SUMTER COUNTY LANDFILL
SOLID WASTE PROCESSING, RECYCLING & COMPOSTING FACILITY
WASTE RECOVERY SYSTEMS
A SUBSIDIARY OF U.S. WASTE MANAGEMENT
307 W. 7TH ST. SUITE 1010
FORT WORTH, TEXAS 76102
HOME OFFICE
817-877-0147
JOB SITE
904-793-8806
ANIMAL CONTROL SHELTER
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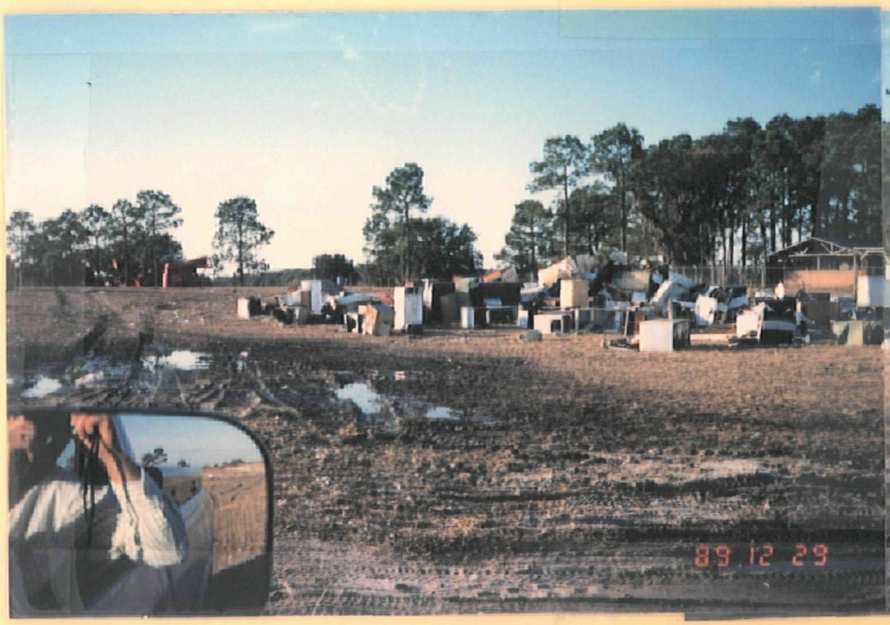
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BEST AVAILABLE COPY

THE AMERICAN RECYCLING COMPANY, INC.
10002 PRINCESS PALM AVENUE
SUITE 230
TAMPA, FLORIDA 33619
(813)664-0313
FAX: (813)626-9115

FAX COVER SHEET

DATE: 2/25/92
(# of sheets) 3

TO: Bob Butera

FAX: 6.03

FROM: Dan Pickering

Please call if any part is not received clearly.

(1) Site specific conditions will determine if it has to be lined or unlined
This data must be submitted in advance to Fla for clearing.
all of the

(2) Build a cl. I if you going to have to bid a cl. III.

THE AMERICAN RECYCLING COMPANY, INC.
County Road 529 • P.O. Box 338 • Sumterville, Florida 33585 • (904) 568-1100 • 1-800-THE-ARC-1 • FAX (904) 568-1103
Recycled Paper- Use It!

February 25, 1992

Bob Butera, P.E.
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

Re: Sumter County -- Class III Cells

Dear Bob:

Per our conversation, the following recaps my understanding of what Sumter County can/should do as it relates to permitting a Class III Cell on the County's new 40 acre site, just south of our current landfill/composting area. Our desire is to create a plan for this acreage that will handle the County's future solid waste disposal needs. With your guidance and approval, we will begin to develop the necessary supporting detail to move forward with these plans.

Lined Class III Cell:
The Tampa DER office would like the following items placed in a 60 mil single lined cell (with no required "base"): — composite + membrane per Aug 1, 1990.

- Carpets (because of dye concerns)
- Textiles (because of dye concerns)
- Tires -- cut into 8 pieces (because of leachate concerns due to the petroleum base)
- Plastic inerts, from compost screening process (because of leachate concerns from the attached "dirt" particles)

Unlined Class III Cell:
Sumter County would be able to dispose of the following inert items in an unlined cell:

- Furniture
- Mattresses } Foam
-
-

(Rubber [illegible] tennis shoes [illegible])

NOTE: W/ MONITORING WELLS THERE WOULD ~~BE TO BE~~ BE POTENTIAL OF COSTLY INTERMEDIATE WELLS TO DETERMINE WHICH CELL CONTAMINATES WOULD BE FLOWING FROM.

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General Guidelines:

long as the two Cells are adjoining, both of these Cells could be built for a Construction Permit of $6,000 and a five year Operating Permit of $4,000. The Construction Permit could be for an area that might handle the County's Class III disposal needs for 10-20 years. These Cells would need to be closed at planned intervals.

The Cells would be subject to the addition of several ground water monitoring wells, to be determined upon further hydrogeological site review by DER (we know we need at least one "background" well, since the current landfill background well would become a monitoring well for these Class III Cells). No gas management system would be required. Both Cells would require weekly initial cover. Both Cells would need to be at least 100 feet from the property boundaries.

On the lined Class III Cell, there would be a requirement for leachate collection and treatment. The lined Cell would require a 20 mil plastic "cap" cover at closure.

Questions:

1) Since the plastic film screened from our compost is basically "trash" (not water soluble, hazardous, or a pollution threat to ground or surface waters), could this material go into the unlined Class III Cell? We feel the initial leachate generated from the "dirt" which would be attached to this plastic would be minimal. Since this "dirt" would be from the same composting process that generates Type A or B compost, which is allowed to be distributed to the public by DER, we would question any possible side affects of the "dirt" attached to this inert plastic residual material.

2) What is the leachate threat of materials with dye?

3) What is the leachate threat of tires?

4) Can our screened "large fraction" compost (bigger than 1/4 inch; less than 2 inch) be used as initial cover for our Class III Cells?

5) Can C&D debris be used as initial cover for our Class III Cells?

Bob, we thank you for your help. Upon receipt of your response, we plan on initiating our efforts of including these materials with our upcoming Permit renewals for the Sumter County Landfill & Composting Facility.

Thank you for your assistance. Please advise us of any questions.

Sincerely,

Jerry Greenlaw, Sumter County
Solid Waste Administrator

LEACHATE COLLECTION - CL III ?

TREND WAS TO BE LESS CONFINING W/ DEFINITION - .. DISTRICT MAKES CALL.

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January 6, 1992

D. E. R.

JAN - 7 1992

SOUTHWEST DISTRICT
TAMPA

Mr. Bob Butera, P.E.
Department of Environmental Regulation
4520 Oakfair Blvd
Tampa, FL 33610

Dear Bob,

Per our conversation and our letter to Tallahassee on December 9th, Amerecycle would like to include the words "plastics" and "synthetic textiles" to the Trash definition (top of page 20). Even though it's a small fraction, "leather" could also be added. ALl these items would fit within the guideline of "other wastes approved by the Department which are not water soluble, hazardous, or a pollution threat to ground or surface waters" but...we would feel better if these words would be added into the 17-701 Trash definition.

Sumter County is considering permitting a Class III cell to accomodate our inert materials that are a by-product of our recycling/composting facility. Since furniture/mattresses/film plastics are a large percentage of our residuals, a great amount of what would beed to be landfilled in Sumter County could go into this Class III cell.

We feel these items fall into the guidelines listed on page 56 of the Rule which states "other materials approved by the Department which are not expected to produce leachate which poses a threat to public health or the environment". As we get closer to determining our 1992 improvement plans for Sumter County, we'll inform you of our projected changes.

If you need any other information or a "sample" of this screened inert material to take to your March Tallahassee meeting to further discuss the change to the Rule, please let me know. Thanks for your time and I look forward to meeting you.

Sincerely,

Jim Pickering
Marketing Manager

P.S. I'm glad you were impressed with the overall operation and our solid waste management concept at Sumter - we are likewise excited about the possibilities of our solid waste disposal option.

JP/sr

Please Note Our New Corporate Address Is:
10002 Princess Palm Avenue, Suite 230, Tampa, FL 33619
Tel: (813) 664-0313
Fax: (813) 626-9115

CARPET Covered weekly.
TEXTILES CL III
TIRES - SHREDDED LINER

MATTRESS
FURNITURE
GLASS
Plastics bags + containers
~~Film plastics~~ like to add
1/4" ϕ 1" ϕ
40% 95%
~~RUBBER~~ SNEAKERS
LEATHER BITS
BELT

(C+D)

WATER Flow S → N

- Monitoring Wells. -

CL I -

See Page 56 CL III.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 2-6-92
Time ~~2:15~~ 3:30 PM.

Subject PERMITS & FEES (INFO REQUESTED FOR C+D & CL III)
Permit No. SUMTER COUNTY MRF / COMPOSTING SOLID WASTE
County SUMTER

MR. JAMES PICKERING
Telephone No. (813) 664-0313

Representing AMERECYCLE

[X] Phoned Me [ ] Was Called [ ] Scheduled Meeting [ ] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting NONE

Summary of Conversation/Meeting IN ORDER TO PLAN FOR THE FUTURE MR. PICKERING ASKED THE FOLLOWING QUESTIONS RELATIVE TO FUTURE EXPANSION OF AMERECYCLES - PILOT FACILITY (DIRTY) MRF @ SUMTER COUNTY

(1) WHAT IS ALLOWED TO BE DISPOSED ~~DISPOSED~~ UNDER PRESENT & FUTURE REGULATIONS FOR CL. III SW LINED FACILITIES? CAN THE FOLLOWING BE DISPOSED OF? CARPET, TEXTILES, TIRES (SHREDDED).

(2) CAN THE FOLLOWING BE DISPOSED IN A CL III UNLINED FACILITY? MATTRESSES, FURNITURE, GLASS, PLASTICS, FILM PLASTICS INCLUDING BAGS, CONTAINERS (ALL) WHICH ARE 1"x1" FILM PLASTIC RESIDUE?

(3) CAN SNEAKERS TYPE RUBBER, LEATHER. (SUCH AS CLOTHING/BELTS ETC.) BE DISPOSED OF IN A CL III UNLINED FACILITY.

DISCUSSED NEED & WILLINGNESS ON AMERECYCLE TO PUT IN MONITORING WELLS. ASKED # PROBABLY REQUIRED. INFORMED HIM TO CALL D. TRAMMER.

DISCUSSED FEES. — SENT 17-3 (PERMITS) & PERMIT FEE SUMMARY.

— PROPOSED RULES (PAGE 56) ABOUT CL III LANDFILLS BEING EXEMPT FROM LINERS WAS ~~REFERRED~~ NOTED, WILL TRY TO RESOLVE & SEND HIM A LETTER.

(continue on another sheet, if necessary)

Signature Robert J. Antkiewicz
Title PE II

TPA-01
09/78

Sumter Composting

Request permit

Extension for

SF60-146495 until 7/1/93

$50

Or Apply for

New Long Term Care Permit

$1000

Need Quarterly

Compost sampling results

for past 2 quarters

Apply for New operation permit

To replace SC60-132071

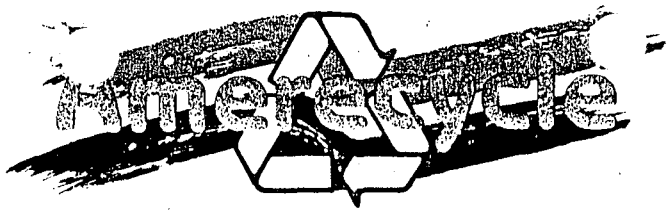
that expires 6/1/92.

For composting = $3000

Need a new composting construction

permit for any new areas

$5000



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D. E. R.

DEC 10 1991

SOUTHWEST DISTRICT
TAMPA

December 9, 1991

Mr. John Reese
Florida DER
2600 Blair Stone Rd.
Tallahassee, Florida 32399-2400

Re: Proposed Rule 17-701 Modification

Dear John,

I spoke with Kim Ford today and he suggested my question best be handled through a letter to you. As you know, Amerecycle operates the Sumter County MSW composting facility, one output of which is the inert residual fraction after composting and screening. This residual is primarily film plastic and synthetic textiles which have not broken down in the bioconversion stage. There are also minor fractions of wood chips and some compost which adheres to the other pieces.

This material is inert, per the intent of 17-701.200 Definitions - "Trash":

* It is not water soluble, having survived the bioconversion step;
* Non-hazardous, by definitions elsewhere;
* Nor a pollution/groundwater threat.

We would appreciate one of the following:

1) Inclusion of the phrase "plastics and synthetic textiles which are the post-bioconversion residual byproduct of aerobic composting" in the Trash definition; or

2) Some other letter or policy instrument which achieves that goal for Sumter County's operation and other like facilities.

The direction here is toward Class III landfilling of inert residuals from properly permitted and operated aerobic composting operations. It makes little sense, from a technical standpoint, to stabilize the material through composting, then have to put a fraction of the now-inert material in a cell intended for (among other things) biodegradable material.

Feel free to call regarding this matter so we may discuss it in detail.

Yours truly,

Laurence B. Oeth, PE

cc: Matt Tala
Kim Ford

Department of Environmental Regulation

Routing and Transmittal Slip

To: (Name, Office, Location)	
1.	FRANCINE JOYAL
2.	SOLID WASTE MANAGEMENT
3.	TALLAHASSEE
4.	

Remarks:

YOU AND CARL MAY WANT TO ALLOW THIS. I WOULD LIKE TO VISIT THE COMPOSTING SITE AGAIN TO LOOK AT THE WASTE STREAM

From:	Date 12/10
	Phone

Coun

December

Mr. John
Florida Dl
2600 Blai
Tallahassi

Re: Propo

Dear John

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Feel free to call regarding this matter so we may discuss it in detail.

Yours truly,

Laurence B. Oeth, PE

cc: Matt Tala
Kim Ford

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Yours truly,

Laurence B. Oeth, PE

cc: Matt Tala
Kim Ford

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D E R.

OCT 09 1991

SOUTHWEST DISTRICT
TAMPA

7 October 1991

Mr. Kim Ford / Engineer
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Dear Kim;

I've enclosed a copy of the updated operation and maintenance manual and associated diagram for our leachate treatment system.

As you know from our previous conversations, I contacted Ozone Fresh for the diagram. In providing me a diagram and looking at the manual again, they decided to make a few changes. So, this manual is updated and the diagram is correct. Thank you for your patience. If there is anything else you need, please call.

Sincerely,

Toni G. Tucker

Toni G. Tucker
Project Manager Trainee

Operation and Maintenance Manual

for the Ozone Fresh Leachate Treatment System at the Sumter County Landfill

This O&M manual is set up in three parts: Ozone generation equipment; the water treatment equipment; and the maintenance and safety equipment to keep leachate from spilling on the ground.

1. Ozone equipment. This equipment consists of an oxygen generator or concentrator and a two pound a day dual quad Ozone Fresh Ozone generator (#9). The oxygen generator (#10) uses zeolite sieve beds to concentrate the oxygen in the air to feed the pure oxygen to the ozonators. ozonators will produce approximately three times as much ozone when fed oxygen as they will when fed ambient air. The air is pumped through the zeolite sieve bed which adsorbs (chemical absorbtion) the nitrogen from the air leaving only the oxygen to pass. The oxygen is then drawn into the ozonators. The ozonator tubes are connected to a venturi. The venturi is set to draw eight liters of ozone per minute. The oxygen generator's output is eight liters per minute. therefore, eight liters of pure oxygen are fed into the ozonator where it is converted to ozone as it passes through the ozone (ion) chambers. The ozone is then drawn into the water, by the venturi, where it is mixed and begins it's oxidation process to treat the leachate. The oxygen generator consists of a compressor, an after cooler, a hepafilter, a three-way solenoid valve and two zeolite sieve beds with a balancing tank. As the air is pumped by the compressor through he cooling line through the hepafilter and into the three-way solenoid valve, it is automatically shifted every ten seconds from one zeolite chamber to the other. As the zeolite in one chamber absorbs the nitrogen from the air, it allows the oxygen to pass, while the other chamber is in the purge cycle. This is repeated every ten seconds from the left hand chamber to the right hand chamber. The pure oxygen then passes into a balance tank where it is drawn by the ozonators through the ozone chambers and into the venturi where it mixes with the water. The ozonators consists of 8 ion tube chambers where a corona is established by electrifying the ion tubes with a 10,000 volt transformer. The transformer cycles at 60 times per second. This allows the gas to form a corona around the

outside of the e glass tubes. The glass tubes are centered inside slightly larger stainless tubes. As the air passes between the glass and the stainless steel, the oxygen molecules in the air are disturbed and broken down into elemental oxygen. Some of them, approximately 10%, are reformed into ozone on their passage through the ozonator. This ozone is then drawn out the bottom of the ozonator tubes into the venturi.

2. Waste Treatment Equipment. Leachate is drawn from the leachate pond through a high capacity 25 micron filter bag (#1) by a two horsepower pump (#2). The leachate then enters a 550 gallon contact or treatment tank (#3). The leachate is drawn from the bottom of the treatment tank by a three horsepower 55 gallon per minute high head pump (#5). The leachate then passes through a high capacity 10 micron bag filter (#7). Next the leachate passes through the ozone contactor (#8) which is a venturi type device where the ozone is drawn from the ozonator and is mixed with the water. Then, the water is transferred back to the treatment tank (#3). When the proper total dissolved solids (TDS) level is reached the solenoid (#12) opens and allows for the discharge of 25 gallons per minute of treated leachate. The solenoid allows the treated leachate to pass through a 1 micron post ozonation filter (#13) through an automatic back wash heavy duty GAC (granulas activated carbon) filter (#14) which contains 10 cubic feet of granular activated carbon. The treated leachate then passes through an ultraviolet (UV) sterilizer (#15). The UV sterilizer is sized at 30 gallons a minute. The solenoid valve (#12) is automatically actuated to open and close to allow the discharge of leachate. This is controlled by a TDS monitor controller (#11) which constantly checks the TDS level in the water. If a TDS level of 1000 is exceeded, it will automatically close the solenoid valve. This feature prevents the discharge of untreated leachate into the perk ponds.

3. Maintenance and Safety Equipment. The bag filter (#1) must be inspected once every two days and changed once a week. The bag filters can be washed out, hung up to dry and reused. When washing this filter, be sure to trap all the wash water to be there is no chance of ground water contamination. The flocculation filter (#7) must be inspected every two days and changed at least once a week. Those cartridges will be available through Ozone Fresh or Gateway (1-800-329-5414). The 1 micron filter (#13) must be replaced once a day. This filter can be discarded in the normal

waste stream. At the end of each 24 hour period or each day's running, the carbon filter (#14) must be back washed for 15 minutes with clean well water. Note the back wash line (#14a) feeds into the leachate collection pond The sterilizer consists of three UV high intensity lamps which are placed inside three quartz sleeves. The quartz sleeves must be removed once every three months and cleaned. The bulbs must be replaced once a year. These bulbs can be ordered from Pura. There are indicator lights on these units so you can tell if the bulb is burned out. Normally the bulbs will last for the full year.

