

Florida Department of Environmental Protection

Southwest District

3804 Coconut Palm Dr.

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia Wetherell, Secretary

June 11, 1993

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Solid Waste Facility

Pending Permits: SO25-214306 (Class I Landfill)

S025-212896 (C & D Debris) WT25-209268 (Waste Tire Site)

Dear Mr. Prestridge:

This is to acknowledge receipt of supporting information related to the application for Hardee County Solid Waste Facility.

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

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

The following information is needed in support of the solid waste applications [Chapter 17-701, Florida Administrative Code (F.A.C.)]:

- 1. Your March 17, 1993 cost estimates have been approved and have been forwarded to Mr. Fred Wick of the Solid Waste Section in Tallahassee. You are requested to work directly with him to obtain approval of Hardee County's financial responsibility documents.
- 2. Sufficient information has been provided in support of the construction and demolition debris disposal and waste tire site activities. These will be included as part of one permit when the other remaining issues are resolved.
- 3. Please provide your response to Ms. Allison Amram's June 11, 1993 attachment memorandum. Ms. Amram may be contacted at (813) 744-6100, extension 336.

Mr. J.R. Prestridge Hardee County Department of Solid Waste June 11, 1993 Page Two

The sequence of filling shown on plans is not 4. sufficient. Leachate generation must be minimized, and also prevented from running off active areas into adjacent stormwater system by constructing berms or Initial or intermediate cover that may receive ditches. leachate shall be graded to shed runoff into the leachate collection system and to minimize mixing of leachate runoff and stormwater. Bales shall be stacked to prevent leachate runoff outside disposal area. Provide rationale in support of structural integrity of the landfill side slopes and top final cover utilizing waste bales. Include frequency of cover and cover depth over stacked bales as well as the depth of bales stacked prior to covering. The filling sequence should be clearly described in 3 month increments until such time as the sequence is repeated or the area has reached final contours.

The drawing provided shows an outdated filling sequence and lacks the detail required to properly operate the landfill. Provide plans and cross-sections showing all berms, berm details, access roads and details, side slopes with intermediate cover, and operation schedule for using future high rise area, and schedule for closure. If any areas will be closed within five years, Hardee County should consider developing closing plans. A recent site inspection showed eroded side slopes. Describe measures to correct and prevent future erosion of intermediate cover.

- The hydrogeologic evaluation by Mevers & Associates 5. verifies that leachate spray irrigated discharges to the creek south of the sprayfield. This is an unauthorized discharge in violation of Department rules and must be The current spraying operation is similar to corrected. recirculation and shall meet the requirements of FAC Rule 17-701.400(5). Leachate management shall meet the requirements of FAC Rule 17-701.500(8). Corrective action plans are required to demonstrate reasonable assurance that leachate will be collected and removed. Lining the south side of the sprayfield appears to be essential to facilitate leachate collection and to prevent unauthorized discharges of leachate. current and proposed spraying techniques do not demonstrate removal. Removal includes basically two options:
 - 1. Evaporation (no mounding)
 - Off-site treatment

Mr. J.R. Prestridge Hardee County Department of Solid Waste June 11, 1993 Page Three

Wade-Trim has requested more time to gather needed information to design leachate management systems. Please be advised: The information needed was requested by FDER on March 22, 1993, see attached letter. Further delays are unacceptable and may result in permit denial and subsequent enforcement action.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. 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 will be grounds for the Department to issue a Final Order of Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can 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, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachments

cc: Steven Dutch, P.E., Wade-Trim
David Mevers, P.E., Mevers & Associates
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Allison Amram, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

	For Routing To Other Than The Addressee
To:	Location:
То:	Location:
То:	Location:
From:	Date:

Interoffice Memorandum

TO:

Kim Ford, P.E.

THROUGH: Robert Butera, P.E.

FROM:

Allison Amram, P.G.

DATE:

June 11, 1993

SUBJECT:

, Hardee County Landfill

Pending Permit No.: SO25-214306

The Solid Waste Section has reviewed the May 17, 1993 submittal from Mevers & Associates addressing the Department's April 13, 1993 comments on the Hardee County Landfill. The following comments need to be addressed:

- The data provided for the field permeability in the recent submittal states that the piezometers have 15 feet of well screen. The March 1993 submittal shows the boring information from these piezometers ending at 15 feet or less. Please provide the entire piezometer boring logs and construction details. This information is needed to evaluate the permeability calculations.
- The MODFLOW model was reviewed from the data disk provided by Mevers 2) & Associates. The model, as constructed, defined both monitoring wells, piezometers and surface waters to be constant head nodes. As leachate spraying continues, these surface water and groundwater elevations change. The model was re-run using variable heads for these nodes, and a mounding effect was still observed in the sprayfield. Under current conditions, it appears that the leachate has created a groundwater mound that is moving toward the south, unlined area of the sprayfield. This migration is not acceptable to the Department. Alternatives need to be presented to the Department to provide reasonable assurance that the leachate is managed in a manner that will not degrade surface or groundwaters. This comment is also included in attached letter from Mr. Kim Ford.

- 3) The following comments refer to the Groundwater Monitoring Plan:
- The Groundwater Monitoring Plan mentions that eight (8) monitoring wells will be monitored, but only seven (7) are present on Plate 4. The Department assumes that these seven monitoring well (MW-1 through MW-7) are all to be monitored in this plan. Is the eighth well the one proposed in the March 1993 submittal to monitor the sprayfield? Please clarify, and provide the location, proposed well construction and purpose of this well.
- Lead shall be sampled quarterly in all groundwater monitoring wells. It appears that this parameter was inadvertently left out of the listed parameters in Section 3 of the submittal.
- Piezometer construction and boring log data must be provided before a determination on the use of these monitoring points can be made (see comment no. 1).
- Leachate sampling for the parameters listed in Chapter 17-701.510 (8)(c) shall be analyzed quarterly. Sampling frequency was not clear in the May 1993 submittal.
- All groundwater monitoring points shall be measured to 0.01 feet accuracy. There is a typographical error in Chapter 17-701.510(9)(a)8 that will be changed in the next rule revision.
- The monitoring plan mentions surface water sampling, but no sampling points are stated. Are there surface water monitoring points at the landfill that will be included in the monitoring plan? If so, please provide these locations.

Please provide two (2) copies of your response to these comments to facilitate the Department's review.



Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Virginia B. Wetherell, Secretary

MAR 2 2 1993

J.R. Prestridge Superintendent Hardee County Solid Waste 74 Hanchy Road Wauchula, FL 33873

RE: Hardee County Landfill Permit No. SO25-096551 Quantity Report

Dear Mr. Prestridge:

The Department requests the following information and/or reports to be submitted prior to May 15, 1993. Please provide daily records from January 1, 1993 through April 1, 1993 for the following:

- * Quantities of leachate collected
- * Quantities of leachate stored or impounded
- * Quantities of leachate recirculated
- * Quantities of leachate hauled or piped to a wastewater treatment plant

This information will be evaluated by the Department. Design or operational changes may be needed to prevent unauthorized discharges or excessive head over lined disposal areas. If you have any questions, you may call me at (813) 744-6100 ext. 382.

Sincerely,

Kim B.Ford, P.E.

Solid Waste Section

Division of Waste Management

cc: Robert Butera, FDER Tampa Steve Morgan, FDER Tampa Kathy Anderson, FDER Tallahassee

Recycled Paper

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION RESOURCE RECOVERY AND MANAGEMENT FACILITY INSPECTION REPORT	• ذ	,	\	
Inspection Date	: 5	21	123	
GMS I.D. No. Inspection Date Facility Name: Permit No.: 5025 04655 Expirate	tion [Date:	5/1	192
Address (or location by section, township and range):				
City: State: Zip:				
Permittee or Operating Authority: City: State:		z	ip: _	
Telephone Number (Permittee or Operating Authority): _(
Inspection Participants - Include All Landfill and Department Employees Specifying Titles (Inspector)				
TYPE OF FACILITY: Sanitary Landfill Volume Reduction				
Class ICompostingShredder	e sope is			•
Class III: Trash/Yard Trash Class III: Yard Trash Composting Resource Recovery Resource Recovery				
Energymaterials				
TYPE OF INSPECTION: Construction Completion (phase)ClosureReinspectionComplaint Response	Fac 0th	ilit ër	y F i l	e Revi
REQUIREMENTS				
THE REQUIREMENTS LISTED ON THIS INSPECTION REPORT ARE BASED UPON RULES OF THE FLORIDA ADMINIS	TRATI	VE C	ODE.	A "NO
RESPONSE TO A REQUIREMENT (UNLESS OTHERWISE NOTED) REFLECTS A VIOLATION OF THE CORRESPONDING EACH VIOLATION IS DISCUSSED IN THE NARRATIVE SECTION OF THIS REPORT.	UCFAR	CIMEN	I KUL	
	Yes	No	Unk	N/A
I CONSTRUCTION VERIFICATION				
1. Subgrade or foundation adequately prepared? 17-7.050(4)(a)(d)	\perp			
2. Liner construction installation according to plans? 17-7.050(4)(a)(c)(d)				 .
3. Leachate control system installation according to plans? 17-7.050(4)(e)(f)	1			
4. Surface water management system construction according to plans? 17-7.050(4)(g)(h)				
5. Gas control system installation according to plans? 17-7.050(4)(i)(j)				
6. Groundwater monitoring system constructed per approved plan? 17-7.050(3)(e)(5)(a)				
II OPERATIONS		ì		
 Copy of approved drawings, plans, reports, operational plan, supporting information, and permit kept on-site? 17-7.030(8) 	. 1			
8. All permit specific conditions complied with? 17-7.030(1)			V	
9. Only permitted waste types disposed of? 17-7.050(1)	/			
10. Sludge properly disposed of at site (indicate type in "comments")? 17-7.050(1)				_
11. Waste quantity/type records kept and forwarded as required? 17-7.050(5)(c)	0			
12. Weighing or measuring of incoming waste? 17-7.050(5)(b)	V			
13. Method and sequence of filling waste according to plans? 17-7.050(5)(b)				
14. Waste compaction as required? 17-7.050(5)(j)				·
15. Working face/grades above ground no greater than a slope of 30 degrees? 17-7.050(5)(k)	U			
16. Narrow working face practiced? 17-7.050(5)(1)	1	`		
17. Attendant present? 17-7.050(5)(d)	~			
18. Sufficient operating equipment? 17-7.050(5)(e)	V			
19. Sufficient reserve equipment (or other arrangements)? 17-7.050(5)(e)	V			
20. Safety devices on equipment to shield and protect operators? 17-7.050(5)(e)		.	<u> </u>	
21. Adequate communication facilities? 17-7.050(5)(d)	~			
22. Salvaging or resource recovery under control of operating authority? 17-7.050(5)(q)				
23. Burning of allowable wastes only, in a properly operated incinerator/trench burner with a valid air permit? 17-7.060(1)				
24. Proper control or disposal of asbestos and other special wastes? 17-7.060	8			
25. Required signs for operational directions and public information? 17-7.050(5)(c)		^		
Department copy (white)				
Facility copy (yellow)				

PERM 20-4 (Revised 8/87)

REQU	TREMENTS	Yes	No	Unk	N/A
III	MAINTENANCE				
26.	Effective and intact barrier to prevent unauthorized entry and dumping? 17-7.050(5)(c)				
27.	Adequate vector control by approved methods? 17-7.050(5)(p)	V			
28.	Disposal area easily accessible? 17-7.050(2)(c)(5)(c)				
29.	Retention and/or detention ponds/ditches, culverts, berms maintained? 17-7.050(4)(g)(h)	/			
30.	Adequate approved dust control methods? 17-7.050(5)(c)				
(31.)	Litter control maintained? 17-7.050(5)(c)		Y		
32.	Fire protection and fire fighting facilities adequate and operational? 17-7.050(5)(c)			V	
$\overline{(3)}$	Groundwater wells intact and functioning properly? 17-7.075(6)				
34.	Gas vents intact and functioning properly? 17-7.050(5)(i)				
IV	WATER MANAGEMENT AND MONITORING				
35.	Groundwater sampling and testing according to standard procedures and at required frequency? 17-7.050(3)(e)(5)(a)			v/.	<u></u>
(36)	Mixing of leachate and stormwater prevented or minimized? 17-7.050(4)(h)		<u>ب</u>		
37.	Stormwater runon/runoff controlled, collected, treated as required? 17-7.050(4)(h)(5)(g)	~			
(38.)	Leachate control, collection and treatment as required? 17-7.050(4)(e)(5)(h)		V	Ĺ	
~ /	COVER				
39.	Adequate quantity of acceptable cover material on hand? 17-7.050(2)(c)			<u></u>	
40.	Frequency, amount and quality of initial cover, as required? 17-7.050(5)(m)	/			
41)	Frequency, amount and quality of intermediate cover, as required? 17-7.050(5)(n)		J		
(<u>42.</u>	Frequency, amount and quality of final cover, as required? 17-7.050(5)(o);17-7.073(6)(c)		V		
(43)	Adequate erosion control? 17-7.073(6)(c)		V	مع	
VI	CLOSURE				
	Final cover installation according to approved design plans and present condition and function adequate? 17-7.073(6)(c)				
45.	Facility meets closure requirements prohibiting unanthorized dumping? 17-7.073(6)(h)				
	All actions for closure completed satisfactorily according to approved closure operation plan? (7-7) (75%7)				
47.	Final survey and as-built report with all survey monuments and other permanent markers installed satisfactorily? 17-7.074(2)(3)				
48.	Authorized use of closed landfill and integrity of environmental protection measures maintained? 17-7.074(6)(7)				
49.	Long term care performed adequately? 17-7.075				
VII 50.	NON-LANDFILL SITES Volume reduction plant operation in compliance with all permit conditions and other				
(51)	applicable requirements? 17-7.090 Transfer station operation in compliance with all requirements and general permit conditions? 17-7.091				
52.	ith all many and conditions of operation? 17-7 060(4)				7
53.	Resource recovery facility in compliance with all permit conditions and applicable			, ,	
	requirements? 17-7.090				
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Wade-Trim

4919 Memorial Highway, Suite 200 Tampa, FL 33634 (813) 882-8366 • FAX: (813) 884-5990

Letter of Transmittal

WT189-01

If transmitted items are not as noted, notify writer immediately.

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o: <u>K</u> <u>F</u>	in Ford	4	Attn:		
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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BOULEVARD

TAMPA, FLORIDA 33610-7347

Syllis Moderan Langem

Protecting Florida and Your Quality of Life

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Notes:

HARDEE COUNTY

LANDFILL MUDFLOW FILES

5/17/1993

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OBCF1 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 3
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    1681 ELEMENTS IN X ARRAY ARE USED BY BCF
    9303 ELEMENTS OF X ARRAY USED OUT OF 517000
ORCH1 -- RECHARGE PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 11
OPTION 1 -- RECHARGE TO TOP LAYER
     840 ELEMENTS OF X ARRAY USED FOR RECHARGE
   10143 ELEMENTS OF X ARRAY USED OUT OF 517000
OSIP1 -- STRONGLY IMPLICIT PROCEDURE SOLUTION PACKAGE, VERSION 1, 9/1/87 INPUT READ FROM UNIT 12
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 OHEAD/DRAWDOWN PRINTOUT FLAG = 1 TOTAL BUDGET PRINTOUT FLAG = 1 CELL-BY-CELL FLOW TERM FLAG = 0
 OOUTPUT FLAGS FOR ALL LAYERS ARE THE SAME:
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 0 14 82.00 86.56 88.91 90.31 91.10 91.41 91.28 90.70 89.59 87.83 85.12 81.83 78.80 74.00 78.33 81.15 83.34 85.73 88.54
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VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP 1 IN STRESS PERIOD 1

0	CUMULATIVE VOLUMES	L**3	RATES FOR THIS TIME STEP	L**3/T
	IN:		IN:	
	STORAGE =	0.00000	STORAGE = STORAGE	0.00000
	CONSTANT HEAD =	0.00000	CONSTANT HEAD =	0.00000
	RECHARGE =	0.57493E+07	RECHARGE =	15752.
0	TOTAL IN =	0.57493E+07	TOTAL IN =	15752.
0	OUT:		OUT:	
	STORAGE =	0.00000	STORAGE = 4	0.00000
	CONSTANT HEAD =	0.57490E+07	CONSTANT HEAD = 1	15751.
	RECHARGE =	0.00000	RECHARGE = 1	0.00000
0	TOTAL OUT =	0.57490E+07	TOTAL OUT =	15751.
0	IN - OUT =			0.70117
0	PERCENT DISCREPANCY =	0.00	PERCENT DISCREPANCY = 70	0

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May 14, 1993

Department of Environmental Fregulation Mr. Kim Ford Division of Waste Management Florida Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, Florida 33619

Re:

Hardee County Landfill

Pending Permit No. S025-214306

Dear Mr. Ford:

In response to your letters of April 15, 1993, we are submitting the following responses:

SOUTH WEST DISTRICT

Group Services:

Engineering Planning **Sciences** Landscape **Architecture** 4 No response required

2. Response to Ms. Allison Amram's memo attached

No response required

4. Attached is a Revised Sequence of Fill plan. The initial lift is based on an annual solid waste volume of 30,910 cubic yards (including interim cover material). Each lift of cells is constructed with a double layer of bales 5 feet high working across the face of the disposal area. Each designated area is approximately 420 x 100' and capable of holding a volume of 7770 cubic yards. Three months waste volume is approximately 7750 cubic yards. The site is filled beginning in the southwest corner of each lift and proceeding in a northerly direction until the designated area is filled. The filling procedure is then repeated in a southerly direction adjacent to the first area. The procedure continues until the entire layer is filled. When a lift is completed, filling begins again at the southwest corner. The top of each succeeding lift is stepped in 15 feet to maintain a 3 to 1 side slope.

Surface runoff from the sideslopes of the landfill drain to the perimeter swales. Since the top of the landfill slopes in a northerly direction, a series of temporary berms and swales should be maintained on the north and east top of slopes to ensure that leachate from the newly placed material is diverted to the dewatering ditch.



Mr. Kim Ford May 14, 1993 Page 2

- 5. Upon review of the revised hydrogeologic evaluation, we propose a meeting between Hardee County and the FDER to discuss viable and permittable options for improving leachate treatment and/or disposal. Initially, we propose that:
 - a. A flow meter be installed at the leachate pump station to accurately measure disposal volumes;
 - b. water levels be monitored in the piezometers on the south side of the leachate disposal area;
 - c. the model be calibrated and rerun based on recorded water levels, rainfall, leachate application rates, and;
 - d. sampling of water in the swale be conducted to determine if leachate indicators are present.
- 6. See response to Ms. Amram's memo

If you have any questions, please call.

Very truly yours,

WADĘ-TRIM, INÇ.

