in accordance with existing well requirements quarterly.

- 2. Additionally, Specific Condition 19 requires submittal of an evaluation of the Groundwater/Monitoring Plan 90 days prior to expiration of the permit. This due date is August 3, 1997; the Department has not received the evaluation yet to date. The Department assumes that the sampling for this evaluation has already been performed. If the analyses do not include all the parameters listed in Specific Condition 11, you are instructed to resample immediately and analyze for the missing parameters. If a resample is necessary, please notify the Department immediately to inform us of anticipated dates for sampling and submittal.
- 2. A Groundwater Monitoring Plan Evaluation is enclosed for your review.
- 3. Finally, the Department has not received leachate quantity reports for the April 15 and July 15 due dates in accordance with Specific Condition 10b of the permit SC60-263199. Also required by that permit is an annual revised operations plan (or statement no changes were made). This was due on April 15, 1997. Please submit this information to the Department as soon as possible.
- 3. The leachate quantity reports for April and July are attached in addition to the revised operation plan statement.

Should you have any questions or require additional information, please contact our office.

Very truly yours, Springstead Angine hings, and

Engineer &

Florida Registration No.

Attachment*

DWS/jal

cc w/attachment:

Garry Breeden
Terry Hurst
Allison Searcy

(August 8, 1997 - b:deficiencies.ltr)

Fe	USA Airbill	~ 8001400	48805	(
1 Fr Date - .	om 8/20/97			4a XX
Sender's Name	David W. Springstead	Phone (352) 7E	7-1414	
Company .	SPRINGSTEAD ENGINEERING	G INC	1, 	4b
Address	727 S 14TH ST		; ;	
City	LEESBURG	State FL ZIP 3474 B	Dept/Floor/Suite/Room	5
	r Internal Billing Reference Information 921100.00			6
3 To Recipient's Name	Ms. Danielle Nichols	:	44-6100	Doe:
Address	3804 Eoconut Palm Drive	Dept/Floor/Suite/Roo	Check here. if residence (Extra charge applies for FedEx Express Sever)	
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Form I.D. No.

sogı: Recipient's Copy

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Terms And Conditions

Definitions On this Airbill, "we," "our" and "us" refer to Federal Express Corporation, its employees, and agents, "You" and "your" refer to the sender, its employees, and agents.

Agreement To Terms By giving us your package to deliver. you agree to all the terms in our current Service Guide, which is available on request. You also agree to those terms on behalf of any third party with an interest in the package. If there is a conflict between the Service Guide and this Airbill, the Service Guide will control. No one is authorized to change the terms of our Agreement.

Responsibility For Packaging And Completing Airbill You are responsible for adequately packaging your goods and properly filling out this Airbill. If you omit the number of packages and/or weight per package, our billing will be based on our best estimate of the number of packages we received and/or an estimated "default" weight per package as determined by us.

Responsibility For Payment Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we incur in either returning your package to you or warehousing it pending disposition.

Limitations On Our Liability And Liabilities Not Assumed

- Our liability for loss or damage to your package is limited to your actual damage or \$100, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. You may pay an additional charge for each additional \$100 of declared value. The declared value does not constitute. nor do we provide cargo liability insurance.
- . In any event, we will not be liable for any damage, whether direct, incidental, special, or consequential in excess of the declared value of a shipment, whether or not Federal Express had knowledge that such damages might be incurred including but not limited to loss of income or profits.
- · We won't be liable:
 - for your acts or omissions including but not limited to improper or insufficient packing, securing, marking, or addressing or those of the recipient or anyone else with an interest in the package

- if you or the recipient violate any of the terms of our Agreement
- for loss or damage to shipments of prohibited items
- for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts of public authorities with actual or apparent authority.

Declared Value Limits

- The highest declared value allowed for FedEx Letter and FedEx Pak shipments is \$500.
- For other shipments, the highest declared value allowed is \$50,000 unless your package contains items of "extraordinary value," in which case the highest declared value allowed is \$500.
- . Items of "extraordinary value" include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in our Service Guide.
- You may send more than one package on this Airbill and fill in the total declared value for all packages, not to exceed the \$100. \$500 or \$50,000 per package limit described above, (Example: 5 packages can have a total declared value of up to \$250,000.) In that case, our liability is limited to the actual value of the package(s) lost or damaged, but may not exceed the maximum allowable declared value(s) or the total declared value, whichever is less. You are responsible for proving the actual loss or damage.

Filing A Claim YOU MUST MAKE ALL CLAIMS IN WRITING and notify us of your claim within strict time limits set out in the current Service Guide.

We'll consider your claim filed if you notify our Customer Service Department at 1.800. Go-FedEx and make your claim in writing as soon as possible.

Within 90 days after you notify us of your claim, you must send us all the information you have about it. We aren't obligated to .act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges. A SAME AND A STATE OF THE

If the recipient accepts your package without noting and damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing available for inspection.

Right To Inspect We may, at our option, open and inspect your packages before or after you give them to us to deliver.

Right Of Rejection We reserve the right to reject a shipment when such shipment would be likely to cause delay or damage to other shipments, equipment, or personnel or if its shipment is prohibited by law; or if the shipment would violate any terms of our Agreement or our current Service Guide.

C.O.D. Services C.O.D. SERVICE IS NOT AVAILABLE WITH THIS AIRBILL. If C.O.D. Service is required, please use a Federal Express C.O.D. Airbill.

Air Transportation Tax Included A federal excise tax when required by the Internal Revenue Code on the air transportation portion of this service, if any, is paid by us.

Money-Back Guarantee In the event of untimely delivery, Federal Express will at your request and with some limitations. refund or credit all transportation charges. See current Service Guide for more information.

Freight Services There are several freight service options, depending on your transit time needs.

- FedEx Overnight Freight: Next business-day service to all points in the 48 states; rates are based upon the distance shipped.
- FedEx 2Day Freight: Second business-day service to all points in the 48 states; rates are based upon the distance shipped.
- FedEx Express Saver Freight: Up to 3 business-day service to all points in the 48 states; rates are based upon the distance shipped.

Part #150364/150365 • Rev. 5/97

xx Enclosed

RECEIVED

EB - 0001723 AA - 0002820 LB - 0001723

AUG 0 4 1997

727 South 14th Street
Leesburg, Florida 34748

DEF

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

Department of Environmental Protection 3804 Coconut Palm Drive Tampa, FL 33619

Date: August 4, 1997

Job No.: 921100.004

Attention: Ms Susan Pelz

RE: Composting Facility Expansion-Digester (RAI)

under separate cover via the following items:

GENTLE	MEN:
--------	------

WE ARE SENDING YOU

TO:

Shop Dr	awings	gs _ Prints _ Plans _ Samples _ Specifications				
Copy of	Letter	_ C	hange Order			
Copies	Date	No.	Description			
6 :			APPLICATION TO RENEW OPERATING PERMITS FOR SUMTER COUNTY RECYCLING, COMPOSTING AND PROCESSING FACILITY - Solid Waste Management Facility Permit - Operation of a Solid Waste Facility for the Production of Compost Permit - Waste Tire Collection Center Permit			
3	1		Checks in the amount of \$100.00 each to cover fees for above referenced permit application			

THESE ARE TRANSMITTED as checked below:

_ For Approval	_ Approved as submitted	_ Approved for payment	
_ For your use	_ Approved as noted	_ Resubmit copies for approval	
_ As Requested	_ Returned for corrections		
_ For Review and (Comment		
		•	

_ Material and/or prints returned after loan to us

REMARKS

COPY TO:

Garry Breeden-Sumter County Terry Hurst-Sumter County Mitch Kessler-TIA SIGNED:

David W. Springstead, P.E.

Bound report attached

May 29, 1992

SUMTER COUNTY SOLID WASTE FACILITIES PERMIT NO.:

8060-211179 - SOLID WASTE COMPOSTING

WT60-211205 - WASTE TIRE STORAGE

8060-211182 - M.R.F.

8F60-211255 - LONG-TERM CARE

SC60-211181 - LEACHATE TREATMENT

91-1100.00

Sampling of groundwater, leachate and compost will be done by Springstead Engineering, Inc. in accordance with Springstead Engineering, Inc.'s (SEI) Comprehensive Quality Assurance Plan_(ComQAP) #920119G. A letter dated May 1, 1992 from Sylvia S. Labie, QA Officer, Quality Assurance Section, FDER, Tallahassee states that ComQAP #920119G has an approved pending status and that work may be performed for the following sampling activities: Groundwater, Surface Water, Wastewater, Potable Water, Soil, Sediment and Domestic Waste Sludges. A copy of the letter is presented in Appendix B.

Analysis of the samples shall be performed under Flowers Chemical Laboratories' (FCL) approved ComQAP #860008G.

A compost sampling and analysis QAPP is currently being completed by SEI and FCL.

3. Updated financial responsibility cost estimates for long-term care of the closed landfill. Approved cost estimates will be forwarded to Mr. Fred Wick of the Solid Waste Section in Tallahassee. You are requested to work directly with him to obtain approval of Sumter County's financial responsibility documents.

The closed Class I Landfill located at the Sumter County Solid Waste Management Facility was closed in three (3) phases. Certification of closure, closure meaning the cessation of operation (see Rule 17-701.020 (12), F.A.C.), for the separate phases were issued as follows:

Phase I - December 11, 1989;

Phase II - May 24, 1990;

Phase III - March 5, 1990.

Solid Waste Section Permitting Application

PROJECT INFORMATION
Site Name: Sumten County Vol. Red. & Land Fill
Site #: 22926 - 002
Address: Mi SE I-75 & SR 470
County/Code: Sum ton 160
Project Name: Sumten Co Landfill Long-Term Care
Type: SF Subtype: Description:
Fee Received:/00.00 Correct ()
Needed/Refund \$
Fee Checked By: Date:
RELATED PARTY INFORMATION
Role: Applicant
Name: GARRY Breeden
Address: 319 E. Anderson Ave, B
Company: Suntan County Public Worles Dept.
City: Bushwell State: FL Zip: 335/3
Phone: 352-793-0240 Fax:

Pelz_S

Processor:



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

March 5, 1990

Mr. Garry Breeden, Director Sumter County Public Works 222 East McCollum Avenue Bushnell, Florida 33513

Re: Certification of Phase III Cell Closure

Permit No.: SF60-146475

Sumter County Class I Sanitary Landfill

Dear Mr. Breeden:

On February 22, 1990, the Department of Environmental Regulation inspected the Sumter County Class I Sanitary Landfill Phase III Closure to ensure its development in accordance with the approved permit. Certification of Construction Completion was received on February 7, 1990.

Present at the February 22, 1990, inspection were Kim Ford and Ernest Weeks. The Department determines that the Phase III closure is developed in accordance with the approved permit.

Sincerely,

Ernest G. Weeks

Engineer I

Solid Waste Section

Division of Waste Management

EGW/ab

cc: Paul Bradley, P.E., Springstead Engineering



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

December 11, 1989

Mr. Garry Breeden, Director Sumter County Public Works 222 East McCollum Avenue Bushnell, Florida 33513

Re: Certification of Phase I Cell Closure

Permit No.: SC60-146475 Inspection of New Lined Cell

Sumter County Class I Sanitary Landfill

Dear Mr. Breeden:

On December 6, 1989, the Department of Environmental Regulation inspected the Sumter County Class I Sanitary Landfill Phase I Closure to ensure its development in accordance with the approved permit. Certification of Construction Completion was received on October 25, 1989. The Department determines that the Phase I closure is developed in accordance with the approved permit.

Regarding the new lined cell on site, we are concerned over the siting of the lift station inside the lined area of the new cell. This is a major deviation from the approved plans and we have no record drawings showing this change. Please submit an explanation for this deviation along with record drawings and a description of the measures taken to ensure that the lift station will not cause leakage through the newly installed liner. The Department does not approve the use of the new lined cell.

Sincerely,

Ernest G. Weeks

Engineer I

Solid Waste Section

t b. Weeks

Division of Waste Management

EGW/ab

cc: Paul Bradley, P.E., Springstead Engineering

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION SOUTHWEST DISTRICT

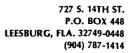
SITE INSPECTION REPORT

NAME OF SITE: SUNTER COUNTY LANDFILL	DATE: 12-6-89
ADDRESS OF SITE: APPX. I M. E. of 1-75 ON CR 470	MODULE:
PERMIT INVOLVED: REGILE RECOVERY AND MANAGEMENT FACILITY	y PERMIT #: SC60-146475
PURPOSE OF TRIP: TO LOOK AT LONGUITED LANDE	FILL CELL CLOSURE AREA AND
NEW CELL LINER INSTALLATION AMORA	
PERSONS CONTACTED: (GARY BREEVEN	
OTHER PERSONS PRESENT: Tomy Hunst	
VIOLATIONS NOTED:	
VIOLETIONS NOTES.	
SUMMARY REPORT: PHASE I LUSSING ARGA	APPEARS TO APPEARATELY
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SPRINGSTEAD ENCINEERING, INC.