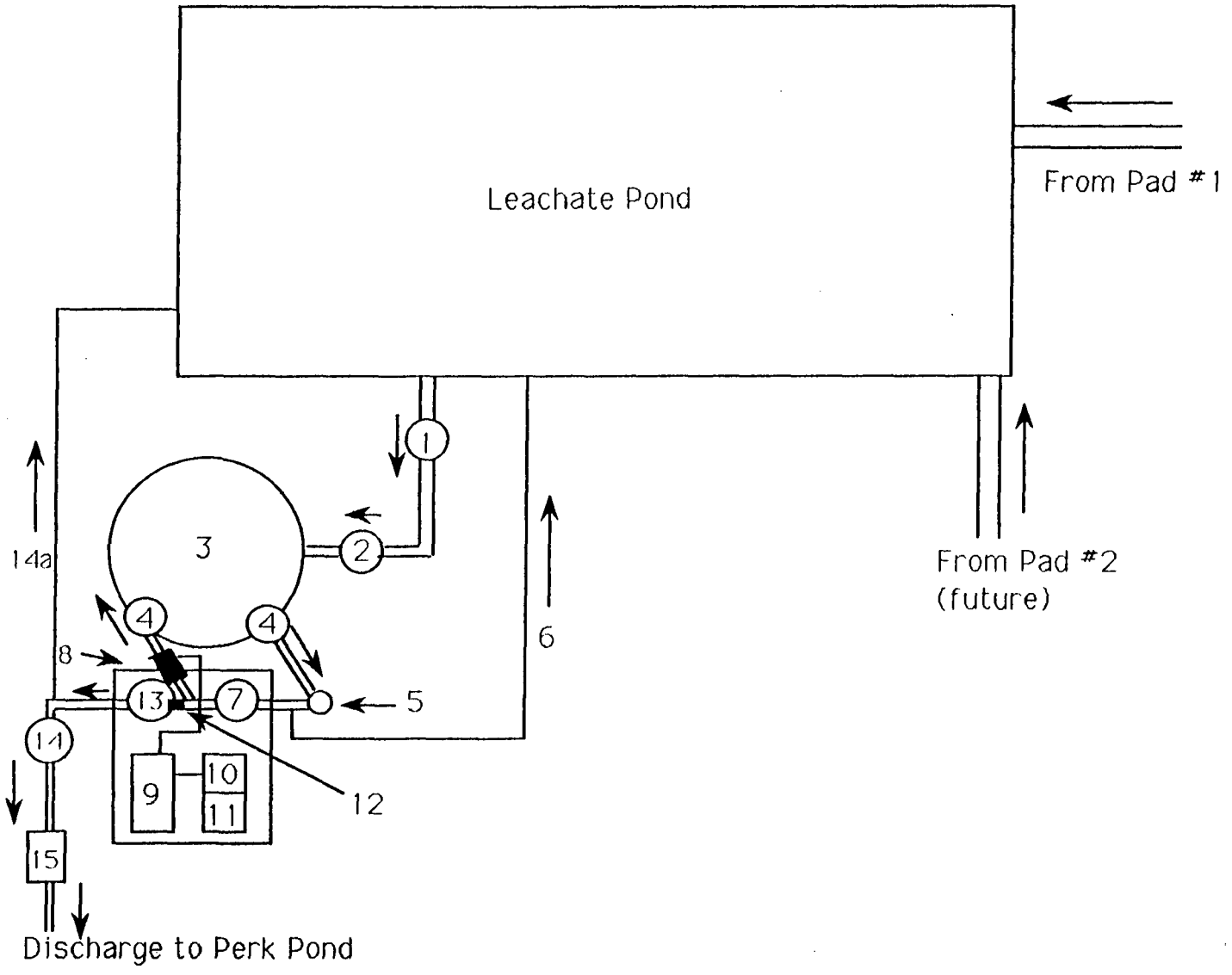
Maintenance on the ozonator is rather simple. The ozonator ion tubes must be removed from the ozonator once every three months and cleaned. Nail polish remover or PVC cleaner may be used to clean these tubes.(do not touch these tubes, just wipe them clean). The retention rings are to be put back on the tubes and the tubes inserted back into the ozonator. The oxygen generator should require no service as long as its working. The sieve beds should be replaced every three years under contract with either Ozone Fresh or the sieve bed manufacturers, whichever you prefer. The heads on the compressors need to be serviced once every 6,000 hours. That's all the service your oxygen concentrator needs.

For the built in safety features on the leachate treatment system, you will notice the return line (#6) is the manual return to pump treated or untreated leachate directly back into the leachate pond. This would be used in the case of a break in the tank or a fault in the system. There are manually operated ball valves (#4) to isolate the leachate in the tank if there is a problem with the system. Along with the automatic solenoid device controlled by the TDS monitor, these safety devices should prevent raw leachate from being spilled on the ground or discharged into the perk pond.

July 11, 1991
George Harris

Sumter County. Florida

Ozone Fresh Leachate Treatment Plant



1. 25 micron bag filter (high capacity)
2. 2HP 50 gpm trash pump
3. 500 gallon contact (treatment) tank
4. Manual shut-off valve
5. 3HP 55 gpm high head pump(recirculating)
6. Manual return to leachate pond
7. High capacity 10 micron primary filter
8. Ozone contactor
9. 2 lb./day dual quad Ozone Fresh ozone generator
10. 8 ltr./min Ozone Fresh oxygen generator
11. Electrical panel, ppm controler, timer, etc.
12. Solenoid (T.D.S. controller)
13. 1 micron post ozonation filtration
14. Auto backwash H.D. G.A.C. filter

14a. Backwash Line

15. UV sterilizer

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September 25, 1991

D. E. R.

SEP 25 1991

SOUTHWEST DISTRICT
TAMPA

Mr. Kim Ford / Engineer
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Dear Kim;

As per your request, enclosed you will find a copy of the Operation and Maintenance Manual for our leachate treatment system that was supplied to us By OzoneFresh.

Sincerely,

Ric Gray
Vice President

Enc.

RG/tgt

Operation and Maintenance Manual

for the Ozone Fresh Leachate Treatment System at the Sumter County Landfill.

D. E. R.
SEP 25 1991
SOUTHWEST DISTRICT
TAMPA

This O&M manual is set up in 3 parts: the Ozone generation equipment; the water treatment equipment; and the maintenance and safety equipment to keep leachate from spilling onto the ground.

1) Ozone equipment. The far room in the trailer contains an oxygen generator or concentrator and a 2 pound a day dual-quad Ozone Fresh Ozone generator. The oxygen generator uses Zeolite sive beds to concentrate the oxygen in the air to feed the pure oxygen to the Ozonators. Ozonators will produce approximately 3 times as much ozone when fed oxygen as they will when fed ambient air. The air is pumped through the Zeolite sive bed which adsorbs the nitrogen from the air leaving only the oxygen to pass. The oxygen is then drawn into the ozonators. The ozonator tubes are connected to a venturi. The venturi is set to draw 8 liters of ozone a minute. The oxygen generator's output is 8 liters a minute. So, 8 liters of pure oxygen are fed into the ozone generators and 8 liters of ozone are drawn into the venturi where the ozone is mixed with the water. The oxygen generator consists of a compressor, an after cooler, a hepafilter, a three-way selenoid valve and 2 zeolite sive beds with a balancing tank. As the air is pumped by the compressor through the cooling line through the hepafilter and into the 3-way selenoid valve, it is automatically shifted every ten seconds from one zeolite chamber to the other. As the zeolite in one chamber adsorbs the nitrogen from the air, it allows the oxygen to pass, while the other chamber is in the purge-cycle This is repeated every ten seconds from the left hand chamber to the right hand chamber. The pure oxygen then passes into a balance tank where it is drawn by the ozonators through the ozone chambers and into the venturi where it mixes with the water. The ozonators consists of 8 ion tube chambers where a corona is established by electrifying the ion tubes with a 10,000 volt transformer. The transformer cycles at 60 times a second. This allows the gas to form a corona around the outside of the glass tubes. The glass tubes are centered inside slightly larger stainless tubes. As the air passes between the glass and the stainless steel, the oxygen molecules in the air are disturbed and broken down

into elemental oxygen. Some of them, approximately 10%, are reformed into ozone on their passage through the ozonator. This ozone is then drawn out of the bottom of the ozonator tubes and into the venturi.

2) Water Treatment Equipment. Leachate is drawn from the leachate pond by a 2-horsepower gould pump through #14, a 25 micron bag filter, which is a high capacity bag filter. On your sheet, the pump is #3. The leachate then enters #4 , a 550 gallon contact or treatment tank. The leachate is drawn from the bottom of the treatment tank by #5, a 3-horsepower 55 gallon per minute high-head pump. This pump is made by Starite. The pump passes through #6, a high-capacity 10 micron filter. The leachate then passes through #7 , the ozone contactor which is a venturi type device where the ozone is drawn from the ozonator and is mixed with the water. Then, the water is transferred back to #4 which is the treatment tank. When the proper TDS level is reached, #17 opens and allows for the discharge of 15 gallons per minute of treated leachate. The selenoid allows the treated leachate to pass through #11 which is a 1-micron post ozonation filter through #12 which is an automatic back wash heavy-duty GAC filter which contains 10 cubic feet of granular activated carbon. The treated leachate then passes thru #13 which is a UV sterilizer. The UV sterilizer is sized at 30 gallons a minute. We discharge 15 gallons a minute. This gives us some leeway. You'll notice on the sheet, #17, the selenoid valve, is automatically actuated to open and close to allow the discharge of leachate. This is controlled by a myron L TDS controller monitor. The controller monitor monitors the TDS level in the water, if the TDS level is exceeded (over 1000), it will automatically close the selenoid valve. This feature allows for no untreated leachate to be discharged into the perk ponds.

3) Maintenance and Safety Equipment. The bag filter #14 must be inspected once every 2 days and changed once a week. The bag filters can be washed out, hung up to dry, and reused. The flocculation filter #6 (the high-capactiy 10 micron filter) must be inspected every 2 days. That filter should be changed at least once a week. Those cartridges will be available through Ozone Fresh or Gateway (1-800-329-5414). #11 is the 1-micron filter. That filter must be changed once a day. Those 1-micron cartridges must be changed on a daily basis if the units are to be run every day. #12 is the automatic back wash heavy duty granular activated carbon filter. At the end of each 24-hr period or each day's running, that granular

activated carbon must be back washed for 15 minutes with clean well water. #13 is the UV sterilizer. The sterilizer consists of 3 UV high-intensity lamps which are placed inside of 3 quartz sleeves. The quartz sleeves must be removed once every 3 months and cleaned. They will form a white film and they will not be as efficient. The bulbs must be replaced once a year. These bulbs can be ordered from _____. There are on and off lights on these units to tell whether the bulb is burned out. Normally, the bulbs will last for the full year without any problems.

Maintenance on the ozonator and the oxygen generator is rather simple. The ozonator ion tubes must be removed from the ozonator once every 3 months and cleaned. Nail-polish remover or PVC cleaner may be used to clean these tubes (to be wiped clean, not to be touched with your hands). The retention rings are to be put back on the tubes and ion tubes to be inserted back into the ozonator. The oxygen generator should require no service unless something is to stop working. The sive beds should be replaced once every 3 years under contract with either Ozone Fresh or the sive bed manufacturers, whichever you prefer. The heads on the compressors need to be serviced ( ) once every 6,000 hours. That's all the service that your oxygen concentrator requires.

For the built-in safety features on the leachate treatment system, you will notice the return line #15. This is the manual return to pump the treated or untreated leachate directly back into the leachate pond. This would be used in case of a break in the tank or a fault in the system. #16 are manually operated ball valves. These are manual shut-off or isolation valves to isolate the leachate in the tank if there is a problem with the system. Along with the automatic selenoid device controlled by the TDS controller, these safety devices should prevent raw leachate from being spilled on the ground or discharged to the perk pond.

July 11, 1991
George Harrs

FILE: SUMTER CO
GF COMP
FILE

THE AMERICAN RECYCLING COMPANY, INC.

County Road 529 • P.O. Box 338 • Sumterville, Florida 33585 • (904) 568-1100 • 1-800-THE-ARC-1 • FAX (904) 568-1103

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D.E.R.

JUL 25 1991

SOUTHWEST DISTRICT
TAMPA

July 24, 1991

Mr. Steven G. Morgan
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33619-7347

Dear Mr. Morgan;

This is the response to your Inspection conducted 6/28/91 at the Sumter County Volume Reduction Station and Class I Landfill on CR 529 in Sumterville, Florida.

The status on the three noted violations on your report are as follows:

Item #		Status
# 8		Our Ozone Fresh leachate treatment system permit modification approval letter was received on 6/28/91.
#31		The litter problems observed during you visit were corrected that same day. We will continue to monitor the area south of our recycling pad (in the storm water discharge area) on a regular basis such that this problem will not reoccur.
#38	a)	The "leachate" coming out of the old landfill cell east of our compost pad is not leachate but rather runoff water from the liner which was documented by the Sumter County Public Works Department and the Sumter County Engineers.
	b)	The high level of leachate in the lined cell will be reduced within approximately six weeks. This condition occurred during the permit approval interim stage and now that we have our Ozone Fresh leachate treatment system in operation, this problem will be corrected and not be repeated.

We appreciated your thoughts on our facility operation and enjoyed meeting Stephanie Hinson also. Please advise us of any questions on any of our responses.

Sincerely,

Ric Gray
Vice President

RG/tgt

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor 813-623-5561 Carol M. Browner, Secretary

NOTICE OF PERMIT

JUN 2 8 1991

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

Re: Sumter County Solid Waste Composting

Dear Mr. Breeden:

Enclosed is a modification of Permit Number SC60-132071, issued pursuant to Section(s) 403.087(1), Florida Statutes.

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

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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

KBF/ab

cc: Doug Beason, OGC Tallahassee
John Reese, DER Tallahassee
Francine Joyal, DER Tallahassee
Jim Pickering, Amerecycle
Gregory Perrine, P.E., Black and Veatch
Steve Morgan, DER Tampa
Elected Officials Notification List

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CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on JUN 2 8 1991 to the listed persons.

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

Anna Black — JUN 2 8 1991

Clerk — Date

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor 813-623-5561 Carol M. Browner, Secretary

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

JUN 2 8 1991

Re: Modification of Conditions
Permit No. SC60-132071, Sumter County
Sumter County Composting and Leachate Treatment

Dear Mr. Breeden:

We are in receipt of your request for a modification of the permit condition. The conditions are changed as follows:

CONDITION	FROM	TO
Specific Condition #41.	Existing	Revised, as follows

41. This permit is valid for expansion of the existing solid waste composting facility in accordance with the April 19, 1991 plans and information submitted by Black and Veatch on April 22, 1991, and revised specifications by Black and Veatch submitted on May 8, 1991. Also, this permit is valid for implementation of the leachate removal and treatment system by ozonation in accordance with reports and information by Ozone Fresh and Amerecycle submitted on May 24, 1991 and in accordance with all applicable requirements of Department rules.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

RDG/kbfb

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D. E. R.

MAY - 9 1991

SOUTHWEST DISTRICT
TAMPA

The American Recycling Company, Inc.
P.O. Box 338
State Rd. 470 & County Rd. 529
Sumterville, Florida 33585
(904) 568-1100

FAX INFORMATION

Date: 5/9/91

TO: KIM FORD

FROM: JIM Pickering

Notes: ~~Attached~~ is our 1st TYPE A letter & our last test results showing the DER guidelines on the side — Gary would like another "TYPE A" letter and please send me a copy too.

In case of problem's with transmission contact: _____

PS. We'll send you the other letter after we've published the Notice

Number of pages to follow cover sheet: _____

Thanks for your help —

Sender's FAX #: (904) 568-1103

Sender's Phone #: (904) 568-1100

Receiver's FAX (813) 272-2279

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary | Dr. Richard Garrity, Deputy Assistant Secretary

July 3, 1990

Mr. Paul Bradley, P.E.
Springstead Engineering
727 South 14th Street
Leesburg, Florida 34748

Re: Sumter County's Compost Classification

Dear Mr. Bradley:

Based on the information submitted with your June 25th letter, test results verify that Sumter County's Compost is Type A Compost and can be used according to FAC Rule 17-709.600(1). Congratulations.

Sincerely,

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

KBF/ab

cc: Mr. Garry Breeden, SCPW
Ms. Francine Joyal, DER-Tallahassee

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ENVIROLAB

SUMTER COUNTY COMPOST ANALYSIS - #91.9395

Parameters	Units	RESULTS 1	2	3	4	Aver.	DER Guidelines
Moisture (TS%)	%	47	-	-	-	-	> 35%
Total Nitrogen	% Dry weight	0.65	-	-	-	-	-
TKN	% Dry weight	0.66	-	-	-	-	-
Nitrate-Nitrite	% Dry weight	<0.10	-	-	-	-	-
Total Phosphorus	% Dry weight	0.14	-	-	-	-	-
Potassium	% Dry weight	0.20	-	-	-	-	-
Cadmium	mg/kg Dry weight	1.8	-	-	-	-	< 15%
Copper	mg/kg Dry weight	300	-	-	-	-	< 450
Lead	mg/kg Dry weight	370	-	-	-	-	< 500
Nickel	mg/kg Dry weight	38	-	-	-	-	< 50
Zinc	mg/kg Dry weight	870	-	-	-	-	< 900
Fecal Coliform	MPN/g volatile solids	<13	<13	<13	-	<13	< 100
pH	Units	8.2	-	-	-	-	-
Organic Matter (compost) (volatile solids)	%	23	-	-	-	-	With 10mm screen: 25%
Organic Matter (raw material)(volatile solids)	%	72	82	70	71	74	-
Reduction of organic matter	%	90	-	-	-	-	> 60%
Foreign Matter	%	2.0	-	-	-	-	< 2%

Envirolab, Inc.,
3060 U.S. Highway One, North
P.O. Box 807
Cranbury Heights, FL 32179
904/QPE 9060 • FAX 904/673-8284

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor 813-623-5561 Carol M. Browner, Secretary

Mr. Gregory Perrine, P.E.
Black & Veatch
2701 No. Rocky Point Drive
Suite 960
Tampa, Florida 33607-5924

MAY - 2 1991

Re: Sumter County Composting

Dear Mr. Perrine:

This is to acknowledge receipt of your request for a permit modification to construct expanded composting facilities.

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

Your request for a permit modification is incomplete. 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 BHW application [Chapters 17-701 and 17-712, Florida Administrative Code (F.A.C.)]:

1. Please provide proof of publication of notice of application as per FAC Section 17-701.030(6), see attachment.

2. Please provide information that assures the DER that leachate from the new lined leachate holding ponds will be removed and treated.

   The DER issued a Warning Notice on March 19, 1991 with one item of non-compliance being failure to maintain less than one foot depth of leachate over the lined active cell. Since leachate pumped from the existing holding pond contributes to that problem, it is difficult to justify the approval of more of the same. The April 8, 1991 response to the warning notice did not provide the assurance of corrective measures. Specific and definite plans for leachate removal and treatment are needed, as well as an implementation schedule for construction and corrective measures.

Recycled Paper

"NOTICE! Pursuant to the provisions of Section 120.600 FS and Chapter 17-12.070(5) FAC, if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered question will be submitted. If the response will require longer than 90 days to develop, an application for new construction should be withdrawn and resubmitted when completed information is available. Or for operating permits, 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."

As this request serves as a summary of all remaining items needed to complete this submittal, we will expect to receive the requested information within the next 30 days. If you cannot provide this information within 30 days, please contact us and arrange an appropriate schedule thru which the information can be provided. If we cannot reach a satisfactory agreement concerning timely submittal of this information, the Department will be placed in the position of denying this request for a permit. Therefore, if there are points which must be discussed and resolved, please contact me at (813) 623-5561, extension 382 to arrange a meeting.

Sincerely,

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

EGW/ab
Attachments

cc: Garry Breeden, S.C.P.W.
Paul Bradley, P.E., Springstead Engineering
Ric Gray, Americycle

State of Florida
Department of Environmental Regulation
Notice of Application

The Department announces receipt of a request for a permit modification to construct additional solid waste composting areas and leachate holding ponds at the existing Sumter County Landfill and Composting Site, subject to all requirements of Department rules, located near I-75 and C.R. 40, north of Bushnell, Sumter 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.

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

May 14, 1991

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

Re: Sumter County's Compost Classification

Dear Mr. Breeden:

Based on the information submitted with your May 9th FAX, test results verify that Sumter County's Compost is Type A Compost and can be used according to FAC Rule 17-709.600(1). Congratulations.

Sincerely,

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

KBF/ab

cc: Paul Bradley, P.E., Springstead Engineering
Jim Pickering, Amerecycle
Francine Joyal, DER Tallahassee

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BLACK & VEATCH
ENGINEERS — ARCHITECTS

TEL. (813) 281-0032

2701 NORTH ROCKY POINT DR., SUITE 960
TAMPA, FLORIDA 33607-5924
FAX: (813) 281-0881

Amerecycle
Sumter County, Florida
Composting Facility Site Improvements

B&V Project 17239.202
B&V File F
May 10, 1991

Mr. Kim Ford
Fla. Dept. of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610

Subject: Permit No. SC60-132071
Modification Request

Dear Mr. Ford:

Thank you for your timely response to the permit modification application submitted for the Site Improvements project at the Sumter County Landfill. The comments contained in your letter dated May 2, 1991 were reviewed and discussed by Black & Veatch, Amerecycle, and Sumter County personnel at a meeting on May 9, 1991.