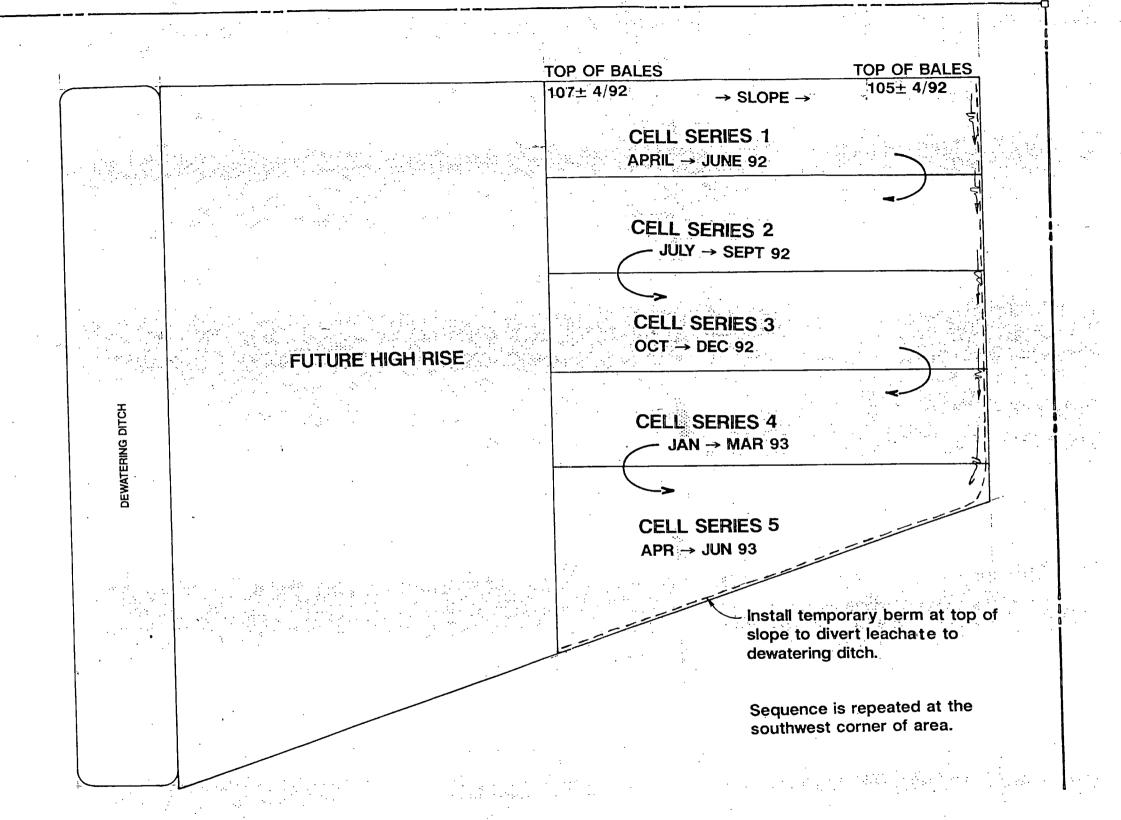
Steven A. Dutch, PE Project Manager

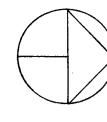
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cc: J.R. Prestridge







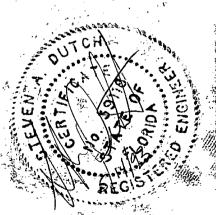


NORTH

D.E.R.

MAY 17 1993

OUTHWEST DISTRICT



SEQUENCE OF FILL

HARDEE COUNTY LANDFILL



Wade-Trim, Inc.

4919 Memorial Highway Suite 200, Tampa, FL 33634 813-882-8366 Fax No. 813-884-5990

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION . - SOUTHWEST DISTRICT

CONVERSATION RECORD

| ate 4-15-93 | Subject GW Manitoring |
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Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm Dr.

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia Wetherell, Secretary

April 15, 1993

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Solid Waste Facility

Pending Permits: SO25-214306 (Class I Landfill)

SO25-212896 (C & D Debris) WT25-209268 (Waste Tire Site)

Dear Mr. Prestridge:

This is to acknowledge receipt of supporting information related to the application for Hardee County Solid Waste Facility.

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

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

The following information is needed in support of the solid waste applications [Chapter 17-701, Florida Administrative Code (F.A.C.)]:

1. Your March 17, 1993 cost estimates have been approved and have been forwarded to Mr. Fred Wick of the Solid Waste Section in Tallahassee. You are requested to work directly with him to obtain approval of Hardee County's financial responsibility documents.

Please provide your response to Ms. Allison Amram's April 13, 1993 attachment memorandum. Ms. Amram may be contacted at (813) 744-6100, extension 336.

Sufficient information has been provided in support of the construction and demolition debris disposal and waste tire site activities. These will be included as part of one permit when the other remaining issues are resolved.

- 4. The sequence of filling shown on plans is not sufficient. Leachate generation must be minimized, and also prevented from running off active areas into adjacent stormwater system by constructing berms or ditches. Initial or intermediate cover that may receive leachate shall be graded to shed runoff into the leachate collection system and to minimize mixing of leachate runoff and stormwater. The filling sequence should be clearly described in 3 month increments until such time as the sequence is repeated or the area has reached final contours.
- 5. The hydrogeologic evaluation by Mevers & Associates verifies that leachate spray irrigated discharges to the creek south of the sprayfield. This is an unauthorized discharge in violation of Department rules and must be corrected. The current spraying operation is similar to recirculation and shall meet the requirements of FAC Rule 17-701.400(5). Leachate management shall meet the requirements of FAC Rule 17-701.500(8). Corrective action plans are required to demonstrate reasonable assurance that leachate will be collected and removed. The current and proposed spraying techniques do not demonstrate removal. Removal includes basically two options:
 - 1. Evaporation (no mounding)
 - Off-site treatment
- 6. Provide plans to comply with FAC Rule 17-701.510, Water Quality and Leachate Monitoring Requirements

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. 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 will be grounds for the Department to issue a Final Order of Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

Mr. J.R. Prestridge Hardee County Department of Solid Waste

April 15, 1993 Page Three

If there are points which must be discussed and resolved, please contact me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachment

cc: Steven Dutch, P.E., Wade-Trim
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Allison Amram, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

| For Routing 1 | o Other Than The Addressee |
|---------------|----------------------------|
| То: | Location: |
| To: | Location: |
| То: | Location: |
| From: | Date: |

Interoffice Memorandum

TO:

Kim Ford, P.E.

THROUGH: Robert Butera, P.E.

FROM:

Allison Amram, P.G. Affuncam

DATE:

April 13, 1993

SUBJECT:

Hardee County Landfill

Pending Permit No.: SO25-214306

The Solid Waste Section has reviewed the March 17, 1993 submittal from Wade-Trim and Mevers & Associates addressing the Department's October 13, 1992 and January 11, 1993 comments on the Hardee County Landfill. These issues were also discussed at a March 1, 1993 meeting at the Department. The following comments on the Mever's submittal need to be addressed:

- 1. What field permeability tests were conducted to determine the 5 feet per day hydraulic conductivity? This was not summarized in Plates 1-3 as referenced in the report. Provide test data, description and results for all permeability tests conducted.
- 2. Test borings P-10, PA-5, and PA-4 did not encounter the clay confining unit described as Units 5 and 6 in the Mever's report. These were shallow borings, but all were in the northeast corner of the site area. It is possible that the clay confining unit is either deeper than the boring, or not continuous across the study area. At this time, no further investigative studies appear to be warranted, but this possible condition should be acknowledged.
- 3. There are differences in the groundwater flow map as prepared based on the MODFLOW model, and with the actual data collected from the wells and piezometers. Field measurements indicate a groundwater mound in the sprayfield, but not in the landfill. Piezometers in the landfill indicate that the leachate levels are below that of the surrounding groundwater outside the landfill, which supports the inward gradient, but there are no data points in the landfill that support the groundwater mounding that MODFLOW presented. Please evaluate the field data

and prepare a groundwater contour map of the surficial aquifer, placing the water elevations in the wells/piezometers on the map. Also describe the possible influences to groundwater flow conditions of the landfill, sprayfield, dewatering ditch, ditch/creek located south of the sprayfield, and the low-lying, swampy areas that appear to be located west of the site road. From the groundwater elevations measured, and the MODFLOW model, it appears that the sprayfield has caused a groundwater mound which may discharge into the ditch located south of the sprayfield. This condition could adversely impact both ground and surface waters, and therefore is unacceptable to the Department.

- 4. The MODFLOW data presented in Appendix A is insufficient for the Department to evaluate. The following items are necessary for review:
 - A site map with the grid overlay to locate the monitoring points, sprayfield, dewatering ditch, creek and swampy area to evaluate the output.
 - Input parameters, and the source of that data.
 - Initial head array to observe piezometer/well heads.
 - Size of the grid spacing.
 - Recharge array to observe where recharge was set to occur, and how much recharge is applied.
 - Boundary array to observe how the dewatering ditch and creek boundaries were defined.
 - The model needs to be refined so that cells do not go dry, as shown in both time steps. Once the cell goes dry, the information provided in adjacent cells has greater error.
 - A copy of the data diskette is also useful for review of the model.
- 5. In order for the Department to prepare an operating permit for this facility, a water quality and leachate monitoring plan needs to be proposed. This plan shall include all applicable conditions of Chapter 17-701.510, Florida Administrative Code. The plan shall specifically include groundwater monitoring wells to be sampled (including the location of the proposed well south of the sprayfield), piezometers to be monitored for water levels, location and monitoring frequency of the staff gauge in the dewatering ditch, surface water and leachate sampling points, the screened interval of wells MW-1, MW-2 and MW-3.

| We will be a second of the sec | Department of Environmental Regulation | |
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Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm Dr.

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia Wetherell, Secretary

APR 1 3 1993

J.R. Prestridge, Solid Waste Superintendent Hardee County P.O.Box 246 Wauchula, FL 33873

RE: Hardee County Sanitary Landfill

Permit No.: SO25-164435

Dear Mr. Prestridge:

The permit conditions for Hardee County Sanitary Landfill specify the frequency and sampling parameters for the groundwater monitoring plan. Review of your latest groundwater reports, dated March 30, 1993, indicates the following deficiencies:

All wells were not sampled and analyzed. Reports should include: MW-2

Please correct these issues prior to the next report period or enforcement action will be considered. If you have any questions please call me at (813) 744-6100 ext. 336.

Sincerely,

Allison Amram, P.G.

Environmental Specialist

Department of Environmental Regulation

Allion E Amein

cc: Steve Morgan, FDER



Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm 813-744-6100 Tampa, Florida 33619

Virginia B. Wetherell, Secretary

MAR 2 2 1993

J.R. Prestridge Superintendent Hardee County Solid Waste 74 Hanchy Road Wauchula, FL 33873

RE: Hardee County Landfill Permit No. SO25-096551 Quantity Report

Dear Mr. Prestridge:

The Department requests the following information and/or reports to be submitted prior to May 15, 1993. Please provide daily records from January 1, 1993 through April 1, 1993 for the following:

- * Quantities of leachate collected
- * Quantities of leachate stored or impounded
- * Quantities of leachate recirculated
- * Quantities of leachate hauled or piped to a wastewater treatment plant

This information will be evaluated by the Department. Design or operational changes may be needed to prevent unauthorized discharges or excessive head over lined disposal areas. If you have any questions, you may call me at (813) 744-6100 ext. 382.

Sincerely,

Kim B.Ford, P.E. Solid Waste Section

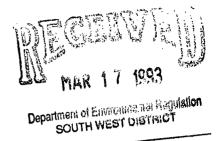
Division of Waste Management

cc: Robert Butera, FDER Tampa Steve Morgan, FDER Tampa Kathy Anderson, FDER Tallahassee



March 17, 1993

Mr. Kim Ford Division of Waste Management Florida Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, FL 33619-8318





Re: **Hardee County Landfill**

Permit No. 5025-214306 and SC2S-212896

Dear Mr. Ford:

In response to your letters of October 13, 1992, and January 11, 1993, our meeting of March 1, 1993 and your conversation with J.R. Prestridge of Hardee County we are submitting the following information:

ic+13,1992 #5

Enclosed is estimate for closure and long term care as submitted in July 1992.



Enclosed are two revised sets of plans showing the approximate 1997 cross sections and the 1997 contours.



The final cover material will be excavated from an off-site location as yet undetermined. The material will be a clay with an anticipated permeability of less than 1.0 x 10-7 cm/sec.

- 4. Enclosed is leachate control system evaluation.
- sk 5. No response required per your telephone conversation with J.R. Prestridge.
 - 6. See response to #4. No operations manual for the leachate system was developed as part of the design of the system other than the information contained in the Operation Plan. Hardee County has not been monitoring the system as proposed in the March 20, 1987 Ardaman Associates letter.
 - 7. Mary Yeargan's Memo
 - **(1)** No response required.
 - Construction details and lithologs for MW-1, MW-2 and MW-3 have not be found in the County's files.



Services:

Engineering Planning **Sciences** Landscape Architecture



Mr. Kim Ford March 17, 1993 Page 2

- (3) No response required per your conversation with J.R. Prestridge.
- (4) See response to # 6. above
- (5) Attached is monitoring well information.
- (6) No response required per your conversation with J.R. Prestridge.
- (7) No response required.
- (8) All drawings, reports and documents are sealed.

If you have any questions, please call.

Sincerely,

WADE, TRIM, INC.

Steven A. Dutch, PE Project Manager

SAD:ram
HAR1:KIMFORD.LTR
HAR2001.01

Attachment

cc: J.R. Prestridge, Hardee County





STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION FINANCIAL RESPONSIBILITY CHECKLIST

ID NO.

| GENERAL INFORMATION: | | | | | | ID NO. | |
|---|-------------------------|---|--------------------|---|----------------------|--|---------|
| Facility Name: | Hardee County Region | nai LF | | Permit No.; _ | S025-096551 | . Expiration Date: | 6/11/92 |
| Address (Main Entrance): | 74 Hanchey Road, Wa | auchula, FL 33873 | 1 | | | | |
| Address (Mailing): | P. O. Box 24 | | | | | | |
| Permittee (Operating Authority): | Hardee County | | Facility Lat/Long: | 81 degrees 47° 1°/27 degree | s 34' 10° | Fill Acreage: | 11.86 |
| TYPE OF LANDFILL: X Class I Class II Class II:Trash/Yard Trash Exempl;Type of Exemption: | | | | Closure Plan Approved: | × | Yes
No | |
| Reviewing Person (Include Title): | | | | | | Date: | |
| IL GENERAL SOLID WASTE LA | NDFILL: | | | | | | |
| A. Type of Financial Document Sut | omitted to Ensure Final | ncial Responsibility | . | ६. वृक्षा च ५० व केवाचच च्याव अस्ति।
- | district of | | • ,- |
| Trust Fund Agreement Letter of Credit Insurnace Certificate Standby Trust Fund Agreeme | erat | | X | Performance Bond (only for Financial Guarantee Bond Escrow Account Other (Explain): | landfills with an ap | oproved closure plan) | |
| B. General Solid Waste Landii Esti ITEM 1. GROUNDWATER MONITORING Quality Sampling | | al Cost of Long Ter <u>UNIT COST</u> \$3,300/sample | m Care. | TOTAL ANNUAL COST \$18,000.00 | | SOURCE OF ESTIMATE
(Third Party Work)
See Attached | |
| 2. GAS MONITORING | | | | | | | |
| 3. MAINTENANCE OF LEACHATE
COLLECTION SYSTEM GRO
MONITORING WELLS | | | | \$500.00 | | | , |
| 4. COLLECTION AND DISPOSAL
TREATMENT OF LEACHATE | | | - | \$1,000.00 | | | |
| 5. BENCHMARK MAINTENANCE | | | • | · <u>· · · · · · · · · · · · · · · · · · </u> | | | |
| 6, LANSCAPE MAINTENANCE
Mowing
Fertilizing
Sprinkling | | | | \$500.00 | | | |
| 7. MAINTENANCE OF COVER
INTEGRITY AND SURFACE
WATER CONTROLS | | | - | \$500.00 | | | |
| 8. REMEDIAL ACTION | | 15% | - | \$2,000.00 | 11 | | • |
| TOTAL ANNUAL COST OF | LONG TERM CARE | | | \$28,000.00
\$\sqrt{9}\O | | | • |

B. General Solid Waste Landfill Estimated Itemized Closure Cost for the Time Period in the Landfill Operation when the extent and Manner of its Operation Makes Closing Most Expensive

| Most Expensive | | | |
|--|---|------------------------------|--|
| IIEM . | UNIT COST | TOTAL ANNUAL COST | SOURCE OF ESTIMATE
(Third Party Work) |
| 1. MONITORING WELLS Borehole Excavation Backfill Gravel Pack Slotted Screen Casing Cap | | \$0.00 | See Attached |
| SLOPE AND FILL Excavation Placement/Spreading Compaction Delivery of Off Site Material | | \$4,000.00 | |
| 3. COVER MATERIAL Clay Admixture Sysnthetic Material On-site Clay/Soll Off Site Clay/Soll | 9.00/CU | \$412,605.00 | |
| 4. TOP SOIL COVER Purchase Delivery Spreading Compaction | 225/CU | \$25,787.00 | |
| CONTOUR GRADING AND SURFACE WATER DIVERSION (STORMWATER CONTROL Excavation, Grading and Recontouring Diversion Ditch and Berm Construction | | \$2,000.00 | |
| GAS MIGRATION CONTROL Passive Type Active Type Sprinkling | | \$15,000.00 | |
| 7. REVEGATATION Spreader Soll Preparation/Grading Seeding Fertilizer Mulich Sprinkling | | \$500.00 | |
| 8. SECURITY SYSTEM Fending Gate(s) Sign(s) | | \$0.00 | |
| 9. BENCHMARK INSTALLATION | *************************************** | \$0.00 | |
| 10. CERTIFICATION OF CLOSURE | | \$20,000.00 | |
| | TOTAL CLOSURE COST | \$479,892.00 | |
| | PROJECT CONTINGENCY TOTAL | \$119,973.00
\$599,865.00 | de al |

Hardee County Regional Landfill

Permit No. SO25-096551

Basis of Closure and Post Closure Costs

Costs are based on estimated 1993 construction costs

CLOSURE COSTS

MONITORING WELLS:

Ground water sampling and monitoring will continue as required by the Permit. No new monitoring wells should be required for closure.

Estimated Cost: \$0.00

BACKFILL:

It is expected that the disposal site can be readily placed into an acceptable closure condition; 3:1 slopes and appropriate top grades by suing on site equipment and clay materials.

Estimated Cost: \$4,000.00

CLAY CAP:

The site will be capped by (2) feet for compacted clay, obtained from an off-site source to be developed at time of closure. The cap is expected to have a permeability of less than 1 X 10⁻⁷ cm/sec. This will require: 38,200 cubic yards, 45,850 loose cubic yards at 20% swell over the 11.82 acre site, which will require soil cover. The estimated unit cost is \$9.00/CY.

Estimated Cost?

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(E)

TOPSOIL:

The site development plan requires a topsoil cover of $\underline{6}$ inches over the two (2) feet compacted clay cap (10,971 loose cubic yards at 15% swell). The estimated cost is \$2.25 dollars per loose cubic yard.

Estimated Cost: \$25,785.00

CONTOUR GRADING/SURFACE WATER:

Placement of the site into a closure configuration and appropriate final cover, requires contour grading to insure surface water drainage. This is accomplished as the materials are being placed. The site will require finish grading.

Estimated Cost: \$2,000.00

GAS MIGRATION CONTROL:

The synthetic liner should prevent any gas migration off site. A gas venting system consisting of perforated PVC pipe placed in the top layer interim cover with vents at regular intervals will be constructed. Approximately 1500LF of collection pipe will be required configuration of the system will be determined by the gas migration investigation to be conducted as part of the Closure Plan. Odor control is not anticipated at this time.

Estimated Cost: \$15,000.00

BENCH MARKS:

The property in which Phase I of the Hardee County Sanitary Landfill is located, has survey markers already in place.

Estimated Cost: \$0.00

LANDSCAPING:

The Hardee County facility will be landscaped using sand and clay found within the property boundaries. These soils readily support native vegetation. It is expected that fertilizing will not be required on a regular basis.

HAR1:HARDEECT.RPT HAR2001.01



REVEGETATION:

After placing a final cover, seeding of site will be done to provide a quick cover for erosion control and to provide a permanent grass cover to blend in with the surrounding area.

Estimated Cost: \$500.00

SECURITY SYSTEM:

The in place fencing, gates, and attendants should provide ample security to the closed site.

Estimated Cost: \$0.00

POST CLOSURE COSTS

SAMPLING:

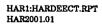
The monitor wells will be sampled quarterly, the first three (3) years. Upon satisfactory results from this program, the sampling will be reduced to a semi-annual frequency for the next seventeen (17) years. Labor, equipment, and expenses for each of these events is estimated at \$1,500.00.

Year 1 thru 3 - Estimated Cost: \$6,000.00/yr. Year 4 thru 20 - Estimated Cost: \$3,600.00/yr.

CHEMICAL ANALYSIS:

The analytical chemistry shall be completed as required under 17-701. The cost per sample is estimated at \$500.00. The facility utilizes six (6) groundwater monitoring wells. The total cost for chemical analysis will be (\$500.00/sample) (6 samples/sampling events) (46 events).