Consulting Engineers - Planners - Surveyors





P.O. BOX 1448 BUSHNELL, FLA. 33513 (904) 793-3639

				,		Cacatanas		
TO.	Mr. Kim	Ford			DATE	10/24/89	JOB NO.	C-103
10			Environmental R	degulation	ATTENT	ION Mr. Kim F	ord'	
			Boulevard					
	Tampa, F	lorida	33610-7347		RE S	Sumter County	Landfill	
							e.	
GENTLE	MEN.							
GENTLE	.mcN. WE ARE SE	ENDING YO	U ☑ Attached	Under senar	ata covar via			the following items:
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1	7/13/89		Site Plan, Pha					10.11
1	2/13/89		Gas vents local Sheet 2 of 3	itions and p	rofiles, P	nase I, Sumter	County I	andfill,
1	2/14/89		Gas vent detai	1, final co	ver detail,	, Sumter Count	y Landfil	1,
			Sheet 3 of 3					
								
THESE	ARE TRANSMI	TTED as ch	ecked below:	,•				•
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COPY TO

Lyle R. Powell, Project Manager

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SIGNED:



D. E. R.

OCT 25 1989

Paul Bradley, P.E., FL Reg. No. 35481 10-24-89

DEPARTMENT OF ENVIRONMENTAL REGULATSOUTHWEST DISTRICT TAMPA FOR APPLICATION TO OPERATE ONLY RESOURCE RECOVERY AND MANAGEMENT FACILITY

CERTIFICATION OF CONSTRUCTION COMPLETION

DER Construction	on Permit No.:SC	360-1464/5		County: Sumter	
Name of Project:	Sumter County	/ Landfill-Phase I	Cell Liner		
Name of Owner:	Sumter County	Commissioners, 2	09 North F1	orida Street, Bushnell, Fl. 335	13
.Name of Enginee	r Springstead E	Ingineering, Inc.,	P.O. Box 4	90448, Leesburg, Fla. 34749-044	8
Type of Project:	Landfill cell	closure-installat	ion of cell	liner	
	·				
Cost: Estimated	s 100,000.00	<u> </u>		Actual \$ 114,010,63	
Site Design:	Quantity: 105		ton/day	Site Acreage: 10+	Acres
	Population: 30,00	00.		Dumping Fee: S 16,00/	Ton
Deviations from I				s are noted on the Record	
Drawings				·	
	· .		·		
Water Monitoring	Data Submitted to C	December	, 1986, Qua	rterly thereafter	
	•			epartment, 222 East McCollum	
				tely one (1) mile east of I-75	
		(904) 793-3368			
Name(s) of Size S	Garry	Breeden, Tommy Hu	ırst		
_	•	-		We would appreciate advance not	 ifi-
				on. cat: uction of the project has been completed in 30	
					(Carcar Ca
with the plans au	thorized by Canstruct	tion Permit No.: SC60-1		·- Uared:	
	•			0 100	
Date:	-24-89			Paul Bradles	
•				Signature of Professional Engineer	



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUEST FOR ADDITIONAL INFORMATION
SUMTER COUNTY LANDFILL
LONG-TERM CARE PERMIT RENEWAL
PENDING PERMIT NO. 22926-002-SF, SUMTER COUNTY

PREPARED FOR



SUMTER COUNTY
BOARD OF COUNTY COMMISSIONERS
209 NORTH FLORIDA STREET
BUSHNELL, FLORIDA 33513

January 23, 1998

921100.008

Springstead Engineering, inc.

Consulting Engineers - Architects - Planners - Surveyors
727 South 14th Street
Leesburg, Florida 34748
Lake (352) 787-1414
Sumter (352) 793-3639
Fax (352) 787-7221

January 23, 1998

Ms. Allison Amram, P.G.
Solid Waste Section
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

EB - 0001723
AA - 0002820
LB - 0001723

Take - 0001723

LB - 0001723

Take - 0

RE:

Sumter County Landfill, Long-term Care Permit Renewal Pending Permit No. 22926-002-SF, Sumter County

Dear Ms. Amram:

We are in receipt of you Request for Additional Information dated December 23, 1997 for the above referenced project, please note the following responses:

1.N3e. This comment has been adequately addressed.

Appendix B:

- 1. The November 25, 1997 submittal states, "The general overall condition of the asphalt cover is good. The overall drainage design for the landfill, in general, is effective and has operated as designed." The purpose of final cover is to minimize infiltration and subsequent leachate generation. During recent inspections, the Department has observed several areas with significant cracks in the asphalt and settlement/subsidence of the underlying landfill. This settlement has resulted in poor drainage in some areas. The Department does not believe that the cover was designed to have cracks which may allow infiltration of liquids, or have subsidence/settlement which may cause ponded water on the asphalt.
 - a. Please provide the <u>basis</u> for the conclusions that the "asphalt cover is in good conditions" and "the drainage design of the landfill has been effective..." if significant cracks, subsidence, and ponded water have been observed in the asphalt covered areas.
 - a. The basis for the conclusions are a walk over performed on the asphalt cover. Areas were observed, as DEP states, with cracks, settlement, and ponded water. These areas are currently under repair. The majority of the asphalt cover is not cracked, has not settled, and does not hold ponded water. The stormwater which falls onto this area is shed to the water retention area as

January 23, 1998 Ms. Allison Amram, P.G. FDEP Sumter County Landfill
Long-term Care
Pending Permit No. 22926-002-SF

Page 2

designed. Although there are areas which need and have received repair, the overall general condition of the asphalt cover is good.

- b. Please provide specific maintenance procedures (including timeframes for implementation) for ensuring that the asphalt cover is intact and functioning properly. an "annual visual observation" of the pad does not seem to be sufficient to ensure that the landfill cap is adequately maintained and functioning.
- b. Workers on the asphalt cover area are instructed to notify the Facility Director immediately if an irregularity which would prevent the asphalt cover from functioning properly is observed. The facility director then inspects the area of concern to determine if repairs are necessary. The facility director will notify the Director of Public Works to schedule repairs to the cover. The facility director or assistant director will inspect the asphalt cover, at least quarterly, to determine if repairs are necessary.
- c. When the asphalt repairs are completed for the entire landfill area, place notify the Department to arrange a site inspection. The Department may not consider the pending permit application to be complete until the repairs have been completed and approved by the Department.
- c. The asphalt repairs have been completed at this time.
- 3. FAC 17-701.073(6)(c)3. (effective 7-1-85) requires that the closure (or long-term care) plan include provisions for the filling of "areas of subsidence or other depressions [and] general maintenance of the facility..." The November 25, 1997 submittal did not include procedures for maintaining the non-asphalt-covered areas of the landfill.
 - a. Please provide procedures for the filling of low areas and general maintenance of the facility. These procedures should include, but not be limited to, the type of maintenance activity e.g. mowing, regrading, re-paving, monitoring activities, etc.) and minimum frequency for the activity. Please provide these procedures for maintaining all portions of the landfill facility.
 - a. The general maintenance procedures are presented on the attached sheet.

January 23, 1998 Ms. Allison Amram, P.G. FDEP Sumter County Landfill Long-term Care Pending Permit No. 22926-002-SF

Page 3

- O4: This declaration must be submitted to complete this application. Please notify the FDEP of the status of this item in future correspondence.
- O4. This will be sent to the Department upon receipt.
- Q. This comment has been adequately addressed.
- 2. The 1997 gas migration results are required to complete the application.
- 2. The gas migration report was forwarded to the Department on December 18, 1997. A copy of the report is attached.

Ground Water Monitoring Plan Evaluation

- 4. This comment has been adequately addressed.
- 5. This comment has been adequately addressed.
- 8. The FDEP currently has the proposed ground water monitoring plan to include the following quarterly monitoring for:

FIELD PARAMETERS

LABORATORY PARAMETERS

рH	Aluminum	Cyanide	Iron
Specific Conductivity	Arsenic	Nickel	Manganese
Temperature	Barium	Nitrate	Sulfate
Color (by observation)	Cadmium	Nitrite	Total Dissolved Solids
Static Water Level	Chromium	Selenium	Foaming Agents
before purging	Fluoride	Thallium	Ammonium
Turbidity	Lead	Silver	Zinc
	Mercury	Sodium	Gross Alpha
	Selenium	Chloride	Radium-226 +
	Antimony,	Copper	Radium-228
	Beryllium		

January 23, 1998 Ms. Allison Amram, P.G. FDEP

Sumter County Landfill Long-term Care Pending Permit No. 22926-002-SF

Page 4

Annual monitoring for the quarterly parameters, plus the Volatile Organic Compounds, Pesticides, PCB's, and Trihalomethanes listed in the Primary Drinking Water Standards, FAC Rule 62-550.310 (attached).

Please confirm these parameters and frequencies. The wells to be sampled are MW-1, MW-2, MW-4, MW-6a, MW-7, MW-8 and MW-9.

The parameters listed and the frequency for sampling and testing are correct. All of the wells listed are to be sampled.

I trust this information meets your needs at this time. Should you have any questions, or require additional information, please contact our office.

Very truly yours, , , , , Springstead Engineering, Inc.

David W. Sprin

Engineer

Florida Registration No. 48229

DWS/jal

Garry Breeden - Sumter County cc: Terry Hurst - Sumter County Denise Reynolds - Sumter County

(January 23, 1998 - b:railtc.2)

General Maintenance for the Covered Area's of the Closed Class I Landfill

Area Covered with Liner, Soils and Grass.

The grass in these areas will be mowed at least once per month. The mower operators are instructed to avoid disturbing gas vents, monitoring wells and the wells used to perform the methane gas monitoring. The mower operators are also instructed to note and report to the facility director, any areas of significant subsidence. Through this process, the liner covered area is observed at least monthly.

If an area of subsidence is reported, the facility director inspects the location to determine if repair is necessary. If necessary, the facility director will notify the Director of Public Works to schedule repairs. The facility director or assistant director will personally ride the grassed area quarterly to observe for areas of subsidence.

Repair of subsiding areas will consist of filling the subsiding area with soil material to match the existing slope of the cover, and replanting the disturbed area with grass seed. The area of subsidence will be noted on a map by the facility director for future reference if the area continues to subside.

Area Covered with Asphalt

Workers in the asphalt cover area are instructed to notify the facility director immediately if an anomaly which would prevent the asphalt cover from functioning properly is observed. This provides daily observation of the asphalt covered area. If a location is observed in the asphalt which might be subsidence, the staff worker will notify the facility director. The facility director will inspect the location to determine if repair is necessary. If necessary, the facility director will notify the Director of Public Works to schedule repairs. The facility director or assistant director will personally ride the asphalt covered area quarterly to observe for areas of subsidence.

Repair of subsiding areas will consist of filling the subsiding area with limerock or recycled asphalt material and covering the area with an impervious layer of asphalt to match the existing slope of the cover. The area of subsidence will be noted on a map by the facility director for future reference if the area continues to subside.

METHANE GAS MIGRATION SURVEY

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY

SUMTER COUNTY, FLORIDA

CONDUCTED FOR

SUMTER COUNTY BOARD OF COMMISSIONERS



CENTRAL TESTING LABORATORY

LEESBURG, FLORIDA

DECEMBER 1997 9784004.300 **Engineering and Materials Testing**

Reply to:

December 18, 1997

Leesburg

Mr. Garry Breeden, Director of Public Works Sumter County Public Works Department 319 E. Anderson Avenue Bushnell, FL 33513

RE: Gas Migration Study Report

Gas Monitoring In and Around Buildings Sumter County Solid Waste Management Facility

9784004.300

Dear Mr. Breeden:

As is required by specific condition of the permit, Central Testing Laboratory (CTL) performed a gas migration study at the above referenced facility on December 17, 1997. Permanent monitoring assemblies were installed, October 5, 1994, at various locations at the facility. The locations are shown on the aerial photograph presented in Appendix A. The purpose of this study is to determine if generation and possible migration of combustible gases occur at the closed Class I Landfill.

The monitoring assemblies were placed at sampling locations chosen to detect methane gas migrating off areas of the subject site to areas of concern which include the structures. The sampling location within the structures were based upon accessibility. At all locations sampled within the buildings no methane gas was detected. The sampling locations were analyzed by inserting a probe of a Foxboro Organic Vapor Analyzer (OVA), Model 128, (Serial Number A41775) through a rubber stopper then inserting the rubber stopper into the top of the monitoring assembly. The meter on the OVA was visually monitored, allowing the meter to stabilize. The OVA was calibrated using air and 100 ppm methane (CH₄) in air. The results of the OVA analysis are tabulated in the table entitled <u>Gas Migration Survey -December 17, 1997</u>, presented below.

Florida Department of Environmental Protection (FDEP) has requested that the OVA test results be converted to percentage of Lower Explosive Limit (LEL) for methane. The LEL for methane reported in various publications is 5.0 percent. This value was used to make the conversion from percent methane to percent LEL of methane. To simplify, divide the ppm methane by 50,000 to obtain percent LEL of methane.

Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9784004.300

December 18, 1997

GAS MIGRATION SURVEY DECEMBER 17, 1997		
MONITORING POINT N ^o	ppm CH₄	%LEL CH ₄
M-1	0	0
M-2	0	0
M-3	0	0
M-4	1.2	2.4-5
M-5	0	0
M-6	0	0
M-7	0	0
M-8	0	0
M-9	1.8	3.6-5
M-10	0	0
M-11	0	0
M-12	0	0
M-13	0	0
M-14	0	0

Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9784004.300

December 18, 1997

GAS MIGRATION SURVEY DECEMBER 17, 1997			
MONITORING POINT N°	ppm CH₄	%LEL CH4	
M-15	14	2.8-4	
M-16	0	0	
M-17	.5	1.0-5	
M-18	0	0	
M-19	0	0	
M-20	2.2	4.4 ⁻⁵	
M-21	0	0	
M-22	0	0	
M-23	0	. 0	
M-24	0	0	
M-25	.2	4.0-6	
M-26	1.3	2.6-5	
M-27	3.5	7.0 ⁻⁵	
M-28	0	0	
M-29	0	0	

Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9784004.300

December 18, 1997

Based upon the results of the tests conducted as part of this gas migration survey, it is CTL's opinion that the existing gas venting system is functioning satisfactorily and that no recommendations for additional measures or corrective actions are required at this time.

We hope that the provided information meets your needs at the present time. Should you have any questions, or if you require additional information, please contact our office.

Very Truly Yours, Central Testing Laboratory

...

Judi M. Kelch Environmental Technician David W. Springstead, P.E.

Engineer

Florida Reg. No. 48229

APPENDIX A



DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUEST FOR ADDITIONAL INFORMATION

SUMTER COUNTY LANDFILL, LONG-TERM CARE PERMIT RENEWAL PENDING PERMIT NOS: 22926-002-SF, SUMTER COUNTY

PREPARED FOR



SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS 209 NORTH FLORIDA STREET BUSHNELL, FLORIDA 33513

Öctober 1, 1997

921100.008

Springstead Engineering, inc.