The main item of discussion at the meeting was leachate treatment. Amerecycle will be providing leachate treatment and is currently gathering information and documentation to support a proposed system. Since treatment was the focus of your review letter and the other comment did not relate to the drawings and specifications completed by Black & Veatch, Amerecycle will provide the required official response to your letter with the leachate treatment system submittal.

Again, we appreciate your cooperation and if you have any questions, please feel free to contact our office at any time.

Very truly yours,

BLACK & VEATCH

Gregory L. Perrine, P.E.

kh/C11/030.51

cc: Garry Breeden
Ric Gray

D. E. R.

MAY 13 1991

SOUTHWEST DISTRICT
TAMPA

BLACK & VEATCH
ENGINEERS — ARCHITECTS

TEL. (813) 281-0032

2701 NORTH ROCKY POINT DR., SUITE 960
TAMPA, FLORIDA 33607-5924
FAX: (813) 281-0881

Amerecycle
Sumter County, Florida
Composting Facility Site Improvements

B&V Project 17239.202
B&V File F
May 6, 1991

D. E. R.

MAY - 8 1991

SOUTHWEST DISTRICT
TAMPA

Mr. Kim Ford
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610

Subject: Permit No. SC60-132071
Modification Request

Dear Mr. Ford:

Transmitted herewith are 3 copies of the following for the Composting Facility Site Improvements project at the Sumter County Landfill:

- Revised specification Section 13200 "HDPE Lining Membrane".
- Revised specification Section 01400 "Quality Control".
- Revised Table of Contents.

Specification Sections 13200 and 01400 were modified to incorporate the additional liner testing requirements you requested. The Table of Contents was also revised to reflect the modifications. The enclosed sections should be incorporated into the specification documents previously submitted and the superseded sections deleted.

If you have any questions, please give me a call.

Very truly yours,

BLACK & VEATCH

Gregory L. Perrine, P.E.

kh/C11/022.51
Enclosures
cc: Garry Breeden w/encl.
Ric Gray w/encl.

SUMTER COUNTY BOARD OF COUNTY COMMISSIONERS
SUMTER COUNTY, FLORIDA
COMPOSTING FACILITY SITE IMPROVEMENTS

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APPENDIX - Test Hole Information

Section 01400 - QUALITY CONTROL

1. TESTING LABORATORY SERVICES. All tests which require the services of a laboratory to determine compliance with the Contract Documents shall be performed by an independent commercial testing laboratory acceptable to Engineer. The laboratory shall be staffed with experienced technicians, properly equipped, and fully qualified to perform the tests in accordance with the specified standards.

Testing services provided by Owner are for the sole benefit of Owner. However, test results shall be available to Contractor. Additional field or laboratory testing necessary to satisfy Contractor's internal quality control procedures shall be the sole responsibility of Contractor.

1.01. Testing Laboratory Services Furnished by Contractor. Unless otherwise specified, Contractor shall be responsible for all testing laboratory services in connection with the following:

Concrete materials and mix designs.

The design of asphalt mixtures.

Gradation tests for embedment, fill, and backfill materials.

HDPE lining membrane materials.

Onsite testing of HDPE lning membrane welding samples and seam testing.

Obtaining samples for onsite and offsite testing of HDPE lining membrane.

All other tests and engineering data required for Engineer's review of materials and equipment proposed to be used in the Work.

Contractor shall obtain Engineer's acceptance of the testing laboratory before having services performed, and shall pay all costs for services.

1.02. Testing Laboratory Services Furnished by Owner. Unless otherwise specified, Owner shall pay all charges of testing laboratories for quality control tests made on the following materials and equipment, during and after their incorporation in the Work:

Concrete.

Asphalt mixtures.

Moisture-density (Proctor) and relative density tests on embedment, fill, and backfill materials.

In-place field density tests on embedments, fills, and backfill.

Offsite testing of HDPE lining membrane seams.

Other materials and equipment.

Field sampling and testing will be performed by Engineer or testing laboratory personnel, in the general manner indicated in the Specifications, with minimum interference with construction operations. Engineer shall determine the exact time and location of field sampling and testing, and may require such additional sampling and testing as necessary to determine that materials and equipment conform with data previously furnished by Contractor and with the Contract Documents.

Arrangements for delivery of samples and test specimens to the testing laboratory will be made by Owner. The testing laboratory shall perform all laboratory tests within a reasonable time consistent with the specified standards and shall furnish a written report of each test.

Contractor shall furnish all sample materials and cooperate in the sampling and field testing activities, interrupting the Work when necessary. When sampling or testing activities are performed in the field by Engineer or testing laboratory personnel, Contractor shall furnish personnel and facilities to assist in the activities.

1.03. Transmittal of Test Reports. Written reports of tests and engineering data furnished by Contractor for Engineer's review of materials and equipment proposed to be used in the Work shall be submitted as specified for Shop Drawings.

The testing laboratory retained by Owner will furnish three copies of a written report of each test performed by laboratory personnel in the field or laboratory. Two copies of each test report will be transmitted to the Engineer and one copy to Contractor within 3 days after each test is completed.

2. MANUFACTURER'S FIELD SERVICES.

2.01. Services Furnished Under This Contract. An experienced, competent, and authorized representative of the manufacturer of each item of equipment for which field services are indicated in the equipment schedule section shall visit the site of the Work and inspect, check, adjust if necessary, and approve the equipment installation. In each case, the manufacturer's representative shall be present when the equipment is placed in operation. The manufacturer's representative shall revisit the jobsite as often as necessary until all trouble is corrected and the equipment installation and operation are satisfactory in the opinion of Engineer.

Each manufacturer's representative shall furnish to Owner, through Engineer, a written report certifying that the equipment has been properly installed, is in accurate alignment, is free from any undue stress, and that it operated satisfactorily.

All costs for these services shall be included in the Contract Price.

End of Section

Section 13200 - HDPE LINING MEMBRANE

1. SCOPE. This section covers high density polyethylene (HDPE) lining membranes. The membrane is to be installed on the inside berm slopes (concrete curb to pond bottom and asphalt surface to pond bottom) and bottom of the leachate collection ponds to prohibit percolation of leachate into surrounding soil.

2. GENERAL. The accepted plastic sheet manufacturer's standard printed specifications covering the installation of the lining in leachate ponds shall be considered as being incorporated herein, and all Work for and in connection with said membrane lining installation shall be strictly in accordance therewith. Such manufacturer's specifications shall include and cover application of sheets, including preparation, joint welding and removal of forms; miscellaneous requirements covering transportation, handling, storing, and inspection; and necessary precautions with respect to ventilation and protection of workmen.

The HDPE lining membrane shall be designed and manufactured by Gundle Lining Systems, Inc. or equal in accordance with all applicable standards.

3. QUALITY ASSURANCE. All Work for and in connection with the furnishing and installation of membrane lining, the preparation of surfaces, and the sealing and welding of joints shall be performed by the manufacturer of the lining or by a firm or individual who is authorized by and recommended to the Owner in writing by said manufacturer. The Contractor shall furnish, at no additional cost to the Owner, all field testing specified herein. The Owner will bear the cost of offsite testing specified.

3.01. Affidavits. Prior to shipment of material, the manufacturer of the lining shall furnish an affidavit attesting to the successful and completely satisfactory use of the material as a lining for the service intended for at least 10 years, or by having successfully manufactured and installed one hundred million square feet of similar liner material for hydraulic lining installations. The manufacturer must be listed by the National Sanitation Foundation (NSF) Standard 54.

3.02. Applicators. The installation of the specified lining shall be considered as highly specialized work, and personnel performing this type of work shall be trained in methods of installation and shall demonstrate their ability to the satisfaction of the Owner.

3.03. Welders. Each welder shall pre-qualify by successfully passing a welding test before doing any welding. Requalification may be required at any time deemed necessary by the Engineer. All test welds shall be made in the presence of the Engineer.

The weld specimen shall be tested by the Engineer as follows:

The test specimens shall be cut from the welded sample and tested in tension with a 10-pound pull across the welds. If none of these specimens fail when tested, the weld will be considered as satisfactory in tension.

If one of the specimens fails to pass the tension test, a retest will be permitted. The retest shall consist of testing three additional specimens cut from the original welded sample. If all three of the retest specimens pass the test, the weld sill be considered satisfactory.

A disqualified welder may submit a new welding sample when, in the opinion of the Owner or Engineer, he has had sufficient off-the-job training or experience to warrant re-examination.

3.04. Shop Testing.

3.04.01. Raw Material. All compound ingredients of the HDPE materials shall be randomly sampled on delivery to the HDPE manufacturing plant to ensure compliance with specifications. Tests to be carried out shall include Density ASTM D1505 and Melt Index ASTM D1238, Condition E.

3.04.02. Manufactured Roll Goods. Samples of the production run shall be taken and tested according to ASTM D638 to insure that tensile strength at yield and break, elongation at yield and break meet the minimum specifications. A quality control certificate shall be issued with the material.

3.04.03. All welding material shall be of a type supplied by the manufacturer.

3.05. Warranty. The manufacturer/installer shall provide a written warranty covering a minimum of 5 years. The manufacturer shall also provide a written certification that the liner has been furnished and installed in accordance with the specifications.

4. LINING MATERIAL.

a. The new membrane liner shall comprise HDPE material manufactured of new, first-quality products designed and manufactured specifically for the purpose of liquid containment in hydraulic structures.

b. The Contractor shall submit a certification from the manufacturer of the sheeting stating that the sheeting meets physical property requirements for the intended application.

c. The liner material shall be so produced as to be free of holes, blisters, undispersed raw materials, or any sign of

contamination by foreign matter. Any such defect shall be repaired using the extrusion fusion welding technique in accordance with the manufacturer's recommendations.

d. The lining material shall be manufactured a minimum of 22.5 feet (6.8 meters) seamless widths. Labels on the roll shall identify the thickness, length, and manufacturer's roll number. There shall be no factory seams.

e. The liner material shall meet the specification values according to the specification sheet for HDPE as follows:

Typical Properties	Test Method	80 mil (2.0 mm)
Gauge (Nominal)		
Density, g/cc. (Min.)	ASTM D1505	0.94
Melt Flow Index, g/10 min. (Max.)	ASTM D1238 Condition E (190°C, 2.16 kg.)	0.3
Tensile Properties (Typical)	ASTM D 638 Type IV Dumb-bell at 2 ipm.	
1. Tensile Strength at Break (Pounds/inch width)		320
2. Tensile Strength at Yield (Pounds/inch width)		190
3. Elongation at Break (Percent		700
4. Elongation at Yield (Percent)		13
5. Modulus of Elasticity (Pounds per square inch x 10^5)	ASTM D882	1.1
Tear Resistance Initiation, lbs. (Typical)	ASTM D1004 Die C	55
Low Temperature Brittleness, °F (Typical)	ASTM D746 Procedure B	-112
Dimensional Stability, % Change Each direction (Max.)	ASTM D1204 212°F 1 hr.	±2
Resistance to Soil Burial, Percent change in original value (Typical)	ASTM D3083 using ASTM D638 Type IV Dumb-bell at 2 ipm.	
Tensile Strength at Break and Yield	% Change	±10

Elongation at Break and Yield	% Change	±10
Environmental Stress Crack, Hours (Min.)	ASTM D1693 (10% Igepal, 50°C)	1500
Puncture Resistance, Pounds (Typical)	FTMS 101 Method 2065	105
Coefficient of Linear Thermal Expansion, x 10^{-4} $\frac{cm}{cm°C}$ (Typical)	ASTM D696	1.2
Thermal Stability Oxidative Induction Time (OIT), Minutes (Min.)	ASTM D3895 130°C, 800 psi O_2	2000

5. INSTALLATION. All heat welding of the lining during installation or repair shall be made by an individual certified to be qualified to do such work by the manufacturer. Basic requirements covering the lining installation are as follows:

5.01. Area Subgrade Preparation. Surfaces to be lined shall be smooth and free of all rocks, stones, sticks, roots, sharp objects, or debris of any kind. The surface should provide a firm, unyielding foundation for the membrane with no sudden, sharp or abrupt changes or break in grade. No standing water or excessive moisture shall be allowed. The installation contractor shall certify in writing that the surface on which the membrane is to be installed is acceptable before commencing work.

5.02. Contractor Approval. The installation of the HDPE must be done by the manufacturer using the manufacturer's extrusion or hot wedge welding equipment and installation methods. All supervisors overseeing the liner installation must have ten million square feet of supervisory liner experience. All field technicians must have over one million square feet of seaming experience.

5.03. Field Seams. Individual panels of liner material shall be laid out and overlapped by a maximum of four inches (101 millimeters) for extrusion weld prior to welding or five inches (127 millimeters) for hot wedge weld prior to welding. Extreme care shall be taken by the installer in the preparation of the areas to be welded. The area to be welded shall be cleaned and prepared according to the procedures laid down by the material manufacturer. All sheeting shall be welded together by either of two processes: a homogeneous overlap extrusion process or double track hot wedge process. The composition of the extrudate shall be identical to the lining material.

The welding equipment used shall be capable of continuously monitoring and controlling the temperatures in the zone of contact where the machine is actually fusing the lining material so as to insure that changes in environmental conditions will not affect the integrity of the weld.

No "fish mouths" shall be allowed within the seam area. Where "fish mouths" occur, the material shall be cut, overlapped, and an overlap extrusion weld shall be applied.

All seams shall have a seam number that corresponds with the panel numbers. The numbering system shall be used in the development of the as-built drawings. Seam numbers shall be derived from the combination of the two panel numbers that are to be welded together.

All fusion welded "T" seams (i.e. the result of membrane panels placed in perpendicular to each other) shall be double welded. The extrusion process shall be used for the second weld.

All extrudate shall be free of dirt, dry, and protected from damage.

If an extrusion welder is stopped for longer than one minute, it shall be purged to remove heat-degraded extrudate.

All seams constructed on sloped surfaces shall be vertical seams.

All panels placed on sloped surfaces shall extend five (5) feet inward from the toe of slope.

All end seams shall be staggered a minimum of five (5) feet in length between contiguous panels.

All seams that are to be extrusion-welded shall be cleaned of oxidation. This shall be done by using a hand grinder with sanding discs of a grit recommended by the manufacturer to match ambient conditions. Care will be taken as not to damage the membrane.

6. FIELD QUALITY CONTROL

6.01. A test weld three feet long from each welding machine shall be run twice during each shift and under the same conditions as exist for the liner welding. The test weld shall be marked with date, ambient temperature, and welding machine number. Samples of weld 1/4-inch to 1/2-inch wide shall be cut from the test weld and tested onsite in shear and peel in accordance with ASTM D638 Test Methods. Seams shall be stronger than the material. No welder may start work until the sample weld has been approved. In addition to testing prior to starting work, random weld samples will be removed from the installed welded sheeting at a maximum frequency of 500 L.F. of weld.

6.02. The weld samples shall be submitted by the Contractor to an independent testing laboratory (selected by the Owner) each day for subsequent testing on laboratory tensometer equipment in accordance with the applicable ASTM Standards. Test results for each days testing shall be verbally submitted to the Engineer by the end of the next working day. Certified test results shall be submitted to the Engineer the second working day.

6.03. A quality-control technician provided by the membrane manufacturer shall inspect each foot of seam. Any area showing defect shall be marked and repaired in accordance with the manufacturer's repair procedures. The technician shall use the quality control documentation at the end of this section for monitoring liner installation unless other documentation is approved by the Engineer.

6.04. The Contractor shall employ onsite non-destructive testing on all welds to ensure watertight homogeneous seams.

1. Non-destructive testing for the hot wedge weld shall consist of the air pressure test as per manufacturer's recommendations.

    a. For the air pressure test the maximum allowable leak down air pressure shall not exceed thirteen percent (13%) after fifteen (15) minutes of applied recommended pressure.

    b. Should failure occur through excessive leak down over the scheduled time period of the air pressure test, check end seals and retest. Should failure reoccur, trim excess overlap from seam and visually inspect fusion area. If rupture is located, patch and test each side of patch. If rupture is not located, then peel tests shall be performed at the beginning and end of the seam to qualify seam strength. If both samples pass, apply vacuum test procedures. If both samples fail, remove seam and replace. Should one sample pass and the other fail, additional samples shall be taken randomly from the seam and peel tested. If either of these fail, remove and replace seam. If both pass, apply vacuum procedures.

2. Non-destructive testing for all extrusion welds shall be performed by means of a vacuum box test. Vacuum testing shall follow the following procedure:

    a. A leak indicator spray shall be applied to the section of seam to be tested.

b. The vacuum box shall be placed over the seam section and a vacuum of at least 8 psi produced within the bell for at least 15 seconds.

c. Bubbling of the leak indicator spray indicates a leak that must be repaired and retested.

d. The seam shall be approved only after the area tests clear of any leaks.

e. Before performing the tests, a detailed vacuum test procedure for welded seams shall be submitted by the Contractor for approval by the Owner.

3. Vacuum testing will be required in the event of the pressure test failure and on patches, extrusions, penetration joints, and on other areas requiring tests that are not practical to pressure test.

7. ADJUSTING AND CLEANING. Cleaning and adjusting the lining prior to welding inspection, or repair shall be done in accordance with the manufacturer's recommendations and instructions, and in a manner which will not harm or damage the lining.

8. PROTECTION. All necessary measures and precautions shall be taken to prevent damage to lining from equipment and materials used in, or taken through the Work. Any damage to the installed lining shall be repaired by the Contractor in accordance with the lining manufacturer's instructions and recommendations and retested.

All holes and all cut, torn, and seriously abraded areas in the lining shall be patched. Patches shall be made in accordance with manufacturer's recommendations.

9. DELIVERY, STORAGE, AND HANDLING. The Contractor shall take all reasonable precautions during the receipt, handling, and storage of the lining to prevent scratching, denting, puncturing, or damaging the lining surface. Sheets shall be stored as per manufacturer's directions. During cold weather, special precautions shall be made for handling in accordance with the manufacturer's instructions.

Any damage to the lining shall be repaired by the Contractor in accordance with the lining manufacturer's instructions and recommendations at no cost to Owner.

10. DRAWINGS AND DATA. Complete specifications and data covering the materials to be furnished and detailed drawings covering the installation thereof, in particular in connection with the attachment of the linings to forms, asphalt and concrete surfaces, penetrations, and the

arrangement and sealing of the joints, shall be submitted for Engineer review. Submittals shall include, but not be limited to, the following:

1. Samples of HDPE membrane material and field seams for visual inspection and testing.

2. Shop drawings showing the following:

   a. Proposed layout of the HDPE membrane system.

   b. Details of seaming the HDPE membrane, anchoring, connections, penetrations, boots, and other construction details.

3. Affidavits and certificates of compliance with the requirements of standards specified herein for the HDPE membrane and its installation.

4. Installation and erection data.

5. Maintenance and repair requirements.

6. Manufacturer's guarantee.

7. A quality control manual that specifically defines the quality assurance program. The manual shall include daily procedures, welding techniques, field testing procedures, lab testing procedures, specific steps that are to be taken in the event of a failure or defect, personnel requirements, levels of authority, and all other information necessary to ensure a high quality liner installation. The liner quality control documentation forms included at the end of this section shall be used unless alternative documentation is approved by the Engineer.

The resin manufacturer must submit sampling procedures, sampling frequency, testing methods and test results. Any materials not conforming to the specifications will be rejected. All testing results will be forwarded to the Owner.

End of Section

Project Name_____ Project No. _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 1
LINER DELIVERY

Roll Number _____
Date Received _____
Date Checked _____

		Yes/No/Initial
1.	Copy of shop testing confirming compliance with all applicable specifications delivered with roll.	_____
2.	Roll visually inspected.	_____
3.	Checked for agreement with Bill of Lading.	_____
4.	Bill of Lading signed.	_____
5.	Non-conforming material segregated and tagged "Do Not Use" with explanation for non-compliance, dated and signed.	_____
6.	Notify Engineer of non-conforming material.	_____
7.	Roll Accepted _____ Rejected _____	

Signature _____

NOTE: All items are to be completed by the liner manufacturer's onsite quality control technician.