Year 1 thru 3 - Estimated Cost: \$12,000.00/yr. Year 4 thru 20 - Estimated Cost: \$6,000.00/yr.





GAS MONITORING:

Gas monitoring will be conducted quarterly with groundwater sampling combustible gas levels will be measured in accordance with 17-701.

Estimated Cost: \$500.00

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LEACHATE COLLECTION:

The operation of the leachate collection and spray field will continue after closure of the landfill. Pump stations and spray field will be maintained.

Estimated Cost: \$1,500.00/yr.

LEACHATE SYSTEM MONITORING REPORT:

An evaluation of the leachate control system shall be prepared annually by a professional geologist or engineer based on review of collected samples, water level data and operating data in accordance with 17-701.

Estimated Cost: \$5,000.00/yr.

LANDSCAPE MAINTENANCE:

Landscape maintenance will consist of mowing as needed to control natural vegetation.

Estimated Cost: \$500.00/yr.

COVER MAINTENANCE:

Maintenance of the cover will consist of repair of depressions and erosion area.

Estimated Cost: \$500.00/yr

REMEDIAL ACTIONS:

A ±15% contingency will be set aside for remedial action if necessar

Estimated Cost. \$2,000.00

HAR1:HARDEECT.RPT HAR2001.01



HARDÉE COUNTY LANDFILL GROUNDWATER LEVELS

| | | | | SAMPLE (| DATE | | | | | | | | | | | | | | |
|-----------|------------|---------|--------|----------|---------|---------|---------|--------|---------|----------|--------|---------|---------|----------|---------|--------|--------|---------|---------|
| PARAMETER | TOP OF WEL | 12/1/87 | 3/8/88 | 6/8/88 | 9/16/88 | 12/9/88 | 3/27/89 | 6/8/89 | 8/30/89 | 11/15/89 | 2/2/90 | 4/30/90 | 7/25/90 | 11/14/90 | 1/23/91 | 5/7/91 | 8/6/91 | 11/4/91 | 2/17/92 |
| WELL#1 | 87.97 | 83.8 | 84.05 | 79.6 | 84.06 | 81.64 | 80.97 | 80.72 | 82.3 | 82.09 | 81.89 | 80.89 | 83.8 | 82.75 | 82.17 | 81.67 | 84.39 | 82.37 | |
| WELL#2 | 85.86 | 80.44 | 81.03 | 78.65 | 80.77 | 78.03 | 77.74 | 78.11 | 79.86 | 78.86 | 78.7 | 77.78 | 79.53 | 78.88 | 78.86 | 78.94 | 81.4 | 79.36 | 78,56 |
| WELL#3 | 87.75 | 80.83 | 80.5 | 79.17 | 84.25 | 81.33 | 79.92 | 77.67 | 81.08 | 81.17 | 81.33 | 80.92 | 81.71 | 81.83 | 81.26 | 80.75 | 84.5 | 82.15 | |
| WELL#4 | 87.16 | 79.75 | 82.5 | 79.6 | 83.09 | 79.74 | 78.91 | 77.91 | 81.74 | 80.08 | 80.08 | 79.12 | 80.16 | 80.5 | 79.96 | 79.58 | 82.49 | 80.41 | - |
| WELL#5 | 88.76 | 77.95 | 80.51 | 77.43 | 81.34 | 78.09 | 77.01 | 76.09 | 78.76 | 79.26 | 83.18 | 77.8 | 78.05 | 78.03 | 76.76 | 78.34 | 78.41 | 76.86 | |
| WELL#6 | 87.94 | 80.03 | 81.11 | 78.36 | 83.4 | 81.94 | 81.19 | 79.52 | 82.86 | 81.94 | 82.69 | 80.98 | 81.89 | 82 | 82.29 | 81.52 | 81.95 | 79.75 | |
| WELL#7 | 87.51 | 81.51 | 81.43 | 78.09 | 83.24 | 81.5 | 80.8 | 79.01 | 82.09 | 81.34 | 81.76 | 80.51 | 81.89 | 81.21 | 63.65 | 80,93 | 83.3 | 81.21 | |

NOTE: DATAON WATER ELEVATIONS PROVIDED TO WADE-TRIM AS ELEVATI ONS. NO PAW MEASUREMENTS PROVIDED.

3/1/93 HARING LE

| Aan | namet | PHONE | Company |
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| STEVENG. MOR | (| (813)744-6100 x385 | FOER |
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| | | Wade-Trim | · · · · · · · · · · · · · · · · · · · |
| | Group
Services: | Steven A. Dutch, PE | , |
| | Engineering
Planning
Sciences | Local Government Group Manager | |
| | Landscape
Architecture | | |
| | | 4919 Memorial Highway • Suite 200 • Tampa, FL 336 | |
| un a management a m | | 813-882-8366 • FAX: 813-884-5990 | |
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| | 1 | ज्ञाबर्गक्षराराव द्रावारम्यानस्य | • |
| : | | David A. Mevers, P.E. President | |
| | Spe | ecializing in Geotechnical, Hydrogeologic,
and Environmental Consulting Services | |
| | | Pines Drive • Suite 210 • Largo, FL 34641 • (813) 530-353 | |

3/1/93 Hardee Co mita Kim Ford Reference to Oct 1992 letter

Here of the standard of the stan iner adj to MWs to check diection of gradient - will survey - Borings outside CF to get WLS more pris will survey -staff gauge present in Vitch -- will make sure to monitor -aked to provide MW1-3 construc, details - intial gumon - Ca. will provide renewal - he has parameter list, will make sure that it gets included in 200 G 1993 Sampling - April the County representative attended to My reviewed outstanding permit issues; permit has expired.

Discussed add'l pr's in Spray field & between MW7,8 & ditch Submittal will be in 3/17/93 - will show the results of the borings + water levels

YCHOO IA Hardee Co. 128 93 ED LAND. 128 93 Legen. Roview of Comments 1/28/93 I have no comment on your 1/11/93 letter. For the Oct 13,1992 letter: For 3/92 + 8/92 Go water elevations for the ditch were included) & it shows a mound over the Lanfill + Sprayfield (see attached) An overand gradient appears to be present. I'd suggest that They include wester level monitoring of the ditch. - They have suggested this, but never provided the desta. For Mays Oct 27, 1992 comments 1. A' compilation of data from 1985-present appears a dequate to address 17-522.6 An ufdated potable well survey (2/30/92) was provided by wade Trim 2. May be in archived 1985 Seaburn & Robinson report. We have some well construction data, but us info on well seal or filter pack. 3. I nade up water table naps for 5/92 + 8/92.

Both show mounding under the landfill & spray held.

| | 3 (cont) They need to evaluate the ditch wi |
|--|--|
| | 3 (cont) They weed to evaluate the ditch wij
the groundwater elevations. Looks like a
high risk flow pattern up the current into
*, really, the ditch won't make much difference. |
| | high risk flow pattern w/ the current into |
| , | * really the ditch won't make much difference. |
| | |
| | 14. This asks for water levels in the ditch. They |
| | Wolveteered this info earlier & vevor produced. |
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| , , , <u>, , , , , , , , , , , , , , , , </u> | 5. Deleke. Request for wext 1/4 info. |
| | |
| | 6. This was provided. However, I never |
| | 6. This was provided. However, I never Found the results of their initial gw sampling Please provide. |
| | Please provide. |
| | |
| | 7. Delete. I looked @ Au parameters +
did not see significant trends |
| | did not see significant trends |
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| · | 8. Do 14. |
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| | 9. Seal interpretive reports. |
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| · <u>·</u> • · · · · · · · · · · · · · · · · · · | AA |
| | 1/28/4-3 |
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 \mathbf{d}

Hardee County LF

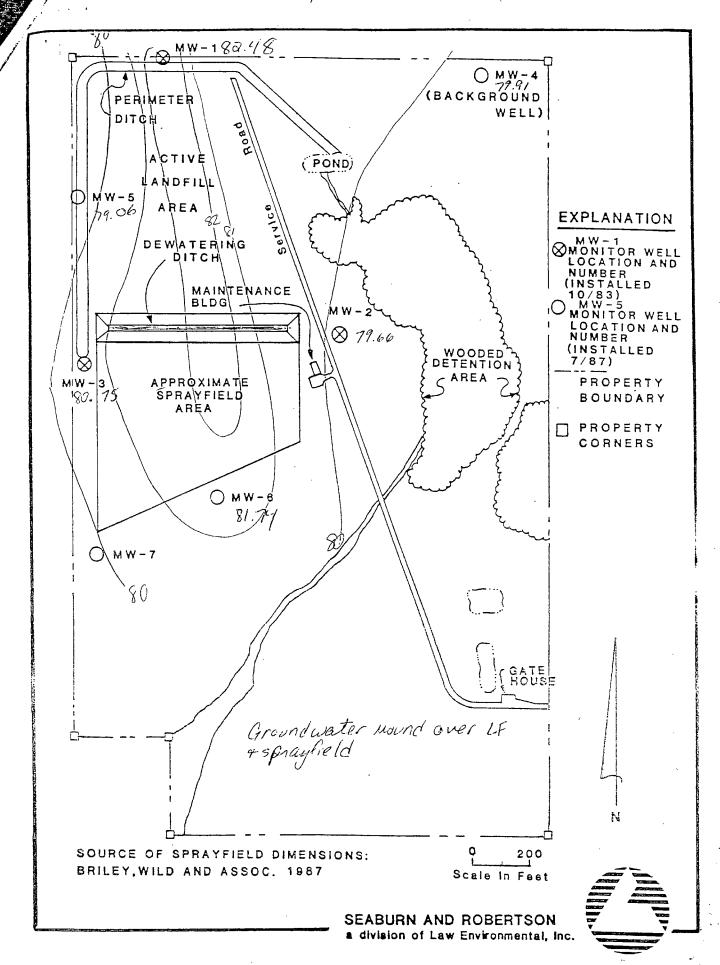


FIGURE 2.- LOCATION OF MONITOR WELLS.

May 4,1992 - Dry Siason

Ha lee Co LF MW-1 O MW-4
SI.ST PERIMETER WELL) DITCH ACTIVE POND) LANDFILL **MW-5** 80.\$3 AREA **EXPLANATION** DEWATERING MW-1 MONITOR WELL LOCATION AND DITCH NUMBER (INSTALLED 10/83) MAINTENANCE B/L D G 81 MONITOR WELL 80/37 LOCATION AND NUMBER (INSTALLED WOODED 80.56 DETENTION 7/87) AREA -MIW - 3 APPROXIMATE PROPERTY SPRAYFIELD BOUNDARY AREA PROPERTY CORNERS M W − 6' 83.56 O MW = Z Groundwater mound over landfill + sprayfield, flow in all directions out from IF SOURCE OF SPRAYFIELD DIMENSIONS: 200 BRILEY, WILD AND ASSOC. 1987 Scale in Feet SEABURN AND ROBERTSON a division of Law Environmental, inc.

FIGURE 2.- LOCATION OF MONITOR WELLS.

August 20, 1992 - Wet Seasor



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

Hardee County Board of County Commissioners James Harrison, Chairman Room A-204, Courthouse Annex 412 West Orange Street Wauchula, FL 33873-2867 FEB 1 2 1993

Re: Hardee County Regional Landfill Closure and/or Long-term Care Permit # SO25-096551, Hardee County

Dear Mr. Harrison:

A review of Department files indicates that the annual cost estimates for closure and long term care for the above referenced facility have not been received by the Department, as required by Florida Administrative Code, (FAC), Rule 17-701.630(4). All cost estimates shall be prepared in accordance with FAC Rule 17-701.630 (attachment), signed and sealed by a professional engineer, and submitted to the District office for review. Please note that for facilities which receive waste after January 6, 1993, annual long-term care estimates should be based on 30 years of post closure long-term care.

You are requested to submit the requested information to the Department as soon as possible. Please be advised that should the cost estimates for the subject facility not be received by the Department within 45 days of receipt of this letter, the Department will initiate enforcement action to bring the facility into compliance.

If you have any further questions, please contact Kim Ford at (813) 744-6100 ext. 382.

Sincerely,

Robert J. Butera, P.E.

Solid Waste Manager

Waste Management Division

cc: Fred Wick, FDER, Tallahassee Kim Ford, FDER, Tampa Steve Morgan, FDER, Tampa Attachments RB/dn

Recycled Paper
Printed with Soy Based Inks

February 10, 1993

D. I. I.

FEB 1 1 1993

Mr. Kim Ford Division of Solid Waste Management 3804 Coconut Palm Drive Tampa, Florida 33619

VOLVAL LUICAGE ESTABLICA LUICE LE LONGO V



Re:

Hardee County Landfill

Pending Permit No. S025-214306

Dear Mr. Ford:

Group Services:

Engineering Planning Sciences Landscape Architecture Due to the changes in comments and responses necessary and additional comments received, we are requesting on behalf of the County, an extension in submittal date to March 17, 1993.

If you have any questions, please call.

Very truly yours,

WADE-TRIM, INC.

Steven A. Dutch, PE Project Manager

SAD:amf HARLFORD.LTR HAR2001.01

cc: J.R. Prestidge, Hardee County



PROEE COUNTY 21

- HARDEE COUNTY -

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

January 25, 1993

D.E.R.

Department of Environmental Regulations Attention: Kim B. Ford, P.E. Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive Tampa, FL 33619-8318

SOUTHWEST DISTRICT

RE: Pending Permit SO25-214306, Class I Landfill

Dear Mr. Ford:

Hardee County Board of County Commissioners have been requested to authorize a hydrogeologic evaluation of the landfill in order to respond to your questions on the permit renewal application.

Hardee County Sanitary Landfill was studied extensively by Envisors prior to construction and was constructed as approved by the FDER. Seaburn and Roberts did Hydrological studies. In addition, landfill improvements were made by Briley, Wild and Associates, which included leachate control system spray field irrigation, extended side liners and the installation of two additional monitoring wells which were also approved by the FDER.

The Hardee County Board of County Commissioners questions the need for the additional work and would like for FDER to explain why the additional work is required to renew the operating permit.

The commissioners have scheduled a meeting for 1:30 p.m., on February 1, 1993, at the Hardee County Court House located at 412 West Main Street. They request that a representative from FDER attend the meeting to explain the need for additional hydrogeological evaluations of the Class I Landfill.

Should you have any questions or comments please contact the solid waste department.

Sincerely,

IJ.R. Prestridge,

Solid Waste Superintendent

jw

Phone: (813) 773-5089 • FAX: (813) 773-0958

HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS

Room A-204, Courthouse Annex 412 West Orange Street Wauchula, Florida 33873-2867 (813) 773-6952 • (813) 773-9430 • FAX (813) 773-0958

MINOR L BRYANT District !

BENNY W. ALBRITTON District II

> TED HITE District III

ROYCE TYSON, JR. District IV

WALTER OLLIFF, JR. District V

> GARY ODEN County Manager

GARY A. VORBECK County Attorney

FAX TRANSMITTAL

6P-66-1:DATE TIME: 1:10 p.m.

TO: DER Kim Ford

COPIES TO:

FAX NUMBER: 913-744-6090 FROM: Hardee County

SUBJECT: Pending Perm

#5035-214306

NUMBER OF PAGES: (Including this sheet)

PLEASE DELIVER THESE PAGES TO THE INDIVIDUAL NAMED RECEIVING THIS IF YOU HAVE ANY DIFFICULTY TRANSMISSION OR IF PAGES ARE MISSING OR ILLEGIBLE, PLEASE CALL 813/773-6952 OR 813/773-9430 AND SPEAK WITH:

COMMENTS:







Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

January 25, 1993

Department of Environmental Regulations Attention: Kim B. Ford, P.E. Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive Tampa, FL 33619-8318

RE: Pending Permit SO25-214306, Class I Landfill

Dear Mr. Ford:

Hardee County Board of County Commissioners have been requested an authorize a hydrogeologic evaluation of the landfill in order to respond to your questions on the permit renewal applications.

Hardee County Sanitary Landfill was studied extensively by French prior to construction and was constructed as approved by the FDER. Seaburn and Roberts did Hydrological studies. In dition, landfill improvements were made by Briley, Wild and Association, which included leachate control system spray field irrigation, extended side liners and the installation of two additional monitoring wells which were also approved by the FDER.

The Hardee County Board of County Commissioners questions the need for the additional work and would like for FDER to explain why the additional work is required to renew the operating permit.

The commissioners have scheduled a meeting for 1:30 p.m., on February 1, 1993, at the Hardee County Court House located at #12 West Main Street. They request that a representative from FDER attend the meeting to explain the need for additional hydrogeological evaluations of the Class I Landfill.

Should you have any questions or comments please contact the solid waste department.

Sincerely,

V.R. Prestridge,

Solid Waste Superintendent

JW



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles. Governor

813-744-6100

Carol M. Browner, Secretary

January 11, 1993

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Solid Waste Facility

Pending Permits: SO25-214306 (Class I Landfill)

SO25-212896 (C & D Debris)
WT25-209268 (Waste Tire Site)

Dear Mr. Prestridge:

This is to acknowledge receipt of supporting information related to the application for Hardee County Solid Waste Facility.

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

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

The following information is needed in support of the solid waste applications [Chapters 17-701 and 17-711, Florida Administrative Code (F.A.C.)]:

Provide all the information requested in the Department's October 13, 1992 letter and its attachments.

The cost estimates by Wade-Trim dated November 13, 1992 are not acceptable. In order to approve the financial responsibility cost estimates for closure and long-term care, please indicate the source of clay on the plans and provide the permeability of the clay to be used for final cover. Verify that the clay is in sufficient quantity to complete closure and is appropriate for use as final cover so that it can be easily worked to obtain the required permeability and thickness. Also, include the cost of installing gas vents and gas monitoring. In the estimate for leachate management, include the cost of sampling and analyses of treated effluent prior to spraying and monitoring the spray irrigation system. Cost estimates must be signed and sealed by a professional engineer. Approved cost estimates will be forwarded to Mr. Fred Wick of the Solid Waste Section in Tallahassee. requested to work directly with him to obtain approval of Hardee County's financial responsibility documents.

Recycled Paper

Mr. J.R. Prestridge Hardee County Department of Solid Waste

January 11, 1993 Page Two

3. Sufficient information has been provided in support of the construction and demolition debris disposal and waste tire site activities. These will be included as part of one permit when the other remaining issues are resolved.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. 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 will be grounds for the Department to issue a Final Order of Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can 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, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Can v

Division of Waste Management

KBF/ab Attachments

cc: Steven Dutch, P.E., Wade-Trim
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Mary Yeargan, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

October 13, 1992

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Landfill

Pending Permit No.: S025-214306

Hardee County

Dear Mr. Prestridge:

This is to acknowledge receipt of your applications for landfill operation.

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

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

The following information is needed in support of the solid waste applications [Chapters 17-701 and 17-711, Florida Administrative Code (F.A.C.)]:

In order to approve the financial responsibility cost estimates for closure and long-term care, please indicate the source of clay on the plans and provide the permeability of the clay to be used for final cover. In the estimate for leachate management, include the cost of monitoring the spray irrigation system. Cost estimates must be signed and sealed by a professional engineer. 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 Hardee County's financial responsibility documents.

(2.)

Cross-sections showing both original and proposed fill elevations are required. Proposed fill cross-sections should show the final elevations at the landfill, sequence of filling and lift heights. Plans showing the 1997 final contours cannot be found. Please submit 2 sets of updated plans, signed and sealed by a professional engineer.

Recycled Paper

Mr. J.R. Prestridge Hardee County Department of Solid Waste

October 13, 1992 Page Two

Source location, quantity, and characteristics of final cover material.

4. A evaluation in report form of the condition and effectiveness of the existing leachate control and removal system performance, spray field including water balance calculations, and the surface water management system. The report shall contain professional conclusions and recommendations and shall be signed and sealed by a professional engineer.

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Contratant

The leachate levels inside the landfill shall remain below the water levels outside the landfill. Provide reasonable assurance to show that an inward gradient will be maintained continuously since this is the basis of FDER's previous approval of the landfill containment and leachate removal system, including the sprayfield.