Consulting Engineers - Architects - Planners - Surveyors 727 South 14th Street Leesburg, Florida 34748 Lake (352) 787-1414

Sumter (352) 793-3639

Fax (352) 787-7221



EB - 0001723 AA - 0002820 LB - 0001723

727 South 14th Street Leesburg, Florida 34748

Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221

October 2, 1997

Ms. Allison Amram, P.G. Southwest District - Solid Waste Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619

RE: Sumter County Landfill, Long-term Care Permit Renewal

Pending Permit No. 22926-002-SF, Sumter County

SEI File No. 921100.000

Dear Ms. Amram:

We are in receipt of your Request for Additional Information dated September 2, 1997 regarding the above referenced project; please find the following responses:

- 1. Solid Waste Management Facility Permit application: Please complete the following sections (and provide the required supporting data/reports) as they pertain to the closed landfill: B3, B8, B21, N3d, N3e, O4, O6, and Q. Section B contains general information concerning the closed landfill; Section N requires an engineering evaluation of the existing closed landfill systems (gas and water quality monitoring, cover conditions, stormwater control, etc.); Section O concerns the current use of the landfill areas (vacant land and recyclable storage only?) as well as documentation in the property deed that a landfill is present (see attached rule language from 17-701.074(4), dated December 10, 1985); and Section Q requires information about the financial responsibility accounts.
- 1. See the following responses:
 - B3) Disposal area 110 acres; used 60 acres, available 50 acres.
 - B8) The types of waste received include:
 - 1. Residential
 - 2. Commercial
 - 3. Yard Trash
 - 4. Domestic Sludge for current composting process
 - B21) The closed landfill unit has a natural soil bottom.
 - N3d) Gas migration survey reports have been performed each year and submitted to FDEP. A copy of the report for 1996 is presented in Appendix A. These reports have indicated that landfill gasses are not present in the closed portion of the landfill.

- N3e) The report addressing the effectiveness of the landfill design is presented in Appendix B.
- O4) A declaration is being prepared by the County Attorney for submission to DEP.
- O6) The closed landfill areas are not in use at this time with exception of Phase III which is used for recyclables storage. The cover over Phase III consists of asphaltic concrete.
- Q1) Long term care costs for a third party to perform the work are attached.
- Q2) Annual cost adjustments will be made by using the Department's cost increase percentage or a percentage of 2% per year whichever is lower.
- Q3) Sumter County established an escrow account for the facility on September 29, 1992.
- 2. Based on the text provided, the FDEP understands that the applicant wishes to continue with the annual gas surveys. This is acceptable to FDEP.
- 2. The results of the past two (2) years of methane gas migration reports indicate that the amount of gas measured at the facility is below the detection limits in all areas except the tipping floor of the MRF building. Based on the measurements and the fact that the landfill is approximately ten (10) years old at this time, we request that the requirement for annual gas monitoring be deleted.
- 3. The ground water parameters missing from the last quarterly sampling event (listed in your August 20, 1997 letter to Ms. Danielle Nichols) are included in the EPA 601 parameter list. These parameters are part of the required sampling parameters and must be included in future sampling events. For your reference, the EPA 601 and 602 parameters as listed in 40 CFR, Part 136, Appendix A are attached to this letter.
- 3. The groundwater parameters will be included on future sampling events.

GROUNDWATER MONITORING PLAN EVALUATION

- 4. Appendix A, Groundwater Elevation Contours Maps. Please provide the groundwater elevation at each measurement point, and include the outline of the closed landfill and other pertinent structures in this area.
- 4. The revised maps are presented in Appendix C.
- 5. The evaluation included data from the past year only. The evaluation should include sampling events that occurred after those included in the May 1994 ground water evaluation.
- 5. The data for the last three (3) years is presented in Appendix "D".
- 6. A request to decrease sampling frequency must be supported by site-specific ground water flow velocity calculations. Please submit this data with supporting calculations. Well testing should be conducted on a representative number of wells.

- 6. At this time, we do not request a decrease in the frequency of the groundwater monitoring testing.
- 7. The evaluation stated that turbidity is a problem during some sampling events. Wells that are purged with bailers often exhibit higher turbidity than wells purged with pumps. If the wells are purged with bailers, the applicant may want to instruct the samplers to gently lower the bailers in and out of the wells. If problems persist, the applicant may wish to have the wells redeveloped, or institute another method for purging the wells.
- 7. Response is noted.
- 8. If the applicant would like to reduce the parameter list, a proposed list must be submitted along with rationale for the proposed changes.
- 8. We request that the Volatile Organic Compounds and Pesticides and PCB's portion of the primary drinking water standards be deleted from the monitoring well testing requirements. Throughout the past five (5) years of testing, a minimum number of hits have been detected of these compounds and only on very few occurrences have compounds having levels above MCL been detected. In these instances the level was BDL or below MCL on the next sampling. Based on the age of the landfill it is our opinion that it is unlikely that these compounds will be detected in the future.

Should you have any questions, please contact our office.

Very truly yours,
Springstead Engineering, Inc.
David W. Springstead, D. E.
Engineer
Florida Registration No. 48229

DWS/jal

cc: Garry Breeden - Sumter County
Terry Hurst - Sumter County
TIA Solid Waste Management
Denise Reynolds - Sumter County

(October 2 - a:amram.rai)

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FINANCIAL ASSURANCE COST ESTIMATES

A Section 1				Date:	10/1/9/	
			Date of	FDEP Approval:		
L GENERAL I	INFORMATION	V:				
Facility Name:	Sumter Coun	ity Rec	ycling,	, Processing	GMS No.:	4060C00092
Permit No.:	-				Expiration Da	te: Pending
Address (facility):835 CR_5	29 Sum	tervil	Le, Florida	33585	
Address (mailing	g):319	Ander	son Ave	enue, Bushne	ll, Florida	33513
Permittee (opera	ting authority):	Sumte	r Count	cy Public Wo	orks	
Facility	Lat. <u>28-44</u>	-30	Long.	82-05-20	or UTM's	·
with impe	ne Solid Waste Di	, meth	iane vei	nts and moni		sttom landfill unit
Type of Landfill	: <u>X</u>	_ Class I		Class I	II	
Exempt	Type of Exempt	tion:	····			
Closure Plan Ap	proved: Yes	1	NX			•
II. TÝPE OF F	'INANCIAL DO	CUMEN	T SUBM	ITTED TO EN	SURE FINANC	IAL ASSURANCE:
Trust Fund	Agreement	Per	rformance	Bond (only for I	andfills with an	approved closure plan)
Letter of Cre	edit	Sta	andby Trus	st Fund Agreeme	ent	
Insurance C	ertificate	XX Es	crow Acco	ount		•
Financial G	uarantee Bond	Oti	her (Expla	in)		

IV. ANNUAL COST FOR LONG-TERM CARE

(for 20 or 30 yrs., see 17-701.600(1)a.1.) (circle one)

- **Third Party Estimate/Quote must be provided for each item
- **Costs must be for a third party providing 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	ANNUAL CO	
	(A)	(B)	(C)	(D)=(A)x(B)x(B)	(C)
1. Groundwater Monitoring 17-701.510(6), (8)(a)	sampling frequency events/yr	# of wells	\$/well/event	\$/y r	
Monthly			\$652	\$18,256	
Quarterly					
Semi-Annual					
Annual					A.O. 056
		Subto	tal Groundwater N	Monitoring	\$18,256 ————————————————————————————————————
2. Gas Monitoring 17-701.400(10)	sampling frequency events/yr	# of locations	\$/location/event	\$/yr	
Monthly					•
Quarterly					
Semi-Annual					
Annual	1		\$27.50	\$800	
		S	ubtotal Gas Migra	tion Monitoring	\$800 3
3. Leachate Monitoring 17-701.510(5), (6)(b), 17-701.510(8)(c) Monthly	sampling frequency events/yr	# of locations	\$/location/event	\$/yt 	
Quarterly					
Semi-Annual	2	1.	\$1055	\$2110	
Annual					
			Subtotal Leach	ate Monitoring	\$2110.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST	k **
	(A)	(B)	(C)	(D)=(A)x(B)x(C)	
4. Surface Water Monitoring 17-701.510(4), (8)(sampling frequency b) events/yr	# of locations	\$/location/event	\$/yr	
Monthly		,	-	<u> </u>	
Quarterly					
Semi-Annual					
Annual				<u> </u>	
		Subto	tal Surface Water	Monitoring	\$0
5. Maintenance of Lea	chate Collection/	Treatment Systems			
Collection Pi	pes LF				
Sumps, Traps	s EA				
Lift Stations	EA		 .		
Impoundmen Liner Rep					
Sludge Re	moval CY				•
Aeration Syst Floating A	ems- cerators EA				
Spray Aer	ators EA				
Off-Site Disp	osal 1000gal		To the state of th		
On-Site Pretr System M	eatment aintenance-(Desc	ribe)			

Other (Descri	be)-				
	Subtotal Léac	chate Collection/Tre	eatment System M	[aintenance	\$2000

(A)	QUANTITY (B)	(C)	ANNUAL COS1** $(D)=(A)x(B)x(C)$	
ater LF			4-2-	
Subto	otal Groundwater N	Monitoring Well M	Maintenance	\$0
ation Syster	n			
LF				
EA				
EA		·		
EA		· 		
	Subtotal Gas M	Aigration System	Maintenance	\$200
AC				
AC				
AC				
	Subto	tal Landscape Ma	intenance	\$1305
EA				
	Subto	tal Benchmark M	aintenance	\$260
HR				
LS ,				
ig, etc.		Subtotal Admi	nistrative	\$0
	AC AC AC AC AC HR HR HR HR HR	A) (B) ater LF Subtotal Groundwater R ation System LF EA EA Subtotal Gas N AC AC AC AC AC AC AC HR HR HR HR HR HR LS	AC AC AC AC Subtotal Landscape Ma EA Subtotal Benchmark M HR HR HR HR LS Ag, etc.	AC AC AC AC Subtotal Gas Migration System Maintenance EA Subtotal Landscape Maintenance EA Subtotal Benchmark Maintenance HR HR HR HR HR HR

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL CO $(D)=(A)x(B)x(B)$	
11. Maintenance of Co	over			•	
Sodding, Soil	I AC				
Regrading	AC				
Liner Repair- Synthetic	SY				
Clay	CY		·		
		Subtot	al Cover Integrity	Maintenance	\$1050
12. Surface Water Dra	inage Maintenance				
Ditch Cleaning	ng LF				
Stormwater Conveyan	EA ce Maint.	Subtot	al Drainage Mair	ntenance	\$0
13. Security System M	faintenance				·
Fences	LF				:
Gate(s)	EA				
Sign(s)	EA				40
		Subtot	al Security Syster	m Maintenance	\$0
14. Remedial Actions	LS		Subtotal Reme	dial Actions	\$0
15. Site Specific Costs	(explain):				
	-	_			
		– Subtot	al Site Specific C	osts	\$0
		LONG-TERM	CARE COSTS (§	:/yr)	\$25,981

TOTAL LONG-TERM CARE 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 17-701.630 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).

	727 S. 14th Street
Signature	Mailing Address
David W. Springstead, P.E., Engine	er Leesburg, Florida 34748
Name and Title (please type)	City, State, Zip Code
	•
48229	(352) 787-1414
Florida Registration Number (please affix seal)	Telephone Number
	Date: 10/1/97

APPENDIX A

Central Testing Laboratory

Engineering and Materials Testing

Reply to:

December 31, 1996

Leesburg

Mr. Garry Breeden, Director of Public Works Sumter County Public Works Department 222 East McCollum Avenue Bushnell, FL 33513

RE: Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9684452.300

Dear Mr. Breeden:

As is required by specific condition of the permit, Central Testing Laboratory (CTL) performed a gas migration study at the above referenced facility on December 6, 1996. Permanent monitoring assemblies were installed, October 5, 1994, at various locations at The locations are shown on the aerial photograph the facility. presented A diagram showing the in Appendix Α. typical construction of the monitoring assembly is presented in Appendix B. The purpose of this study is to determine if generation and possible migration of combustible gases occur at the closed Class I Landfill.

The monitoring assemblies were placed at sampling locations chosen to detect methane gas migrating off areas of the subject site to areas of concern which include the structures. The sampling locations were analyzed by inserting a probe of a Foxboro Organic Vapor Analyzer (OVA), Model 128, (Serial Number A41775) through a rubber stopper then inserting the rubber stopper into the top of the monitoring assembly. The meter on the OVA was visually monitored, allowing the meter to stabilize. The OVA was calibrated using air and 100 ppm methane (CH_4) in air. The results of the OVA analysis are tabulated in the table entitled <u>Gas Migration Survey - December 6, 1996</u>, presented below.

Florida Department of Environmental Protection (FDEP) has requested that the OVA test results be converted to percentage of Lower Explosive Limit (LEL) for methane. The LEL for methane reported in various publications is 5.0 percent. This value was used to make the conversion from percent methane to percent LEL of methane. To simplify, divide the ppm methane by 50,000 to obtain percent LEL of methane.

lika maga

Sumter County

Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9684452.300

December 31, 1996

GAS MIGRATION SURVEY DECEMBER 6, 1996								
MONITORING POINT N°	ppm CH ₄	%LEL CH ₄						
M-1	0 '	0						
M-2	0	0						
M-3	0	0						
M-4	0	0						
M-5	0 .	0						
M-6	360	7.2-3						
M-7	0	0						
M-8	0	0						
M -9	0	0						
M-10	0	0						
M-11	0	0						
M-12	0	0						
M-13	0	0						
M-14	0	0						

Gas Migration Study Report
Gas Monitoring In and Around Buildings
Sumter County Solid Waste Management Facility
9684452.300

December 31, 1996

GAS MIGRATION SURVEY DECEMBER 6, 1996								
MONITORING POINT N°	ppm CH ₄	%LEL CH ₄						
M-15	0	0						
M-16	0	. 0						
M-17	0	0						
M-18	0	0						
M-19	0	0						
M-20	0	0						
M-21	0	0						
M-22	0	0						
M-23	0	0						
M-24	0	0						
M-25	0	0						
M-26	0	0						
M-27	0	0						
M-28	0	0						
M-29	0	0						

Gas Migration Study Report _Gas Monitoring In and Around Buildings Sumter County Solid Waste Management Facility 9684452.300

December 31, 1996

Based upon the results of the tests conducted as part of this gas migration survey, it is CTL's opinion that the existing gas venting system is functioning satisfactorily and that no recommendations for additional measures or corrective actions are required at this time.