Project Name_____ Project No. _____
Date _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 2
DAILY CHECKLIST

1. Surfaces for liner placement meet specifications:

   Yes _____ No _____ Initial _____

2. Optimum seaming process parameters determined based on the following ambient conditions:

   - Temperature _____ °F

   - Barometric Atmospheric Pressure _____ in-Hg

   - Humidity _____ %

4. Test seams inspected:

   Yes _____ No _____ Initial _____

5. All equipment settings and changes recorded by operator and placed in file.

   Yes _____ No _____ Initial _____

6. Non-destructive tests conducted on all seams.

   - Number of failures. _____

   - Number of repairs. _____

   - Failure locations marked on liner. _____

   - Failure locations recorded in file. _____

   - Initial _____

Date _____

FORM NO. 2
(Continued)

DAILY CHECKLIST

7. Destructive testing completed according to specifications.

   - Number of failures. _____
   - Number of repairs. _____
   - Peel and shear test results recorded. _____
   - Initial _____

8. All seaming machine technicians have been thoroughly trained in the use, limitations, adjustment, and repair of each seaming machine.

   - Initial _____
   - Seaming Machine Operators Names:

   _____ _____ to _____

   _____ _____ to _____

   _____ _____ to _____

   _____ _____ to _____

   _____ _____ to _____

9. Number of rolls installed. _____

10. Roll numbers installed. _____

11. Comments: _____

_____

_____

NOTE: All items to be completed by the liner manufacturer's onsite quality control technician.

Project Name _____
Project No. _____
Date _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 3
LINING MEMBRANE PANEL PLACEMENT

Panel No.	Roll No.	Subgrade Condition	Length	Width	Visual Inspection Pass/Fail	Initial

Comments: _____

NOTE: All items to be completed by the liner manufacturer's onsite quality control technician.

Project Name _____
Project No. _____
Date _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 4
ONSITE LINING MEMBRANE WELDING REPORT

Welder:_____ Weld Type:_____

Welding Machine No.:_____ Liner Thickness:_____

Seam ID. or Sample No.	Original or Repair	Ambient Temp.	Weather Conditions	Non-Destructive Test Pass/Fail	Onsite Destructive Peel Test Pass/Fail	Initial

Comments:_____

NOTE: All items to be completed by the liner manufacturer's onsite quality control technician.

Project Name _____
Project No. _____
Date/Page _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 5
DAMAGE AND FAILURE REPORT

Panel No.	Seam No.	Location of Repair or Damage	Type of Damage	Inspection Date	Initial

Comments: _____

NOTE: All items to be completed by the liner manufacturer's onsite quality control technician.

Project Name _____
Project No. _____
Date/Page _____

QUALITY CONTROL DOCUMENTATION
FORM NO. 6
OFFSITE WELD TESTING REPORT

Sample Number	Test	Test Method	Results	Initial

Comments: _____

NOTE: All items to be completed by the liner manufacturer's onsite quality control technician.

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor 813-623-5561 Carol M. Browner, Secretary

Mr. Gregory Perrine, P.E.
Black & Veatch
2701 No. Rocky Point Drive
Suite 960
Tampa, Florida 33607-5924

MAY - 2 1991

Re: Sumter County Composting

Dear Mr. Perrine:

This is to acknowledge receipt of your request for a permit modification to construct expanded composting facilities.

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

Your request for a permit modification is incomplete. 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 BHW application [Chapters 17-701 and 17-712, Florida Administrative Code (F.A.C.)]:

1. Please provide proof of publication of notice of application as per FAC Section 17-701.030(6), see attachment.

2. Please provide information that assures the DER that leachate from the new lined leachate holding ponds will be removed and treated.

   The DER issued a Warning Notice on March 19, 1991 with one item of non-compliance being failure to maintain less than one foot depth of leachate over the lined active cell. Since leachate pumped from the existing holding pond contributes to that problem, it is difficult to justify the approval of more of the same. The April 8, 1991 response to the warning notice did not provide the assurance of corrective measures. Specific and definite plans for leachate removal and treatment are needed, as well as an implementation schedule for construction and corrective measures.

Recycled Paper

"NOTICE! Pursuant to the provisions of Section 120.600 FS and Chapter 17-12.070(5) FAC, if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered question will be submitted. If the response will require longer than 90 days to develop, an application for new construction should be withdrawn and resubmitted when completed information is available. Or for operating permits, 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."

As this request serves as a summary of all remaining items needed to complete this submittal, we will expect to receive the requested information within the next 30 days. If you cannot provide this information within 30 days, please contact us and arrange an appropriate schedule thru which the information can be provided. If we cannot reach a satisfactory agreement concerning timely submittal of this information, the Department will be placed in the position of denying this request for a permit. Therefore, if there are points which must be discussed and resolved, please contact me at (813) 623-5561, extension 382 to arrange a meeting.

Sincerely,

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

EGW/ab
Attachments

cc: Garry Breeden, S.C.P.W.
Paul Bradley, P.E., Springstead Engineering
Ric Gray, Americycle

State of Florida
Department of Environmental Regulation
Notice of Application

The Department announces receipt of a request for a permit modification to construct additional solid waste composting areas and leachate holding ponds at the existing Sumter County Landfill and Composting Site, subject to all requirements of Department rules, located near I-75 and C.R. 40, north of Bushnell, Sumter 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.

BLACK & VEATCH
ENGINEERS — ARCHITECTS

TEL. (813) 281-0032

2701 NORTH ROCKY POINT DR., SUITE 960
TAMPA, FLORIDA 33607-5924
FAX: (813) 281-0881

Amerecycle
Sumter County, Florida
Composting Facility Site Improvements

B&V Project 17239.202
B&V File F
April 19, 1991

D.E.R.
APR 2 2 1991
Southwest District Tampa

Mr. Kim Ford
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610

Subject: Permit No. SC60-132071
Modification Request

Dear Mr. Ford:

Transmitted herewith is the following documentation for the site improvements project at the Sumter County Landfill:

- Three sets of project drawings (signed and sealed by a professional engineer).
- Three sets of project specifications (signed and sealed by a professional engineer).
- $500.00 application fee.

As we have previously discussed, construction and operation of the proposed improvements requires a modification to the existing permit number SC60-132071. The enclosed documentation is submitted for your review and we request a permit modification be issued for the work.

The proposed leachate collection ponds are designed to retain a 100-year, 24-hour design storm as follows:

North Facilities

Retention Area (compost pad + collection pond) = 63,864 sf.
Design Storm = 10.7 inches.
Accumulated Runoff Required

$Q = (P - .5S)^2/(P + .5S)$
$P = 10.7$ inches
$CN = 100$ (assume no infiltration)
$S = (1000/CN) - 10 = 1000/100 - 10 = 0$
$Q = (P - 0)^2 / P + 0 = P = 10.7$ inches

Mr. Kim Ford

B&V Project 17239.202
April 19, 1991

Retention Volume Required = Q x A = 10.7 in/12 in/ft x 63,864 sf = 56,945 cf
Retention Volume Provided
$V = 1/3 \times h [A_1 + A_2 + (A_1 \times A_2)^{1/2}]$
h = water depth = 9 feet
A_1 = area at high water level = 11,256 sf
A_2 = area at pond bottom = 2,480 sf
V = 57, 058 cf

South Facilities

Retention Area (compost pad + collection pond) = 73,840 sf.
Design Storm = 10.7 inches.
Accumulated Runoff Required (see above calculations)
Retention Volume Required = Q x A = 10.7 in/12 in/ft x 73,840 sf = 65,841 cf
Retention Volume Provided (see above calculations)
h = 11.5 feet
A_1 = 12,416 sf
A_2 = 1,112 sf
V = 66,100 cf

Collected leachate will be treated and discharged to the existing detention basin upon completion of storm events. Amerecycle, contracted operators of the composting facility, is currently proceeding with an application for the proposed treatment system.

If you develop any questions during your review, please feel free to contact our office at any time.

Very truly yours,

BLACK & VEATCH

Gregory L. Perrine, P.E.

kh/C11/009.51
Enclosures

cc: Garry Breeden, Sumter County
Ric Gray, Amerecycle

H & B CONSULTING ENGINEERS, INC.
410B E. Belt Aven
P.O. Box 520
BUSHNELL, FLORIDA 33513

(904) 793-2113

LETTER OF TRANSMITTAL

DATE	JOB NO.
1/10/91	917-CDFL

ATTENTION: Mr. Ernest Weeks, Engineer

RE: Construction & Demolition Debris
Solid Waste Management Facility
Phase I Construction
for D & C Disposal, Inc.
S060 - 177944

TO Florida Dept./Environmental Regulation
Solid Waste Permitting Section

4520 Oak Fair Blvd.
Tampa, FL 33610-7347

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1			Copy of SWFWMD's form "Statement of Completion & Request to Transfer to Operation Entity"

D.E.R.
JAN 16 1991
SOUTHWEST DISTRICT
TAMPA

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval

☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution

☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints

☐ For review and comment ☐ _____

☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

This is to keep you fully apprised of Sumter County's progress toward removing the Construction and Demolition debris presently stockpiled at the County's landfill. We will begin very soon to remove this material and transfer it to this permitted C & D site.

COPY TO Mr. Garry Breeden
Mr. Tommy Hurst
Mr. William H. Gregory

SIGNED: Bennie E. Bedenbaugh, P.E.

PRODUCT 239-3 NEBS Inc., Groton, Mass. 01471. To Order PHONE TOLL FREE 1-800-225-6380

If enclosures are not as noted, kindly notify us at once.

STATEMENT OF COMPLETION
AND REQUEST FOR TRANSFER TO OPERATION ENTITY

Within 30 days after completion of construction of the Surface Water Management system, the owner or authorized agent must SEND THE ORIGINAL PLUS ONE COPY OF THIS FORM AND TWO COMPLETE SETS OF CERTIFIED AS-BUILT DRAWINGS for the Surface Water Management system structures and appurtenances to the Southwest Florida Water Management District, 2379 Broad Street, Brooksville, Florida 34609-6899. Upon receipt, the District will review this statement of completion and may inspect the system for compliance with the approved permit and as-built drawings. Within 30 days after receipt of this statement, the District will notify the permittee whether the operation phase of the permit may commence. The operation phase of this permit is effective when the statement of completion form is signed by an authorized District representative.

(1) SURFACE WATER MANAGEMENT SYSTEM INFORMATION:

Permit No. 407582.00 County Sumter

Project Name: Solid Waste Management Facility - Construction & Demolition Debris

Permittee: D & C Disposal, Inc. - Mr. William H. Gregory

Address: P.O. Box 38

City: Oxford State FL Zip 32684

Telephone: (904) 748-1018

(2) I hereby certify that all facilities have been built substantially in accordance with the approved permit design plan and that any substantial deviations (attached) will not prevent the system from fluctuating in compliance with the requirements of this chapter. This certification is verified by the attached "as-built" drawings (as-built drawings and certification must be signed and sealed by a Professional Engineer, if required by Chapter 471, F.S.)

By: _____
Signature of Engineer of Record

1/14/91

(Affix Seal)

David C. Hanson, P.E. 14987
Name (Please Type) Florida Registration No.

H & B Consulting Engineers, Inc.
Company Name

P.O. Box 520, 410B East Belt Ave.
Company Address

Bushnell, Fl 33513

Phone: (904) 793-2113 Date: 1/10/91

D.E.R.
JAN 16 1991

(3) The District is hereby notified that construction of the Surface Water Management system is completed, and the Permittee requests that the Surface Water Management permit be transferred to the entity for operation and maintenance as named in Section (4).

By: William H. Gregory
Signature of Owner, Permittee or Authorized Agent

Mr. William H. Gregory, President
Name and Title (Please Type)

D & C Disposal, Inc.
Company Name

Permit No. 407582.00

P.O. Box 38
Address

Oxford, FL 32684
City, State, Zip

Phone: (904) 748-1018 Date: 1/10/91

(4) The below-named entity or individual agrees to maintain and operate the Surface Water Management system in compliance with all permit conditions and the provisions of Chapter 40D-4, Florida Administrative Code (F.A.C.).

By: William H. Gregory
Signature of Individual or Authorized Agent for Operation Entity

D & C Disposal, Inc.
Name of Individual or Operation Entity

Mr. William H. Gregory, President
Name and Title (Please Type)

P.O. Box 38
Address

Oxford, FL 32684
City, State, Zip

Permit No. 407582.00

Phone: (904) 748-1018 Date: 1/10/91

RESPONSIBILITY FOR MAINTENANCE AND OPERATION MAY BE TRANSFERRED TO ANOTHER ENTITY ONLY UPON WRITTEN NOTICE AND APPROVAL BY THE DISTRICT IN ACCORDANCE WITH RULE 40D-4.351, F.A.C.

SWFWMD USE ONLY

Based upon the certification by the Engineer of Record in Section (2) and the notice of completion in Section (3), the responsibility for operation and maintenance of the system is transferred to the entity named in section (4), and the operation phase of this permit is effective on the date indicated below.

Southwest Florida Water Management District

Authorized District Representative

Name and Title

Date:

Permit No.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

December 11, 1990

Mr. Gregory Perrine, P.E.
Black & Veatch
2701 North Rocky Point Drive
Suite 960
Tampa, FL 33607-5924

Re: Sumter County Composting and Landfill
SC60-132071

Dear Mr. Perrine:

In response to your December 10th letter, your questions are answered as follows:

1. An 80 mil single liner is acceptable at this time;

2. No additional groundwater monitoring wells are needed at this time.

3. The pond design for a 100 year storm is acceptable. As discussed, the pond should be emptied at least once a year.

4. The treatment system being installed seems to be one that has not been approved or permitted. FDER permitted a treatment facility (extended aeration) in March of 1990, but it is not the one mentioned in our conversation (ozonization) and if built without a permit, maybe subject to enforcement.

5. The expansion and treatment facility can be processed as one permit modification which requires a $500 fee.

If you have any questions you may call me at extension 382.

Sincerely,

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

KBF/ab
cc: Garry Breeden, Sumter County
Sandra Tippin, DER Tampa

Recycled Paper

BLACK & VEATCH
ENGINEERS — ARCHITECTS

TEL. (813) 281-0032

2701 NORTH ROCKY POINT DR., SUITE 960
TAMPA, FLORIDA 33607-5924
FAX: (813) 281-0881

D.E.R.
DEC 11 1990
SOUTHWEST DISTRICT
TAMPA

Amerecycle, Inc.
Sumter County, Florida
Compost Facility Site Improvements

B&V Project 17239.201
B&V File F
December 10, 1990

Mr. Kim Ford
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610

Subject: Sumter County Landfill
GMS ID No. 4060C00092
Permit No. SF60-146475

Dear Mr. Ford:

As we discussed during our recent telephone conversation, additional compost material storage area is required at the Sumter County Landfill. Amerecycle, The American Recycling Company, Inc., who operates the landfill, has obtained our services to complete drawings and specifications for the site improvements to furnish the additional pad space.

Attached are our preliminary drawings and specifications for the improvements. Development of the documents raised several questions regarding current regulations governing the improvements. The following is a list of questions we would appreciate your comments on. Upon receipt of information from you, we will complete the drawings and request a permit modification.

1. Does the leachate collection pond require double lining, and is a 40 mil liner acceptable?

2. Is a well monitoring system required?

3. The collection pond is sized for a 100 year return storm. Is this adequate?

4. Amerecycle is currently installing a treatment system for collected leachate. Is a separate permit required for the treatment system and is there a required capacity for the system?

BEST AVAILABLE COPY

Mr. Kim Ford

B&V Project 17239.201
December 10, 1990

5. We want to proceed with the site improvements on the basis of a modification to the existing landfill permit. Can we request the modification by letter with attached drawings, specifications, and application fee?

As we discussed, the outlined improvements need to be in place as quickly as possible, and review of this submittal at your earliest convenience would be greatly appreciated.

If you have any questions or require additional information, please feel free to call our office at any time.

Very truly yours,

BLACK & VEATCH

Gregory L. Perrine, P.E.

kh/C6/030.51

cc: Ric Gray

D.E.R.
DEC 1
SOUTH

Springstead Engineering, inc.

Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

TO Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

DATE 8/30/90 JOB NO. C-103

ATTENTION Mr. Ernie Weeks

RE Sumter County Landfill

GENTLEMEN:

WE ARE SENDING YOU ☒ **Attached** ☐ under separate cover via _____ **the following items:**

☐ **Shop drawings** ☐ **Prints** ☐ **Plans** ☐ **Samples** ☐ **Specifications** ☐ **Facsimile**

☐ **Copy of letter** ☐ **Change order** ☐ _____

Copies	Date	No.	Description
2	10/88		ENVIROLAB Environmental Laboratory Services, Sumter County Landfill Quality Assurance Project Plan, Landfill Compost Analyses

D. E. R.

AUG 3 1 1990

SOUTHWEST DISTRICT
TAMPA

THESE ARE TRANSMITTED as checked below:

☐ **For approval** ☐ **Approved as submitted** ☐ **Approved for payment**

☒ **For your use** ☐ **Approved as noted** ☐ **Resubmit** _____ **copies for approval**

☐ **As requested** ☐ **Returned for corrections**

☐ **For review and comment** ☐ _____

☐ **Material and/or prints returned after loan to us**

REMARKS

COPY TO

SIGNED: _____
Lyle R. Powell, Project Manager

db

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

CONVERSATION RECORD

Date 7/3/90 Subject SUMTER Compost

Time 9:50 Permit No. SC60-132071

County

M S FRANCINE JOYAL Telephone No. (904) 922-6104

Representing DER TALLAHASSEE

[ ] Phoned Me [X] Was Called [ ] Scheduled Meeting [ ] Unscheduled Meeting

Other Individuals Involved in Conversation/Meeting

Summary of Conversation/Meeting

FRANCINE SAID THAT BASED ON THE INFORMATION SUBMITTED WITH THE JUNE 25th LETTER BY SPARLING-STEAD ENGINEERING, TEST RESULTS VERIFY SUMTER COMPOST IS TYPE A COMPOST AND CAN BE USED ACCORDING TO FAC RULE 17-709.600(1)

(continue on another sheet, if necessary)

Signature (K Izz)

Title

TPA-01
09/78
/jdj

APPLICATION TRACKING SYSTEM 07/08/91

APPL NO:196012
APPL RECVD:04/22/91 TYPE CODE:SC SUBCODE:11 LAST UPDATE:07/05/91
DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:05/28/91
DER PROCESSOR:FORD
APPL STATUS:IS DATE:06/28/91 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)
RELIEF:__ (SSAC/EXEMPTIONS/VARIANCE)
(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:60
(Y/N) N OGC HEARING REQUESTED LAT/LONG:28.44.30/82.05.20
(Y/N) Y PUBLIC NOTICE REQD? BASIN-SEGMENT:__.___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? _ (I/ISSUE D/DENY) ALT#:___-_____

PROJECT SOURCE NAME:SUMTER CTY VOL. RED. AND LANDFILL
STREET:C.R. 470 CITY:NA
STATE:FL ZIP:_____ PHONE:___-___-____
APPLICATION NAME:AMERECYCLE
STREET:P.O. BOX 338 CITY:SUMTERVILLE
STATE:FL ZIP:33585 PHONE:904-568-1100
AGENT NAME:BLACK & VEATCH
STREET:2701 N. ROCKY PT.DR.#960 CITY:TAMPA
STATE:FL ZIP:33607 PHONE:___-___-____
FEE #1 DATE PAID:04/22/91 AMOUNT PAID:00500 RECEIPT NUMBER:00174059

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - __/__/__
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - - - __/__/__--__/__/__
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. -. __/__/__
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - 05/02/91--05/28/91
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - __/__/__--__/__/__
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - __/__/__--__/__/__
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - __/__/__--__/__/__
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - __/__/__--__/__/__
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - - __/__/__--__/__/__
F DATE LAST 45 DAY LETTER WAS SENT - - - - - - - - - - - __/__/__
G DATE FIELD REPORT WAS REQ--REC - - - - - - - - - - - - __/__/__--__/__/__
H DATE DNR REVIEW WAS COMPLETED - - - - - - - - - - - - __/__/__

I DATE APPLICATION WAS COMPLETE - - - - - - - - - - - - 05/28/91
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - __/__/__
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - - 06/05/91--06/09/91
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - - - - - - 06/05/91
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - 06/19/91
N WAIVER DATE BEGIN--END (DAY 90) - - - - - - - - - - - - __/__/__--__/__/__

COMMENTS:THIS PERMIT NUMBER NOT USED. PERMIT NUMBER SC60-132071 MODIFIED TO INCLUDE THIS WORK.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

174059

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Amerecycle Date 4/22/91

Address PO Box 333 Sumterville Dollars $ 500.00

05 28 91

Applicant Name & Address ~~Amerecycle~~ 91

Source of Revenue IS Sumter Co. Landfill

Revenue Code 1055 Application Number SC60-196012

y

dc 1992

By Alvina Bug

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION 174059

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Amerecycle Date 4/22/91

Address PO Box 338 Sumterville Dollars $ 500.00

Applicant Name & Address same

Source of Revenue Sumter Co. Landfill

Revenue Code 1055 Application Number 060 - 196012

ck 1992

By Alvina Krug

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Rick Garrity

THROUGH: Clarke Polk VSA for CRP 6/14 CP, Administrator _____ Program
6/27/91 Kim Ford, PE 6/27/91, Div. Supervisor _____ County
_____, Sec. Supervisor _____ Penalty
_____, Eng/Investigator

FILE NAME: Sumter Compressor LOCATION: Sumter County CR 470

4/22/91 Application Received
5/2/91 1st Completeness/N.O.D.
_____ 2nd Completeness/N.O.D.
_____ 3rd Completeness/N.O.D.
5/28/91 Notice of Completionness
6/5/91 Intent/Draft Permit
6/13/91 Public Notice

_____ Waiver
_____ Petition Date
_____ Hearing Date
_____ Recommended Order
_____ Final Order
_____ Permit Issued

Published 6/13/91
14 days up on 6/27/91
No petitions as of 6/27/91

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Rick Garrity

THRU: Clabe Polk CRP

FROM: Kim Ford, P.E. KBF 5/31/91

DATE: May 31,1991

SUBJECT: Solid Waste Permit Modification for
Sumter County Composting
SC60-132071, Sumter County

This permit modification allows the expansion of the existing solid waste composting facility, referred to as the Sumter County Solid Waste Composting Facility, for shredding refuse and composting, near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

The facility will be expanded by an additional 2.5 acres of paved composting areas with leachate holding ponds and treatment.