All monitoring wells and piezometers must be shown on plans. The site evaluation report shall provide conclusions and recommendations regarding the possible need for additional wells and piezometers for the landfill and sprayfield. A water table contour map shall be provided for the wet and dry seasons for the past 12 months. Record drawings of the leachate collection and removal system are requested.

Provide the HELP or similar model data that shows the monthly quantity of leachate generated and the monthly quantity of other drainage and seepage expected to reach the dewatering ditch. The total quantity sprayed should be in gallons and include seepage from the landfill, sprayfield, and runoff from the unclosed portions of the landfill.

To confirm the quantity and quality of leachate to be sprayed, provide the past 12 months of data from the monitoring program specified on page 10 of Ardaman's March 20, 1987 report and the past 12 months of data from permit SO25-096551 specific condition #9 (see attachments).

Information found in previous reports from the FDER's files indicate Hardee County has been allowed to spray up to 2 inches of leachate in one day, based on spraying only once per week. This application rate equates to 250,000 gallons of leachate sprayed in one day which is not acceptable. For more recent projects a maximum application of .2 inches in one day was used to prevent runoff of "treated effluent".

WELL MODEL ME CONTRACTOR CONTRACT

October 13, 1992 Page Three

Please provide the HELP or similar model data that shows the maximum daily rate of spray irrigation included with rainfall to determine how many days runoff would be expected and how many days of storage would be required for the leachate dewatering ditch/holding pond. The model should consider the slope and characteristics of the final cover and the soil and runoff characteristics of the sprayfield. Explain how runoff will not occur from spray irrigation based on the following condition:

This permit allows spray irrigation of a maximum 25,000 gallons per day (24 hours) at an application rate of .20 inches per day of leachate from the associated dewatering ditch. Under no circumstances shall leachate be allowed to discharge as runoff to adjacent stormwater systems or conveyance ditches. Spraying shall take place only when runoff into the onsite retention areas downgradient from the spray areas has terminated for 24 hours. The aforementioned is based on daily inspections of the influent point to retention area, or as follows, whichever is more restrictive:

- a. at least 4 hours after a rainfall of 1/4" or less or
- b. at least 24 hours after a day or rainfall of 1/4/
- c. at least 48 hours after a day or rainfall of 1" or greater

The ... "maximum 15 000 gallons per day (24 hours) at an application rate of .20 inches per day"... is used as an example and may be revised to fit actual site conditions. All other parts of this permit condition will remain unchanged. A berm/swale system may be required along the south border of the sprayfield to allow runoff to be more easily detected. Plans shall show the location of all sprayheads and the spraying pattern of each. An operations manual for the spray irrigation system is requested.

7. Your response to Mary Yeargan's June 26, 1992 attached memorandum. Ms. Yeargan may be contacted at (813) 744-6100, extension 376.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. If the response will require longer than 30 days to develop, you should develop a specific time table

October 13, 1992 Page Four

for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department will 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 can reapply as soon as the requested information is available."

If there are points which must be discussed and/or resolved, please contact me at (813) 744-6100, extension 382.

Sincerely,

Mm B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab

cc: Steven Dutch, P.E., WADE-TRIM
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Mary Yeargan, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee

Ardeman

Leachate Collection System

A leachate collection system is required at the site to collect and convey the leachate to the dewatering ditch and to prevent leachate from building up within the landfill and from exiting the above ground landfill side walls in the future. In addition, the leachate collection system will lower the hydraulic head necessary for recharge into the underlying aquifer.

We recommend a peripheral leachate collection underdrain on the west, north and east sides of the landfill. The underdrains should be a minimum of 4 feet below natural ground and should slope toward the dewatering ditch. Figure 6 illustrates two alternative leachate collection underdrain design concepts.

The first alternative consists of a minimum 14-inch wide trench and an 8-inch diameter corrugated, slotted HDPE pipe completely surrounded by at least 3 inches of clean filter aggregates. Though the anticipated steady-state leachate flow of approximately 0.004 gpm per lineal feet of pipe can be handled by a 6-inch diameter pipe, we recommend using a minimum 8-inch inside diameter underdrain pipe for clean out purposes.

The second alternative consists of a minimum 24-inch wide trench and an 8-inch diameter corrugated slotted HDPE pipe completely surrounded by at least 3 inches of locally available coarse concrete aggregates which in turn is completely wrapped in a filter fabric as shown in Figure 6.

The underdrain pipe should meet ASTM F-667 specifications for corrugated heavy duty polyethylene tubing and fittings.

The filter aggregate or concrete aggregate that surrounds the slotted pipe should be clean, non-calcareous, and should not be susceptible to attack from acids and alkalies with a pH of 3 to 11 and must be sized to prevent the backfill above the filter aggregate from entering the filter system and to prevent the filter aggregate or concrete aggregate from entering the slotted pipe.

The specifications for the leachate collection system are provided in Appendix 7.

Monitoring Program

A monitoring program is proposed for the LAS. The following monitoring program will serve to aid in operation of the system:

- Flow meter to monitor leachate generation
- Raingage at spray irrigation site
- Water table monitoring wells
- Staff gage in holding pond (i.e., dewatering ditch)
- Flow meter on irrigated water

The flow into the dewatering ditch will be documented by the raingage and the flow meter. The change in storage level in the ditch will be documented by the staff gage in the pond. The flow meter on the irrigated water and site raingage

PERMITTEE:

Samuel L. Rauls, (irman PERMIT NO.: SUD-096551. Hardee County Class I Sanitary Landfill

SPECIFIC CONDITIONS (con't):

7. (con't):

- D. Data from each of the above sampling efforts shall be submitted to the Southwest District Office, C/O Solid Waste Section, within 30 days after collection.
- 8. The permittee shall ensure that neither ponding nor run-off from the spray site occurs as a result of the spray irrigation. The Department considers ponding to be any residual which remains on the surface sufficient time to contaminate stormwater runoff or otherwise be environmentally objectionable due to odor or public health criteria. Vegetation on the spray site shall be cropped regularly. Spray nozzles are to be regularly inspected for proper operation.
- 9. The spray irrigation system for leachate disposal shall be sampled initially and quarterly thereafter for the following parameters. Results shall be submitted along with results from the groundwater monitoring well samples. Leachate shall not be spray irrigated on unlined areas if violations of standards for Class III surface water bodies occur. This shall include the standards outlined in Chapter 17-3.051, along with

Quantity Total Organic Carbon
Dissolved Oxygen Iron
pH Turbidity
Specific Conductance Lead

Total Coliform

- 10. Evidence of methane gas buildup or migration may necessitate installation of measures to control such buildup and/or migration in addition to those proposed.
- ll. An adequate Quality Control Plan shall be submitted to the Department, C/O Solid Waste Section, Southwest District Office, 30 days prior to liner installation/construction. The Quality Control Plan shall include installation/construction personnel, all specifications and construction methods, and liner testing procedures and sampling frequency. The liner material proposed for use shall be completely described. Laying of the liner shall comply with specified standards that are fully defined in the Quality Control Plan. An acceptable method of testing for pinholes and method for removing or patching pinholes and defective areas shall be completely described. Sampling and testing shall be conducted in the field during construction and after completion by qualified personnel under the direction of the professional engineer in charge to assure the liner will meet the performance standards.

DER Form 17-1.201(5) Page 4 of 14.



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

| - | For Routing To Other The | in The Addressee |
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| То: | | Location: |
| To: | | Location: |
| From: | | Date: |

Interoffice Memorandum

TO: Kim Ford, P.E.

THROUGH: Robert Butera, P.E. II (1) 10-17-91

THROUGH: Diane Trommer, P.G. II DT 10-27-92

FROM: Mary Yeargan, E.S. III may 16/27/92

DATE: October 27, 1992

SUBJECT: Hardee County Regional Landfill

Renewal of Class I Landfill Operating Permit

Permit Application #SO25-214306

The Groundwater Cleanup Section has reviewed the response to our June 26, 1992 comments on the Application for Permit to Operate Solid Waste Resource Recovery and Management Facility. We have the following comments:

1)

This application should be a complete document that can stand alone. All information and items in Section 17-522.600, Florida Administrative Code (FAC) (formerly Section 17-28.700(6)(d), FAC), shall be provided. The geological information and analytical data should be updated, summarized and evaluated to determine whether the existing Groundwater Monitoring Plan (GWMP) is sufficient for this application.

HAVE

Monitor well construction details and lithology logs should be provided for monitor wells MW-1, MW-2 and MW-3.

Water table maps for the wet and dry seasons were requested in our memo of June 26, 1992. It was noted in the recent response from Wade-Trim, Inc., on the groundwater elevation map, that the side liner and the drainage ditches restrict the interpretation and contouring of the groundwater table. The effect of the dewatering ditch and the side wall liner on the water table should be evaluated. Based on the groundwater elevations from monitor well MW-3, there is mounding and possibly an outward gradient from the dewatering ditch during the wet season.

m or (4)

In the March 20, 1987 report "Leachate Collection and Disposal System Hardee County Regional Sanitary Landfill,

Kim Ford Hardee County LF

page 2 October 27, 1992

Hardee County, Florida" it was recommended on page 10 that a monitoring program be used in the operation of the Land Application System. One of the recommendations was the use of a staff gage in the dewatering ditch. staff gage was installed, all data collected to date should be provided to the Department. If there is no staff gage, this should be required as a Specific Condition in the new permit.

Water level information (NGVD) was provided for the monitor wells. We requested that this data include top of casing elevations, depth to water measurements, corresponding water level elevations and monitoring interval length.

A summary of analytical data for leachate indicator parameters for all sampling periods, in tabular form, was Just conforce of requested, but not provided.

> The only analytical parameter that has consistently exceeded maximum contaminant levels is iron. Other parameters that should be evaluated, especially for monitor wells MW-6 and MW-7, are conductivity, total dissolved solids, chlorides and sodium. There appears to be a trend towards higher values for these parameters for these wells. This may be significant since these monitor wells are adjacent to the leachate spray field.

Groundwater monitoring parameters should be expanded to include additional parameters for permit renewal, annual parameters and quarterly parameters.

Section 17-4.050(3), F.A.C., states that where required by Chapter 471 or 492, Florida Statutes (F.S.), applicable portions of permit applications and documents which are submitted to the Department for public record shall be signed, sealed and dated by the professional(s) who prepared or approved them. Geological portions of documents and submittals should be signed, sealed and dated by a Florida registered professional geologist in accordance with Chapter 492, F.S., and engineering portions of documents and submittals should be signed, sealed and dated by a Florida registered professional pengineer in accordance with Chapter 471, F.S.

Please have the applicant respond to the above items. If you have any questions, please call.

MEY

ESTIMATED GROSS IRRIGATION REQUIREMENT

| Month | Inches |
|---------------------|--------------|
| January
February | 1.04
0.73 |
| March | 1.71 |
| April | 3.61 |
| May | 5.85 |
| June | 3.55 |
| July | 3.37 |
| August | 3.01 |
| September | 2.11 |
| October | 3.01 |
| November | 2.63 |
| December | 1.23 |
| | 31.80 |

These values represent the average monthly irrigation quantities that the cover crop will accept during irrigation periods. Irrigation can occur whenever there is no surface water runoff. During drought periods gross irrigation requirements will be greater than these average values. Likewise, during extreme wet weather periods the gross irrigation requirements will be less than the average values.

The irrigation system should be designed to handle less than 1 to more than 6 inches per month based on the average monthly gross irrigation requirements. Considering the infiltration/percolation rates for the soils, the fact that irrigation cannot occur during surface water runoff periods, and the fact that close to 6 inches per month of irrigation may be deemed prudent during some months, the following design criteria for the irrigation system are provided:

- Maximum application rate is 0.1 inch per hour
- Maximum liquid loading is 1 to 2 inches per week
- Effluent is applied once every 7 days
- In the winter months, application rate may be as low as 0.2 inch/week
- In the summer months, application rate may be over 1 inch/week
- The average application rate should not exceed 0.61 inches per week on an average annual basis.

At the site, the lateral seepage from the irrigated area is expected to be toward the dewatering ditch south of the landfill. We recommend, however, that monitoring wells be installed south of the irrigated area to monitor flows potentially leaving the site in this direction.

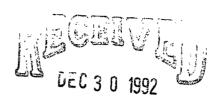
The irrigation site should have a cover crop the entire year. Hay, coastal bermuda grass and winter rye grass are the anticipated cover crop. The rye grass needs to cover the land by mid November such that the cover crop will be functioning at the time of the first hard freeze in the fall. Young, healthy crops are optimum for nutrient and transpiration of water uptake.

TORIOP 21

HARDEE COUNTY -

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873



December 29, 1992

Department of Environmental Regulation SOUTH WEST DISTRICT

Department of Environmental Regulations Attention: Kim B. Ford, P.E. Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive Tampa, Florida 33619-8318

RE: Construction and Demolition Debris Disposal

Pending Permit No.: SC25-212896

Dear Mr. Ford:

As per your request by phone on December 21, 1992, we have enclosed a revised drawing of the Construction and Demolition Debris Site to indicate the berm design to redirect offsite stormwater. We do apologize for the delay and should you have any further questions or comments please contact us.

Singerely,

J.R. Prestridge,

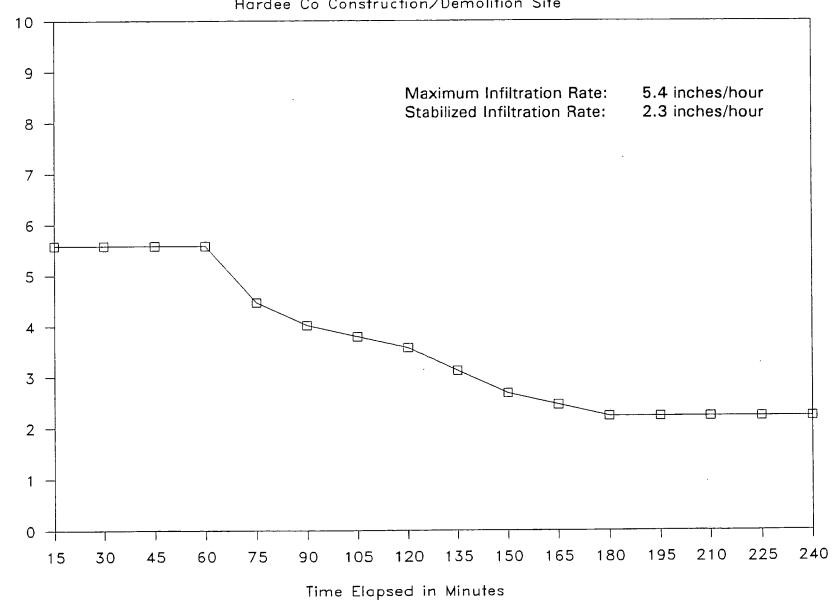
Solid Waste Superintendent

jw/Enclosure

Phone: (813) 773-5089 • FAX: (813) 773-0958

DOUBLE RING INFILTRATION TEST

Hardee Co Construction/Demolition Site



Infiltration Rate (in/hr)

OPERATIONS DESCRIPTION FOR SPOTTERS

HARDEE COUNTY SANITARY LANDFILL

Upon entering the landfill, solid waste will be weighed and classified at the scale house. If the load appears to be suitable for disposal at the C&D Site, they will be directed to that area. However, if a load appears to be a mixture of C&D Debris with other non C&D material, it will be directed to the Class I Landfill Site and a Public Notice explaining what materials are excepted at the C&D Site will be given to the customer.

Should the load pass the visual inspection and be sent to the C&D Site, the Landfill Spotter will meet the customer at the site and inspect the load being dumped. If the Spotter finds only a small amount of unacceptable materials mixed in with the load, he directs the customer to place the unacceptable materials into a box located at the site. The contents of the box is removed daily and taken to the Class I Landfill. The Spotter will then hand out a Public Notice.

Should the Spotter find large amounts of unacceptable materials mixed in with the load, he advises the customer of the rules and regulations and ask that he stop dumping immediately and then the Spotter will issue a Public Notice to the customer and redirect the load to the Class I Landfill.

If unwanted materials are found at the C&D Site during the daily inspections, they will be removed and transferred to the Class I Landfill.

PUBLIC NOTICE

TO: CONSTRUCTION AND DEMOLITION DEBRIS CUSTOMERS

FROM: HARDEE COUNTY SANITARY LANDFILL

Florida Administrative Code Rule 17-701.020 (16) defines construction and demolition debris as materials generally considered to be not soluble and non-hazardous in nature including but not limited to steel, glass, brick, concrete, asphalt roofing material, piping, gypsum wallboard and lumber from the construction or destruction of a structure as part of a construction or demolition project or from the renovation or maintenance of a structure. The term includes rocks, soils, tree remains, trees, and other vegetative matter which normally results from land clearing or land development operations for a construction project. Mixing of construction and demolition debris with other types of solid waste, including material which is not from the actual construction or destruction of a structure, will cause it to be classified as other than construction and demolition debris.

Materials which may be the same type of waste but not originating from a construction or demolition project, such as lawn maintenance debris, rolls of carpeting, scrap lumber from the lumber yard, office paper, etc., cannot be disposed of at a C&D site. Materials originating from a construction or demolition project which were not an integral part of a structure, such as furniture, electronics, appliances, clothing, household waste, etc., also cannot be disposed of at a C&D site.

Materials which are an integral part of the construction of a structure, and are also soluble or hazardous in nature, such as paints, tars, adhesives, solvents, oils, or greases, or containers which held these materials shall not be disposed of at a C&D site. Other items which will not be accepted into the C&D site include: used oil filters and containers, car parts, asbestos and tires.

Construction and Demolition Debris loads mixed with unacceptable materials will not be accepted at the C&D site. Mixed loads will be reclassified and sent to the Class I Landfill and will be assessed a charge of \$30.00 per ton.

JOB DESCRIPTION

0

LANDFILL SPOTTER, LIGHT DUTY POSITION

PURPOSE:

The purpose of this job is to prevent unacceptable materials from being disposed of at the wrong sites and to help educate the haulers of what materials are not acceptable to different sites at the landfill.

ILLUSTRATIVE DUTIES:

Work entails operation of light truck and requires the ability to drive, stand and walk around to visually check loads being dumped, for unacceptable materials. If unacceptable materials are found, spotter should report to the office for corrective action. Spotter should be able to inform the hauler of his responsibilities in proper segregation of waste loads. Spotter must have the ability to comprehend the classification of waste loads and to comprehend the Department of Environmental Regulations rules governing disposal of different types of waste. Spotter must also have the ability to be trained to operate the computerized scales system for backup purposes.

HARDEE COUNTY

Department of Sol

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

December 17, 1992

Department of Environmental Regulations Attention: Kim B. Ford, P.E. Solid Waste Section Division of Waste management 3804 Coconut Palm Drive Tampa, Florida 33619-8318

MEGETY DEC 1 8 1992

Department of Environmental Regulation SOUTH WEST DISTRICT

Re: Construction and Demolition Debris Disposal Pending Permit No.: SC25-212896

Dear Mr. Ford:

As per your request on October 9, 1992, we have enclosed the following:

- 1. Swale and berm design to redirect offsite stormwater.
- 2. Swale design for onsite runoff for treatment.
- Percolation test data for swales used for treatment.
- 4. Updated stormwater calculations for treatment.
- 5. Operations description for spotters before and during dumping.

Should you have any further questions or comments please contact us.

Sincerely,

R. Prestridge,

Solid Waste Superintendent

jw



Professional Service Industries, Inc.