We hope that the provided information meets your needs at the present time. Should you have any questions, or if you require additional information, please contact our office.

Very Truly Yours, Central Testing Laboratory

Judi M. Kelch Environmental Technician

Florida Req. No. 48229

GAS MIGRATION SURVEY

AT

THE SUMTER COUNTY
SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA

APPENDIX A AERIAL PHOTOGRAPH SHOWING LOCATION OF GAS MONITORING POINTS



CENTRAL TESTING LABORATORY LEESBURG, FLORIDA

DECEMBER 1996 9684452.300

GAS MIGRATION SURVEY

AT

THE SUMTER COUNTY
SOLID WASTE MANAGEMENT FACILITY
SUMTER COUNTY, FLORIDA

APPENDIX B DIAGRAM OF GAS MONITORING POINT CONSTRUCTION

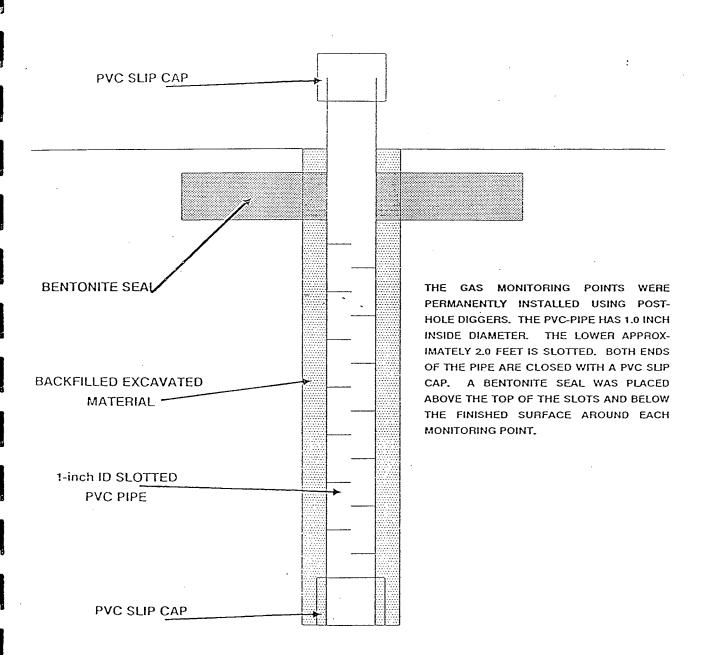


CENTRAL TESTING LABORATORY LEESBURG, FLORIDA

DECEMBER 1996 9684452.300



TYPICAL GAS MONITORING POINT CONSTRUCTION



APPENDIX B

Report of Effectiveness of Landfill Design

This report addresses the requirements of FAC 62-701.600(4)(e) for the closed landfill at the Sumter County Recycling, Processing and Composting Facility in Sumterville, Florida. The purpose of the report is to describe the effects of the landfill on adjacent ground and surface waters and the landfill area.

The results of the geotechnical testing on the landfill site and adjacent parcels not indicate any detrimental effects on the site or adjacent sites due to the landfill operation at the subject site. No settling or sloughing has occurred due to foundation support. Settlement has occurred on the top of the landfill due to degradation of the organic materials in the landfilled materials.

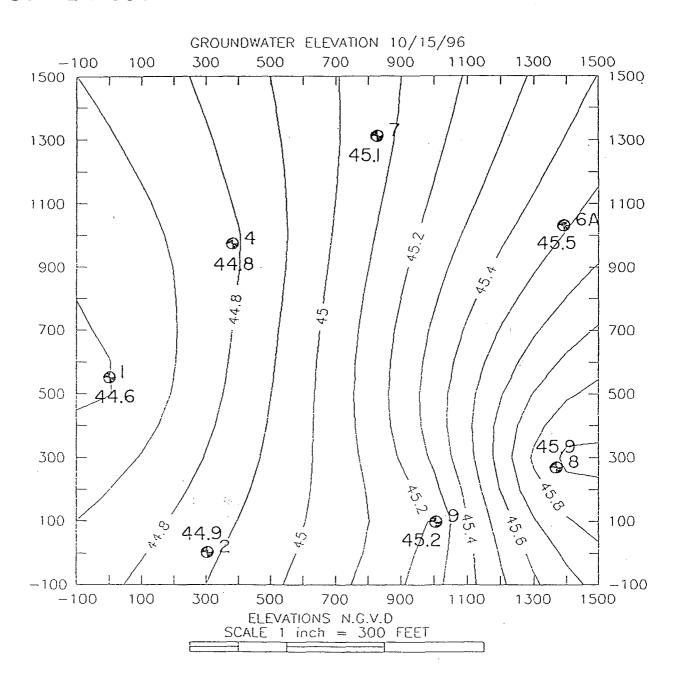
The drainage design of the landfill has been effective and has operated as designed. It is Springstead Engineering, Inc.'s opinion that the stormwater and drainage system will continue to operate properly in the future.

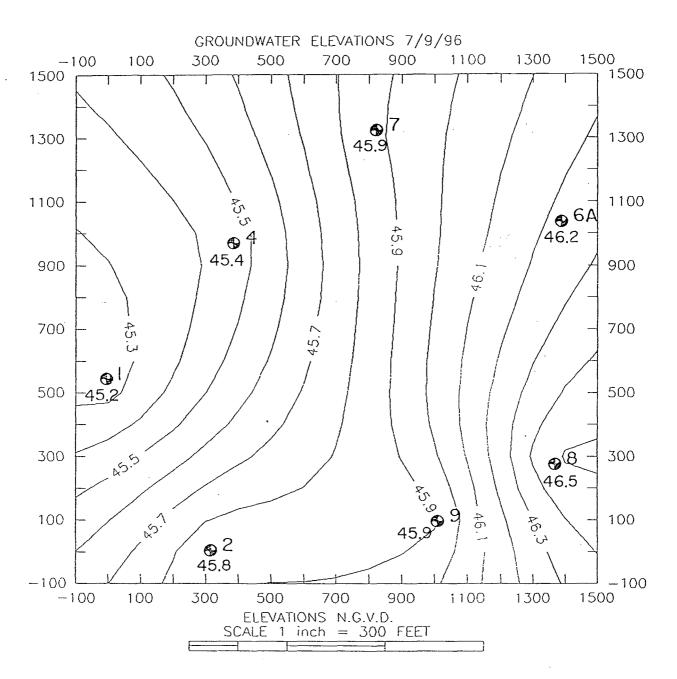
Based on the results of the gas migration studies performed for the site, the gas vents are in proper working condition and the landfill is exhibiting very low to no methane gas generation over the landfill cover.

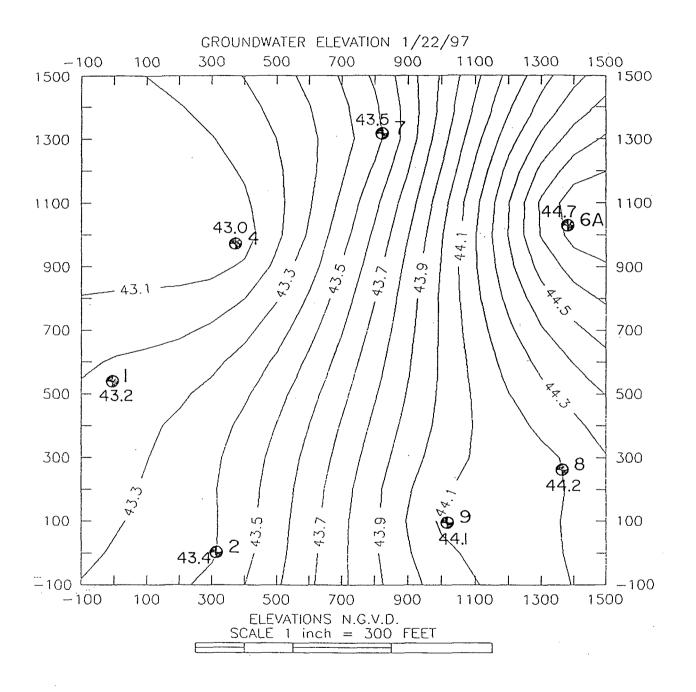
The existing cover for the closed landfill consists of 1 foot of sand over an impervious membrane for the majority of the site and an asphaltic concrete section cover over the remainder of the site. The sand/membrane cover is in very good condition, having a good stand of native grasses growing in the sand. This cover is effective for preventing the flow of water into the closed landfill system. The asphalt cover is in good condition. Several areas are unlevel due to settlement of materials which were landfilled. The asphalt covers are currently being releveled and repaved to prevent any ponding on the asphalt, and to reseal the cover. The asphalt cover is also effective for preventing the flow of water into the closed landfill system.

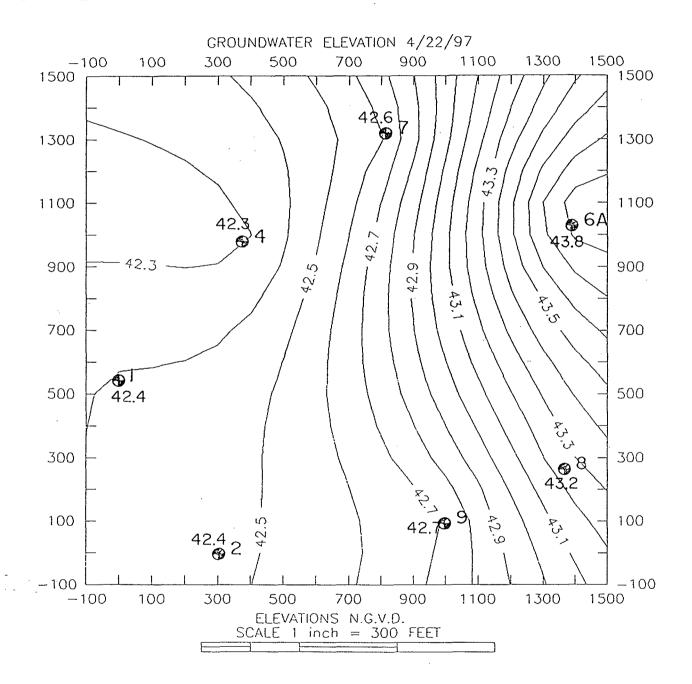
The waste disposed in the closed landfill consisted primarily of household waste with mixed with tree limbs and construction debris.

APPENDIX C









APPENDIX D

ALUMINUM mg/L MCL = 0.2 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	0.213	< 0.002	0.259	0.46	< 0.002	0.0506	0.205
10-01-94	0.386	0.279	0.331	1.36	0.105	2.59	0.575
01-01-95	0.512	0.065	0.652	1.01	0.448	0.109	0.246
04-01-95	0.3	0.052	0.172	0.225	0.185	0.0275	0.0855
07-01-95	0.476	0.227	2.83	0.71	0.767	0.263	0.41
10-01-95	0.614	0.379	0.648	1.18	0.122	0.265	0.362
01-01-96	0.53	0.399	0.429	0.924	0.492	0.232	0.368
04-01-96	1.42	0.764	5.7	4.71	1.38	0.429	0.559
08-01-96	1.5	0.839	2.81	11.9	28.5	3.75	1.59
10-30-96	2.17	0.179	1.41	0.367	0.11	0.592	0.162
02-11-97	0.29	0.189	1.02	0.337	0.303	0.401	0.194
05-19-97	0.243	0.023	0.073	0.117	0.192	0.022	0.024

AMMONIUM mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	< 0.01	< 0.01	0.348	< 0.01	< 0.01	0.916	< 0.01
10-01-94	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
01-01-95	< 0.01	0.0126	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
04-01-95	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.145	< 0.01
07-01-95	< 0.01	< 0.01	0.136	0.0134	0.0301	0.136	< 0.01
10-01-95	0.279	< 0.01	< 0.01	0.175	< 0.01	0.252	< 0.01
01-01-96	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.575	< 0.01
04-01-96	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.09	< 0.01
08-01-96	< 0.01	< 0.01	0.0348	< 0.01	< 0.01	0.0841	< 0.01
10-30-96	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0321	< 0.01
02-11-96	< 0.01	0.202	< 0.01	< 0.01	< 0.01	0.231	0.0289
05-19-97	0.0267	0.0209	< 0.01	< 0.01	< 0.01	< 0.01	0.0919

CADMIUM mg/I MCL = 0.005

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-04	0.0003	< 0.0001	0.0003	0.0014	< 0.000	0.0003	0.0019
10-01-94	0.00026	0.00019	0.00039	0.00243	0.00018	0.00087	0.00574
01-01-95	0.0003	0.0003	0.0012	0.001	0.0023	0.0065	0.0018
04-01-95	0.0004	0.0002	0.001	0.0005	0.0016	0.0003	0.0029
07-01-95	0.0006	0.0003	0.0061	0.0011	0.0019	< 0.0001	0.0044
10-01-95	0.0012	0.0022	0.005	0.0024	0.0022	0.0008	0.0025
01-01-96	0.0012	0.0017	0.0021	0.0036	0.0016	0.0024	0.0029
04-01-96	0.001	0.001	0.0022	0.002	0.0021	0.001	0.0014
08-01-96	0.00888	0.00895	0.00993	0.0133	0.0124	0.0129	0.00741
10-30-96	0.02	0.0104	0.004	0.0003	0.0006	0.0005	0.0022
02-11-97	< 0.0001	< 0.0001	0.00208	< 0.0001	0.00058	< 0.0001	< 0.0001
05-19-97	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