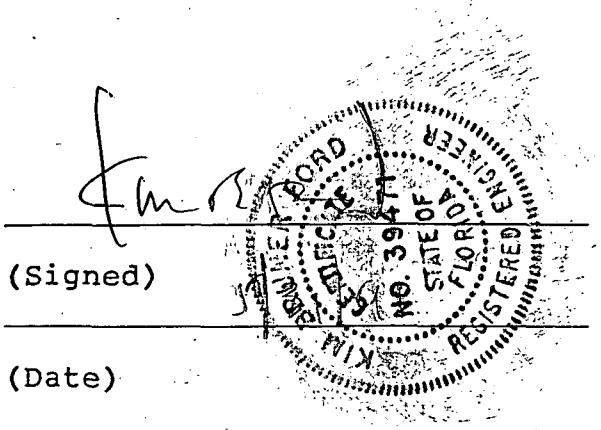
I recommend this permit modification based on a review of related correspondence and site inspection.

KBF/ab
Attachment

CERTIFICATION

Application No. SC60-132071 MODIFICATION

I HEREBY CERTIFY that the engineering features described in the above referenced application (provide / ~~do not provide~~) reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 17. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical and structural features).



(Signed)

(Date)

(Seal)

Board of County Commissioners
Sumter County, Florida
209 N. Florida Street - Bushnell, Florida 33513

Office Telephone (904) 793-0200
FAX (904) 793-0207

D.E.P.

JUN 19 1991

SOUTHWEST DISTRICT
TAMPA

June 17, 1991

Mr. Richard D. Garrity
State of Florida
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Fl 33610-7347

Dear Sir:

Enclosed please find a copy of the notice of proposed agency action on permit application, Bushnell, Sumter County, Florida.

Your cooperation in this matter is appreciated.

Very truly yours,

BOARD OF SUMTER COUNTY COMMISSIONERS

BERNARD R. SHELNUTT, JR.
CLERK & AUDITOR

By Joan Kirkpatrick
DEPUTY CLERK

Enclosure

STANTON GIDEONS, JR., Chairman
District 5, Phone (904) 793-2957
P.O. Box 615, Webster, Florida 33597

TOM DIXON, Vice Chairman
District 1, Phone (904) 748-4782
Rt. 2, Box 143-A, Wildwood, Florida 34785

JIM ALLEN
District 2, Phone (904) 793-6863
Rt. 3, Box 233F, Bushnell, Florida 33513

FRAN CARSTAIRS PALOMEQUE
District 3, Phone (904) 748-4582
700 Caroline Circle, Wildwood, Florida 34785

JOHN L. STEPHENS
District 4, Phone (904) 793-2851
423 W. Dade Avenue, Bushnell, Florida 33513

BERNARD R. SHELNUTT, JR. - Clerk
Phone (904) 793-0215
209 N. Florida Street, Bushnell, Florida 33513

RANDALL N. THORNTON - Attorney
Phone (904) 793-4040
P.O. Box 58, Lake Panasoffkee, Florida 33538

BERNARD DEW - County Administrator
Phone (904) 793-0200
209 N. Florida Street, Bushnell, Florida 33513

MEETINGS: EACH TUESDAY 9:00 A.M.

Proof of Publication

from the
SUMTER COUNTY TIMES
Bushnell, Sumter County, Florida
PUBLISHED WEEKLY

STATE OF FLORIDA
COUNTY OF SUMTER

Before the undersigned authority personally appeared ROBERT REICHMAN

of the Sumter County Times, a newspaper published weekly on Thursday at Bushnell in Sumter County, Florida; that the attached copy of advertisement being a public notice in the matter of NOTICE OF PROPOSED ACTION ON PERMIT

Court, was published in said newspaper in the issues of JUNE 13, 1991 622-0613

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

Sworn to and subscribed before me this 13th day of JUNE A.D. 19 91

(SEAL) Notary Public

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
REGULATION

NOTICE OF PROPOSED AGENCY ACTION ON PERMIT APPLICATION

The Department gives notice of its intent to issue a permit modification to Mr. Garry Breeden, Director, Sumter County Public Works, to expand the existing solid waste composting facility, referred to as the Sumter County Solid Waste Composting Facility, for shredding refuse and composting, near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this Notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 17-103.155, F.A.C.

The application 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 4520 Oak Fair Boulevard, Tampa, Florida 33610-7347.

Published one time: June 13, 1991.

D. E. R.

JUN 19 1991

SOUTHWEST DISTRICT
TAMPA

BLACK & VEATCH
ENGINEERS — ARCHITECTS

TEL. (813) 281-0032

2701 NORTH ROCKY POINT DR., SUITE 960
TAMPA, FLORIDA 33607-5924
FAX: (813) 281-0881

Amerecycle
Composting Facility
Site Improvements

B&V Project 17239.200
B&V File F
June 7, 1991

Mr. Ric B. Gray
Vice President
System Design and Operations
Amerecycle
P.O. Box 338
Sumterville, Florida 33585

D. E. R.

JUN 10 1991

SOUTHWEST DISTRICT
TAMPA

Subject: FDER Permit

Dear Ric:

Transmitted herewith is an executed copy of the Florida Department of Environmental Regulation (FDER) Intent To Issue a permit (Intent) for the Site Improvements project. The enclosure is not the construction permit.

To obtain the permit, Sumter County is required to publish the Notice of Proposed Agency Action on Permit Application (Notice) within the guidelines specified in the enclosure. The Notice is an attachment to the enclosed documentation.

FDER guidelines require the Notice be published one time in a local newspaper by July 6, 1991 (within 30 days of receipt of the enclosed Intent). A certificate of publication must then be submitted to FDER within seven days of publication of the Notice. Please copy our office with the letter transmitting the certificate of publication to FDER.

As we discussed during our telephone conversation, the project is comprised of two components: the design work completed by our firm (compost pads, leachate collection ponds, and access roads) and the Ozone Fresh Treatment System proposed by Amerecycle. The FDER permit modification (Specific Condition #41) encompasses both of the components. However, FDER does recognize the separation of responsibilities and has divided Specific Condition #41 into two separate comments. As per our discussion, this same division will continue through construction, certification, and any following phases.

Mr. Ric B. Gray

B&V Project 17239.200
June 7, 1991

One final item, I called David Sua, SWFWMD, and he informed me that the stormwater management permit will be forthcoming next week. If you have any questions, please give me a call.

Very truly yours,

BLACK & VEATCH

/s/

Gregory L. Perrine, P.E.

kh/C13/005.51
Enclosures

cc: Garry Breeden
Kim Ford

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of an
Application for Permit by

DER File No. SC60-132071

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

JUN - 5 1991

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its Intent to Issue a permit modification (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated below.

The applicant, Mr. Gregory Perrine, P.E., on behalf of Mr. Garry Breeden, Director, Sumter County Public Works, applied on April 22, 1991, to the Department of Environmental Regulation for a permit to expand the existing solid waste composting facility, referred to as the Sumter County Solid Waste Composting Facility, subject to the specific conditions attached, for shredding refuse and composting, near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

The Department has permitting jurisdiction under 403.707 and 403.861, Florida Statutes, and Rules 17-4 and 17-701, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a permit modification is required for the proposed work.

The Department intends to issue this permit modification based on its belief that reasonable assurances have been provided to indicate that the proposed project will not adversely impact water quality and the proposed project will comply with the appropriate provisions of Chapters 17-3, 17-4, 17-25 and 17-701, subject to the specific conditions attached in the permit.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit application. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

The Department will issue the permit with the attached conditions unless petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirements of Florida Administrative Code Rule 17-103.155 (copy enclosed) and be filed with (received by)

the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Attachment

cc: John Reese, DER, Tallahassee
Doug Beason, OGC, Tallahassee
Francine Joyal, DER Tallahassee
Jim Pickering, Amerecycle
Gregory Perrine, P.E., Black and Veatch
Steve Morgan, DER Tampa
Elected Officials Notification List

CERTIFICATE OF SERVICE

The undersigned duly designated deputy Clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on JUN - 5 1991 to the listed persons.

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

Anna Black
Clerk

JUN - 5 1991
Date

P 149 935 294

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Garry Breedon	
Street and No. Suwannee County Public Works	
P.O., State and ZIP Code	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 6-5-91	

PS Form 3800, June 1985

P 149 935 295

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Gregory Perrine, P.E.	
Street and No. Black & Veatch	
P.O., State and ZIP Code 2701 N. Rocky Point Dr	
Postage # 960	$
Certified Fee TPA FL 33607	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 6-5-91	

PS Form 3800, June 1985

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Garry Breeden, Dir.
Sumter County Public Works
222 East McCollum Ave
Bushnell, FL 33513 D.E.R.

4. Article Number

P 149 935 294

Type of Service:

- ☐ Registered
- ☐ Insured
- ☒ Certified
- ☐ COD
- ☐ Express Mail
- ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee

X Joyce J. Connell

6. Signature – Agent

X

7. Date of Delivery

6-6-91

JUN - 7 1991

SOUTHWEST DISTRICT
TAMPA

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form **3811**, Apr. 1989 ★U.S.G.P.O. 1989-238-815 **DOMESTIC RETURN RECEIPT**

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

TAMPA, FL 336 PM JUN 91

SENDER INSTRUCTIONS

Print your name, address and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

U.S.MAIL

PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
4520 OAK FAIR BLVD.
TAMPA, FL 33610-9544

Kim Ford

State of Florida
Department of Environmental Regulation
Notice of Proposed Agency Action on Permit Application

The Department gives notice of its intent to issue a permit modification to Mr. Garry Breeden, Director, Sumter County Public Works, to expand the existing solid waste composting facility, referred to as the Sumter County Solid Waste Composting Facility, for shredding refuse and composting, near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action, or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) a Statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 17-103.155, F.A.C.

The application 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 4520 Oak Fair Boulevard, Tampa, Florida 33610-7347.

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

28-5.201 Initiation of Formal Proceedings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Section 17-103.155, Florida Administrative Code
Rules of Administrative Procedure
Final Agency Action (Non-Rulemaking) and Appeal

17-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action by the Department may file a petition for formal administrative hearing in accordance with this rule if the person disputes the material facts upon which the Department's action is based.

(b) Any person whose substantial interests may be affected by proposed or final action by the Department may file a petition for informal administrative hearing in accordance with this rule if the person objects to the Department's action but does not dispute the material facts upon which the Department's action is based.

(2) A petition for formal or informal administrative hearing pursuant to Section 120.57, F.S., shall contain the following information:

(a) The name, address, and telephone number of each petitioner. If the petitioner challenges a Department action or proposed action on a permit application, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed shall also be included;

(b) A statement of how and when each petitioner received notices of the Department action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of those material facts (i.e., those facts upon which the Department's action or proposal is based) is disputed by petitioner. If no facts are disputed, petitioner shall so state;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action;

(g) A statement of relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

(3)(a) A petition shall be in the form required by this rule and must be filed (received) in the Office of General Counsel of the Department within the following number of days after receipt or publication (whichever occurs first) of notice of proposed agency action or of notice of agency action:

1. Petitions concerning Department action or proposed action on applications for permits (except permits for hazardous waste facilities): 14 days;

2. Petitions concerning Department action or proposed action on applications for hazardous waste facility permits: 45 days;

3. Petitions concerning notices of violation when no informal conference is held: 20 days after receipt of the notice of violation;

4. Petitions concerning notices of violation when an informal conference is held: 10 days after receipt of notice of completion of the informal conference;

5. Petitions concerning other Department actions or proposed actions: 21 days. The petitioner shall also serve a copy of the petition on all other parties to the proceeding, as identified in the published notice, at the time of filing.

(b) Failure to timely file a petition within the applicable time period after receipt of notice of agency action or receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver if any right to request an administrative proceeding under Chapter 120, F.S.

(4) If a petition is filed that does not substantially comply with the requirements of subsection (2) of this rule, the Department shall issue an order dismissing the petition with leave to file an amended petition complying with the requirements of this rule within 15 days of service of the order. If an amended petition complying with this rule is not filed (received) within 15 days of service of the order, the petitioner's right to a proceeding under Section 120.57, F.S., is waived.

(5) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 17-103.150, F.A.C., a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inquiry within 14 days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 17-103.150, F.A.C. Failure of the person to make inquiry with the Department within 14 days after obtaining such knowledge may stop the person from obtaining an administrative proceeding on the agency action.

(6)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(7) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal shall be limited to:

(a) the application and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit;

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

(8) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.

(9) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by the applicant of the Department's notification pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S.
Law Implemented: 120.53, F.S.
History: New 9-20-79; Amended 4-28-81; Transferred from 17-1.62 and Amended 6-1-84; Amended 10-19-88.

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor 813-623-5561 Carol M. Browner, Secretary

DRAFT

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

Re: Modification of Conditions
Permit No. SC60-132071, Sumter County
Sumter County Composting and Leachate Treatment

Dear Mr. Breeden:

We are in receipt of your request for a modification of the permit condition. The conditions are changed as follows:

CONDITION	FROM	TO
Specific Condition #41.	Existing	Revised, as follows

41. This permit is valid for expansion of the existing solid waste composting facility in accordance with the April 19, 1991 plans and information submitted by Black and Veatch on April 22, 1991, and revised specifications by Black and Veatch submitted on May 8, 1991. Also, this permit is valid for implementation of the leachate removal and treatment system by ozonation in accordance with reports and information by Ozone Fresh and Amerecycle submitted on May 24, 1991 and in accordance with all applicable requirements of Department rules.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

RDG/kbfb

Recycled Paper

Department of Environmental Regulation

Routing and Transmittal Slip

To: (Name, Office, Location)

1. Kim Ford
2.
3.
4.

Remarks:

You may want to ask them whether they can confirm the presence of dioxin. The amount reported <10 ng/l is very high. Normally, the detection limit is 0.002 ng/l.

From: Jay Thakrar

Date 6/06

Phone

THE AMERICAN RECYCLING COMPANY, INC.

County Road 529 • P.O. Box 338 • Sumterville, Florida 33585 • (904) 568-1100 • 1-800-THE-ARC-1 • FAX (904) 568-1103

Recycled Paper–Use It!

May 31, 1991

D. E. R.

JUN - 4 1991

SOUTHWEST DISTRICT
TAMPA

Kim Ford
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

Dear Kim;

Per your request of May 2nd, enclosed is a copy of the Notice of Application which was published 5/23/91 in the Sumter County Times. This Proof of Publication, per FAC section 17-701-030(6) should be the final step in getting the modification of our Sumter County landfill permit for our compost pads, leachate ponds and leachate treatment system.

Please advise us of any questions on what we've submitted and we look forward to your approval so we can begin construction.

Sincerely,

Ric Gray
Vice President

cc: Garry Breeden

encl.

ERG/tgt

Legal Notice

SCT-678-0513
PUBLIC NOTICE
IN THE CIRCUIT COURT FOR
SUMTER COUNTY, FLORIDA
CASE NO. 91-288-CA
JENO F. PAULUCCI, Plaintiff
vs
RAYMOND A. KOMAR, Defendant.

NOTICE OF ACTION

TO: RAYMOND A. KOMAR, 3979 Cape Haze Drive, #8, Rotonda, Florida 33947.

YOU ARE NOTIFIED that an action to foreclose a mortgage on the following property in Sumter County, Florida:

The SE ¼ of the NE ¼ of the SW ¼ of Section 20, Township 21 South, Range 22 East, LESS the West 20.00 feet thereof, Sumter County, Florida.

has been filed against you and you are required to serve a copy of your written defenses, if any, to wit on RANDALL N. THORNTON, ATTORNEY AT LAW for plaintiffs, whose address is Post Office Box 58, Lake Panasoffkee, Florida 33538, on or before June 20, 1991, and file the original with the clerk of this court either before service on plaintiff's attorney or immediately thereafter otherwise a default will be entered against you for the relief demanded in the Complaint.

WITNESS my hand and the seal of this court on May 16, 1991.

(Seal)
BERNARD R. SHELNUTT, JR.
Clerk of the Circuit Court
s- Tracy L. Tucker
Deputy Clerk

Published four times: May 23, 30, June 6 and 13, 1991.

SCT-679-0523
PUBLIC NOTICE
NOTICE OF ELECTION

The Farmers Home Administration (FmHA) county committee election this year will be held on June 24, 1991. The ballot below must be filled out, detached and mailed and received or returned in person to Farmers Home Administration, 507 N. Market St., P.O. Box 217, Bushnell, FL 33513 not later than June 24, 1991. If you do not vote in person you should mail your ballot inside a blank envelope marked ballot to ensure a secret ballot. This blank envelope should be placed inside the envelope you use to mail your ballot.

10:30 a.m., for the purpose of issuing a Rule to Show Cause why the described property should not be forfeited to the use of or sold by the Wildwood Police Department and the City of Wildwood, upon producing due proof that same was used in violation of Florida Laws dealing with contraband and other crimal offenses, all pursuant to Section 932.701-704, Florida Statutes (1987).

A copy of said Petition is on file in the Clerk's office and is available for examination during regular business hours.

s- Jerry T. Lockett
Lockett & Blair, P.A.
351 West Alfred Street
Post Office Box 130
Tavares, Florida 32778
Phone: (904) 343-3755
Florida Bar Number 123901
Wildwood Police Department
100 E. Huey Street
Wildwood, Florida 34785

Published two times: May 23 and 30, 1991.

SCT-686-0530
PUBLIC NOTICE

The Planning Commission of the City of Webstger, Florida, will hold a public hearing on the 3rd day of June, 1991, at 7:00 o'clock P.M., in the City Hall in Webster, Florida, to consider and act upon the following:

APPLICANT: Annie Brown

TYPE APPLICATION: A variance to allow two residences on one lot and less rear setback.

LEGAL DESCRIPTION: Sec. 36, Twp 21S, Rge. 22E

Begin 324 ft. South and 83.5 ft. East of NW corner of SE ¼ of NE ¼, run East 63.25 ft., South 130 ft., West 63.25 ft., North 130 to POB.

Any person who decides to appeal any decision of said Board with respect to any matter considered at said meeting will need a record of the proceedings and for such purpose may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based.

s-GRACE CROFT
City Clerk
City of Webster, Florida

Published two (2) times in the Sumter County Times:
May 23 and 30, 1991.

A-5 to RR-5 on 5 acres.