October 29, 1992

Hardee County Solid Waste Department PO Box 246 Wauchula, Florida 33873 Attention: JR Prestridge

Re: Double Ring Infiltrometer Test

Hardee County Landfill

Construction & Demolition Site Purchase Order No. 12278 PSI Project No. 387-20236

Gentlemen:

Attached, please find a graph depicting results of the Double Ring Infiltrometer Test performed on October 28, 1992 at the Hardee County Landfill. Following is summary of relevant data:

TEST STANDARD:

ASTM D3385-75

SITE LOCATION:

Construction & Demolition Site

TEST LOCATION:

Northwest Corner of Proposed Storm Water

Retention Swale and Firebreak

WEATHER:

Clear, Sunny, Warm

TEMPERATURE:

80°F - 85°F

WEATHER LAST 24 HOURS:

Sunny, No Rain

HEAD:

6"

36 INCH RING INSERTED 6 INCHES

12 INCH RING INSERTED 2 INCHES

WATER TABLE AT TIME OF TEST:

48"

HARDED

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Hardee County October 29, 1992 Project No. 387-20236 Page Two

VISUAL SOIL DESCRIPTION

| Depth
(In.) | Description |
|----------------|---------------------------------------|
| 0 - 6 | Gray Fine Sand, Trace Silt |
| 6 - 12 | Light Gray Fine Sand, Trace Silt |
| 12 - 18 | White Fine Sand, Trace Silt |
| 18 - 24 | White Fine Sand, Trace Silt |
| 24 - 30 | White and Brown Fine Sand, Trace Silt |
| 30 - 36 | White Fine Sand, Trace Silt |
| 36 - 42 | White Fine Sand, Trace Silt |
| 42 - 48 | Light Brown Fine Sand, Trace Silt |
| 48 - 54 | Light Brown Fine Sand, Trace Silt |
| 54 - 60 | Light Brown Fine Sand, Trace Silt |
| 60 - 66 | Light Brown Fine Sand, Trace Silt |
| 66 - 72 | Brown Fine Sand, Trace Silt |

Should you have any questions concerning this report, please contact us at your earliest convenience.

Respectfully submitted,

PROPESTIPIAL SERVICE INDUSTRIES, INC.

Branch Managar

HWP:tkf

Attachment



Wade-Trine

November 13, 1992

D.E.R.

NOV 1 3 1992

Mr. Kim Ford
Division of Waste Management
Florida Department of Environmental Regulation
3804 Coconut Palm Drive
Tampa, FL 33619-8318

SOUTHWEST DISTRICT TAMPA



Group

Services:

Planning Sciences

Engineering

Landscape Architecture Re: Hardee County Landfill Permit No. 5025-214306 and SC2S-212896

Dear Mr. Ford:

In response to your letter of October 13, 1992, regarding the permit application, we are submitting this request for a 90-day time extension until February 12, 1993 to submit all the required information. At the request of the County, we have requested proposals from Geotechnical Engineering firms to respond to the questions posed.

In response to questions 1 and 3 of your letter, we are submitting the following:

- 1. Attached is estimate for closure and long term care as submitted in July 1992.
- 3. The final cover material will be excavated from an on-site location. The material is a grey green clay with an anticipated permeability of less than 1.0 x 10-7 cm/sec.

If you have any questions, please call.

Sincerely,

WADE-TRIM, INC

Steven A. Dutch, PE Project Manager

SAD:br SAD1:SO25.LTR HAR2001.01 Attachment

cc: J.R. Prestridge, Hardee County



19 CORIDA 21

HARDEE COUNTY

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

November 4, 1992

Department of Environmental Regulations Attention: Kim Ford 3804 Coconut Palm Tampa, Florida 33619

RE: Construction and Demolition Debris Site Permit Application

Dear Mr. Ford:

This letter is to inform you that the Double Ring Infiltrometer Test done by Professional Service Industries, Inc. was competed on October 29, 1992. AIM Engineering and Surveying are presently working on new Stormwater Calculations based on these test results. They are also working on the other information requested which should be completed and submitted to you within two weeks from today's date (November 18, 1992).

Should you have any further questions please contact us.

Sincerely,

Ĵ∕R. Prestridge,

Solid Waste Superintendent

D. E. R.

MOA - 8 1883

SOUTHWEST DISTRICT

jw



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

October 30, 1992

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Landfill

Pending Permit No.: S025-214306

Dear Mr. Prestridge:

Attached is a copy of Ms. Yeargan's October 27, 1992 memorandum that specifies additional information that is needed before the FDER can approve the county landfill groundwater monitoring plan. This information is requested to be submitted as part of your response to FDER's October 13, 1992 letter.

If you have any questions regarding Ms. Yeargan's memorandum, you may call her at (813) 744-6100, extension 376.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab Attachment

cc: Steven Dutch, P.E., WADE-TRIM
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Mary Yeargan, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee



State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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Interoffice Memorandum

TO: Kim Ford, P.E.

THROUGH: Robert Butera, P.E. II (4) 10-17-92

THROUGH: Diane Trommer, P.G. II DT 10-27-93

FROM: Mary Yeargan, E.S. III may 10/24/92

DATE: October 27, 1992

SUBJECT: Hardee County Regional Landfill

Renewal of Class I Landfill Operating Permit

Permit Application #S025-214306

The Groundwater Cleanup Section has reviewed the response to our June 26, 1992 comments on the Application for Permit to Operate Solid Waste Resource Recovery and Management Facility. We have the following comments:

- 1) This application should be a complete document that can stand alone. All information and items in Section 17-522.600, Florida Administrative Code (FAC) (formerly Section 17-28.700(6)(d), FAC), shall be provided. The geological information and analytical data should be updated, summarized and evaluated to determine whether the existing Groundwater Monitoring Plan (GWMP) is sufficient for this application.
- 2) Monitor well construction details and lithology logs should be provided for monitor wells MW-1, MW-2 and MW-3.
- 3) Water table maps for the wet and dry seasons were requested in our memo of June 26, 1992. It was noted in the recent response from Wade-Trim, Inc., on the groundwater elevation map, that the side liner and the drainage ditches restrict the interpretation and contouring of the groundwater table. The effect of the dewatering ditch and the side wall liner on the water table should be evaluated. Based on the groundwater elevations from monitor well MW-3, there is mounding and possibly an outward gradient from the dewatering ditch during the wet season.
- 4) In the March 20, 1987 report "Leachate Collection and Disposal System Hardee County Regional Sanitary Landfill,

Hardee County, Florida" it was recommended on page 10 that a monitoring program be used in the operation of the Land Application System. One of the recommendations was the use of a staff gage in the dewatering ditch. If the staff gage was installed, all data collected to date should be provided to the Department. If there is no staff gage, this should be required as a Specific Condition in the new permit.

- 5) Water level information (NGVD) was provided for the monitor wells. We requested that this data include top of casing elevations, depth to water measurements, corresponding water level elevations and monitoring interval length.
- 6) A summary of analytical data for leachate indicator parameters for all sampling periods, in tabular form, was requested, but not provided.
- 7) The only analytical parameter that has consistently exceeded maximum contaminant levels is iron. Other parameters that should be evaluated, especially for monitor wells MW-6 and MW-7, are conductivity, total dissolved solids, chlorides and sodium. There appears to be a trend towards higher values for these parameters for these wells. This may be significant since these monitor wells are adjacent to the leachate spray field.
- 8) Groundwater monitoring parameters should be expanded to include additional parameters for permit renewal, annual parameters and quarterly parameters.
- 7) Section 17-4.050(3), F.A.C., states that where required by Chapter 471 or 492, Florida Statutes (F.S.), applicable portions of permit applications and documents which are submitted to the Department for public record shall be signed, sealed and dated by the professional(s) who prepared or approved them. Geological portions of documents and submittals should be signed, sealed and dated by a Florida registered professional geologist in accordance with Chapter 492, F.S., and engineering portions of documents and submittals should be signed, sealed and dated by a Florida registered professional engineer in accordance with Chapter 471, F.S.

Please have the applicant respond to the above items. If you have any questions, please call.

─ HARDEE COUNTY



Department of Solid Waste & Recycling Center

Ser 26, 1992

P.O. Box 246 Wauchula, Florida 33873

D. E. R.

Florida Department of Environmental Regulations ATTENTION: Kim Ford, P.E. Solid Waste Section Division of Waste Management 3804 Coconut Palm Drive Tampa, Florida 33619-8318

OCT 2 8 1992

SOUTHWEST DISTRICT
TAMPA

Dear Mr. Ford:

As per your request on October 9, 1992, I have enclosed the records for the past 6 months to confirm the number of waste tires collected and processed. I have also enclosed the number of tires we have on site at present time.

We would like to give an explanation as to why the number of waste tires stored and processed were so much higher that what the permit allowed. In the 1991-92 year, Hardee County Sanitary Landfill did not have the equipment or means to process waste tires. Also, due to the small volume of tires we were unable to secure a contract for an on site waste tire processor. We had planed to remove and ship the waste tires to Gilliard Brothers in Zolfo Springs, Florida however, due to his permit limitations he was unable to accept them.

With funds from the Waste Tire Grant, Hardee County Sanitary Landfill was able to purchase processing equipment for car tires. We began processing the back log of tires in May of 1992. We plan to ship the back log of truck and tractor tires to Gilliard Brothers, provided that his permit will allow.

Please note that the number of waste tires collected per month does not exceed the 500 per month processing limit, and now that the back log has been processed; Hardee County Sanitary Landfill will not process more than 500 tires per month.

We would very much appreciate your consideration in this matter and should you have any questions please feel free to contact us.

Sincerely

(J.R. Prestridge,

Solid Waste Superintendent

jw

Phone: (813) 773-5089 • FAX: (813) 773-0958

WASTE TIRE RECORD 1993

| DATE | RECEIVED | PROCESSED | ON SITE |
|-------------|----------|-----------|---------|
| April, 1992 | 351 | -0- | |
| May, 1992 | 210 | 4,413 | |
| June, 1992 | 417 | 428 | |
| July, 1992 | 334 | 403 | |
| August,1992 | 265 | 684 | |
| Sept. 1992 | 244 | 463 | |
| Oct. 1992 | 114 | 109 | 830 |
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BEST AVAILABLE COPY

4) In the March 20, 1987 report "Leachate Collection and Disposal System Hardee County Regional Sanitary Landfill,

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State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

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Interoffice Memorandum

TO: Kim Ford, P.E.

THROUGH: Robert Butera, P.E. II As 10-17-91

THROUGH: Diane Trommer, P.G. II DT 10-27-93

FROM: Mary Yeargan, E.S. III may 1427/92

DATE: October 27, 1992

SUBJECT: Hardee County Regional Landfill

Renewal of Class I Landfill Operating Permit

Permit Application #SO25-214306

The Groundwater Cleanup Section has reviewed the response to our June 26, 1992 comments on the Application for Permit to Operate Solid Waste Resource Recovery and Management Facility. We have the following comments:

- 1) This application should be a complete document that can stand alone. All information and items in Section 17-522.600, Florida Administrative Code (FAC) (formerly Section 17-28.700(6)(d), FAC), shall be provided. The geological information and analytical data should be updated, summarized and evaluated to determine whether the existing Groundwater Monitoring Plan (GWMP) is sufficient for this application.
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- 3) Water table maps for the wet and dry seasons were requested in our memo of June 26, 1992. It was noted in the recent response from Wade-Trim, Inc., on the groundwater elevation map, that the side liner and the drainage ditches restrict the interpretation and contouring of the groundwater table. The effect of the dewatering ditch and the side wall liner on the water table should be evaluated. Based on the groundwater elevations from monitor well MW-3, there is mounding and possibly an outward gradient from the dewatering ditch during the wet season.
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- 8) Groundwater monitoring parameters should be expanded to include additional parameters for permit renewal, annual parameters and quarterly parameters.
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Please have the applicant respond to the above items. If you have any questions, please call.



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

October 13, 1992

Mr. J.R. Prestridge Hardee County Department of Solid Waste Post Office Box 246 Wauchula, FL 33873

Re: Hardee County Landfill

Pending Permit No.: S025-214306

Hardee County

Dear Mr. Prestridge:

This is to acknowledge receipt of your applications for landfill operation.

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

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

The following information is needed in support of the solid waste applications [Chapters 17-701 and 17-711, Florida Administrative Code (F.A.C.)]:

- 1. In order to approve the financial responsibility cost estimates for closure and long-term care, please indicate the source of clay on the plans and provide the permeability of the clay to be used for final cover. In the estimate for leachate management, include the cost of monitoring the spray irrigation system. Cost estimates must be signed and sealed by a professional engineer. 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 Hardee County's financial responsibility documents.
- 2. Cross-sections showing both original and proposed fill elevations are required. Proposed fill cross-sections should show the final elevations at the landfill, sequence of filling and lift heights. Plans showing the 1997 final contours cannot be found. Please submit 2 sets of updated plans, signed and sealed by a professional engineer.



October 13, 1992 Page Two

- 3. Source location, quantity, and characteristics of final cover material.
- 4. A evaluation in report form of the condition and effectiveness of the existing leachate control and removal system performance, spray field including water balance calculations, and the surface water management system. The report shall contain professional conclusions and recommendations and shall be signed and sealed by a professional engineer.

The leachate levels inside the landfill shall remain below the water levels outside the landfill. Provide reasonable assurance to show that an inward gradient will be maintained continuously since this is the basis of FDER's previous approval of the landfill containment and leachate removal system, including the sprayfield.

All monitoring wells and piezometers must be shown on plans. The site evaluation report shall provide conclusions and recommendations regarding the possible need for additional wells and piezometers for the landfill and sprayfield. A water table contour map shall be provided for the wet and dry seasons for the past 12 months. Record drawings of the leachate collection and removal system are requested.

Provide the HELP or similar model data that shows the monthly quantity of leachate generated and the monthly quantity of other drainage and seepage expected to reach the dewatering ditch. The total quantity sprayed should be in gallons and include seepage from the landfill, sprayfield, and runoff from the unclosed portions of the landfill.

To confirm the quantity and quality of leachate to be sprayed, provide the past 12 months of data from the monitoring program specified on page 10 of Ardaman's March 20, 1987 report and the past 12 months of data from permit SO25-096551 specific condition #9 (see attachments).

6. Information found in previous reports from the FDER's files indicate Hardee County has been allowed to spray up to 2 inches of leachate in one day, based on spraying only once per week. This application rate equates to 250,000 gallons of leachate sprayed in one day which is not acceptable. For more recent projects a maximum application of .2 inches in one day was used to prevent runoff of "treated effluent".

October 13, 1992 Page Three

Please provide the HELP or similar model data that shows the maximum daily rate of spray irrigation included with rainfall to determine how many days runoff would be expected and how many days of storage would be required for the leachate dewatering ditch/holding pond. The model should consider the slope and characteristics of the final cover and the soil and runoff characteristics of the sprayfield. Explain how runoff will not occur from spray irrigation based on the following condition:

This permit allows spray irrigation of a maximum 5,000 gallons per day (24 hours) at an application rate of .20 inches per day of leachate from the associated dewatering ditch. Under no circumstances shall leachate be allowed to discharge as runoff to adjacent stormwater systems or conveyance ditches. Spraying shall take place only when runoff into the onsite retention areas downgradient from the spray areas has terminated for 24 hours. The aforementioned is based on daily inspections of the influent point to retention area, or as follows, whichever is more restrictive:

- a. at least 4 hours after a rainfall of 1/4" or less, or
- b. at least 24 hours after a day or rainfall of 1/4" or 1", or
- c. at least 48 hours after a day or rainfall of 1" or greater

The ... "maximum 5,000 gallons per day (24 hours) at an application rate of .20 inches per day"... is used as an example and may be revised to fit actual site conditions. All other parts of this permit condition will remain unchanged. A berm/swale system may be required along the south border of the sprayfield to allow runoff to be more easily detected. Plans shall show the location of all sprayheads and the spraying pattern of each. An operations manual for the spray irrigation system is requested.

7. Your response to Mary Yeargan's June 26, 1992 attached memorandum. Ms. Yeargan may be contacted at (813) 744-6100, extension 376.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. If the response will require longer than 30 days to develop, you should develop a specific time table

October 13, 1992 Page Four

for the submission of the requested information for Department review and consideration. Failure to comply with a time table accepted by the Department will 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 can reapply as soon as the requested information is available."

If there are points which must be discussed and/or resolved, please contact me at (813) 744-6100, extension 382.

Sincerely,

Mm B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab

cc: Steven Dutch, P.E., WADE-TRIM
Robert Butera, P.E., FDER Tampa
Steve Morgan, FDER Tampa
Mary Yeargan, P.G., FDER Tampa
Kathy Anderson, FDER Tallahassee
Fred Wick, FDER Tallahassee

PERMITTEE:

Samuel L. Rauls, Chairman PERMIT NO.: SO25-096551 Hardee County Class I Sanitary Landfill

SPECIFIC CONDITIONS (con't):

7. (con't):

- D. Data from each of the above sampling efforts shall be submitted to the Southwest District Office, C/O Solid Waste Section, within 30 days after collection.
- 8. The permittee shall ensure that neither ponding nor run-off from the spray site occurs as a result of the spray irrigation. The Department considers ponding to be any residual which remains on the surface sufficient time to contaminate stormwater runoff or otherwise be environmentally objectionable due to odor or public health criteria. Vegetation on the spray site shall be cropped regularly. Spray nozzles are to be regularly inspected for proper-operation.
- 9. The spray irrigation system for leachate disposal shall be sampled initially and quarterly thereafter for the following parameters. Results shall be submitted along with results from the groundwater monitoring well samples. Leachate shall not be spray irrigated on unlined areas if violations of standards for Class III surface water bodies occur. This shall include the standards outlined in Chapter 17-3.051, along with

Quantity Total Organic Carbon

Dissolved Oxygen

Iron

pH -

Turbidity

Specific Conductance

Lead

Specific Conductance

Total Coliform

- 10. Evidence of methane gas buildup or migration may necessitate installation of measures to control such buildup and/or migration in addition to those proposed.
- 11. An adequate Quality Control Plan shall be submitted to the Department, C/O Solid Waste Section, Southwest District Office, 30 days prior to liner installation/construction. The Quality Control Plan shall include installation/construction personnel, all specifications and construction methods, and liner testing procedures and sampling frequency. The liner material proposed for use shall be completely described. Laying of the liner shall comply with specified standards that are fully defined in the Quality Control Plan. An acceptable method of testing for pinholes and method for removing or patching pinholes and defective areas shall be completely described. Sampling and testing shall be conducted in the field during construction and after completion by qualified personnel under the direction of the professional engineer in charge to assure the liner will meet the performance standards.

DER Form 17-1.201(5) Page 4 of 14.

Ardamon

Leachate Collection System

A leachate collection system is required at the site to collect and convey the leachate to the dewatering ditch and to prevent leachate from building up within the landfill and from exiting the above ground landfill side walls in the future. In addition, the leachate collection system will lower the hydraulic head necessary for recharge into the underlying aquifer.

We recommend a peripheral leachate collection underdrain on the west, north and east sides of the landfill. The underdrains should be a minimum of 4 feet below natural ground and should slope toward the dewatering ditch. Figure 6 illustrates two alternative leachate collection underdrain design concepts.

The first alternative consists of a minimum 14-inch wide trench and an 8-inch diameter corrugated, slotted HDPE pipe completely surrounded by at least 3 inches of clean filter aggregates. Though the anticipated steady-state leachate flow of approximately 0.004 gpm per lineal feet of pipe can be handled by a 6-inch diameter pipe, we recommend using a minimum 8-inch inside diameter underdrain pipe for clean out purposes.

The second alternative consists of a minimum 24-inch wide trench and an 8-inch diameter corrugated slotted HDPE pipe completely surrounded by at least 3 inches of locally available coarse concrete aggregates which in turn is completely wrapped in a filter fabric as shown in Figure 6.

The underdrain pipe should meet ASTM F-667 specifications for corrugated heavy duty polyethylene tubing and fittings.

The filter aggregate or concrete aggregate that surrounds the slotted pipe should be clean, non-calcareous, and should not be susceptible to attack from acids and alkalies with a pH of 3 to 11 and must be sized to prevent the backfill above the filter aggregate from entering the filter system and to prevent the filter aggregate or concrete aggregate from entering the slotted pipe.

The specifications for the leachate collection system are provided in Appendix 7.