CHLORIDE mg/L MCL = 250 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	8.99	42.3	36	18.8	28.5	36.8	33.6
10-01-94	3.41	24.1	19	6.74	9.34	13	11.7
01-01-95	4.82	24.8	38.9	9.39	11.1	14.8	14.3
04-01-95	3.99	44.4	53.3	9.22	9.29	14	14.8
07-01-95	6.69	38.6	62.5	10.4	10.3	13.7	17.1
10-01-95	2.07	11	65.6	6.59	6.21	8.51	14.9
01-01-96	2.89	25.9	64.2	7.85	7.74	8.45	_ 11.4
04-01-96	2.44	48.1	79.8	9.63	10.2	11.5	22
08-01-96	3.04	71.8	70.4	8.47	8.23	8.64	15.8
10-30-96	4.8	50.8	68.4	9.17	8.46	8.18	13.6
02-11-97	4.04	50.8	66.1	11.3	11.2	10.6	17.5
05-19-97	18.7	3.72	35.1	62	8.01	8.6	7.54

CHROMIUM mg/L MCL = 0.1 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	0.6	8.0	1.5	8.7	2	1.4	1.3
10-01-94	0.552	1.56	1.2	5.48	0.00184	1.79	2
01-01-95	0.0006	0.0016	0.0018	0.005	0.0061	0.0065	0.001
04-01-95	0.0048	0.0022	0.0025	0.0057	0.0084	0.0028	0.0016
07-01-95	0.0016	0.0017	0.0102	0.0061	0.0081	0.0022	0.0022
10-01-95	0.002	0.0075	0.0066	0.0175	0.006	0.0028	0.0013
01-01-96	0.002	0.002	0.0024	0.049	0.0034	0.0283	_0.002
04-01-96	0.002	0.002	0.0045	0.012	0.0049	0.0025	0.002
08-01-96	< 0.002	< 0.002	0.00672	0.0244	0.0492	0.0141	0.0355
10-30-96	0.0085	0.002	0.0084	0.0045	0.0026	0.0027	0.0012
02-11-97	0.00467	0.00698	0.0149	0.00894	0.0135	0.00939	0.0128
05-19-97	0.00894	0.00911	0.00792	0.0108	0.0117	0.00917	0.00751

COLOR PTU MCL = 15 PTU

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	10	<5	20	120	<5	10	20
10-01-94	10	20	20	180	<5	10	<5
01-01-95	20	<5	40	160	120	240	10
04-01-95	20	10	50	25	55	20	20
07-01-95	20	15	170	150	50	10	20
10-01-95	20	100	120	350	20	10	<5
01-01-96	<5	<5	<5	300	30	140	30
04-01-96	<5	40	70	200	40	20	<5
08-01-96	20	40	200	300	200	200	20
10-30-96	<5.0	< 5.0	< 5.0	<5.0	< 5.0	<5.0	< 5.0
02-11-97	<5.0	<5.0	20	<5.0	< 5.0	<5.0	< 5.0
05-19-97	20	< 5.0	<5.0	<5.0	10	< 5.0	< 5.0

SPECIFIC CONDUCTANCE umhos

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	42	260	398	168	214	348	467
10-01-94	37	204	308	90	165	366	444
01-01-95	83	425	556	193	234	501	675
04-01-95	71	578	519	173	241	602	629
07-01-95	61	413	454	216	216	488	607
10-01-95	480	297	417	142	151	362	459
01-01-96	875	648	851	298	322	676	902
04-01-96	67	443	68	221	244	529	748
08-01-96	83	394	647	151	183	333	652
10-30-96	79	486	651	230	401	234	706
02-11-97	88	419	530	182	219	318	670
07-19-97	145	447	799	274	334	447	866

IRON mg/L MCL = 0.3 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	0.0976	0.0073	0.391	0.178	0.001	0.934	0.366
10-01-94	0.0439	0.0453	0.235	0.117	0.00539	5.66	0.388
01-01-95	0.0943	0.042	0.201	0.0791	0.146	6.96	0.227
04-01-95	0.056	0.0392	0.0935	0.0811	0.329	0.518	0.276
07-01-95	0.0815	0.0716	1.52	0.105	0.173	0.258	0.556
10-01-95	0.104	0.238	0.38	0.503	0.167	0.56	0.171
01-01-96	0.00661	0.105	0.158	0.246	0.119	20.3	0.434
04-01-96	0.0585	0.082	0.273	0.448	0.156	0.695	0.27
08-01-96	0.115	0.248	0.656	1.3	2.07	0.684	9.1
10-30-96	0.309	0.0821	0.264	0.052	0.0383	0.223	0.339
02-11-97	0.0336	0.326	0.261	0.406	0.105	0.112	0.381
05-19-97	0.071	0.0602	0.0457	0.0719	0.141	0.0944	0.464

NITRATE mg/L MCL = 10 mg/L

MW9	8WM	MW7	MW6A	MW4	MW2	MW1	DATE
<.01	<.01	4.72	4.35	4.06	6.52	3.7	07-01-94
<.01	0.365	4.36	4.03	3.65	6.92	3.64	10-01-94
1.12	1.16	4.58	3.57	2.96	6.77	4.27	01-01-95
0.0361	1.03	3.76	3.64	4.05	9.72	3.35	04-01-95
0.0855	14.3	81.6	55.3	62	99.7	66.2	07-01-95
<.01	0.154	4.49	5.8	5.03	2.86	1.78	10-01-95
0.589	1.3	4.22	5.7	8.72	0.642	2.35	01-01-96
0.131	2.34	4.67	7.34	8.27	1.78	2.53	04-01-96
0.058	2.53	4.66	6	8.86	2.01	3.85	08-01-96
0.0708	1.33	3.12	4.97	3.68	3.47	2.51	10-30-96
0.359	4.84	5.12	5.82	7.45	7.63	3.6	02-11-97
< 0.01	1.7	0.431	0.526	0.797	0.541	0.156	05-19-97

pH pH UNITS Min pH 6.5, Max pH 8.5 @ collection point

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	6.28	6.49	6.94	7.62	7.44	6.72	6.56
10-01-94	5.85	6.62	6.95	7.72	7.49	6.72	6.65
01-01-95	6.29	6.62	6.96	7.85	7.63	6.9	6.83
04-01-95	7.55	6.58	7.02	7.79	7.14	6.84	6.86
07-01-95	6.99	6.51	6.68	7.24	7.02	6.86	6.65
10-01-95	7.48	6.95	7	6.82	6.65	6.71	6.84
01-01-96	7.69	6.94	6.64	8.03	7.64	6.92	6.74
04-01-96	6.97	6.65	6.55	7.45	7.43	7.01	6.84
08-01-96	7.84	7	6.85	7.74	7.55	7.05	6.83
10-30-96	7.25	6.71	6.95	7.35	6.55	6.73	6.62
02-11-97	7.48	6.92	6.5	6.5	7.41	7.16	6.82
05-19-97	7.29	6.78	6.32	7.25	6.94	7.15	6.79

SULFATE mg/L MCL = 250 mg/L

MW1	MW2	MW4	MW6A	MW7	8WM	MW9
1.93	9.31	2.66	2.79	2.13	3.82	14.8
5.22	7.8	<1.00	1.43	<1.00	5.35	14
<1.00	4.6	3.72	2.65	1.94	<1.00	4.78
1.81	3.95	4.26	5.65	1.81	2.11	4.57
1.39	13.5	3.29	1.39	2.01	4.35	7.01
9.82	12.7	3.71	7.55	1.96	5.09	<1.00
5.79	25.6	3.48	6.06	2.19	5.37	3.15
3.84	15.8	3.92	5.39	1.81	3.16	1.49
2.62	32.3	3.47	3.11	<1.00	<1.00	<1.00
<1.00	34.3	2.02	<1.00	2.99	<1.00	<1.00
2.35	19.6	5	5.62	<1.00	<1.00	<1.00
2.62	16	6.45	6.04	2.32	4	3.58
	1.93 5.22 <1.00 1.81 1.39 9.82 5.79 3.84 2.62 <1.00 2.35	1.93 9.31 5.22 7.8 <1.00	1.93 9.31 2.66 5.22 7.8 <1.00	1.93 9.31 2.66 2.79 5.22 7.8 <1.00	1.93 9.31 2.66 2.79 2.13 5.22 7.8 <1.00	1.93 9.31 2.66 2.79 2.13 3.82 5.22 7.8 <1.00

TEMPERATURE DEGREES CENTIGRADE

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	25.1	27.1	26.6	24.2	23.8	24.2	27.1
10-01-94	26.6	24.8	27.3	23.9	23.8	24.3	26.2
01-01-95	23	24.1	24.1	21.3	21.3	23.6	25
04-01-95	25.7	25.3	25.9	22.1	22.7	24.2	27.7
07-01-95	25.8	25.9	27	26	24.5	24.5	27.6
10-01-95	25.7	25.3	26.5	23.1	22.9	23.9	25
01-01-96	24.2	23.3	23	18	16.2	19	24.3
04-01-96	20.8	22.5	23.2	21.8	22.2	21.9	24.5
08-01-96	24.6	23.7	27	24	24.2	23.6	25
10-30-96	28	24.3	27.4	25	23.1	22.4	23.5
02-11-97	20.4	22.4	20.5	19.2	22.1	22.5	23.8
05-19-97	25	25.1	26.6	26.3	23.4	24.9	25.8

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY ANALYTICAL TEST RESULTS

TURBIDITY NTU MCL = 1 NTU

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	8.6	2.5	17	208	0.6	4.9	15
10-01-94	13	25	6.9	204	3.6	12	2
01-01-95	90	99	44	87	30	2.2	6
04-01-95	19	1.9	34	76	170	3.05	16.5
07-01-95	<.05	2.7	225	115	41	2.25	11
10-01-95	3.2	5.4	30.1	140	17	16	3.4
01-01-96	16	1.4	22.5	335	62	38.3	22
04-01-96	17	8.9	81	290	65	5.5	15
08-01 - 96	8.4	16	64	340	62	8.9	12
10-30-96	90	12	200	32	6.5	1.4	2.8
02-11-97	3.8	1.1	34	9.2	17	3.1	3.1
05-19-97	12	2.4	3.1	4.3	- 58	1.3	2.9

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY ANALYTICAL TEST RESULTS

SODIUM mg/L MCL = 150 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	8WM	MW9
07-01-94	2.5	21.4	9.25	3.22	4.7	10.2	31.4
10-01-94	3.77	20.6	11.4	3.47	6.49	12.7	31.3
01-01-95	4.49	19.2	17.4	4.16	5.47	11.1	30.2
04-01-95	7.26	33.4	25.7	5.65	8.19	13.2	31.8
07-01-95	5.71	31.7	24	4.97	5.97	10.2	31.8
10-01-95	4.28	18.8	23.5	5.44	6.15	12.2	11.9
01-01-96	4.76	51.4	40.8	6.15	7.99	12.9	21.2
04-01-96	2.83	33.9	30.9	4.22	4.85	9.04	8.99
08-01-96	5.47	63.8	79.4	37	7.53	7.1	10.38
10-30-96	2.96	66.7	33.8	3.85	4.56	7.74	10.2
02-11-97	4	57.3	35	4.97	5.58	8.61	11.2
05-19-97	3.82	44.7	34.8	4.44	5.23	5.73	11.6

SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY ANALYTICAL TEST RESULTS

TOTAL DISSOLVED SOLIDS mg/L MCL = 500 mg/L

DATE	MW1	MW2	MW4	MW6A	MW7	MW8	MW9
07-01-94	74	250	332	196	220	372	560
10-01-94	78	302	320	224	206	344	446
01-01-95	88	288	364	192	256	380	472
04-01-95	85	324	452	214	216	360	478
07-01-95	100	254	384	176	224	320	500
10-01-95	42	328	426	234	180	350	446
01-01-96	34	302	434	205	174	364	462
04-01-96	36	270	420	198	156	326	442
08-01-96	44	358	460	212	194	310	458
10-30-96	98	386	436	140	190	328	464
02-11-97	100	346	502	196	232	226	446
05-19-97	68	194	422	150	174	214	416



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUEST FOR ADDITIONAL INFORMATION
SUMTER COUNTY LANDFILL
FONG-TERM CARE PERMIT RENEWAL
PENDING PERMIT NO. 22926-002-SF, SUMTER COUNTY

PREPARED FOR



SUMTUR COUNTY FOATO OF GOUNTY COMMISSIONERS 209 NORTH FLORIDA STREET EUSHNELL, ELORIDA 335/3

Nevember 25, 1997

921100:008

Springstead Engineering, inc.

Consulting Engineers – Architects – Planners – Surveyors 727 South 14th Street Leesburg, Florida 34748 Lake (352) 787-1414 Sumter (352) 793-3639 Fax (352) 787-7221



727 South 14th Street Leesburg, Florida 34748

Lake (904) 787-1414 Sumter (904) 793-3639



Department Environmental Protection SOUTHWEST DISTRICT

BY.

November 25, 1997

Ms. Allison Amram, P.G.
Solid Waste Section
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

No. 22926-002-SF, Sumter County

Dear Ms. Amram:

We are in receipt of you Request for Additional Information dated October 29, 1997 for the above referenced project, please note the following responses:

Sumter County Landfill, Long-term Care Permit Renewal Pending Permit

- 1. N3e. The geotechnical investigations have been done on the landfill site and adjacent parcels, and how do they indicate that the landfill is not having any detrimental effects? If reports of these investigations have been submitted to FDEP, you may reference the report by title, author and date submitted.
- 1. No geotechnical investigations have been performed specifically to address the effectiveness of the landfill design. Geotechnical reports performed for development of expansion sites adjacent to the existing landfill specifically the south 40 acres and the scalehouse building is what was referred to in SEI's response. Based on these reports, the soils outside of the landfill area do not exhibit indications that they have been affected by the landfill. The soils beneath the landfill have not been studied but appear to be unchanged from the development of the landfill.