CASE NO.
2-91-6
Randall & Rebecca Thornton
LEGAL DESCRIPTION

Sec. 30, Twp. 19S, Rge. 22E: From the SE cor of Gov't Lot 6 run N 1570.24' N 1757.56' E 180' to POB; N 300' MOL to waters of Lake Panasoffkee Outlet and a point hereby designated as Point A, return to POB run E 117.16' N 300' MOL to waters of Lake Panasoffkee Outlet W/ly along and with said waters to intersect with Point A & from SE cor of Gov't Lot 6 run W 1570.24' N 1757.56' E 195.41' to POB; S 15.97' E 49.20' N 16.97' W 49.21' to POB, together with an easement OR 415 Pg. 49 & 50.

GENERAL LOCATION
LAKE PANASOFFKEE: W/ly on C-470. Turn right on CR 419 follow road to the end to the property.

PRESENT AND REQUESTED CLASSIFICATION
A-5 to R-1 on .8 acre.

CASE NO.
1-91-6
LEGAL DESCRIPTION

Sec. 3, Twp. 22S, Rge. 23E: SW 1/4 of NW 1/4 less N 1/2 of NE 1/4 of SW 1/4 of NW 1/4 & W 1/2 of SW 1/4. TO BE REZONED: Sec. 3, Twp. 22S, Rge. 23E: Beg at the SW cor of sec 3, run N 330' E 660' S 330' W 660' to POB; and beg at the SW cor of sec.3 run N 1200' for POB; cont. N 330' E 660' S 330' W 660' to POB.

GENERAL LOCATION
WBSTER: East on C-48. South on SR 471. East on C-478. South on CR 707. Go approximately 3/4 miles to the property on the right.

PRESENT AND REQUESTED CLASSIFICATION
A-5 to RR-5 on 10 acres.

CASE NO.
4-91-6
Bonnie Mims
LEGAL DESCRIPTION

Sec. 3, Twp. 21S, Rge. 21E: S 716.87' of the E 900' of the NE 1/4 of SW 1/4 & that portion of the NE 1/4 of the SW 1/4 lying N & E of SR 48 less the N 210' thereof. TO BE REZONED: Sec. 3, Twp. 21S, Rge.21E: The N 275' of the S 716.87' of the E 900' of the NE 1/4 of SW 1/4

GENERAL LOCATION

Courthouse, Bushnell, Florida.

APPEAL: NECESSITY OF RECORD In order to appeal the Board's decision in this matter, a verbatim record of the proceedings is required. The Board assumes no responsibility for furnishing said record.

As time allows, the Planning and Zoning Commission, sitting as the Local Planning Agency will hold a workshop dealing with revisions to zoning regulations and related matters.

Sumter County Planning and Zoning Department

Published two (2) times in the Sumter County Times:
May 16, and May 23, 1991

SCT-668-0523
PUBLIC NOTICE

Notice is hereby given that the City of Wildwood will hold a Public Hearing during its regular meeting May 28, 1991 at 7:30 p.m., and have the third, final reading of Ordinance No. 233, An Ordinance of the City Commission of the City of Wildwood to amend Sections 1, 3, and 13 of Ordinance NO. 212, and to establish a policy and set fees for Utility Services to Consumers.

Ordinance No. 233, is available at City Hall for public inspection between the hours of 8:00a.m. and 5:00p.m., Monday through Friday. Comments may be voiced at the above mentioned meeting or in writing, addressed to the City Clerk, 100 N. Main Street, Wildwood, Florida 34785.

Be advised that any person wishing to appeal any decision made by this Commission on any matter considered during this meeting will need a record of the proceedings, and may need to insure that a verbatim record is made, which includes the testimony and evidence upon which the appeal is to be based.

s-Jospeh Jacobs
City Clerk

Published two (2) times in the Sumter County Times:
May 16 and 23, 1991.

SCT-670-0606
PUBLIC NOTICE
IN THE CIRCUIT COURT OF THE
FIFTH JUDICIAL CIRCUIT IN AND
FOR SUMTER COUNTY, FLORIDA
CASE NO. 91-278-CA

PURSUANT TO
FLORIDA STATURES 236.31

Sealed bids will be received by the Sumter County School Board, 202 N. Florida Street, Bushnell, Florida 33513, until 2:00 P.M. (prevailing time) on May 30, 1991 at which time all bids will be publicly opened for furnishing all labor and material and performing all work necessary and incidental to Geotechnical Survey for the Webster Elementary and the North Sumter Intermediate School Media Centers. Each bid must be accompanied by a sworn statement on public entity crimes as required under Section 287.017 (3) (a) Florida Statutes.

Specifications may be obtained by contacting Jim Allen, Sumter County School Board, 202 N. Florida St., Bushnell, Florida, 33513 (904) 793-2315.

Published one (1) time in the Sumter County Times:
May 23, 1991.

SCT-683-0523
PUBLIC NOTICE
State of Florida
Department of
Environmental Regulation
Notice of Application

The Department announces receipt of a request for a permit modification to construct additional solid waste composting areas and leachate holding ponds at the existing Sumter County Landfill and Composting site, subject to all requirements of Department rules, located near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

This applications 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.

By:-s-Garry Breeden
Director of Public Works
Published one (1) time in the Sumter County Times:
May 23, 1991.

WASTED YOUTH

Proof of Publication

from the
SUMTER COUNTY TIMES
Bushnell, Sumter County, Florida
PUBLISHED WEEKLY

D. E. R.

MAY 28 1991

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
COUNTY OF SUMTER

Before the undersigned authority personally appeared ROBERT REICHMAN

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

NOT APP PER MOD CONSTR SOLID WASTE

Court, was published in said newspaper in the issues of MAY 23, 1991

683-0523

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

SCT-683-0523
PUBLIC NOTICE
State of Florida
Department of
Environmental Regulation
Notice of Application

The Department announces receipt of a request for a permit modification to construct additional solid waste composting areas and leachate holding ponds at the existing Sumter County Landfill and Composting site, subject to all requirements of Department rules, located near I-75 and C.R. 470, north of Bushnell, Sumter County, Florida.

This applications 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.

By: s-Garry Breeden
Director of Public Works
Published one (1) time in the Sumter County Times:
May 23, 1991.

NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXP. SEP 12,1992
BONDED THRU GENERAL INS.

Sworn to and subscribed before me this 23rd day of MAY A.D. 19 91

(SEAL) Notary Public Brenda D Acklen

DRDC TREATMENT

JAY

SUMTER COUNTY LEACHATE TREATMENT

I THINK THEN WILL CALL YOU. ONE OF THEIR QUESTIONS IS CAN THE EFFLUENT BE USED FOR IRRIGATION? WHY PINE POINTE MAY BE REQUIRED

thx

KM 5/28

ENVIROLAB, INC.

P.O. Box 607
Ormond Beach, Florida 32175
(904) 672-5668 • FAX (904) 673-8264

Drinking Water Certification
HRS #83160

Desc

Samp

Refe
I:

Samp

000

/PO Number:

rted Date : 05/10/91

Client Id	TREATED EFFLUENT
AMPLE NUMBER	0001

PARAMETER		
BIOCHEMICAL OXYGEN DEMAND	MG/L	2
CHEMICAL OXYGEN DEMAND	MG/L	14
CHLORIDE	MG/L	38
FECAL COLIFORM	#/100	< 1
LEAD	MG/L	0.02
NITRATE NITROGEN	MG/L	< 0.50
PH LAB	UNITS	7.2
TOTAL ALKALINITY	MG/L	110
TOTAL DISSOLVED SOLIDS	MG/L	260
TOTAL KJELDAHL NITROGEN	MG/L	1.7
TOTAL NITROGEN	MG/L	1.7
TOTAL ORGANIC CARBON	MG/L	3.8
TOTAL SUSPENDED SOLIDS	MG/L	1.2

APPROVED BY: Michael C. Price
Laboratory Director

ENVIROLAB, INC.
P.O. Box 607
Chimond Beach, Florida 32175
(904) 572-5366 • FAX (904) 573-5264

Environmental Certification
HRS #E83079

Drinking Water Certification
HRS #83180

OZONE FRESH INC.

502 PALM ST. STE. #7
WEST PALM BEACH FL 33401
ATTN: GEORGE HARRS

Description: 1 Sample Received on 05/02/91

Sampled By: CLIENT

Client Job/PO Number:

Reference Number: 919853
Invoice Number: 91-9853

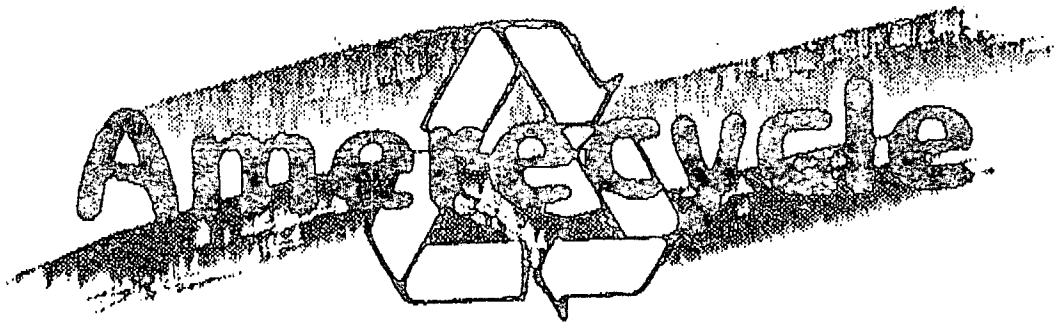
Reported Date : 05/10/91

Sample	Description	Client Id
0001		TREATED EFFLUENT

PARAMETER		SAMPLE NUMBER 0001
BIOCHEMICAL OXYGEN DEMAND	MG/L	2
CHEMICAL OXYGEN DEMAND	MG/L	14
CHLORIDE	MG/L	38
FECAL COLIFORM	#/100	< 1
LEAD	MG/L	0.02
NITRATE NITROGEN	MG/L	< 0.50
PH LAB	UNITS	7.2
TOTAL ALKALINITY	MG/L	110
TOTAL DISSOLVED SOLIDS	MG/L	260
TOTAL KJELDAHL NITROGEN	MG/L	1.7
TOTAL NITROGEN	MG/L	1.7
TOTAL ORGANIC CARBON	MG/L	3.8
TOTAL SUSPENDED SOLIDS	MG/L	1.2

APPROVED BY:

Michael C. Price
Laboratory Director



The American Recycling Company, Inc.
P.O. Box 338
State Rd. 470 & County Rd. 529
Sumterville, Florida 33585
(904) 568-1100

FAX INFORMATION

Date: 5/24/91

TO: KIM FORD

FROM: JIM PICKERING

Notes: ① The treated leachate results — that I didn't include in our letter.
② Ric will call you TUES about Pit Ponds
Thks — Jim

In case of problem's with transmission contact: _____

Number of pages to follow cover sheet: 1

Sender's FAX #: (904) 568-1103

Sender's Phone #: (904) 568-1100

Receiver's FAX #: (813) 272-2279

Department of Environmental Regulation

Routing and Transmittal Slip

To: (Name, Office, Location)

1. Jay T.
2.
3.
4.

Remarks:

I would appreciate your comments on this ozone treatment for leachate

You have my only copy so I'll check with you in about a week

Thanks again for your help

From: Kim

Date: 5/24

Phone: X382

NC.

AX (904) 568-1103

D. E. R.

MAY 24 1991

THWEST DISTRICT
TAMPA

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and increased
er advantages

lorine which in itself needs to be re-treated before discharge.

b. Highly efficient bacterial and viral disinfection.
c. Dependable precipitation of heavy metals.
d. Active microflocculation* of dissolved and suspended solids.
e. Conclusive degradation of all organic substances.
f. Very effective odor control.

* Microflocculation with ozone provides the ability to cause organic and inorganic compounds to coagulate into large groupings so that they will settle, or can be filtered out as inert material.

THE AMERICAN RECYCLING COMPANY, INC.

County Road 529 • P.O. Box 338 • Sumterville, Florida 33585 • (904) 568-1100 • 1-800-THE-ARC-1 • FAX (904) 568-1103

Recycled Paper–Use It!

May 20, 1991

D. E. R.

MAY 24 1991

SOUTHWEST DISTRICT
TAMPA

Kim Ford
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

Ref: Sumter County Permit Modification

Dear Kim;

Your letter of May 2 indicated that there were two remaining items which needed to be addressed in the Sumter County permit modification.

1. Publication: The required Notice of Application will be published on May 23 in the Sumter County Times. Proof of publication per FAC section 17-701.030(6), will be sent to you next week.

2. Leachate Treatment: Ozonation treatment and filter system to treat the Sumter County landfill leachate, prior to discharging this treated water. The vendor will be Ozone Fresh. Attached is an explanation of their system along with recently completed test results and some relevant professional papers that explain their process.

This system will be designed to treat 25 gallons per minute, 1,500 gallons per hour or 36,000 gallons per day. It can be set to operate automatically or on demand. It uses a combination of ozonation, micron filtration, GAC (activated charcoal) and ultraviolet sterilization.

Advantages of Ozone - Ozone, the most powerful oxidizer that can safely be used in water, is receiving wide-spread acceptance in the U.S. and abroad for both drinking water and waste water treatment. The resurgence of ozone has been due to advanced technology, cost savings, and increased attention and demand for environmental improvements. Further advantages over various chemical treatments are:

a. Provides a safe alternative to chemicals, especially chlorine which in itself needs to be re-treated before discharge.
b. Highly efficient bacterial and viral disinfection.
c. Dependable precipitation of heavy metals.
d. Active microflocculation* of dissolved and suspended solids.
e. Conclusive degradation of all organic substances.
f. Very effective odor control.

* Microflocculation with ozone provides the ability to cause organic and inorganic compounds to coagulate into large groupings so that they will settle, or can be filtered out as inert material.

Testing Status

Amerecycle requested that Ozone Fresh utilize Envirolab for its water quality tests on this new system since Envirolab has been the laboratory of choice for Sumter County for some time. The treated leachate tests conducted on May 1, 1991 and the annual analysis taken on April 16, 1991 for raw leachate, are enclosed. They show significant purification results over a wide range of contaminants - coming very close to bottled water standards.

It is Sumter County's intent (as well as Amerecycle's) to follow your testing guidelines as listed on the top of page two (attached) of your letter to Garry Breeden on March 21, 1990. As we discussed during your site visit on May 8, we would like to talk about adjusting some of the testing frequencies defined in your letter after the first month of results are available. As per our discussion, perhaps monthly and quarterly tests on most parameters might be acceptable (see our recommended revised frequencies on the top of your page two).

Test results to date indicate that the ozone system meets all required discharge standards. Please advise us as to the appropriate action or procedure which is needed in order for Sumter County to receive permit approval on this leachate treatment system. As soon as approval is received, we can begin treating and discharging the water in our leachate pond and begin removing and treating all the leachate from Sumter County's lined cell. In our opinion, this can be accomplished within a month after initiating full, active service with the ozone system.

We understand that this water treatment system change will be incorporated into Sumter County's pending permit modifications relating to additional compost pad space and leachate ponds. As proposed, the two new compost pads will be constructed with two separate ozone systems servicing the two new leachate collection lagoons. This will provide a beneficial redundancy in the onsite water treatment system.

Thanks for your assistance.

Sincerely,

Ric Gray
Vice President

cc: Garry Breeden, Sumter County
Greg Perrine, Black & Veatch
George Harrs, Ozone Fresh

ERG/tgt

ENVIROLAB

ENVIROLAB, INC.
P.O. Box 607
Ormond Beach, Florida 32175
(904) 672-5668 • FAX (904) 673-8264

Environmental Certification
HRS #E83079

Drinking Water Certification
HRS #83160

OZONE FRESH INC.

502 PALM ST. STE. #7
WEST PALM BEACH FL 33401
ATTN: GEORGE HARRS

Description: 1 Sample Received on 03/22/91

Sampled By: ENVIROLAB Client Job/PO Number:

Reference Number: 919394 Reported Date : 04/16/91
Invoice Number: 91-9394

Sample	Description	Client Id
0001	SUMTER COUNTY LANDFILL	RAW LEACHATE

PARAMETER		SAMPLE NUMBER 0001
FECAL COLIFORM	#/100	TNTC
FIELD CONDUCTIVITY	UMHOS	1590
PH FIELD	UNITS	9.2
TEMPERATURE	C	30.6
TOTAL CYANIDE	MG/L	< 0.01
TOTAL PHENOLS BY 4AAP	MG/L	0.10

PROFILE: 40 CFR PRI. POL. ORGANICS

1,1,1-TRICHLOROETHANE	UG/L	< 1
1,1,2,2-TETRACHLOROETHANE	UG/L	< 1
1,1,2-TRICHLOROETHANE	UG/L	< 1
1,1-DICHLOROETHANE	UG/L	< 1
1,1-DICHLOROETHENE	UG/L	< 1
1,2,4-TRICHLOROBENZENE	UG/L	< 5
1,2-DICHLOROBENZENE	UG/L	< 1
1,2-DICHLOROETHANE	UG/L	< 1

ENVIROLAB

ENVIROLAB, INC.

P.O. Box 607
Ormond Beach, Florida 32175
(904) 672-5668 • FAX (904) 673-8264

Environmental Certification
HRS #E83079

Drinking Water Certification
HRS #83160

Reference Number: 919394

PARAMETER		SAMPLE NUMBER 0001
1,2-DICHLOROPROPANE	UG/L	< 1
1,2-DIPHENYL HYDRAZINE	UG/L	< 20
1,3-DICHLOROBENZENE	UG/L	< 1
1,4-DICHLOROBENZENE	UG/L	< 1
2,4,6-TRICHLOROPHENOL	UG/L	< 5
2,4-DICHLOROPHENOL	UG/L	< 5
2,4-DIMETHYL PHENOL	UG/L	< 5
2,4-DINITROPHENOL	UG/L	< 5
2,4-DINITROTOLUENE	UG/L	< 5
2,6-DINITROTOLUENE	UG/L	< 5
2-CHLOROETHYLVINYL ETHER	UG/L	< 1
2-CHLORONAPHTHALENE	UG/L	< 5
2-CHLOROPHENOL	UG/L	< 5
2-METHYL-4,6-DINITROPHENOL	UG/L	< 5
2-NITROPHENOL	UG/L	< 5
3,3'-DICHLOROBENZIDINE	UG/L	< 10
4,4'-DDE	UG/L	< 5
4,4'-DDT	UG/L	< 5
4-4'-DDD	UG/L	< 5
4-BROMOPHENYLPHENYLETHER	UG/L	< 5
4-CHLORO-3-METHYLPHENOL	UG/L	< 5
4-CHLOROPHENLYPHENYLETHER	UG/L	< 5
4-NITROPHENOL	UG/L	< 5
A-BHC	UG/L	< 5
ACENAPHTHENE	UG/L	< 5
ACENAPHTHYLENE	UG/L	< 5
ACROLEIN	UG/L	< 100
ACRYLONITRILE	UG/L	< 100
ALDRIN	UG/L	< 5
ANTHRACENE	UG/L	< 5
B-BHC	UG/L	< 5
BENZENE	UG/L	< 1

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Reference Number: 919394 Page: 3

PARAMETER		SAMPLE NUMBER 0001
BENZIDINE	UG/L	< 5
BENZO(A)ANTHRACENE	UG/L	< 5
BENZO(A)PYRENE	UG/L	< 5
BENZO(B)FLUORANTHENE	UG/L	< 5
BENZO(GHI)PERYLENE	UG/L	< 5
BENZO(K)FLUORANTHENE	UG/L	< 5
BIS(2-CHLOROETHOXY)METHANE	UG/L	< 5
BIS(2-CHLOROETHYL)ETHER	UG/L	< 5
BIS(2-CHLOROISOPROPYL)ETHER	UG/L	< 5
BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	< 5
BROMODICHLOROMETHANE	UG/L	< 1
BROMOFORM	UG/L	< 1
BROMOMETHANE	UG/L	< 1
BUTYL BENZYL PHTHALATE	UG/L	< 5
CARBON TETRACHLORIDE	UG/L	< 1
CHLORDANE	UG/L	< 5
CHLOROBENZENE	UG/L	< 1
CHLOROETHANE	UG/L	< 1
CHLOROFORM	UG/L	< 1
CHLOROMETHANE	UG/L	< 1
CHRYSENE	UG/L	< 5
CIS-1,3-DICHLOROPROPENE	UG/L	< 1
D-BHC	UG/L	< 5
DI-N-BUTYL PHTHALATE	UG/L	< 5
DI-N-OCTYL PHTHALATE	UG/L	< 5
DIBENZO(A,H)ANTHRACENE	UG/L	< 5
DIBROMOCHLOROMETHANE	UG/L	< 1
DIELDRIN	UG/L	< 5
DIETHYL PHTHALATE	UG/L	< 5
DIMETHYL PHTHALATE	UG/L	< 5
DIOXIN	UG/L	< 10
ENDOSULFAN I	UG/L	<=5