Monitoring Program

A monitoring program is proposed for the LAS. The following monitoring program will serve to aid in operation of the system:

- Flow meter to monitor leachate generation
- Raingage at spray irrigation site
- Water table monitoring wells
- Staff gage in holding pond (i.e., dewatering ditch)
- Flow meter on irrigated water

The flow into the dewatering ditch will be documented by the raingage and the flow meter. The change in storage level in the ditch will be documented by the staff gage in the pond. The flow meter on the irrigated water and site raingage



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

October 9, 1992

Mr. J.R. Prestridge
Hardee County
Department of Solid Waste
Post Office Box 246
Wauchula, FL 33873

Re: Construction and Demolition Debris Disposal and Waste Tire Processing Facility
Pending Permit No.: SC25-212896 and WT25-209268
Hardee County

Dear Mr. Prestridge:

This is to acknowledge receipt of your additional information.

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

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

The following information is needed in support of the solid waste applications [Chapters 17-701 and 17-711, Florida Administrative Code (F.A.C.)]:

Provide the information needed in support of the construction and demolition debris site as follows:

- a. Swale and berm design to redirect offsite stormwater.
- b. Swale design for onsite runoff for treatment.
- c. Percolation test data for swales used for treatment
- d. Update stormwater calculations for treatment.
- e. Operations description for spotters before and during dumping.

October 9, 1992 Page Two

Please provide the records for the past 6 months to confirm the number of waste tires collected, stored, and processed each month, and the date the processor was on site shredding the waste tires. Please provide a copy of the contract with the processor to verify that he agrees to shred no more than 500 waste tires per month. If this requested information shows that more than 500 waste tires have been processed or more than 1000 waste tires have been stored in any month, the general permit is not applicable.

"NOTICE! Pursuant to the provisions of Section 120.600, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 30 days of the date of this letter, the Department may issue a final order denying your application. 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 will 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 can reapply as soon as the requested information is available."

If there are points which must be discussed and/or resolved, please contact me at (813) 744-6100, extension 382.

Sincerely,

Kim B. Ford, P.E. Solid Waste Section

Division of Waste Management

KBF/ab

cc: Robert Butera, P.E., FDER Tampa



| DATE: | 0/5/ | 92 | |
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| Letter of Italisilittal | |
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| TO: 3804 Coconut Palm Drive ATTN: Kim Ford | |
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| RE: Hardle County Landfill 5025-24306 PROJ NO.: | |
| TRANSMITTED HEREWITH VIA: | |
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 1

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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 2

| COUNTY: HA | ARDEE | ISSUE DATE RANGE: 01 | /01/70 T | HRU 09/30/ | 92 | | | | |
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| 384054.01 | 039454 | HARDEE CO REGIONAL SANATARY LNFL | 4.00 | 35-33-25 | OBSERVATION OR MONI | T 002050 | 12 | | 15, |
| | | PHONE: (000) 000-0000 ZIP:33873- | | | | | | | |
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| 184056-01 | 039454 | HARDEE CO REGIONAL SANATARY LNFL
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 3

| COUNTY: HARDEE | | ISSUE DATE RANGE: 01. | /01/70 T | HRU 09/30/ | '92 | | | | |
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 4

| COUNTY: HARDEE | | ISSUE DATE RANGE: 0 | 1/01/70 TH | HRU 09/30/ | 92 | | | | |
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 6

| COUNTY: HARDEE | ISS | UE DATE RANGE: 01 | /01/70 TI | HRU 09/30/ | '92 | | | | |
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| 328565.01 094429 | W SMITH NO ADDRESS NO CITY: FL PHONE: (000) 000 | -0000 ZIP: - | 4.00 | 36-33-25 | DOMESTIC | 001087 | 50 | | 205 |
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| 61828.01 021580 | ROSENBERGER, SAI
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| 77003.01 033809 | PARKER, J. B.
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 7

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BOX 1182
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| A12400 01 05025 | PHONE: (000) 000-0000 ZIP:33873- | | | | | | | | | | | |
| 412499.01 059251 | 11214 NORTH SUMMER ROAD WAUCHULA, FL PHONE:(000) 000-0000 ZIP:33841- | 4.00 | 36-33-25 | DOMESTIC | 001299 | | | | | | | |
| 414023.01 060377 | DRAKE. GEORGE
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PHONE:(000) 000-0000 ZIP:33873- | 4.0C | 36-33-25 | DOMESTIC | 002050 | 70 | | 220 | | | | |
| 418987.01 062791 | BURNETT, HENRY P RT 2 WAUCHULA, FL PHONE: (000) 000-0000 ZIP:33873- | 4.00 | 36-33-25 | DOMESTIC | 002033 | 107 | | 235 | | | | |
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 1

WELL PERMITS ISSUED REPORT

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THRU

09/30/92

SECTION: 25 THRU 26 TOWNSHIP: 33 RANGE: 25
COUNTY: NONE SELECTED

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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WELL CONSTRUCTION PERMITTING

09-30-92 PAGE 2

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| 18121•01 083999 | NO ADDRESS
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| 18122.01 083996 | NO ADDRESS
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| 01180.01 052033 | WAUCHULA, FL | HIRLEY
 DAD | | 25-33-25 | DOMESTIC | 002381 | 50 | | | 175 |
| 23891.01 089759 | L ROBERTS
NO ADDRESS
NO CITY, FL | 000-0000 ZIP: - | | 26-33-25 | DOMESTIC | 999998 | 51 | | | 124 |
| 30631.01 096488 | NO ADDRESS
NO CITY, FL | | 4.0C | 26-33-25 | DOMESTIC | 001065 | | | | 138 |
| 31735.01 097582 | NO ADDRESS
NO CITY, FL | 000-0000 ZIP: - | 4.00 | 26-33-25 | DOMESTIC | 999998 | 18 | | | 42 |
| 47802.01.010897 | ROUTE 2. BOX | | | 26-33-25 | DOMESTIC | 002025 | 30 | | | 125 |

Wade-Trim \

September 30, 1992

Ms. Kim Ford
Division of Solid Waste
Florida Department of Environmental Protection,
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347





Re: Hardee County Land Fill

Permit No. SO-25-24306 and SC25-212896

Dear Ms. Ford:

In response to your letter of June 30, 1992, we are submitting the remaining information required to complete the application, supplementing our letter of July 24, 1992.

Group Services:

Engineering Planning Sciences Landscape Architecture 2. Provide CQAP for sampling and analysis.

Response: Copy of approval page of the CQAP for Envirolab

by FDER on August 20, 1992 is attached. A full

copy of the report is available upon request.

6. Provide an evaluation report for the effectiveness of the Leachate Spray System.

Response: A evaluation report of the Leachate Spray System

is attached.

9. Response to Mary Yeargum's memo of June 26, 1992.

Response: The following responses are provided:

- 9.1 Attached are the following:
- a. Monitoring well installation report prepared by Seaburn and Robertson December 1987.
- b. Geologic cross-sections prepared by Envisors in 1987 as Record Drawings of the landfill construction.
- 9.2 Attached are potentiometric maps of the Florida Acquifer from the July, 1992 SWFWMD Hydrologic Conditions Report.



- 9.3 Attached are table contour maps for the wet and dry seasons based on recent well readings.
- 9.4 Attached is water level data for 1990-1992 from the onsite monitorings wells.
- 9.5 Attached is summary of analytical data for all available sampling periods and graphical trends.
- 9.6 Attached is approval page of CQAP for Envirolab by FDER dated August 20, 1992.
- 9.7 Attached is well construction data from SWFWMD for surrounding area. Aerial photography was completed in 1988 and is most current available for the area.
- 9.8 No response required.
- 9.9 No response required.

This information should complete the application. If you have any questions or request additional clarifications, please call.

Sincerely,

WADE-TRIM

Steven A. Dutch, P.E.

Project Manager

SAD:ram SAD1:FFORD.LTR HAR2001.01

cc: J.R. Prestridge





RECEIVED
SEP 2 9 1992
WADE-TRIM

COMPREHENSIVE QUALITY ASSURANCE PLAN

FOR

ENVIROLAB, INC. 1030 U.S. 1 NORTH ORMOND BEACH, FLORIDA 32174 (904) 672-5668

PREPARED BY

ENVIROLAB, INC. 1030 U.S. 1 NORTH ORMOND BEACH, FLORIDA 32174 (904) 672-5668 8\$01986/5 7728 7728 72H DSK Acosta

RECEIVED

OCT 21 1991

Dept. of Environmental Regulation Quality Assurance Section

Robert L. Sullivan Vice President

 $\{\frac{1}{2}\}$

Harold F. Acosta QA/QC Officer

Sylvia Labie DER QA Officer 10/18/a1

10/18/91 Date

8/20/92 Date

APPROVED

EVALUATION OF LEACHATE CONTROL SYSTEM HARDEE COUNTY LANDFILL

The evaluation of the leachate control system was conducted to determine the effectiveness of the system and the removal performance.

System Description

The Hardee County landfill was constructed with a PVC sidewall liner tied into natural clay on the west, northard east sides. The configuration isolates the outside groundwater, therefore leachate generated will result from groundwater within the landfill and infiltrating precipitation.

The leachate generated is contained by the liner and clay layer. Under drains located just inside the liner collect and transport leachate to a dewatering ditch on the south side of the landfill. The collected leachate is sprayed on an 11 acre site just south of the dewatering ditch. The spray area is also contained within a sidewall liner on the east and west sides. Monitoring wells are located on the south side of the area.

Soil conditions in the area were determined during the design and construction of the original facility by Envisors, Inc. According to Envisors, Inc. (1982), the superficial aquifer is separated from the deeper Floridan aquifer by a continuous confining clay layer which varies in thickness from 14 feet to 35 feet with an average thickness of about 25 feet. Based upon the results of field and laboratory programs by Ardaman & Associates (1986) and that presented by Envisors, Inc. a surficial aquifer permeability of 1.4 feet/day and 2.83 x 10 feet/day was determined.

Water Balance

Ardeman Associates prepared a water balance analysis of the landfill spray field and dewatering ditch as part of the design of the leachale spray system. (See attached letter dated January 16, 1987.) Review of the data contained in this analysis indicates that since the system was generally designed as recommended, this analysis is still valid.

Side Liner

The side liner was installed in accordance with the plans and the installation was inspected and certified by Ardaman & Associates. (See attached letter dated June 9, 1988).





System Operation

The system is operated in general as designed and recommended. The pump station for the spray system was relocated south of the ditch for ease in operation and access. The pumps are operated once per week.

Operation is by timer set to operate at the times set forth n Briley-Wild & Associates letter of March 5, 1987 (copy attached). As outlined in the letter, the water levels are maintained and the low level cut off in set at 72.0.

Recommendations

Based on observations by Wade-Trim staff, it is recommended that the leachate control system continue being operated and maintained with the following exception:

• The dewatering ditch is currently overgrown with vegetation. The vegetation should be removed and the ditch cleaned. Upon completion of the initial clearing, vegetation should be removed regularly to enhance the performance and prevent potential clogging of the system.

SAD1:EVALUATI.ON









Ardaman & Associates, Inc.

January 16, 1987 File Number 86-166

Consultants in Soils, Hydrogeology, Foundations and Materials Testing

Briley, Wild & Associates, Inc. 1042 U.S. Highway 1, North Ormond Beach, Florida 32074

Attention:

Mr. John Cumming, P.E.

Subject:

Analyses and Recommendations, Hardee County Regional Sanitary Landfill, Leachate Collection and Disposal System, Hardee

County, Florida

Gentlemen:

As requested and authorized by Mr. Cumming, we have completed a geotechnical evaluation of the proposed leachate collection and disposal system for the Hardee County Regional Landfill site. This report summarizes the results of our analyses and recommendations.

Our scope of work included performing 4 Standard Penetration Test (SPT) borings, installing 3 piezometers and performing in situ permeability tests, performing water balance analyses to determine leachate quantities, providing design recommendations for the leachate collection system, and determining the requirements for leachate storage and disposal areas.

The results of our field and laboratory programs have indicated that the subject site is underlain by an average 12-foot thick surficial aquifer consisting mainly of fine sand to slightly clayey fine sand (see Figures 1 and 2). These results are in general agreement with the site soil conditions reported by Envisors, Inc. in 1982. According to Envisors, Inc. (1982), the surficial aquifer is separated from the deeper Floridan aquifer by a continuous confining clay layer which varies in thickness from 14 feet to 35 feet with an average thickness of about 25 feet. Based upon the results of our field and laboratory programs and that presented by Envisors; Inc., a surficial aquifer permeability of 1.4 feet/day was used in the analyses. A confining bed permeability of 2.83x10⁻⁴ feet/day (10⁻⁷ cm/sec) was conservatively used in the analyses.

Water Balance

Water balance analyses were performed utilizing the "Hydrologic Evaluation of Landfill Performance (HELP)" computer model developed by the U.S. Army Engineer Waterways Experiment Station in Vicksburg, Mississippi. This program models on a daily basis the effects of all of the hydrologic processes, including surface storage, runoff. infiltration. evapotranspiration, soil moisture storage, and lateral drainage, that enter the water balance equation. Daily rainfall and temperature data from 1974 to 1978 for West Palm Beach, Florida (default data in the model) were used in the

analyses. These data appeared to be closer to reported average values at the site than the 1974-78 data for Tampa. It is our opinion that the West Palm Beach data are sufficiently representative of site conditions to be used in the water balance calculations required for this project.

The conceptual hydrologic cycle in the landfill area is illustrated in Figure 3. Table 1 presents a summary of water balance analyses for the various design conditions. As can be seen, the maximum amount of leachate will be generated when the refuse is at the original ground surface elevation with 12 inches of intermediate cover. For the purpose of disposal area design, we recommend a leachate generation rate of 11.9 inches per year. For an 11-acre landfill, this rate corresponds to 0.03 acre-feet per day.

Spray Irrigation

Based upon a percolation rate of 3.9 in/year (see Table 1), approximately 10 acres of land south of the dewatering ditch is estimated to contribute lateral seepage to the dewatering ditch (i.e., approximately 10 acres of land immediately south of the dewatering ditch is available for spray irrigation of leachate). Using a gross irrigation rate of 31.8 inches per year (for pasture grasses) as recommended by the SCS for the Tampa area, the area required for irrigation is calculated to be about 5.4 acres as follows:

Inflow to = (10 acres x 3.9 in + 11 acres x 11.9 in)/yearDewatering Ditch = 170 acre-in per vear

Area required = 170 acre-in per year/31.8 in per year = 5.34 acres which is less than the 10 acres available

We recommend using either coastal bermudagrass or pangolagrass as a summer crop (March to November) and overseeding the summer crop with ryegrass for winter production (December to April). The estimated monthly gross irrigation requirement is as follows:

| Month | Inches |
|----------------------|--------------|
| January
February | 1.04 |
| March | 0.73
1.71 |
| April
May | 3.61
5.85 |
| June
July | 3.55 |
| August | 3.37
3.01 |
| September
October | 2.11
3.01 |
| November
December | 2.63
1.23 |
| | 4.40 |

The following design criteria for the irrigation system are provided:

- Maximum application rate is 0.1 inch per hour
- Maximum liquid loading is 1 to 2 inches per week
- Effluent is applied once every 7 days
- In the winter months, the application rate may be as low as 0.2
- In the summer months, the application rate may be over 1 inch/week
- The average application rate should not exceed 0.61 inches per week on

Leachate Storage Area

The existing 800-ft long dewatering ditch has top and bottom widths of 100 feet and 50 feet, respectively. The average depth to the ditch bottom is approximately 11.4 feet. The maximum storage available in the ditch is 14 acre-feet.

Using average monthly water balance calculations with the monthly distribution of leachate production calculated by the HELP model and the monthly gross irrigation requirement as recommended by the SCS, the maximum storage required is approximately 3.1 acre-feet which corresponds to 3.2 feet of leachate in the ditch. The maximum storage is expected to occur in the month of March. The monthly water balance calculations are provided in Table 2.

Leachate Collection System

We recommend a peripheral leachate collection underdrain on the west, north and east sides of the landfill. The underdrains should be a minimum 4 feet below natural ground and should slope toward the dewatering ditch. Figure 4 illustrates two alternative leachate collection underdrain design concepts.

Side Liner

In the previous sections, it was shown that 5.4 acres of sprayfield is required to dispose of the leachate generated from the landfill. Using a rectangular spray irrigation plot (adjacent to the dewatering ditch) with a length of 700 feet parallel to the ditch, a 335-foot extension of the side liner will be required to force all seepage to the ditch. We recommend extending the east and west wall side liners to a minimum distance of 400 feet south from the south edge of the ditch.

We trust that this report meets your immediate requirements. The final report including the results of our field and laboratory programs will be forthcoming. If you have any questions regarding this report, please do not hesitate to contact us.

Very truly yours, ARDAMAN & ASSOCIATES, INC.

Rajendra K. Shrestha, P.E.

Project Engineer

John E. Garlanger, Ph.D., P.E.

Principal

Florida Registration No. 19782

RKS:ed

cc: J. R. Prestridge (Hardee County)

Table 1 SUMMARY OF WATER BALANCE ANALYSES

| | Thickness of Cover (inches) | Surface
Condition | SCS
Curve No.
Used | Annual
Rainfall
(inches) | Annual
Runoff
(inches) | Annual
ET
(inches) | Annual
Percolation
(inches) | Annual
Recharge
(inches) |
|--|-----------------------------|----------------------|--------------------------|--------------------------------|------------------------------|--------------------------|-----------------------------------|--------------------------------|
| Worst Case: Landfill refuse at original ground surface elevation | 12 | Bare | 80
(85.6)* | 56.9
56.9 | 5.3
(8.4) | 32.4
(32.0) | 11.9
(9.7) | 1.6
(1.6) |
| Final Cover Scenario** | 24 | Good Grass | 73 | 56.9 | 4.3 | 37.5 | 8.3 | 1.6 |
| Proposed sprayfield area south of dewatering ditch | Natural
Ground | Poor Grass | 85 | 56.9 | 11.8 | 33.4 | 3.9 | 1.6 |

NOTES

Evapotranspiration

Curve number generated by the HELP model

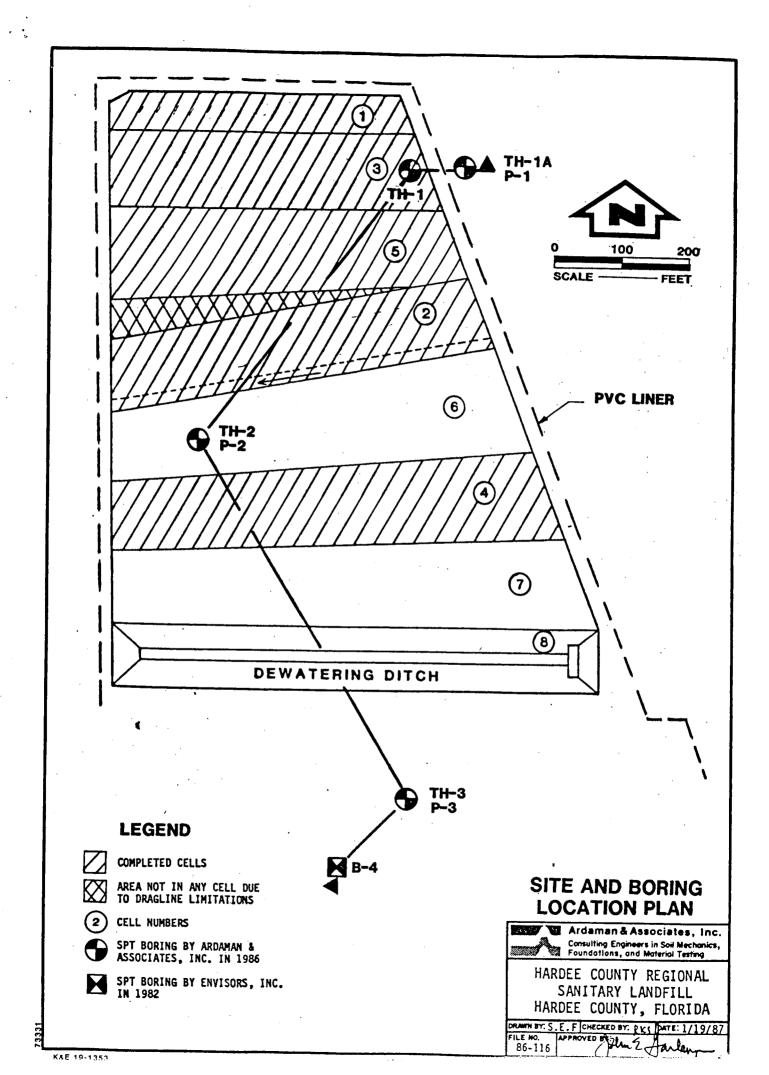
Permeability of cover = 0.28 feet/day - .28 × ... - ..