Appendix B:

1. The purpose of final cover is to minimize infiltration and subsequent leachate generation. During recent inspections, the Department has observed several areas with significant cracks in the asphalt and settlement/subsidence of the underlying landfill. This settlement has resulted in poor drainage in some areas. Please explain the conclusions that the "asphalt cover is in good condition" and "the drainage design of the landfill has been effective..." if significant cracks, subsidence, and ponded water have been observed in the asphalt covered areas.

November 25, 1997 Ms. Allison Amram, P.G. FDEP Sumter County Landfill Long-term Care Pending Permit No. 22926-002-SF

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- 1. The general overall condition of the asphalt cover is good. The overall drainage design for the landfill, in general, is effective and has operated as designed. The asphalt has cracked due to settlement and has been patched and is currently being overlaid. The drainage where the asphalt has settled is being corrected during the paving process.
- 2. Since materials are stored on the asphalt paved cover, please provide the operational procedures for management of these materials during the "re-leveling and re-paving" activities. Will the existing asphalt be removed prior to installation of new pavement?
- 2. The repaying of the asphalt cover is being performed in sections. The materials stored on the asphalt being paved will be relocated temporarily so the paving can take place and then moved back to the designated storage area. The existing asphalt will not be removed prior to repaying.
- FAC 17-701.073(6)(c)3. (effective 7-1-85) requires that the closure (or long-term care) plan include provisions for the filling of "areas of subsidence or other depressions [and] general maintenance of the facility..." Please provide procedures for the filling of low areas and general maintenance of the facility. These procedures should include, but not be limited to, the type of maintenance activity (e.g. mowing, regrading, re-paving, monitoring activities, etc.) and minimum frequency for the activity.
- 3. The procedure for filling the low areas for the asphalt covered portion of the closed landfill include filling the depression with recycled asphalt. The amount of asphalt used will depend on the size of the depression. The asphalt pad will be releveled using the recycled asphalt. A final cover of new asphalt will be placed on the releveled pad. General maintenance of the asphalt pad includes annual visual observation of the pad to locate and correct depression areas.
- O4. This declaration must be submitted to complete this application. Please notify the FDEP of the status of this item in future correspondence.
- O4. The declaration will be submitted upon completion.

November 25, 1997 Ms. Allison Amram, P.G. FDEP Sumter County Landfill Long-term Care Pending Permit No. 22926-002-SF

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- Q. The cost estimates for the site were approved by FDEP's October 28, 1997 letter, sent separately.
- Q. No response necessary.
- Please submit the 1997 gas migration results. If these results are comparable to the last two years, then a reduced monitoring plan would be acceptable to the FDEP. The active areas of the closed landfill, nearby enclosed structures, and the north property boundary should continue to be monitored to protect public health.
- 2. The 1997 gas migration survey will be performed in December. The completed report will be sent to your attention.
- 3. This comment has been adequately addressed.
- 4. The revised maps are missing the following requested information: landfill outline and other pertinent structures in the area. Please revise the maps as originally requested.
- 4. The maps have been revised and are attached.
- 5. Thank you for providing the summary of some of the inorganic parameters from the sampling plans. Were the other parameters not detected from 1994 on?
- 5. All of the parameters detected above MCL are presented in the tables in the Appendix.
- 6. The FDEP notes that no request for reduction of sampling frequency is proposed at this time.
- 6. No response necessary.
- 7. The comment has been adequately addressed.
- 8. In order to evaluate this request for reduction in sampling parameters, please summarize the detection of the parameters you are requesting to delete. That is the intended purpose

November 25, 1997 Ms. Allison Amram, P.G. FDEP Sumter County Landfill
Long-term Care
Pending Permit No. 22926-002-SF

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of the request in comment no. 5. The FDEP anticipates that if these compounds have not been detected, or only sporadically at concentrations close to the lower method detection limits, that a reduction may be permittable. However, because the <u>site specific ground water flow conditions remain unknown</u>, the FDEP does not see how the age of the landfill can be correlated to the detection of compounds in the future. A possible compromise would be annual sampling for a larger suite of parameters. Please provide the requested data, and your professional conclusions, bearing these items in mind.

8. The attached tables indicate that only 3 parameters have been detected above MCL for volatile organic compound analysis, pesticides and PCB analysis and trihalomethane analysis over the past 3 years. Based on data presented in the tables, we request that the sampling and testing for pesticides and PCB's, trihalomethanes, and volatile organic compounds be reduced to an annual event. We do not object to performing inorganic analysis, secondary chemical analysis, and radiological analysis quarterly.

I trust this information meets your needs at this time. Should you have any questions, or require additional information, please contact our office.

Very truly yours,

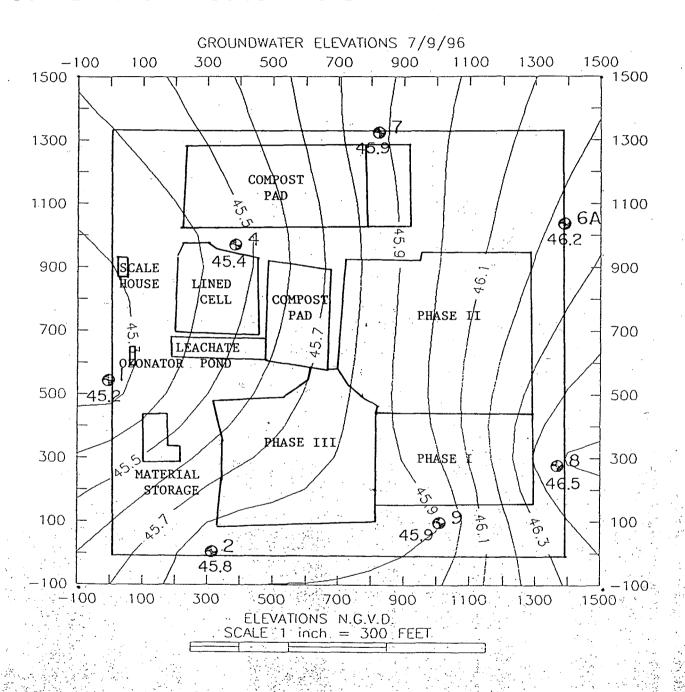
Springstead Engineering; Inc.

Engineer.

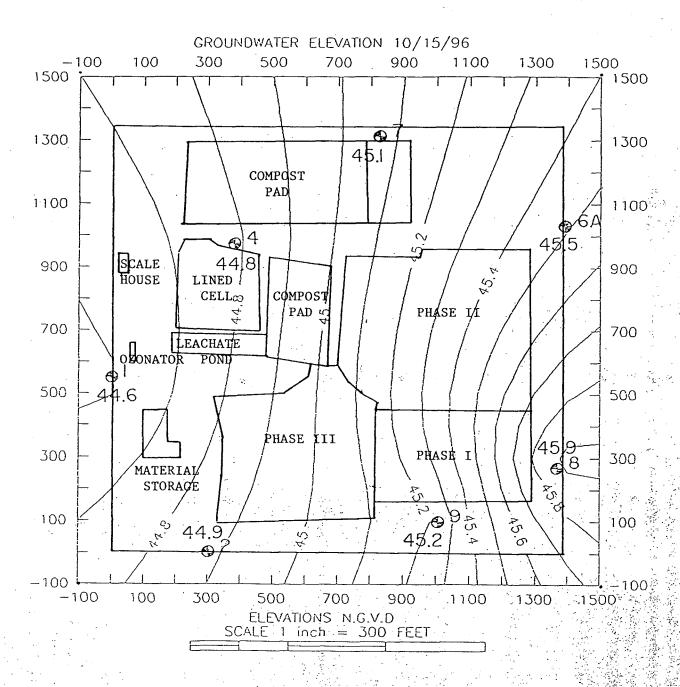
Florida Registration No. 48229

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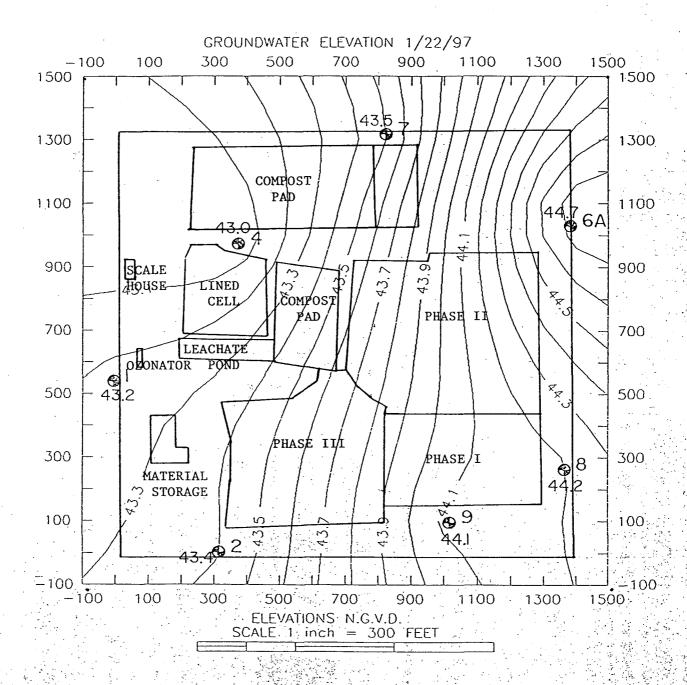
SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY



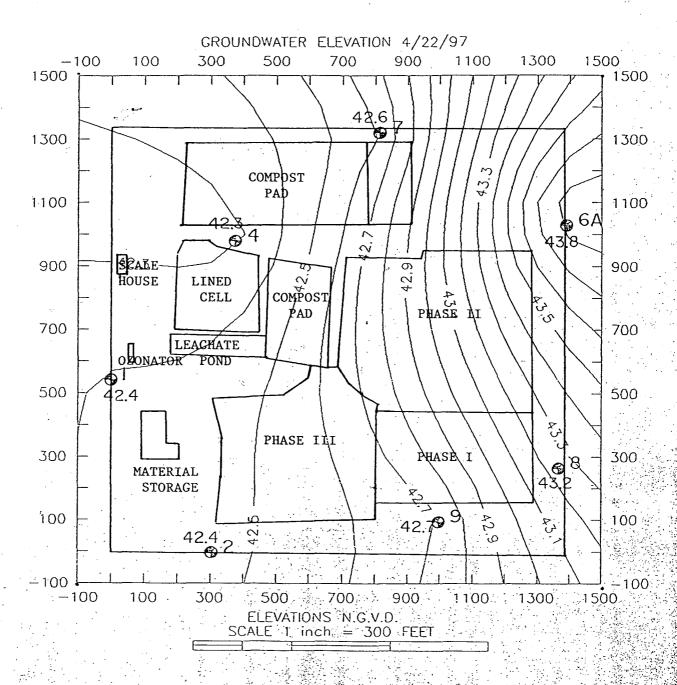
SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY



SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY:



SUMTER COUNTY SOLID WASTE MANAGEMENT FACILITY



APPENDIX

Temperature	01-Jul-94 25.1	01-Oct-94 26.6	01-Jan-95 23	01-Apr-95	01-Jul-95 25.8	01-Oct-95 25.7	01-Jan-96 24.2	01-Apr-96 20.8	01-Aug-96 24.6	30-Oot-96 28	11-Feb-97 20.4	19-May-97	01-Jul-97
Specific Conductance	42	37	83	71	61	480	875	67	83	79	88	145	
Antimony					·								
Arsenic Barium													
Beryllium													
Cadmium	0.0003	0.00026	0.0003	0.0004	0.0006	0.0012	0.0012	0.001	0.00888	0.02 0.0085	0.0001	0,0001 0,00894	
Chromium Cyanide	0.6	0.552	0.0006	0.0046	0.0016	0.002	0.002	0.002	0.002	0,0003	0.00467	0.00054	
Flouride	,												
Lead													
Mercury Nickel				# WE FILE									
Nitrate	3.7	3.64	4.27	3.35	66.2	1.78	2.35	2.53	3.85	2.51	3.6	0.0156	
Nitrite													
Total Nitrate + Nitrite Selenium													
Sodium	2.5	3.77	4.49	7.26	5.71	4.28	4.76	2.83	5.47	2.96	4	3.82	
Thallium										0.00243			
Vinyl Chloride Benzene					,								*****
Carbon Tetrachloride													
1,2-Dichloroethane													
Trichloroethylene Para-dichlorobenzene													
1,1-Dichloroethylene													
1,1,1-Trichloroethane													
Cis-1,2-Dichloroethylene 1,2-Dichloropropane			-					-		· · · · · · · · ·			-
Ethylbenzene													
Monochlorobenzene													
o-Dichlorobenzene Styrene													
Tetrachlorobenzene													
Toluene													
Trans-1,2-Dichloroethylene Xylenes (total)			· · · · · · · · · · · · · · · · · · ·										
Dichloromethane													
1,2,4-Trichlorobenzene													
1,1,2-Trichloroethane Alachlor								<u> </u>					
Atrazine													
Carbofuran													
Chlordane Dibromochloropropane												·	
2,4-D		<u> </u>											
Endrin													
Ethylene Dibromide Heptachlor													
Heptachlor Epoxide													
Lindane									<u> </u>				
Methoxychlor Polychlorinated Biphenyl (PCB)												,	
Pentachlorophenol													
Toxaphene													
2,4,5-TP (Silvex) Dalapon					·-·								
Di (2-Ethylhexyl)Phthalate													
Di (2-Ethylhexyl) Adipate													
Dinoseb Diquat													
Endothall													
Glyphosate													
Hexachlorocyclo-Pentadiene												,	
Oxamyl (Vydate)													
Benzo (a) Pyrene													
Picloram Simazine				····									
Aluminum	0.213	0.386	0.512	0.3	0.476	0.614	0.53	1.42	1.5	2.17	0.29	0.243	0.943
Chloride	8.99	3.41	4.82	3.99	6.69	2.07	2.89	2.44	3.04	4.8	4.04	18.7	
Color Copper	10	10	20	20	20	20	5	5	20	5	5	20	20
Flouride													
Foaming Agents								0.000					
Iron , Odor	0.0976	0.0439	0.0943	0.056	0.0815	0.104	0.00661	0.0585	0.115	0.309	0.0336	0.071	
рН	6.28	5.85	6.29	7.55	6.99	7.48	7.69	6.97	7.84	7.25	7.48	7.29	
Silver													
Sulfate Total Dissolved Solids	1,93 74	5.22 78	1 88	1.81 85	1.39 100	9.82 42	5.79 34	3.84 36	2.62	98	2.35 100	2.62 68	
Turbidity	8.6	13.	90	19	0.05	3.2	16	17	8.4	. 90	3.8	12	
Zino	ATTE No.	all arrays The Print											
Ammonium Gross Alpha (excl. Ra & U)	0.01	0.01 8.2	0.01 9.6	0.01 6.3	0.01 9.1	0.279	0,01 5.8	⁷ 0.01 5.6	0.01 9.3	0.01 82	0.01	0.0267	9.6
Manganese	0.0898	0.2	3.0	3,3	3.1	14,3	3.0	3,6	3.3	02			3.0
Elevation													
	_		_ 										·