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HRS #83160

Reference Number: 919394 Page: 4

PARAMETER		SAMPLE NUMBER 0001
ENDOSULFAN II	UG/L	< 5
ENDOSULFAN SULFATE	UG/L	< 5
ENDRIN	UG/L	< 0.05
ENDRIN ALDEHYDE	UG/L	< 5
ETHYLBENZENE	UG/L	< 1
FLUORANTHENE	UG/L	< 5
FLUORENE	UG/L	< 5
G-BHC	UG/L	< 5
HEPTACHLOR	UG/L	< 5
HEPTACHLOR EPOXIDE	UG/L	< 5
HEXACHLOROBENZENE	UG/L	< 5
HEXACHLOROBUTADIENE	UG/L	< 5
HEXACHLOROCYCLOPENTADIENE	UG/L	< 5
HEXACHLOROETHANE	UG/L	< 5
INDENO(1,2,3-CD)PYRENE	UG/L	< 5
ISOPHORONE	UG/L	< 5
METHYLENE CHLORIDE	UG/L	< 1
N-NITROSODI-N-PROPYLAMINE	UG/L	< 5
N-NITROSODIMETHYLAMINE	UG/L	< 5
N-NITROSODIPHENYLAMINE	UG/L	< 5
NAPHTHALENE	UG/L	< 5
NITROBENZENE	UG/L	< 5
PCB 1016	UG/L	< 5
PCB 1221	UG/L	< 5
PCB 1232	UG/L	< 5
PCB 1242	UG/L	< 5
PCB 1248	UG/L	< 5
PCB 1254	UG/L	< 5
PCB 1260	UG/L	< 5
PENTACHLOROPHENOL	UG/L	< 5
PHENANTHRENE	UG/L	< 5
PHENOL	UG/L	< 5

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HRS #83160

Reference Number: 919394 Page: 5

PARAMETER		SAMPLE NUMBER 0001
PYRENE	UG/L	< 5
TETRACHLOROETHENE	UG/L	< 1
TOLUENE	UG/L	< 1
TOXAPHENE	UG/L	< 5
TRANS-1,2-DICHLOROETHENE	UG/L	< 1
TRANS-1,3-DICHLOROPROPENE	UG/L	< 1
TRICHLOROETHENE	UG/L	< 1
VINYL CHLORIDE	UG/L	< 1
PROFILE: PRIORITY POLLUTANT METALS		
ANTIMONY	MG/L	< 0.005
ARSENIC	MG/L	< 0.005
BERYLLIUM	MG/L	< 0.005
CADMIUM	MG/L	< 0.005
CHROMIUM	MG/L	< 0.02
COPPER	MG/L	0.01
LEAD	MG/L	< 0.02
MERCURY	MG/L	< 0.0002
NICKEL	MG/L	0.03
SELENIUM	MG/L	< 0.005
SILVER	MG/L	< 0.01
THALLIUM	MG/L	< 0.005
ZINC	MG/L	0.056
PROFILE: 17.550 PRIMARIES		
2,4,5-TP SILVEX	UG/L	< 8
2,4-D	UG/L	< 4
ARSENIC	MG/L	< 0.005
BARIUM	MG/L	< 0.05
CADMIUM	MG/L	< 0.005

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HRS #83160

Reference Number: 919394 Page: 6

PARAMETER		SAMPLE NUMBER 0001
CHROMIUM.	MG/L	< 0.02
ENDRIN	UG/L	< 0.05
FLUORIDE	MG/L	0.34
LEAD	MG/L	< 0.02
LINDANE	UG/L	< 0.2
MERCURY	MG/L	< 0.0002
METHOXYCHLOR	UG/L	< 5
NITRATE NITROGEN	MG/L	< 0.50
SELENIUM	MG/L	< 0.005
SILVER	MG/L	< 0.01
SODIUM	MG/L	150
TOXAPHENE	UG/L	< 5
TURBIDITY	NTU	52
PROFILE: SECONDARIES		
CALCIUM HARDNESS	MG/L	94
CHLORIDE	MG/L	160
COLOR	PT CO	350
COPPER	MG/L	0.01
CORROSIVITY	UNITS	1.6
IRON	MG/L	0.80
MANGANESE	MG/L	0.50
ODOR	OTN	< 1
PH LAB	UNITS	9.1
SULFATE	MG/L	19
SURFACTANTS	MG/L	0.19
TOTAL ALKALINITY	MG/L	300
TOTAL DISSOLVED SOLIDS	MG/L	800
ZINC	MG/L	0.056

APPROVED BY:

Michael C. Price
Laboratory Director

SC60-132071
Sumter County Composting and Leachate Treatment

SPECIFIC CONDITIONS:

b. treated leachate shall be sampled by grab samples before discharge to the percolation pond system as follows:

Parameter	Unit	Frequency
pH	std. units	~~weekly~~ Monthly
TOC	mg/L	~~monthly~~ quarterly
TDS	mg/L	~~monthly~~ quarterly
BOD_5	mg/L	monthly
COD	mg/L	~~monthly~~ quarterly
TSS	mg/L	monthly
TN (as N)	mg/L	~~monthly~~ quarterly
TKN (as N)	mg/L	~~monthly~~ quarterly
NO_3-N (as N)	mg/L	monthly
Lead	mg/L	~~monthly~~ quarterly
Chlorides	mg/L	~~monthly~~ quarterly
Fecal Coliform	#/100 ml	~~weekly~~ Monthly
Total Alkalinity	mg/L $CaCo_3$	~~weekly~~ Monthly

Based upon the results of the analysis, the Department may require further testing and alternative disposal in order to assure compliance with all Department rules and regulations. The results of the analysis shall be submitted to the Solid Waste Section of the DER Southwest District Office within sixty (60) days following the sampling, along with an evaluation of the results and an assessment of the effectiveness of the leachate treatment and disposal facility design and operation. Within the first sixty (60) days of leachate treatment and disposal activities, the permittee shall submit an adequate standard operating procedures manual to describe daily operations, the complete leachate treatment and disposal process, and equipment. Following the end of the one (1) year for operating and testing, the permittee shall request a modification of the landfill permit to include the operation of the leachate treatment and disposal facility.

43. The goal of the leachate treatment facility shall be to obtain the following concentrations prior to disposal of the treated leachate to the percolation pond system:

Parameter	Concentration	Unit
Flow	-	gpd
pH	6.5 - 8.5	std. units
SS	20	mg/L
BOD_5	20	mg/L
COD	(acceptable BOD_5:COD Ratio)	-
Nitrate as N	12	mg/L
Fecal Coliform	N.D.	#/100 ml

OZONE FRESH

OZONE FRESH LEACHATE TREATMENT SYSTEM

The Ozone Fresh system designed for Amerecycle offers a succesful, cost-efficient, method for treating contaminated leachate water, and preparing it, to meet DER standards, for discharge back into ground water...or for recycling the water for re-use for many purposes.

Utilizing state-of-the-art ozonation and other components, the process applies technology developed by NASA for use in both difficult waste water clean-up situations, and for making high-quality drinking water.

Following many months of adjustment to meet a wide range of pesticides, metals, bacteria, viruses and other contaminants, the Ozone Fresh/ Amerecycle system has undergone independent testing requirements (results are available) to meet current and future DER discharge standards. However, it should be noted that some DER stations vary requirements, and that differing contaminats exists in different areas of the state. Adjustments can be made to accomodate these variations, although it was recognized that the leachate water at Amerecycle was significantly contaminated.

Ozone, now recognized as a great improvement over ...and as a practical alternative to chemicals, the most powerful oxidant man can use in his own environment, yet is far less toxic (and costly) than various out-dated water cleaning methods.

OZONE, produced as it is used (not stored) is a form of oxygen, and exists as a gas, which has a very short life -and after it performs its cleaning task - in air or water- it reverts to air. It is blue in color, has a sweet pungent odor - like the smell in the air after a rain or lighting storm. The chemical formula is 03, a three atom molecule. It is 52 % more powerful than chlorine.

BEST AVAILABLE COPY

How it is employed in the Amerecycle Operation:
(see accompanying diagram)

1. The leachate water is pumped into a (1) 500 gal contact tank from a trash pump (5). When the tank fills, a re-circulating ozone injection loop is automatically activated. Here a heavy ozone treatment occurs, which destroys bacteria, viruses, and flocculates pesticides, metals etc. (accumulates into manageable debris which is filtered out in a continuous process. The ozone is injected by a venturi system, after which it flows to a Harmsco heavy duty 10 micron filter (3).

2. The heavily ozonated water is then transferred back into the contact tanks, and this process continues until the ozone has knocked-down (oxidized) the contaminants. These are continually filtered out. This lowers the TDS (total dissolved solids) to a level suitable for discharged

3. The OzoneFresh system monitors through various controls, the condition of the effluent, and when it is sufficiently clean, solenoid valves open for discharge into a final heavy-duty GAC (activated charcoal) filter (4) and flows to the perk pond. The flow from the leachate pond to the final process is continuous as required. A portion of the water can be diverted for use in other purposes, such as washing down contaminated trucks or floors.

SEVERAL SYSTEMS, OR VARIATIONS, ARE AVAILABLE TO BE TAILORED TO DIFFERNENT LOCALES OR SITUATIONS.

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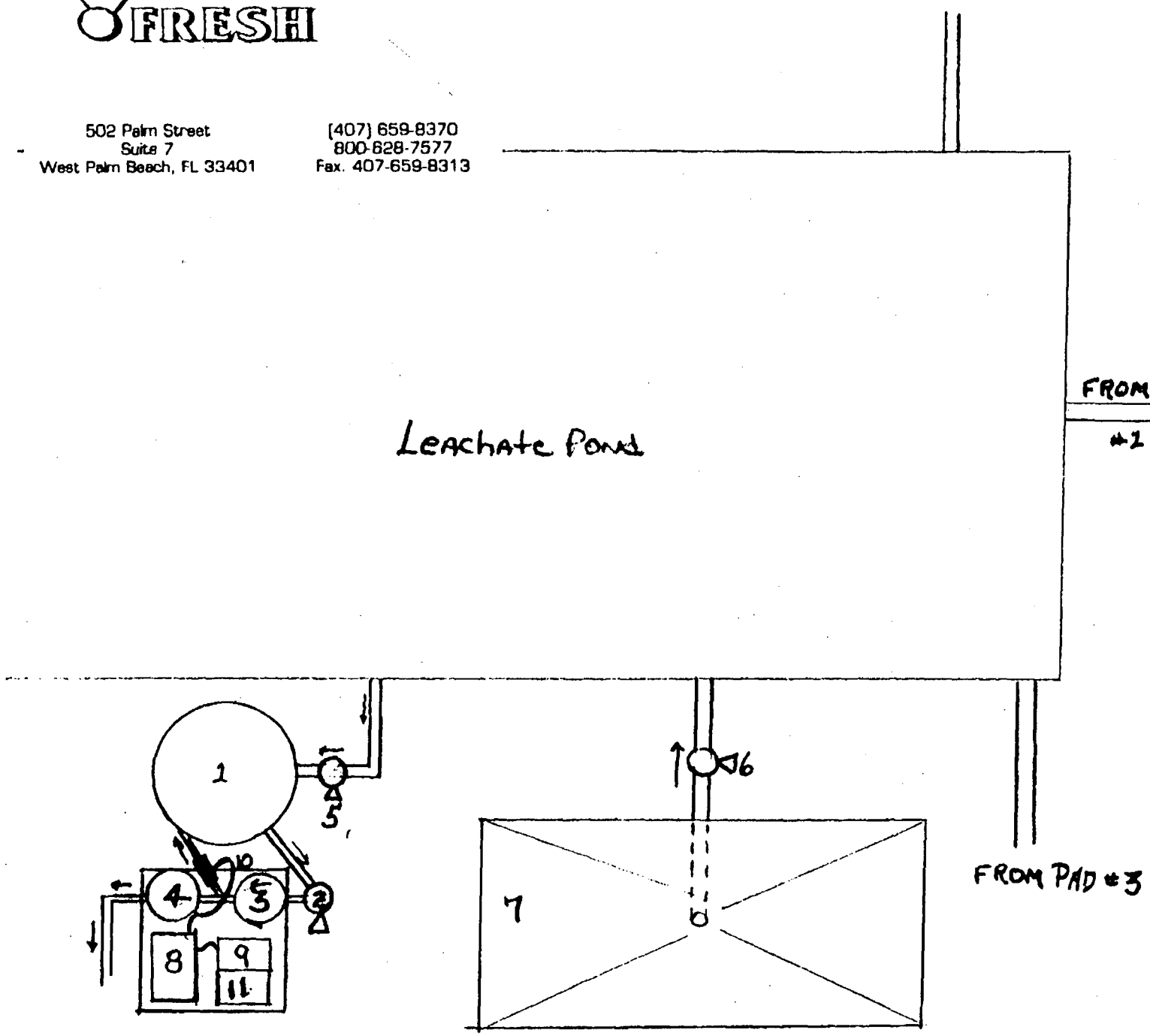
OZONE FRESH

502 Palm Street
Suite 7
West Palm Beach, FL 33401

(407) 659-8370
800-628-7577
Fax. 407-659-8313



1) 500 gal. contact (treatment) tank.
2) 3HP 50gpm High head pump (recirculating).
3) High capicity 10 micron primary filter.
4) Auto backwash heavy duty GAC filter.
5) 2HP 50gpm trash pump.
6) ½HP sump pump (future)
7) Truck wash pad (future)
8) 2lb. day dual quad OzoneFresh ozone generator.
9) 8ltr. min. OzoneFresh oxygen generator.
10) Ozone contactor.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

July 3, 1990

Mr. Paul Bradley, P.E.
Springstead Engineering
727 South 14th Street
Leesburg, Florida 34748

Re: Sumter County's Compost Classification

Dear Mr. Bradley:

Based on the information submitted with your June 25th letter, test results verify that Sumter County's Compost is Type A Compost and can be used according to FAC Rule 17-709.600(1). Congratulations.

Sincerely,

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

KBF/ab

cc: Mr. Garry Breeden, SCPW
Ms. Francine Joyal, DER-Tallahassee

Recycled Paper

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

D. E. R.

JUN 27 1990

SOUTHWEST DISTRICT
TAMPA

June 25, 1990

Mr. Kim Ford, P.E.
State of Florida
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Re: Sumter Compost - Classification
C-103

Dear Mr. Ford:

We are in receipt of your letter dated June 12, 1990 regarding our request for unrestricted distribution of the Sumter Compost produce in accordance with F.A.C. 17-709.600.

We provided all the data you requested in your June 12, 1990 letter submittal except the tons of compost and calculations using the ROM equation. The results obtained using the ROM equation were presented as part of the test results (Sumter County Compost Analysis - #90-6115).

The test results represent 80 tons ± of compost.

A typical computation using the ROM equation and the previously submitted laboratory test results, Column 3, is as follows:

% ROM = [1-(OMK(100-OM)/OM(100-OMK00]100

OM = 83.9 OMK = 23

% ROM = [1-(23(100-83.9)/83.9(100-23))]100 = 94%

I am enclosing a copy of the previously submitted information for your use and again request that the Sumter County compost product be cleared for unrestricted distribution in accordance with F.A.C. 17-709.600.

Please call me at (904)787-1414 if you have any additional questions.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

cc: Mr. Garry Breeden
Mr. Tommy Hurst
Ms. Francine Joyal

(C103L62590)

e. Heavy metal concentrations: Code 1 as per F.A.C. 17-709.550(1)(e)

Parameter	Concentration (mg/mg)	Code
Cadmium	5	1
Copper	250	1
Lead	290	1
Nickel	27	1
Zinc	580	1

Compost Maturity: Mature
F.A.C. 17-709.550(3)(a)

The compost meets the following criteria:

1. Highly stabilized
2. Exposed to long periods of decomposition
3. Will not reheat upon standing to greater than 20° C above ambient temperature
4. Has beneficial use
5. Can be used in direct contact with roots
6. Is brown to black in color
7. Reduction of organic matter is greater than 60%

Compost Type: "A"
F.A.C. 17-709.550(2)(c)

1. Made from solid waste other than only yard trash or manure
2. Compost is fine
3. Compost is mature
4. Foreign matter content is less than 2%

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

June 8, 1990

Mr. Kim Ford, P.E.
Solid Waste Section
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7847

Re: Sumter County Solid Waste Facility
Compost Classification, Use and Disposal
C-103

Dear Mr. Ford,

We have completed testing of one compost pile at the the Sumter County solid waste facility. The compost type is Class "A". The test results are attached.

The compost was classified and the compost type determined as follows:

Classification

Rule: 17-709.550

a.	Type of waste processed:	Solid waste, other than yard trash or manure F.A.C. 17-709.530(1)(a)
b.	Product maturity: Mature	F.A.C. 17-709.550(1)(b) F.A.C. 17-709.550(3)(a)
c.	Foreign matter content:	1.2% F.A.C 17-709.550(1)(c)
d.	Particle size:	Fine - less than 10 mm and organic matter content of 24% F.A.C. 17-709.550(1)(d)

5. Metal concentration falls under Code 1

6. The compost does not contain foreign matter of a shape and size that can cause injury

We respectfully request that the compost product be cleared by Florida Department of Environmental Regulation for unrestricted distribution in accordance with F.A.C. 17-709.600.

Please call me at (904)787-1414 if you have any questions.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

Enclosure

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C103L6890)

ENVIROLAB

SUMTER COUNTY COMPOST ANALYSIS - #90-6115

Parameters	Units	RESULTS				
		1	2	3	4	Aver.
Moisture (TS%)	%	42	43	42	N/A	42
Total Nitrogen	% Dry weight	0.58	0.73	0.61	N/A	0.64
TKN	% Dry weight	0.56	0.71	0.58	N/A	0.62
Nitrate-Nitrite	% Dry weight	0.02	0.02	0.03	N/A	<0.02
Total Phosphorus	% Dry weight	0.11	0.11	0.12	N/A	0.11
Potassium	% Dry weight	0.15	0.15	0.16	N/A	0.15
Cadmium	mg/kg Dry weight	3.1	8.2	3.9	N/A	5
Copper	mg/kg Dry weight	240	240	260	N/A	250
Lead	mg/kg Dry weight	280	300	300	N/A	290
Nickel	mg/kg Dry weight	49	17	14	N/A	27
Zinc	mg/kg Dry weight	580	560	600	N/A	580
Fecal Coliform	MPN/g volatile solids	<87	<77	<87	N/A	<84
pH	Units	7.6	7.7	7.6	N/A	7.6
Organic Matter (compost) (volatile solids)	%	23	26	23	N/A	24
Organic Matter (raw material)(volatile solids)	%	77	85.4	83.9	77.7	81
Reduction of organic matter	%	91	94	94	N/A	93
Foreign Matter	%	0.3	1.2	N/A	N/A	N/A

Date Sampled: 4/9/90

DHRS Certification #E83079

Respectfully Submitted: Robert L Sullivan
Robert L. Sullivan

Envirolab, Inc..
1030 U.S. Highway One, North
P.O. Box 607
Ormond Beach, FL 32175
904/672-5668 • FAX 904/673-8264

FAX

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary Dr. Richard Garrity, Deputy Assistant Secretary

June 12, 1990

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 1
To Paul Bradley	From Tommy Hurst
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Mr. Paul Bradley, P.E.
Springfield Engineering
727 South 14th Street
Leesburg, Florida 34748

Re: Sumter Compost - Classification

Dear Mr. Bradley:

Based on the results of testing the Sumter Compost as addressed in your June 8th letter (attached), the compost seems to be Type A compost. However, before granting approval for underspread distribution, you are requested to submit other information as specified in F.A.C. Rule 17-709.530. Pursuant to this rule, the compost must be tested for all the parameters listed in 17-709.530(1)(a) and (c). Laboratory results should be submitted for the testing, and calculations submitted using the ROM equation according to 17-709.530(h). Additionally, an annual report was due by June 1st on Form 17-709.900(2) (attached). Please submit all the laboratory results and indicate the quantity of compost represented by those results with a copy sent to Ms. Francine Joyal at DER in Tallahassee.