Table 2 MAXIMUM STORAGE REQUIREMENT

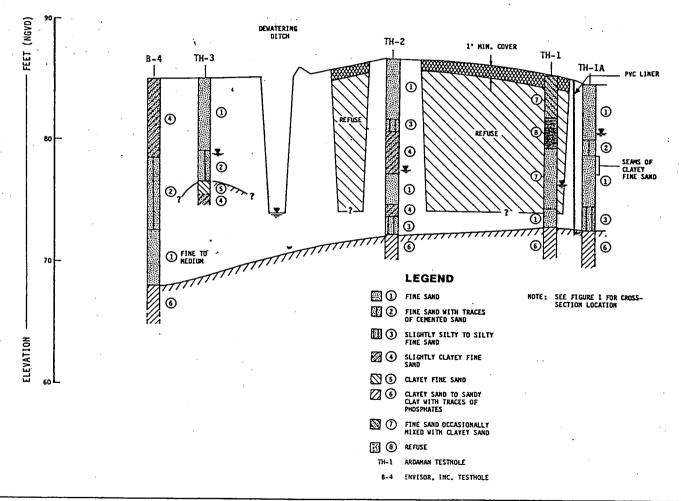
| Month | Wauchula
PPT | WPB
PPT
(in) | ① Leachate (in) | 2
Leachate
Volume
(acre-in)
1x11 ac. | ③ Spray Irrigation (in) (USDA) | Volume Irrigation (acre-in) ③x5.5 ac. | 5 Drainage to Ditch (in) | 6
Volume
Drain
(acre-in)
(5)x10 ac. | (Thange in Storage (acre-in) (2+6-4) | Cumulative
Storage
(acre-in) |
|-------|-----------------|--------------------|-----------------|--|--------------------------------|---------------------------------------|--------------------------|---|--------------------------------------|------------------------------------|
| Jan | 2.40 | 3.33 | 0.922 | 10.142 | 1.04 | 5.72 | .295 | 2.95 | 7.37 | 27.46 |
| Feb | 3.01 | 1.81 | 0.769 | 8.459 | 0.73 | 4.02 | .265 | 2.65 | 7.09 | 34.55 |
| Mar | 3.02 | 1.70 | 0.820 | 9.020 | 1.71 | 9.41 | .290 | 2.90 | 2.51 | 37.06 |
| Apr | 2.46 | 1.16 | 0.723 | 7.953 | 3.61 | 19.86 | .269 | 2.69 | -9.22 | 27.84 |
| May | 4.94 | 8.66 | 0.765 | 8.415 | 5.85 | 32.18 | .297 | 2.97 | -20.80 | 7.04 |
| Jun | 8.33 | 6.28 | 0.928 | 10.208 | 3.55 | 19.53 | .305 | 3.05 | -6.27 | 0.77 |
| Jul | 8.50 | 5.22 | 0.997 | 10.967 | 3.37 | 18.54 | .330 | 3.30 | -4.27 | 0 |
| Aug | 6.87 | 5.13 | 0.972 | 10.692 | 3.01 | 16.56 | .333 | 3.33 | -2.54 | 0 |
| Sep | 7.03 | 8.73 | 1.084 | 11.924 | 2.11 | 11.61 | .339 | 3.39 | 3.70 | 3.70 |
| Oct | 2.88 | 5.69 | 1.248 | 13.728 | 3.01 | 16.56 | .386 | 3.86 | 1.03 | 4.73 |
| Nov | 1.76 | 5.31 | 1.275 | 14.025 | 2.63 | 14.47 | .378 | 3.78 | 3.34 | |
| Dec | 1.89 | 3.90 | 1.355 | 14.905 | 1.23 | 6.77 | .388 | 3.88 | 12.02 | 8.07 |
| | | | | | 1.20 | V.11 , | •000 | J.00 | 14.04 | 20.09 |
| Total | 53.09 | 11.857 | | | 31.8 | | 3.874 | | | |

NOTES

- PPT (precipitation) used are for W. Palm Beach
 Leachate quantities are 5-yr. average values 74-78
 Naturally occurring drainage to dewatering ditch from approximately 10 acres.
 Spray Area = (Area LF x 11.857 + 10 x 3.874)/31.8 = 5.32 ac, say 5.5 acres.



NORTH-SOUTH CROSS SECTION

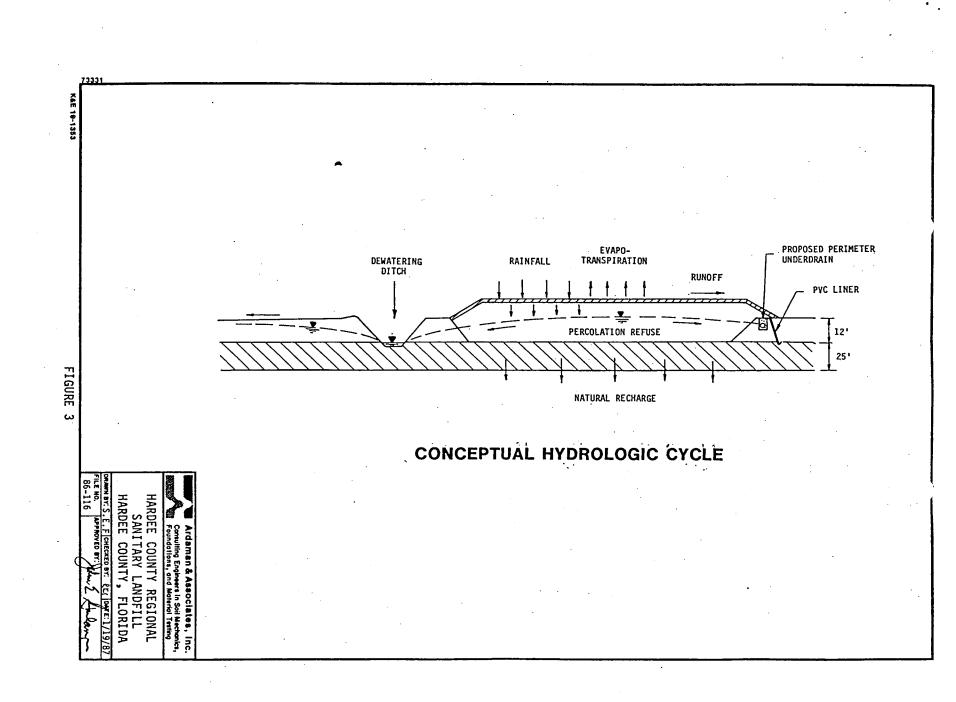


Ardeman & Associates, Inc. Committing Engineers in Soll Machanics.

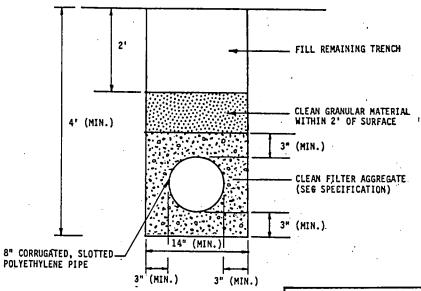
HARDEE COUNTY REGIONAL SANITARY LANDFILL HARDEE COUNTY, FLORIDA

PALE NO. STATE OFFICE ST. CES (DATE 1/14/2)

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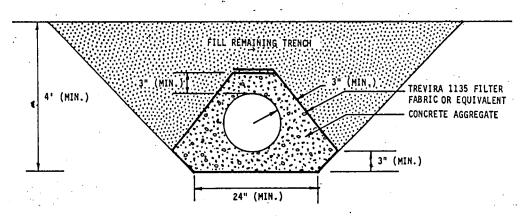


ALTERNATIVE 1



| U.S. SIEVE | PERCENT PASSING |
|------------|-----------------|
| 3* | MAX. SIZE |
| 3/8" | 80-100 |
| NO.4 | 60-90 |
| NO.10 | 30-70 |
| NO.20 | 9-40 |
| NO.40 | 0-15 |
| | |

ALTERNATIVE 2



LEACHATE COLLECTION SYSTEM



Ardaman & Associates, Inc.
Consulting Engineers in Solf Mechanics,
Foundations, and Material Testing

HARDEE COUNTY REGIONAL SANITARY LANDFILL HARDEE COUNTY, FLORIDA

ORANN SY. S. E. F CHECKED BY: RYC DATE: 1/19/87
FILE NO. APPROVED BY The A Challenge

K&E 19-1353

FIGURE 4



Ardaman & Associates, Inc.

June 9, 1988 File Number 86-166

Consultants in Soils, Hydrogeology, Foundations and Materials Testing

Briley, Wild & Associates Post Office Box 607 Ormond Beach, Florida 32074-0607

Attention:

Mr. John Cumming, P.E.

Subject:

Side Liner Installation, Hardee County Sanitary Landfill

Gentlemen:

As requested and authorized by Briley, Wild & Associates, Inc., Ardaman & Associates, Inc. has provided professional and quality control inspection services during installation of the synthetic liner at the Hardee County Sanitary Landfill site along the alignments and in accordance with the configuration shown in Figure 1. Based on our review of factory and prefabrication quality control reports, our full time inspection of installation operations, and the results of independent laboratory testing of field seams, it is our opinion that the synthetic liner, as installed, meets the intent of the plans and the Quality Control Plan for the subject project.

The permitted liner for the subject landfill is a 60-mil high density polyethylene (HDPE) synthetic liner with welded seams. It consists of prefabricated rolls of 60-mil HDPE liner material manufactured and factory seamed by National Seal Company (NSC) of Galesburg, Illinois. It was installed and field seamed by Diversified Tech, Inc. of Deltona, Florida. The liner installation started on January 20, 1988 and completed on February 27, 1988.

Ardaman & Associates, Inc. performed full time monitoring of the liner installation and testing performed by Diversified Tech, Inc. This included monitoring the test extrusion welds and pressure fusing welds which were done at least once per day and monitoring layout and field seaming. All of the seam and leak testing was monitored by our senior field technician. The field seaming of new liner panels was performed using heat and pressure fusing method. The new liner was welded with the existing 40-mil polyethylene liner using extrusion weld method. Six seam coupon samples were taken and sent to Precision Laboratory of California for independent laboratory testing. Six coupon samples consisted of three coupons from the field seams, two coupons from the factory seams and one field seam used to weld the new liner with the old liner on the east side of the landfill. The test results are presented in Appendix A.

Copies of the material analyses and certification letter from NSC and the factory seam quality control test results were reviewed by Ardaman & Associates, Inc. We have also reviewed field monitoring reports prepared by our senior technician at the site.

50°

Based on our review of the laboratory test data, field test results and field monitoring reports prepared by our field technician, it is our opinion that the installed liner meets the intent of the Quality Control Plan.

We appreciate the opportunity of assisting you on this project and we look forward to a continuing relationship. If you have any questions or when you need further assistance, please do not hesitate to call us.

Very truly yours, ARDAMAN & ASSOCIATES, INC.

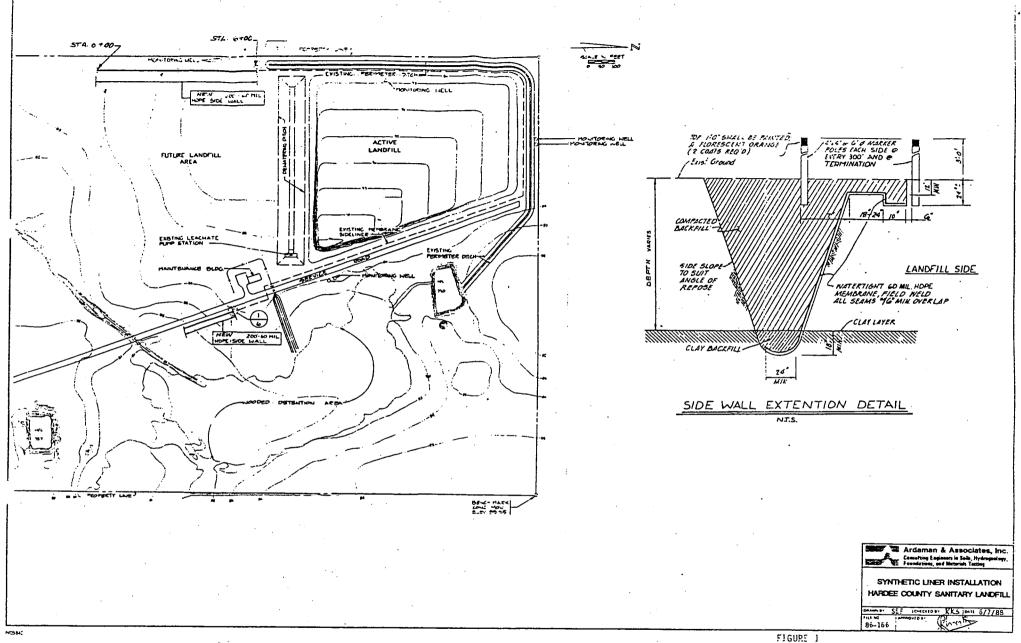
Rajendra K. Shrestha, P.E. Project Engineer

John E. Garlanger, Ph.D., P.E.

Frincipal

Florida Registration No. 19782

RKS:ed



Appendix A

LABORATORY TEST RESULTS



Precision Laboratories

11834 Western Avenue, P.O. Box 915, Garden Grove, California 92642-0915 (714) 891-7832

March 9, 1988

VERIFICATION OF MATERIAL PROPERTIES

Polyethylene Seam Samples
For: Ardaman & Associates, Inc.
(Precision Reference: 87548)

INTRODUCTION

Precision Laboratories performed physical testing on six (6) polyethylene seam sample for Ardaman & Associates, Inc. of Bartow, Florida. The samples were identified and delivered as follows:

1/22/88 FIELD SAMPLE #1 STA 4+00 (60-mil) FACTORY PANEL #2 STA 3+00 (60-mil) FACTORY PANEL #3 STA 5+00 (60-mil)

1/25/88 FIELD SEAM STA 2+00 (60-mil) FIELD SEAM STA 2+26 (60-mil)

2/12/88 FIELD SEAM East side to existing liner (40-mil top sheet 60-mil bottom sheet)

All samples were delivered to the laboratory by United Parcel Service with the exception of FIELD SEAM East side to existing liner which was delivered by Federal Express.

TEST PROCEDURES

The samples were tested for seam peel adhesion and bonded seam strength. Seam peel adhesion testing was conducted in accordance with ASTM D413 as modified by the National Sanitation Foundation (NSF) Standard 54 using one inch wide specimens, an initial gage of 2 inches and a strain rate of 2 inches per minute. Bonded seam strength was determined in accordance with ASTM D3083 as modified by the National Sanitation Foundation (NSF) Standard 54 using one inch wide specimens, an initial gage of 4 inches plus the width of the seam and a strain rate of 20 inches per minute.

Page 2.

For: Ardaman & Associates, Inc.

March 9, 1988

(Precision Reference: 87548)

TEST RESULTS

The test results are reported on tables I through 3, attached. The units in which the data are reported are included on the tables. The break types are described as either film tearing bond (FTB) or peel (PEEL).

PRECISION LABORATORIES

Lance S. Reed

Assistant Laboratory Manager

TABLE 1. MATERIAL PROPERTIES

Polyethylene Seam Sample
For: Ardaman & Associates, Inc.
(Precision Reference: 87548)

FIELD SAMPLE #1 STA 4+00

| | BONDED SEAM STRENGTH (lbs/inch-width) | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|------------|---------------------------------------|---------------------------------|---|---------------------------------|
| | 217
210
210
205
207 | FTB
FTB
FTB
FTB
FTB | 128
128
120
115
123 | FTB
FTB
FTB
FTB
FTB |
| Avg
SD: | 210
5 | | 123
6 | |

FACTORY PANEL #2 STA 3+00

| SE (| BONDED
EAM STRENGTH
lbs/inch-width) | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|-------------|---|--------------------------|---|---------------------------------|
| ٠. | 216
4 218
214
217
212 | FTB
FTB
FTB
FTB | 136
122
126
118
121 | FTB
FTB
FTB
FTB
FTB |
| Avg:
SD: | 215
2 | | 125
7 | |

TABLE 2. MATERIAL PROPERTIES

Polyethylene Seam Sample For: Ardaman & Associates, Inc. (Precision Reference: 87548)

FACTORY PANEL #3 STA 5+00

| | BONDED
EAM STRENGTH
(lbs/inch-width) | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|-------------|--|---------------------------------|---|---------------------------------|
| | 201
206
206
206
204 | FTB
FTB
FTB
FTB
FTB | 131
132
122
118
124 | FTB
FTB
FTB
FTB
FTB |
| Avg:
SD: | 205
2 | | 125
6 | |

FIELD SEAM STA 2+00

| BONDED SEAM STRENGTH (lbs/inch-width) | | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|---------------------------------------|---------------------------------|--------------------------|---|---------------------------------|
| | 204
212
205
201
212 | FTB
FTB
FTB
FTB | 131
130
134
132
127 | FTB
FTB
FTB
FTB
FTB |
| Avg:
SD: | 207
5 | | 131
3 | |

TABLE 3. MATERIAL PROPERTIES

Polyethylene Seam Sample
For: Ardaman & Associates, Inc.
(Precision Reference: 87548)

FIELD SEAM STA 2+26

| | BONDED
EAM STRENGTH
(lbs/inch-width) | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|-------------|--|---------------------------------|---|-------------------|
| | 205
212
211
210
206 | FTB
FTB
FTB
FTB
FTB | 160
151
140
* | FTB
FTB
FTB |
| Avg:
SD: | 209
3 | | 150
10 | |

FIELD SEAM East side to existing liner

| | BONDED
EAM STRENGTH
(lbs/inch-width) | BREAK
TYPE | SEAM PEEL
ADHESION
(lbs/inch-width) | BREAK
TYPE |
|-------------|--|--------------------------|---|-----------------------------------|
| | 118
115
105
119
113 | FTB
FTB
FTB
FTB | 96
84
101
104
77 | PEEL
FTB
FTB
FTB
PEEL |
| Avg:
SD: | 114
6 | | 92
12 | |

^{*} Not tested due to insufficient material

HA86073-6E

March 5, 1987

Mr. J. R. Prestridge Solid Waste Superintendent 412 West Orange Street Wauchula, FL 33873

Re: Sanitary Landfill

Irrigation System Operation

Dear Mr. Prestridge:

In John Garlanger's letter of January 16, 1987, he presented estimates of the monthly rainfall, runoff to the dewatering ditch, leachate production, and irrigation requirements of the irrigation spray field cover crop.

Based on those estimates, I have calculated the number of hours of pumping that would be required on a monthly basis. During the Winter months the irrigation needs are low and water from surface runoff and the leachate collection system will cause the water level in the dewatering ditch to rise. In the Spring, irrigation requirements are greater than inflow to the ditch and the water levels in the ditch will go back down.

Enclosed is a table based on Dr. Garlanger's calculations showing the hours per month of pumping required, based on irrigating one day per week.

It should be pointed out that the calculations are based on projected averages. The actual rainfall, crop growth, and leachate production in any given month could be substantially different. Although useful for design, the numbers in the table are not a very precise basis for operation.

I recommend that the basis of operation be as follows:

- 1. The pumps should be operated one day a week, preferably near the heginning of the the week. If it is raining, irrigation should be post-poned until later in the week.
- The number of hours to pump should be based on the irrigation needs of the cover crop. Until actual operating data is collected the enclosed table may be used as a guide.