	01-Jul-94	01-Oot-94	01-Jan-95		01-Jul-95		01-Jan-96		01-Aug-96			19-May-97	01-Jul-97
Temperature	27.1	24.8	24.1	25.3	25.9	25.3	23.3	22.5	23.7	24.3	22.4	25.1	
Specific Conductance	260	204	425	578	413	297	. 648	443	394	486	419	447	
Antimony Arsenio		· · · · · · · · · · · · · · · · · · ·											
Barium	·												
Beryllium					•								
Cadmium	0.0001	0.00019	0.0003	0.0002	0.0003	0.0022	0.0017	0.001	0.00895	0,0104	0.0001	0,0001	
Chromium	0.8	1.56	0.0016	0.0022	0.0017	0.0075	0.002	0.002	0.002	0.002	0.00698	0.00911	
Cyanide											····		
Flouride Lead													
Mercury									//				·····
Nickel										0.163			
Nitrate	6,52	6.92	6.77	9.72	99.7	2.86	0.0642	1.78	2.01	3.47	7.63	0.541	
Nitrite													
Total Nitrate + Nitrite													
Selenium Sodium	21.4	20.6	19.2	33.4	31.7	18.8	51.4	33.9	63.8	66.7	57.3	44.7	
Thallium													
Vinyl Chloride									•				
Benzene													,
Carbon Tetrachloride				· · · · · · · · · · · · · · · · · · ·									
1,2-Dichloroethane Trichloroethylene													
Para-dichlorobenzene											· · · · · · · · · · · · · · · · · · ·		
1,1-Dichloroethylene													
1,1,1-Trichloroethane													
Cis-1,2-Dichloroethylene													
1,2-Diohloropropane							*******						
Ethylbenzene Monochlorobenzene													-
o-Dichlorobenzene										····			
Styrene													
Tetrachlorobenzene													
Toluene													
Trans-1,2-Dichloroethylene													
· Xylenes (total) Dichloromethane													
1,2,4-Trichlorobenzene							<u> </u>	· · · · · · · · · · · · · · · · · · ·					
1,1,2-Trichloroethane													
Alachlor													
. Atrazine													
Carbofuran								ļ					
Chlordane Dibromochloropropane													
2,4D													
Endrin													
Ethylene Dibromide							-						
Heptachlor													
Heptachlor Epoxide													
Lindane Methoxychlor													
Polychlorinated Biphenyl (PCB)													
Pentachlorophenol	,,,,,								******				
Toxaphene													
2,4,5-TP (Silvex)													
Dalapon													
Di (2-Ethylhexyl) Phthalate Di (2-Ethylhexyl) Adipate													
Dinoseb									***************************************				····
Diquat													
Endothall													
Glyphosate													
Hexachlorobenzene													
Hexachlorocyclo-Pentadiene								·					
Oxamyl (Vydate) Benzo(a)Pyrene													
Picloram											***************************************		· · · · · · · · · · · · · · · · · · ·
Simazine							,						
Aluminum	0.002	0.279	0.065	0.052	0.227	0.379	0.399	0.764	0.839	0.179	0,189	0.023	
Chloride	42.3	24.1	24.8	44.4	38.6	11	25.9	48.1	71.8	50.8	50.8	3.72	
Color	5	20	5	10	15	100	5	40	40	. 5	5	5	
Copper Flouride													
Foaming Agents												***************************************	
lron	0.0073	0.0453	0.042	0.0392	0.0716	0.238	0.105	0.082	0.248	0.0821	0.326	0,0602	
Odor		***************************************											
pH	6.49	6.62	6.62	6.58	6.51	6.95	6.94	6.65	. 7	6.71	6.92	6.78	
Silver													
Sulfate Total Dissolved Solids	9.31 250	7.8 302	4.6 288	3.95 324	13.5 254	12.7 328	25.6 302	15.8 270	32.3 358	34.3 386	19.6 346	16 194	
Turbidity	2.5	25	99	1.9	2.7	5.4	1.4	8.9	16	12	1.1	2.4	
Zino				,,,,		· · · · · · · · · · · · · · · · · · ·				1 6.	**1	4. + T	
Ammonium	0.01	0.01	0.0126	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.202	0.0209	
Gross Alpha (excl. Ra & U)		5.1			5.7	14.5			7				
Manganese Elevation					0.0697	0.259	0.361	0.0969		0.197	0,106		
			. 1	i	ı			, 1					

	01-Jul-94	01-001-94	01-Jan-95	01-Apr-95	01-Jul-95	01-Oot-95	01_lan_96	01-Apr-96	01-Aug-96	30-021-96	11-Feb-97	19.May.97	01-Jul-97
Temperature	26.6	27.3	24.1	25.9	27	26.5	23	23.2	27	27.4	20.5	26.6	
Specific Conductance	398	308	556	519	454	417	851	68	647	651	530	799	
Antimony Arsenic													
Barium													
Beryllium Cadmium	0.0003	0.00039	0.0012	0.001	0.0061	0.005	0.0021	0.0022	0,00993	0.004	0.00208	0.0001	
Chromium	1.5	1.2	0.0012	0.0025	0.0102	0.0066	0.0024	0.0022	0.00672	0.0084	0.0149	0.00792	
Cyanide													
Flouride Lead											 		
Mercury													
Nickel Nitrate	4.06	3.65	2.96	4.05	62	5.03	8.72	8.27	9.86	3.68	7.45	0.797	
Nitrite	4.00	3.00	2.40	4,00	02	0.00	0.72	0.27	0.00	0.00	7.70	0.707	
Total Nitrate + Nitrite													
Selenium Sodium	9.25	11.4	17.4	25.7	24	23.5	40.8	30.9	79.4	33.8	35	34.8	
Thallium													
Vinyl Chloride Benzene							·						
Carbon Tetrachloride													
1,2-Dichloroethane Trichloroethylene													
Para-dichlorobenzene							·						
1,1-Dichloroethylene													
1,1,1-Trichloroethane Cis-1,2-Dichloroethylene													
1,2-Dichloropropane													
Ethylbenzene Monoohlorobenzene								*					
o-Dichlorobenzene													
Styrene Tetrachlorobenzene										-			· · · · · · · · · · · · · · · · · · ·
Toluene			· · · · · · · · · · · · · · · · · · ·										· · · · · · · · · · · · · · · · · · ·
Trans-1,2-Dichloroethylene													
Xylenes (total) Dichloromethane												· · · · · · · · · · · · · · · · · · ·	
1,2,4-Trichlorobenzene													
1,1,2-Trichloroethane Alachlor													
Atrazine													
Carboiuran													
Chlordane Dibromochloropropane							_						
2.4-D													
Endrin Ethylene Dibromide													
Heptachlor													
Heptachlor Epoxide Lindane													
Methoxychlor							•						
Polychlorinated Biphenyl (PCB)													
Pentachlorophenol Toxaphene											<u> </u>		
2,4,5-TP (Silvex)			· · · · · · · · · · · · · · · · · · ·										
Dalapon Di(2-Ethylhexyl)Phthalate											,		
Di (2-Ethylhexyl) Adipate													
Dinoseb									,				
Diquat Endothall												-	
Glyphosate													
Hexachlorobenzene Hexachlorocyclo-Pentadiene													
Oxamyl (Vydate)													
Benzo(a)Pyrene Pioloram													
Simazine				·									
Aluminum	0.259	0.331	0.652	0.172	2.83	0.648	0.429	5.7	2.81	1.41	1.02	0.073	. 1.14
Chloride Color	36 20	19 20	38.9 40	53.3 50	62.5 170	65.6 120	64.2 5	79.8 70.	70.4 200	68.4 5	66.1 20	35.1 5	20
Copper	****												
Flouride Foaming Agents	·												
lron	0.391	0.235	0.201	0.0935	1.52	0.38	0.158	0.273	0.656	0.264	0.261	0.0457	1.67
Odor pH	6.94	6.95	6.00	7.00	6.00	-	2.24	^ <i>EE</i>	0.05	0.05	0.5	^ ^^	
Silver	6.94	6.95	6.96	7.02	6.68	7	6.64	6,55	6,85	6.95	6.5	6.32	
Sulfate	2.66	1	3.72	4.26	3.29	3.71	3,48	3.92	3.47	2.02	5	6.45	
Total Dissolved Solids Turbidity	332 17	320 6.9	364 44	452 34	384 225.	426 30.1	434 22.5	420 81	460 64	436 200	502 34	422 3.1	523
2)110													
Ammonium Gross Alpha (excl. Ra & U)	0.348	0,01 25	0.01 31	0.01 38	0.136 97	0.01 60	0.01 19.3	0.01 36	0.0348 31	0.01 79	0.01 42	0.01	^7
Manganese		23	31.	38	91	6U	19.3	36	0.264	/9	42	12,3	67 0.0767
	.				<u>-</u>						<u> </u>	·	

}	01-Jul-94	01-0ot-94	01lan.95	01-Apr-95	01lul.95	01-04-95	01-Jan-96	01-Apr-96	Ot-Aug-96	30-05t-96	11-Feb-97	19-May-97	01-Jul-97
Temperature	24.2	23.9	21.3	22,1	26	23.1	18	21.8	24	25	19.2	26.3	01-04/-07
Specific Conductance	168	90	193	173	216	142	298	221	151	230	182	274	
Antimony Arsenic												i	
Barium													
Beryllium Cadmium	0.0014	0.00243	0.001	0.0005	0.0011	0.0024	0.0036	0.002	0.0133	0.0003	0.0001	0.0001	
Chromium	8.7	5.48	0.001	0.0057	0.0061	0.0024	0.049	0.002	0.0244	0.0045	0.00894	0.0108	
Cyanide													
Flouride Lead	· · · · · · · · · · · · · · · · · · ·												<u> </u>
Mercury													
Nickel													
Nitrate Nitrite	4.35	4.03	3.57	3.64	55.3	5.8	5.7	7.34	6	4,97	5.82	0.0526	
Total Nitrate + Nitrite													
Selenium	200	0.47	446	5.05	4.97	5.44	6.15	4.22	37	3.85	4.97	4,44	
Sodium Thallium	3.22	3.47	4.16	5.65	4.97	5.44	6.15	4.22	31	3.65	4.97	4,44	
Vinyl Chloride													
Benzene Carbon Tetrachloride				_									
1,2-Diohloroethane													
Trichloroethylene				_									
Para-dichlorobenzene 1,1-Dichloroethylene										 			<u> </u>
1,1,1-Trichloroethane													
Cis-1,2-Dichloroethylene													
1,2-Dichloropropane Ethylbenzene													
Monochlorobenzene													
o-Dichlorobenzene													,
Styrene Tetrachlorobenzene													
Toluene													
Trans-1,2-Dichloroethylene													
Xylenes (total) Dichloromethane												ļ	
1,2,4 Trichlorobenzene													
1,1,2-Trichloroethane Alachlor													
Arazine													
Carbofuran													
Chlordane Dibromochloropropane												·	
2,4D													
Endrin													
Ethylene Dibromide Heptachlor						· · · · · · · · · · · · · · · · · · ·							
Heptachior Epoxide													
Lindane													
Methoxychlor Polychlorinated Biphenyl (PCB)													
Pentachlorophenol													
Toxaphene 2,4,5-TP (Silvex)													
Dalapon													1
Di (2-Ethylhexyl)Phthalate													
Di (2-Ethylhexyl) Adipate Dinoseb	·												
Diquat							· · · · · · · · · · · · · · · · · · ·						
Endothall													
Glyphosate Hexachlorobenzene	 -						N-10-10-10-10-10-10-10-10-10-10-10-10-10-						
Hexachlorocyclo-Pentadiene													
Oxamyl (Vydate)													
Benzo(a)Pyrene Pioloram					7.5701.00.00.0								
Simazine													
Aluminum	0.46	1.36	1.01	0.225	0.71	1.18	0.924	4.71	11.9	0.367	0.337	0.117	
Chloride Color	18.8 120	6.74 180	9,39 160	9.22 25	10.4 150	6.59 350	7,85 300	9.63 200	8.47 300	9.17	11.3 5	62 5	
Copper			,33	20						, , , , , , , , , , , , , , , , , , ,		J	
Flouride													
Foaming Agents	0.178	0.117	0.0791	0.0811	0.105	0.503	0.246	0.448	1.3	0.052	0.406	0.0719	
Odor										4-7-1			
pH	7.62	7.72	7.85	7.79	7.24	6.82	8.03	7.45	7.74	7.35	6.5	7.25	
Silver Sulfate	2.79	1.43	2.65	5.65	1.39	7.55	6.06	5.39	3.11	1	5.62	6.04	
Total Dissolved Solids	196	224	192	214	176	234	205	198	212	140	196	150	
Turbidity Zino	208	204	87	. 76	115	140	335	290	340	32	9.2	4.3	
Zino Ammonium	0.01	0.01	0.01	0.01	0.0134	0.175	0.01	0.01	0.01	0.01	0.01	0.01	
Gross Alpha (excl. Ra & U)		37	16.1	6.3	16.1	100	44	43	84		-7-		
N		i		1									
Manganese Elevation													·

	01-Jul-94	01-Oct-94		01-Apr-95	01-Jul-95	01-Oct-95	01-Jan-96		01-Aug-96				01-Jul-97
Temperature	23.8	23.8	21.3	22.7	24.5	22.9	16.2	22.2	24.2	23.1	22.1	23.4	
Specific Conductance Antimony	214	165	234	241	216	151	322	244	183	401	219	334	
Arsenio													•
Barium													
Beryllium Cadmium	0.0001	0.00018	0.0023	0.0016	0.0019	0.0022	0.0016	0,0021	0.0124	0.0006	0.00058	0.0001	
Chromium	2	0.00184	0.0023	0.0084	0,0081	0.0022	0.0034	0.0049	0.0492	0.0026	0.0135	0.0117	
Cyanide							~~~~						-
Flouride									0.0000				
Lead Mercury									0.0209				
Nickel													***************************************
Nitrate	4.72	4.36	4.58	3.76	81.6	4.49	4.22	4.67	4.66	3.12	5.12	0.431	
Nitrite Total Nitrate + Nitrite													
Selenium													
Sodium	4.7	6,49	5.47	8.19	5.97	6.15	7.99	4.85	7.53	4.56	5.58	5.23	
Thallium Vinyl Chloride							0.00239			0.00241			
Benzene												· · · · · · · · · · · · · · · · · · ·	
Carbon Tetrachloride													
1,2-Dichloroethane				<u> </u>	:								<u> </u>
Trichloroethylene Para-dichlorobenzene	·····				· · · · · · · · · · · · · · · · · · ·								
1,1-Dichloroethylene													
1,1,1-Trichloroethane													
Cis-1,2-Dichloroethylene 1,2-Dichloropropane	•												
Ethylbenzene													
Monochlorobenzene													
o-Dichlorobenzene													
Styrene Tetrachlorobenzene				~									
Toluene													
Trans-1,2-Dichloroethylene													
Xylenes (total)													
Dichloromethane 1,2,4-Trichlorobenzene							 			<u></u>			
1,1,2-Trichloroethane													
Alachior													
. Atrazine Carbofuran													
Chlordane			~					<u> </u>					
Dibromochloropropane													
2,4-0													
Endrin Ethylene Dibromide												•	
Heptachlor													
Heptachlor Epoxide													
Lindane Methoxychlor		:								<u> </u>			
Polychlorinated Biphenyl (PCB)													
Pentachlorophenol													
Toxaphene 2,4,5-TP (Silvex)			· · · · ·										
Z,4,5-17 (Silvex) Dalapon												· · · · · · · · · · · · · · · · · · ·	
Di (2-Ethylhexyl)Phthalate													
Di (2-Ethylhexyl) Adipate													
Dinoseb Diquat													
Endothall Endothall													
Glyphosate													
Hexachlorobenzene Hexachlorocyclo-Penladiene													
Oxamyl (Vydate)							 					4	
Benzo (a) Pyrene													
Pictoram													
Simazine Aluminum	0.002	0.105	0.448	0.185	0.767	0.122	0.492	1.38	28.5	0.11	0.303	0.192	
Chloride	28.5	9.34	11.1	9.29	10.3	6.21	7,74	10.2	8.23	8.46	11.2	8.01	<u> </u>
Color	5	5	120	55	50	. 20	30	40	200	5	5	10	
Copper Flouride	-												
Flounde Foaming Agents													
lron	0.001	0.00539	0.146	0.329	0.173	0,167	0.119	0.156	2.07	0.0383	0.105	0.141	
Odor													
pH Silver	7.44	7.49	7.63	7.14	7.02	6.65	7.64	7.43	7.55	6.55	7.41	6.94	
Sulfate	2.13	1	1.94	1.81	2.01	1.96	2.19	1.81	. 1	2.99	1	2.32	<u> </u>
Total Dissolved Solids	220	206	256	216	224	180	174	156	194	190	232	174	
Turbidity	0.6	3.6	30	170	41	17	62	65	62	6.5	17	58	
Zinc Ammonium	- 0.01	0.01	0.01	0.01	0.0301	0.01	0.01	0.01	. 0,01	0,01	0.01	0.01	
Gross Alpha (excl. Ra & U)	0.01	5.01	10.2	0.01	9.9	0.01	0.01	0.01	8.1	0,01	. 0,01	0.01	
Manganese													
Elevation		· · · · · · · · · · · · · · · · · · ·											

!	01-Jul-94	01-Oct-94	01-Jan-95	01-Apr-95	01-Jul-95	01-Oct-95	01-Jan-96	01-Apr-96	01-Aug-96	30-Oct-96	11-Feb-97	19-May-97	01-Jul-97
Temperature	24.2	24.3	23.6	24.2	24.5	23.9	19	21.9	23.6	. 22.4	22.5	24.9	
Specific Conductance Antimony	348	366	501	602	488	362	676	529	333	234	318	447	
Arsenio													
Barium Beryllium													
Cadmium	0.0003	0.00087	0.0065	0.0003	0,0001	0.0008	0.0024	0.001	0.0129	0.0005	0.0001	0.0001	
Chromium Cyanide	1.4	1.79	0.0065	0.0028	0.0022	0.0028	0.0283	0.0025	0.0141	0.0027	0.00939	0.00917	
Flouride													
Lead Meroury												 	·
Nickel													
Nitrate Nitrite	0.01	0.365	1.16	1.03	14.3	0.154	1.3	2.34	2.53	1.33	4.84	1.7	
Total Nitrate + Nitrite													
Selenium Sodium	10.2	12.7	11.1	13.2	10.2	12.2	12.9	9.04	7.1	7.74	8.61	5.73	
Thallium	10.2	12.7		10,2		, , ,	12.0	0.01			0.01	5.70	
Vinyi Chloride Benzene		-			<u> </u>								
Carbon Tetrachloride											· · · · · · · · · · · · · · · · · · ·		
1,2-Dichloroethane Trichloroethylene											-		
Para-dichlorobenzene													
1,1-Dichloroethylene 1,1,1-Trichloroethane													
Cis-1,2-Dichloroethylene								·		<u></u>			
1,2-Dichloropropane Ethylbenzene													
Monochlorobenzene													
o-Dichlorobenzene													
Styrene Tetrachlorobenzene													
Toluene Trans-1,2-Dichloroethylene													
Xylenes (total)													
Dichloromethane 1,2,4-Trichlorobenzene													
1,1,2-Trichloroethane											·		
. Alachlor Atrazine													
Carbofuran													
Chlordane Dibromochloropropane													
2',4-D													
Endrin Ethylene Dibromide										-			
Heptachlor													
Heptachlor Epoxide Lindane				,							1,		
Methoxychlor													
Polychlorinated Biphenyl (PCB) Pentachlorophenol	· · · · · · · · · · · · · · · · · · ·									~			
Toxaphene													
2,4,5-TP (Silvex) Dalapon			*									,	
DI (2-Ethylhexyl) Adipate										300000000000000000000000000000000000000			
Dinoseb Diquat													
Endothall													
Glyphosate Hexachlorobenzene			····										
Hexachlorocyclo-Pentadiene Oxamyi (Vydate)													•
Benzo(a)Pyrene													
Picloram Simazine													
Aluminum	0.0506	2.59	0.109	0.0275	0.263	0.265	0.232	0.429	3.75	0.592	0.401	0.022	
Chloride Color	36.8 10	13 10	14.8 240	14	13.7 10	8.51 10	8,45 140	11.5 20	8.64 200	8.18 5	10.6 5	8.6 5	
Copper	,,,		270	20	10	'`	170		200	3	Ŭ,	>	
Flouride Foaming Agents	<u> </u>											1	
lron	0.934	5.66	6.96	0.518	0.258	0.56	20.3	0.695	0.684	0.223	0.112	0.0944	
Odor pH	6.72	6.72	6.9	. 6.84	6.86	6.71	6.92	7.01	7.05	6,73	7.16	7.15	
Silver													
Sulfate Total Dissolved Solids	3,82	5.35 344	380	2.11 360	4.35 320	5.09 350	5.37 364	3.16 326	310	328	226	214	
Turbidity Zinc	4.9	12	2.2	. 3,05	2.25	16	38.3	5.5	8.9	1.4	3.1	1.3	
Ammonium	0.916	0.01	0.01	0.145	0.136	0.252	0.575	0.09	0.0841	0.0321	0.231	0.01	
Gross Alpha (excl. Ra & U)		5.2 0.0781	6.4 0.0529		-	5.2			14.5				
Manganese Elevation		0.0781	0.0529				0.0568						
	•			·		· · · · · · · · · · · · · · · · · · ·					<u> </u>		· · · · · · · · · · · · · · · · · · ·

	01-Jul-94	01-061-94	01-Jan-95	01-Apr-95	01-Jul-95	1 01-021-95	01-Jan-96	l nt-Anr-ge l	01-Aug-96	30-00-96	11-Feb-97	19-May-97	01-101-97
Temperature	27.1	26.2	25.0	27.7	27.6	25.0	24.3	24.5	25.0	23.5	23.8	25.8	01-041-07
Specific Conductance	467	444	675	629	607	459	902	748	652	706	670	866	
Antimony													
Arsenio Barium						-							
Beryllium													
Cadmium	0.0019	0.0057	0.0018	0.0029	0.0044	0.0025	0.0029	0.0014	0.0074	0.0022	0.0001	0.0001	
Chromium	1.300	2.000	0.001	0.002	0.002	0.001	0.002	0.002	0.036	0.001	0.013	0.008	
Cyanide Flouride													
, Lead		· · · · · · · · · · · · · · · · · · ·		-					0.0174				
Mercury	0.00341												
Nickel Nitrate	0.01	0.01	1.12	0.04	0.09	0.01	0.59	0.13	0.06	0.07	0.36	0.01	
Nitrite													
Total Nitrate + Nitrite													
Selenium		31.3	30.2	31.8	31.8	11.9	21.2	9.0	10.4	10.2	11.2	11.6	
Sodium Thallium	31.4	31.3	30.2	31.0	31.0	11.3	21.2	3.0	10,4	0.00326	11.4	11.0	
Vinyl Chloride													
Benzene													
Carbon Tetrachloride 1,2-Dichloroethane											· · ·		
Trichloroethylene													
Para-dichlorobenzene													
1,1-Dichloroethylene													
1,1,1-Trichtoroethane Cis-1,2-Dichtoroethylene													
1,2-Dichloropropane													
Ethylbenzene													
Monochlorobenzene													
o-Dichlorobenzene Styrene													
Tetrachlorobenzene													<u> </u>
Toluene													
Trans-1,2-Dichloroethylene									·			•	
Xylenes (total) Dichloromethane													
1,2,4-Trichlorobenzene	-												
1,1,2-Trichloroethane													
Alachlor													
. Atrazine Carbofuran			<u> </u>										
Chlordane					-		·····					***************************************	
Dibromochloropropane													
2.4-D Endrin													
Ethylene Dibromide										·····			
Heptachlor													
Heptachlor Epoxide													
Lindane Methoxychlor	· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·		***************************************						
Polychlorinated Biphenyl (PCB)												1	
Pentachiorophenol													
Toxaphene										**			
2,4,5-TP (Silvex) Dalapon										****			
Di (2-Ethylhexyl) Phthalate						24.7						67,1	
Di (2-Ethylhexyl) Adipate													
Dinoseb													
Diquat Endothal!									******				
Glyphosate													
Hexachlorobenzene													
Hexachlorocyclo-Pentadiene													
Oxamyl (Vydate) Benzo(a)Pyrene						0.203							
Picloram						0.203						····	
Simazine													
Aluminum	0.205	0.575	0.246	0.086	0.410	0,362	0.368	0.559	1.590	0.162	0.194	0.024	
Chloride	33.6	11.7	14.3	14.8	17.1	14.9	11.4	22.0	15.8	13.6	17.5	7.5	
Color Copper	20	5	10	20	20	5	30	5	20	5	5	5	
Flouride													
Foaming Agents					4					****			
. Iron	0.366	0.388	0.227	0.276	0.556	0.171	0.434	0.270	9.100	0.339	0.381	0.464	0.0471
Odor .	6.56	6.65	6.83	6.86	6.65	. 6.84	6.74	6.84	6.83	6.62	6.82	6.79	
Silver	. 0.00	3.00	- 3.03	. 3,00	0.00	. 0.04	3.74	3.04	3,03	0.02	5.02	0.13	-, -
Sulfate	14.8	14.0	4.8	4.6	7.0	1.0	3.2	1.5	1.0	1.0	1.0	3.6	
Total Dissolved Solids	560	446	472	478	500	446	462	442	458	464	446	416	546
Turbidity Zino	15.0	2.0	6.0	16.5	11.0	3,4	22.0	15.0	12.0	2.8	3.1	2.9	-
Ammonium	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.09	
Gross Alpha (excl. Ra & U)		17.4	9.7	10.4	8.3	9.4	10.9	6.9	10.9	7.4	10.2		12.6
Manganese Elevation								. ,,	0.1				
⊟evalion		I		L									