Mr. J. R. Prestridge Solid Waste Superintendent March 5, 1987 Page Two

- If the spray field appears to be saturated, the number of hours of irrigation for that month should be cut back.
- 4. It is expected that water levels in the dewatering ditch will fluctuate. They should not be allowed to go above 77.4 and by July or August should be lowered to 74.2. The low level cut off for the pumps is anticipated to be set at 72.0.

If there is anything else you need at this time please let me know.

Very truly yours,

BRILEY, WILD & ASSOCIATES, INC. CONSULTING ENGINEERS AND PLANNERS

Lee A. Powell, P.E. Project Engineer

LAP/hmh Enclosure

PROJECTED PUMP RUNNING TIMES FOR IRRIGATION

| | Monthly
Irrigation
Requirement
In Inches | Monthly
Irrigation
In Gallons | Pump
Operating
Hours
per Month | Water
Level
in Ditch |
|-----------|---|-------------------------------------|---|----------------------------|
| JANUARY | 1.04 | 152,500 | 6.9 | |
| FEBRUARY | 0.73 | 107,000 | 4.8 | |
| MARCH | 1.71 | 250,800 | 11.3 | 77.4 |
| APRIL | 3.61 | 529,400 | 23.8 | |
| MAY | 5.85 | 857,900 | 38.6 | |
| JUNE | 3.55 | 520,600 | 23.5 | |
| JULY | 3.37 | 494,200 | 22.3 | 74.2 |
| AUGUST | 3.01 | 441,400 | 19.9 | |
| SEPTEMBER | 2.11 | 309,400 | 13.9 | |
| OCTOBER | 3.01 | 441,400 | 19.9 | |
| NOVEMBER | 2.63 | 385,700 | 17.4 | |
| DECEMBER | € 1.23 | 180,400 | 8.1 | |
| TOTAL | 31.85 | 4,670,700 | 210.4 | notes, is |

James Jacob



Southwest Florida Water Management District

2379 Broad Street (U.S. 41 South) Brooksville, Florida 34609-6899 Phone (904) 796-7211 or 1-800-423-1476 SUNCOM 628-4150

D. E. R.

September 21, 1992

SEP 3-0 1992

Charles A. Black Chairman, Crystal River Roy G. Harrell, Jr. Vice Chairman, St. Petersburg Sally Thompson Secretary, Tampa Joe L. Davis, Jr. Treasurer, Wauchula Ramon F. Campo Brandon James L. Cox Lakeland John T. Hamner Bradenton Curtis L. Law Land O' Lakes James E. Martin St. Petersburg Margaret W. Sistrunk

Odessa Peter G. Hubbell **Executive Director** Mark D. Farrell

Assistant Executive Director

Mr. Steven A. Dutch, P.E. Wade-Trim, Inc. 201 E. Kennedy Blvd., Suite 334 Tampa, FL 33602

SOUTHWEST DISTRICT TAMPA

Subject:

PERMIT INQUIRY

Project Name:

Hardee County Landfill (Class I)

Sec/Twn/Rge: County:

35/33S/25E Hardee

Dear Mr. Dutch:

After further review of the information received at the District on June 30, 1992, it appears that no stormwater management permitting, in accordance with Chapter 40D-4; Florida Administrative Code (F.A.C.), will be required. The information submitted to date indicates that all necessary approvals to begin construction and operation of this facility were obtained and that a FDER permit to address water quality requirements was issued per Chapter 17-3, 17-4 and 17-25, F.A.C.

In closing, I apologize for the gross amount of time it has taken me to respond to your inquiry. In the future, you are directed to contact the appropriate FDER office first for any inquiries relative to solid waste facilities.

Sincerely,

William a Hartmann

William A. Hartmann, P.E. Surface Water Permitting Supervisor Bartow Permitting Department Resource Regulation

WAH/baa917

Mr. Bob Butera, P.E., Florida Department of Environmental Regulation, 3804 Coconut Palm Drive, Tampa, FL 33619-8318

15 J.R. Prestridge, Hardee County Board of Commissioners, 74 Hanchey Road, Wauchula, FL 33873 To A F Mark And Three Reserved A Reserved

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S. Stokes to the same of the transfer of the same of t

Excellence Through Quality Service

Dina Bermara di Cila

Wade-Trin.

July 24, 1992

D. E. R.

Mr. Kim Ford Division of Waste Management FDER 4520 Oak Fair Blvd. Tampa, Florida 33610-7347

JUL 2 8 1992 SOUTHWEST DISTRICT



Hardee County Landfill Re:

Permit No. S025-214306 and SC25-Z1Z896

Dear Mr. Ford:

In accordance with the timetables set forth in Chapter 17-12.070 (5), FAC, we are responding on behalf of Hardee County, to your letter of June 30, 1992 with initial responses to your comments as follows:

Group Services:

Engineering Planning **Sciences** Landscape Architecture Provide proof of publication of notice of application:

Response:

Copy of affidavit of publication attached. Original of affidavit submitted directly to you on July 14, 1992.

Provide CQAP for sampling and analysis:

10/2/92

Response: CQAP is being obtained from Envirolab, Inc., Ormond

Beach, FL, and will be submitted when obtained.

Provide updated financial responsibility cost estimates for closure:

Response:

Financial Responsibility checklist and backup is attached.

Provide cross-section showing original and proposed fill elevations:

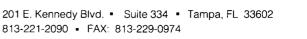
Response:

Attached are revised cross-sections showing the existing grades, the expected grades in 1997 and the proposed final grades at the end of the life of the landfill. Also shown is planned sequence of filling.

· /5. Provide the source and characteristics of the cover material.

Response:

The interim cover material is excavated from the south west corner of the property near the construction debris The cover material is a grey green sandy clay/sand mix.



Provide an evaluation report for the effectiveness of the leachate spray system.

Response: An evaluation is being under taken and will be submitted when complete.

7. Provide responsible representative and emergency phone numbers:

Response: The person responsible for operation at landfill is:

J.R. Prestridge Solid Waste Superintendent 74 Hanchey Road Wauchula, FL 33873 Tele (813) 773-5089

In the event of an emergency the Hardee County Sherriff's Department can be contacted at (813) 773-4144.

(8.) Provide information regarding construction debris disposal.

Response: The construction debris area is the subject of another permit application which is currently being prepared.

(9.) Respond to Mary Yeargan's memo of June 26, 1992:

Response: A response is currently being prepared.

The response to the unresolved questionS will be submitted as soon as all responses are complete. It is anticipated the response will be submitted in early September. If you have any questions, please call.

Sincerely,

WADE/TRIM

Steven A. Dutch, P.E.

Project Manager

cc: J. R. Prestridge

SAD:pgh SAD1:FORD.LTR HAR2001.01





AFFIDAVIT OF BLICATION

The Herald-Advocate

Published Weekly at Wauchula, Florida

STATE OF FLORIDA, COUNTY OF HARDEE

| Before the undersigne | d authority personally appeared Jumes R. Kelly |
|---|---|
| who on oath says he is the | Editor of The Herald-Advocate, a news |
| paper published at Wauchu | la, in Hardee County, Florida; that the attached copy o |
| | |
| advertisement, being a Ala | Two of application |
| in the matter of Allsont | it operation of lastfell |
| | |
| in the | Court, was published in said newspaper in |
| the issues of | 9/9.2 |
| at Wauchula, in said Hardee fore been continuously publi been entered as second class dee County, Florida, for a attached copy of advertisem promised any person, firm, | that the said Herald-Advocate is a newspaper published county, Florida, and that the said newspaper has hereto ished in said Hardee County, Florida, each week and has a mail matter at the post office in Wauchula, in said Har period of one year next preceding the publication of the ent; and affiant further says that he has neither paid no or cornoration any discount, rebate, commission or refund |
| メアンコフマで ひきがらま ピノアイ | this advertisement for publication in the said newspaper |
| MARY RUBER OF STATE OF STORI | DA James R. Kelly (april) |
| COMMISSION NO. CC202535 | Samuel 16. 1 accept (apone) |
| | 96 |
| Sworn to and subscrib | ed before me this 10th day of July |
| A. D. 19_92. | Janette P. Mulery |
| | Annetic P. Mislevy Notary Public |
| My Commission Expires | June 14 , 19 96. |
| | |

State of Florida
Department of Environmental Regulation
Notice of Application

The Department announces receipt of an application for permit from Mr. J.R. Prestridge of the Hardee County Solid Waste Department for operation of the Hardee County Landfill (approximately 10 acres) subject to the Department rules, located on Airport Road off of S.R. 636 northeast of Wauchula, Hardee County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Regulation, Southwest District Office, 4520 Oak Fair Boulevard Tampa, Florida 33610-7347.

7:9c

SOUTHWEST DISTRICT

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION FINANCIAL RESPONSIBILITY CHECKLIST

ID NO.

| GENERAL INFORMATION: | | | | | | | |
|--|----------------------|---------------------|-----------------|---|--------------|--------------------------------|-------------|
| Facility Name: | Hardee County Rec | ional LF | | Permit No.: | S025-09655 | Expiration Date: | 6/11/92 |
| Address (Main Entrance): | 74 Hanchey Road, | Nauchula, FL 3387 | <u>'3</u> | | . | <u> </u> | |
| Address (Mailing): | P. O. Box 24 | | | | | ·- ·····- | |
| Permittee (Operating Authority) | : Hardee County | F | acility Lat/Lon | 81 degrees 47' 1"/27 deg | rees 34' 10" | Fill Acreage: | 11.86 |
| TYPE OF LANDFILL: X Class I Class II Class II:Trash/Yard Trash Exempt,Type of Exemption | | | | Closure Plan Approved: | × | Yes
No | |
| Reviewing Person (Include Title |) <u>:</u> | | | | | Date: | |
| II. GENERAL SOLID WASTE | LANDFILL: | | | | | | |
| A. Type of Financial Document Trust Fund Agreement Letter of Credit Insurnace Certificate Standby Trust Fund Agre | ement | | X | Performance Bond (only to
Financial Guarantee Bond
Escrow Account
Other (Explain): | | an approved closure plan | n) |
| B. General Solid Waste Landill | Estimated Itemized A | Annual Cost of Long | rem Care. | | | | |
| ITEM | | UNIT COST | | TOTAL ANNUAL CO | ST. | SOURCE OF ESTIMA | TE |
| GROUNDWATER MONITO Quality Sampling | RING | \$3,300/sample | | \$13,200.00 | | (Third Party Work See Attached |)
- |
| 2. GAS MONITORING | | | | \$0.00 | | | _ |
| 3. MAINTENANCE OF LEACH
COLLECTION SYSTEM G
MONITORING WELLS | ATE
ROUNDWATER | | | \$500.00 | | | - |
| 4. COLLECTION AND DISPOS
TREATMENT OF LEACH | SAL/
ATE | | | \$1,000.00 | 1 | | - |
| 5. BENCHMARK MAINTENAN | CE | | | 0 | • | | - |
| 6, LANSCAPE MAINTENANCE
Mowing
Fertilizing
Sprinkling | E | | | \$500.00 | | | -
-
- |
| 7. MAINTENANCE OF COVER INTEGRITY AND SURFA WATER CONTROLS | | | | \$500.00 | | | -
- |
| 8. REMEDIAL ACTION | | 15% | | \$2,000,00 | | · | - |

\$17,700.00

TOTAL ANNUAL COST OF LONG TERM CARE

B. General Solid Waste Landfill Estimated Itemized Closure Cost for the Time Period in the Landfill Operation when the extent and Manner of its Operation Makes Most Expensive

| ITEM | UNIT COST | TOTAL ANNUAL COST | SOURCE OF ESTIMATE
(Third Party Work) |
|---|--|---|--|
| MONITORING WELLS Borehole Excavation Backfill Gravel Pack Slotted Screen Casing Cap | | \$0.00 | See Attached |
| SLOPE AND FILL Excavation Placement/Spreading Compaction Delivery of Off Site Material | | \$4,000.00 | |
| 3. COVER MATERIAL Clay Admixture Sysnthetic Material On-site Clay/Soil Off Site Clay/Soil | 2.25/CU | \$103,140.00 | |
| TOP SOIL COVER Purchase Delivery Spreading Compaction | 2.25/CU | \$25,787.00 | |
| CONTOUR GRADING AND SURFACE
WATER DIVERSION (STORMWATER CONT
Excavation, Grading and Recontouring
Diversion Ditch and Berm Construction | ROL) | \$2,000.00 | |
| GAS MIGRATION CONTROL Passive Type Active Type Sprinkling | | \$0.00 | |
| 7. REVEGATATION Spreader Soil Preparation/Grading Seeding Fertilizer Mulch Sprinkling | | \$500.00 | |
| 8. SECURITY SYSTEM Fencing Gate(s) Sign(s) | | \$0.00 | |
| 9. BENCHMARK INSTALLATION | | \$0.00 | |
| 10. CERTIFICATION OF CLOSURE | | \$20,000.00 | · · · · · · · · · · · · · · · · · · · |
| | TOTAL CLOSURE COST PROJECT CONTINGENCY TOTAL | \$155,427.00
\$38,853.00
\$194,280.00 | |

Hardee County Regional Landfill

Permit No. SO25-096551

Basis of Closure and Post Closure Costs

Costs are based on estimated 1992 construction costs

CLOSURE COSTS

MONITORING WELLS:

Ground water sampling and monitoring will continue as required by the Permit. No new monitoring wells should be required for closure.

Estimated Cost: \$0.00

BACKFILL:

It is expected that the disposal site can be readily placed into an acceptable closure condition; 3:1 slopes and appropriate top grades by suing on site equipment and clay materials.

Estimated Cost: \$4,000.00

CLAY CAP:

The site will be capped by (2) feet for compacted clay, utilizing on site clay material. This will require: <u>38,200</u> cubic years, <u>45,850</u> loose cubic years at 20% swell over the <u>11.82</u> acre site, which will require soil cover. The estimate unit cost is \$2.25/CY.

Estimated Cost: \$103,140.00

TOPSOIL:

The site development plan requires a topsoil cover of 6 inches over the two (2) feet compacted clay cap (10,971 loose cubic fards at 15% swell). The estimated cost is \$2.25 dollars per loose cubic yand.



IGNY C

Estimated Costs: \$25,785.00

CONTOUR GRADING/SURFACE WATER:

Placement of the site into a closure configuration and appropriate final cover, requires contour grading to insure surface water drainage. This is accomplished as the material are being places. The site will require finish grading.

Estimated Cost: **\$2,000.00**

GAS MIGRATION CONTROL:

The synthetic liner should prevent any gas migration off site. The leachate collection system should serve the purpose of gas control.

Estimated Cost: \$0.00

BENCH MARKS:

The property in which Phase I of the Hardee County Sanitary Landfill is located, has survey markers already in place.

Estimated Cost: \$0.00

LANDSCAPING:

The Hardee County facility will be landscaped using sand and clay found within the property boundaries. These soils readily support native vegetation. It is expected that fertilizing will not be required on a regular basis.

Estimated Cost: \$0.00

REVEGETATION:

After placing of final cover, seeding of site will be done to provide a quick cover for erosion control and to provide a permanent grass cover to blend in with the surrounding area.

Estimated Cost \$500.00



01/12

Wade-Trim

SECURITY SYSTEM:

The in place fencing, gates, and attendants should provide ample security to the closed site.

Estimated Cost: \$0.00

POST CLOSURE COSTS

SAMPLING:

The monitor wells will be sampled quarterly, the first three (3) years. Upon satisfactory results form this program, the sampling will be reduced to a semi-annual frequency for the next seventeen (17) years. Labor, equipment and expenses for each of these events is estimated at \$1,500.00

Year 1 thru 3 - Estimated Cost: \$6,000.00/yr Year 4 thru 20 - Estimated Cost: \$3,000.00/yr

CHEMICAL ANALYSIS:

The analytical chemistry cost per sample will be \$300.00. The facility utilizes six (6) groundwater monitoring wells. The total cost for chemical analysis will be (\$300.00/sample) (6 samples/sampling events) (46 events).

Year 1 thru 3 - Estimated Cost: \$7,200.00/yr Year 4 thru 20 - Estimated Cost: \$3,600.00/yr

GAS MONITORING:

Gas monitoring is not anticipated as being required at this time.

Estimated Cost: \$0.00/yr

LEACHATE COLLECTION

The operation of the leachate collection and spray field will continue after closure of the landfill. Pump station and spray field will be



Wade-Trim

maintained.

Estimated Cost: \$1,500.00/yr

LANDSCAPE MAINTENANCE

landscape maintenance will consist of mowing as needed to control natural vegetation.

Estimated Cost: \$500.00/yr

COVER MAINTENANCE

Maintenance of the cover will consist of repair of depressions and erosion area.

Estimated Cost: \$500.00/yr

REMEDIAL ACTIONS

A \pm 15% contingency will be set aside for remedial action if necessary.

Estimated Cost: \$2,000.00/yr





Wade-Trim



HARDEE COUNTY

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

D.E.R.

JUL 1 7 1992

July 14, 1992

SOUTHWEST DISTRICT

Florida Department of Environmental Regulation Southwest District 4520 Oak Fair Blvd. Tampa, FL 33610-7347 ATTENTION: Kim Ford

Dear Mr. Ford:

Enclosed is the affidavit of publication on the receipt of the Class I Landfill application to the DER.

If you should have any questions, please contact us.

Sincerely

J.R. Prestridgé,

Solid Waste Superintendent

jw/Enclosure

Phone: (813) 773-5089 • FAX: (813) 773-0958

My Commission Expires .

| AFFIDAVIT OF BLICATION | |
|---|---|
| . AFFIDAVIT OF BLICATION | |
| The Herald-Advocate()) 17 1892 | er. |
| STATE OF FLORIDA, COUNTY OF HARDEE Before the undersigned authority personally appeared James R. Helle | State of Florida Department of Environmental Regulation Notice of Application |
| who on oath says he is the Editor of The Hernld-Advocate, a news paper published at Wauchula, in Hardee County, Florida; that the attached copy of advertisement, being a Motify of Application | The Department announces receipt of an application for permit from Mr. J.R. Prestridge of the Hardee County Solid Waste Department for operation of the |
| in the matter of fismit operations of landfell in the Court, was published in said newspaper in | Hardee County Landfill (approximately 10 acres) subject to the Department rules, located on Airport Road off of S.R. 636 northeast of Wauchula, Hardee County, Florida. |
| Affiant further says that the said Herald-Advocate is a newspaper published at Wauchula, in said Hardee County, Florida, and that the said newspaper has heretofore been continuously published in said Hardee County, Florida, each week and has been entered as second class mail matter at the post office in Wauchula, in said Hardee County, Florida, for a period of one year next preceding the publication of the attached copy of advertisement; and affiant further says that he has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund | This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Regulation, Southwest District Office, 4520 Oak Fair Boule, varid, Tampa, Florida 33610-7347. |
| TARY PUBLIC STATE OF FLORIDA COMMISSION EXP. JUNE 14,1996 Sworn to and subscribed before me this 10th day of July A. D. 19 12. | 7:9c |
| Annette P. Mislevy Notary Public | |

TORION 21

HARDEE COUNTY

Department of Solid Waste & Recycling Center

P.O. Box 246 Wauchula, Florida 33873

D. E. R.

July 6, 1992

JUL 0 8 1992

Kim Ford
Department of Environmental Regulation
Southwest District
4520 Oak Fair Blvd.
Tampa, FL 33601-7347

SOUTHWEST DISTRICT JAMPA

RE:

Hardee County Sanitary Landfill, Comprehensive Quality Assurance Plan for Sampling and Analysis of the above referenced facility.

Dear Mr. Ford:

I checked with Sylvia Labie of the Quality Assurance Section in Tallahassee on Monday, July 6, 1992 (904-488-2796). She confirmed that Envirolab of Ormond Beach, Florida was a Quality Assurance Approved Lab for sampling these types of facilities. However, she could not be positive of their status until the specific sampling parameters are established.

We will check again after the sampling parameters are established for the renewal permit.

Sincerely,

Z.R. Prestridge,

Solid Waste Superintendent

jw/c.c. Wade-Trim, Steve Dutch, P.E.

Phone: (813) 773-5089 • FAX: (813) 773-0958