Your assistance is appreciated.

Sincerely,

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

KBF/br

Attachment

cc: Francine Joyal - DER, Tallahassee
Garry Breeden, S.C.P.W.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

June 12, 1990

Mr. Paul Bradley, P.E.
Springfield Engineering
727 South 14th Street
Leesburg, Florida 34748

Re: Sumter Compost - Classification

Dear Mr. Bradley:

Based on the results of testing the Sumter Compost as addressed in your June 8th letter (attached), the compost seems to be Type A compost. However, before granting approval for underspread distribution, you are requested to submit other information as specified in F.A.C. Rule 17-709.530. Pursuant to this rule, the compost must be tested for all the parameters listed in 17-709.530(1)(a) and (c). Laboratory results should be submitted for the testing, and calculations submitted using the ROM equation according to 17-709.530(h). Additionally, an annual report was due by June 1st on Form 17-709.900(2) (attached). Please submit all the laboratory results and indicate the quantity of compost represented by these results with a copy sent to Ms. Francine Joyal at DER in Tallahassee.

Your assistance is appreciated.

Sincerely,

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

KBF/br

Attachment

cc: Francine Joyal - DER, Tallahassee
Garry Breeden, S.C.P.W.

Recycled Paper

Florida Depar ent of Environmental Regu on
Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-709.900(2)
Form Title Annual Report for a Solid Waste Man. Facility Producing Compost Made from Solid Waste
Effective Date November 21, 1989
DER Application No. _____ (Filled in by DER)

Annual Report for a Solid Waste Management Facility Producing Compost Made from Solid Waste

1. Facility Name: _____ Permit No.: _____

   Address: _____

2. Year Covered by this Report: _____

3. Total Quantity in Tons and Type of Waste Received During Report Year.

	Quantity
Yard Trash	_____
Manure	_____
Other Solid Wastes	_____
Sludge (in tons dry weight)	_____
Other. Type _____	_____

4. Total Quantity in Tons and Type of Waste Processed into Compost During Report Year.

	Quantity
Yard Trash	_____
Manure	_____
Other Soild Wastes	_____
Sludge (in tons dry weight)	_____
Other. Type _____	_____

5. Total Quantity in Tons and Type of Compost Produced During Report Year. Identify type using classification codes specified in Rule 17-709.550, F.A.C.

Type	Quantity
_____	_____
_____	_____
_____	_____
_____	_____

6. Total Quantity in Tons and Type of Compost Removed from Facility for Use or Disposal During Year. Identify type using classification codes specified in FAC Rule 17-709.550, F.A.C. If "used" is circled, include a general description of the market.

Type	Quantity	(circle one)	Market
_____	_____	used/disposed of	_____
_____	_____	used/disposed of	_____
_____	_____	used/disposed of	_____
_____	_____	used/disposed of	_____

Person Completing This Form: _____ (Name) _____ (Telephone No.)

Northwest District
160 Governmental Center
Pensacola, Florida 32501-5794
904-436-8300

Northeast District
3426 Bills Rd.
Jacksonville, Florida 32207
904-798-4200

Central District
3319 Maguire Blvd. Suite 232
Orlando, Florida 32803-3767
407-894-7555

Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347
813-623-5561

South District
2269 Bay St.
Fort Myers, Florida 33901-2896
813-332-2667

Southeast District
1900 S. Congress Ave., Suite A
West Palm Beach, Florida 33406
407-964-9668

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

D. E. R.

JUN 1 1 1990

SOUTHWEST DISTRICT
TAMPA

June 8, 1990

Mr. Kim Ford, P.E.
Solid Waste Section
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7847

Re: Sumter County Solid Waste Facility
Compost Classification, Use and Disposal
C-103

Dear Mr. Ford,

We have completed testing of one compost pile at the the Sumter County solid waste facility. The compost type is Class "A". The test results are attached.

The compost was classified and the compost type determined as follows:

Classification

Rule: 17-709.550

a.	Type of waste processed:	Solid waste, other than yard trash or manure F.A.C. 17-709.530(1)(a)
b.	Product maturity: Mature	F.A.C. 17-709.550(1)(b) F.A.C. 17-709.550(3)(a)
c.	Foreign matter content:	1.2% F.A.C 17-709.550(1)(c)
d.	Particle size:	Fine - less than 10 mm and organic matter content of 24% F.A.C. 17-709.550(1)(d)

e. Heavy metal concentrations: Code 1 as per F.A.C. 17-709.550(1)(e)

Parameter	Concentration (mg/mg)	Code
Cadmium	5	1
Copper	250	1
Lead	290	1
Nickel	27	1
Zinc	580	1

Compost Maturity: Mature
F.A.C. 17-709.550(3)(a)

The compost meets the following criteria:

1. Highly stabilized
2. Exposed to long periods of decomposition
3. Will not reheat upon standing to greater than 20° C above ambient temperature
4. Has beneficial use
5. Can be used in direct contact with roots
6. Is brown to black in color
7. Reduction of organic matter is greater than 60%

Compost Type: "A"
F.A.C. 17-709.550(2)(c)

1. Made from solid waste other than only yard trash or manure
2. Compost is fine
3. Compost is mature
4. Foreign matter content is less than 2%

5. Metal concentration falls under Code 1

6. The compost does not contain foreign matter of a shape and size that can cause injury

We respectfully request that the compost product be cleared by Florida Department of Environmental Regulation for unrestricted distribution in accordance with F.A.C. 17-709.600.

Please call me at (904)787-1414 if you have any questions.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

Enclosure

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C103L6890)

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

D.E.R.

JUN 1 1 1990

SOUTHWEST DISTRICT
TAMPA

June 8, 1990

Mr. Kim Ford, P.E.
Solid Waste Section
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7847

Re: Sumter County Solid Waste Facility
Compost Classification, Use and Disposal
C-103

Dear Mr. Ford,

We have completed testing of one compost pile at the the Sumter County solid waste facility. The compost type is Class "A". The test results are attached.

The compost was classified and the compost type determined as follows:

Classification

Rule: 17-709.550

a. Type of waste processed:	Solid waste, other than yard trash or manure	F.A.C. 17-709.530(1)(a)
b. Product maturity:	Mature	F.A.C. 17-709.550(1)(b) F.A.C. 17-709.550(3)(a)
c. Foreign matter content:	1.2%	F.A.C 17-709.550(1)(c)
d. Particle size:	Fine - less than 10 mm and organic matter content of 24%	F.A.C. 17-709.550(1)(d)

e. Heavy metal concentrations: Code 1 as per F.A.C. 17-709.550(1)(e)

Parameter	Concentration (mg/mg)	Code
Cadmium	5	1
Copper	250	1
Lead	290	1
Nickel	27	1
Zinc	580	1

Compost Maturity: Mature
F.A.C. 17-709.550(3)(a)

The compost meets the following criteria:

1. Highly stabilized
2. Exposed to long periods of decomposition
3. Will not reheat upon standing to greater than 20° C above ambient temperature
4. Has beneficial use
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6. Is brown to black in color
7. Reduction of organic matter is greater than 60%

Compost Type: "A"
F.A.C. 17-709.550(2)(c)

1. Made from solid waste other than only yard trash or manure
2. Compost is fine
3. Compost is mature
4. Foreign matter content is less than 2%

5. Metal concentration falls under Code 1

6. The compost does not contain foreign matter of a shape and size that can cause injury

We respectfully request that the compost product be cleared by Florida Department of Environmental Regulation for unrestricted distribution in accordance with F.A.C. 17-709.600.

Please call me at (904)787-1414 if you have any questions.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

Enclosure

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C103L6890)

VSA

D. E. R.

MAY 21 1990

SOUTHWEST DISTRICT
TAMPA

Sumter County Public Works

222 East McCollum Avenue
Bushnell, Florida 33513
Phone (904) 793-0240

Garry Breeden
Director

Tommy Hurst
Assistant Director

May 17, 1990

Mr. Ernest G. Weeks
Solid Waste Division
Florida Dept. of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

Re: Construction and Demolition Debris Disposal
Sumter County

Dear Mr. Weeks:

Please be advised that Sumter does intend to fully comply with F.S. 403.706 (2) and we are in the process of assisting Mr. William C. Gregory with D & C Disposal, Inc., to design and permit his private construction and demolition debris disposal site.

Sumter County will not have a county owned C & D Debris site but contractually use the private site as leased by Mr. Gregory. The County will refuse to accept all C & D debris at the approved County landfill site and direct the C & D debris to Mr. Gregory's site. Any C & D debris that mistakenly gets to the County site will be trucked to Mr. Gregory's site for proper disposal.

The status of Mr. Gregory's D & C Disposal site is as follows:

1. SWFWMD Application No. 407582.00 - H & B Consulting Engineers, Inc., is working with SWFWMD to acquire a permit for the D & C Disposal site.

2. FDER Application No. S060-177944 - H & B Consulting Engineers, Inc. has made a permit submittal package to you but was denied for some minor problems. A re-submittal is being prepared.

We hope these procedures meet with your approval and will keep you fully apprised of Sumter County's progress.

Very truly yours,

Mr. Garry Breeden

cc Mr. Randall Thornton
Mr. Bernard Dew
Mr. Tommy Hurst
Mr. William Gregory
H & B Consulting Engineers, Inc.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

May 1, 1990

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

Re: Construction and Demolition Debris Disposal

Dear Mr. Breeden:

In 1989, several revisions were made to the Department's rule on solid waste Chapter, 17-701, Florida Administrative Code (FAC). One of those revisions (17-701.061, FAC) created new guidelines for the disposal of construction and demolition debris (C&D). According to 17-701.061(2), FAC:

> Pursuant to Section 403.706(2), Florida Statutes, each county must initiate by July 1, 1989, a program to develop segregated disposal areas for construction and demolition debris. This program shall be designed to assure that all construction and demolition debris is disposed in segregated areas after August 1, 1990.

The August 1, 1990, deadline is just three months away. In an effort to gauge district-wide compliance with this requirement, the Department hereby requests you to submit a detailed narrative description that discusses your county's current status with regards to this subject and how you plan to meet the August 1, 1990 deadline for segregated disposal of construction and demolition debris.

Please address your response to me at 4520 Oak Fair Boulevard, Tampa, Florida 33610-7347.

Sincerely,

Ernest G. Weeks

Ernest G. Weeks
Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

cc: Steve Morgan, DER Tampa

P 149 935 104

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to Larry Breeden, Dir.	
Street and No. Sumter County Dept of	
P.O., State and ZIP Code Public Works	
Postage	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 5-7-90	

PS Form 3800, June 1985

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom, delivered, date, and addressee's address. *(Extra charge)*
2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:

Barry Breeden, Dir
Sumter County Dept of
Public Works

D. E. R.

4. Article Number
P 149 935 104

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X

MAY - 9 1990

8. Addressee's Address *(ONLY if requested and fee paid)*

6. Signature — Agent
X Diana M. Johnson

SOUTHWEST DISTRICT
TAMPA

7. Date of Delivery
5-8-90

PS Form 3811, Mar. 1988 ★ U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

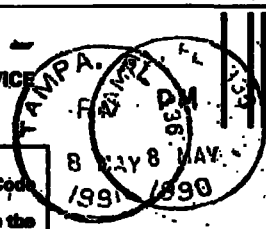
UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the reverse.
- Attach to front of article if space permits, otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.



PENALTY FOR PRIVATE USE, $300

RETURN TO

Print Sender's name, address, and ZIP Code in the space below.

Ernest Weeks

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

4520 OAK FAIR BLVD.

TAMPA, FL 33610-9544

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

FILE

D. E. R.

APR - 9 1990

SOUTHWEST DISTRICT
TAMPA

April 9, 1990

Mr. Clabe R. Polk
Program Administrator
Division of Waste Management
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Re: Sumter County Class I Sanitary Landfill
SC60-132071, Sumter County
C-103

Dear Mr. Polk:

In reference to your Certified Letter that we received on March 21, 1990, on the above project, we have the following responses:

1. A large mound of uncompacted milled solid waste was observed, which contributed to much of the landfill property being covered with litter. FAC 17-701.060(4)(b), states in part: "waste shall be spread to a smooth contour and compacted promptly after placement" and "wind blowing of milled refuse and paper shall be controlled". Apparently a fence is being constructed around the landfill and compost pad for litter control. Please confirm that the fence is being constructed and when it will be completed.

   Litter control fencing has been installed around the lined cell area and the recycling area. Solid material has been attached to the fence on the west property line to prevent any material from leaving the site.

2. Standing water was observed on the compost pad. Low areas of the compost pad need to be filled in so as to eliminate ponding on the compost pad. Please submit plans for correcting the slope of the compost pad to ensure that rainfall will runoff and will not pond on the pad but will runoff into the leachate holding pond.

The area observed holding water on the compost pad has been leveled with asphaltic concrete. When the east portion of the pad is cleared of material it will be regraded with asphaltic concrete and then the west portion.

3. There is no equipment use on-site for screening of your compost product. FAC Rule 17-701.550 requires screening of the compost. The permit which allows composting at your facility was issued because the Department believed that you could product compost. However, since there is no screen, there is no assurance that compost can be produced. Unless the County can demonstrate that screening is taking place within the next thirty (30) days, enforcement action will be taken.

   No screen is on-site to date however, Florida Waste Recovery Systems has informed us that a screen will be delivered to the site on April 10, 1990.

4. You are currently utilizing the closed phase III area for storage of solid waste which may be recycled. An approved plan is required for removal of solid waste. This plan is to ensure that solid waste is being removed and not allowed to accumulate into huge waste piles. The plan should include limits on the amounts of waste that can be stored on the paved surface.

   <u>Storage of Recyclable At Sumter County Landfill</u>

   Sumter County is separating and packaging recyclables recovered from the incoming waste stream on the closed Phase III area as permitted by Florida Department of Environmental Regulation.

   The sale and removal of recyclables is dependent on accumulating minimum shipping quantities and market conditions.

   The recyclables recovered and stored at the Sumter County Landfill and the time to acquire and dispose of minimum shipping quantities are as follows:

RECYCLABLE ITEM	MAXIMUM TIME TO ACQUIRE AND DISPOSE OF MINIMUM SHIPPING QUANTITIES
HDPE & Pet Plastics	6 months
Tin cans	4 months
Ferrous metals	4 months
Non ferrous metals	6 months
Compost	19 months

Should you have any questions, please feel free to contact our office.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C103RAI4990)

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

DER

APR 16 1990

SOUTHWEST DISTRICT
TAMPA

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Environmental Supervisor II
Quality Assurance Section

DATE: April 2, 1990

SUBJECT: Quality Assurance Review; ~~890344P~~ 900087P - Sumter County Landfill, Rev 2;
Submitted by Envirolab, Inc.;

The subject document has been reviewed and approved. A copy of this approval sheet should be forwarded to the consultant for their records. The referenced plan will be retained in the QA Section permanent records.

Project sampling and analysis may proceed as planned and stipulated in the above document, provided that other DER approvals necessary to initiate this project have been granted.

If you have any questions concerning this matter, please let me know (SC 278-2796).

Quality Assurance Oversight: Leslee Williams
Leslee A. Williams, Env. Supr. II

Technical Oversight: Kim Ford, Engineer II, Solid Waste

LAW/law

cc: Ms. Sylvia S. Labie
Mr. Kim Ford, SW-TPA
Mr. Bob Sullivan, Envirolab, Inc.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

April 3, 1990

Mr. Garry Breeden, Director
Sumter County Public Works
222 East McCollum Avenue
Bushnell, Florida 33515

Re: Sumter County Composting Quality Assurance Plan
SC60-132071, Sumter County

Dear Mr. Breeden:

The Quality Assurance Plan for the Sumter County Composting Operation is approved. Attached is a copy of the approval from DER's QA Section. Sampling and testing of the finished compost may begin. Sampling and testing should comply with Specific Condition #34 of your recent permit modification. Please send a copy of the test results to Ms. Francine Joyal at DER Tallahassee, Bureau of Waste Management, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and Mr. Kim Ford at this office.

Sincerely,

Clabe R. Polk
Program Administrator
Division of Waste Management

CRP/ab
Attachment

cc: Francine Joyal, DER Tallahassee
Kim Ford, P.E., DER Tampa
Paul Bradley, P.E., Springstead Engineering

QA Approval April 1990

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Environmental Supervisor II
Quality Assurance Section

DATE: April 2, 1990

SUBJECT: Quality Assurance Review; 890344P - Sumter County Landfill, Rev 2;
Submitted by Envirolab, Inc.;

The subject document has been reviewed and approved. A copy of this approval sheet should be forwarded to the consultant for their records. The referenced plan will be retained in the QA Section permanent records.

Project sampling and analysis may proceed as planned and stipulated in the above document, provided that other DER approvals necessary to initiate this project have been granted.

If you have any questions concerning this matter, please let me know (SC 278-2796).

Quality Assurance Oversight: Leslee Williams
Leslee A. Williams, Env. Supr. II

Technical Oversight: Kim Ford, Engineer II, Solid Waste

LAW/law

cc: Ms. Sylvia S. Labie
Mr. Kim Ford, SW-TPA

TOTAL P.02

For Posting To Other Than The Addressee
To: Location:
To: Location:
To: Location:
From: Date:

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Environmental Supervisor II
Quality Assurance Section

DATE: April 2, 1990

SUBJECT: Quality Assurance Review; 890344P - Sumter County Landfill, Rev 2;
Submitted by Envirolab, Inc.;

The subject document has been reviewed and approved. A copy of this approval sheet should be forwarded to the consultant for their records. The referenced plan will be retained in the QA Section permanent records.

Project sampling and analysis may proceed as planned and stipulated in the above document, provided that other DER approvals necessary to initiate this project have been granted.

If you have any questions concerning this matter, please let me know (SC 278-2796).

Quality Assurance Oversight: Leslee Williams
Leslee A. Williams, Env. Supr. II

Technical Oversight: Kim Ford, Engineer II, Solid Waste

LAW/law

cc: Ms. Sylvia S. Labie
Mr.Kim Ford, SW-TPA

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

PANAFAX TRANSMITTAL FORM

TO Kim Ford LOCATION TAMPA DER

MACHINE PHONE # 813-272-2279

CONFIRMATION PHONE # _____

PAGES 2 (including cover sheet)

FROM Leslee A. Williams LOCATION Tallahassee

PHONE # 488-2796

If there are problems with this transmittal, please call the person listed above.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

NOTICE OF PERMIT

MAR 2 1 1990

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

Dear Mr. Breeden:

Enclosed is modification of the existing permit, Permit Number SC60-132071, issued pursuant to Section(s) 403.087(1), Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32301, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

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

KBF/ab
Attachment

cc: John Reese, DER Tallahassee
Francine Joyal, DER Tallahassee
Paul Bradley, P.E., Springstead Engineering

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 3-21-90 to the listed persons.

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

Clerk

3-21-90
Date

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

MAR 2 1 1990

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

Re: Modification of Conditions
Permit No. SC60-132071, Sumter County
Sumter County Composting and Leachate Treatment

Dear Mr. Breeden:

We are in receipt of your request for a modification of the permit conditions. The conditions are changed as follows:

CONDITION	FROM	TO
Specific Conditions #29., 31., 33., 34., 35., 40.,	Existing	New, see attached
#41., 42., and 43		New, see attached

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

Richard D. Garrity, Ph D
Deputy Assistant Secretary
Southwest District

RDG/kbfb
Attachment

SC60-132071
Sumter County Composting and Leachate Treatment

SPECIFIC CONDITIONS:

29. The solid waste composting facility shall be designed, constructed, and operated in accordance with Rules 17-709.500 and 17-709.510, FAC.

31. Each windrow pile shall be composted for a minimum of 15 consecutive days at an internal core temperature of 55 degrees Celsius (°C) and be completely turned at least 4 times during this fifteen day period.

33. An annual report shall be submitted to the Department by June 1 of each year in accordance with Rule 17-709.530(3), FAC.

34. Sampling and testing of the finished compost shall be in accordance with Rule 17-709.530(1), FAC. A copy of the test results shall be submitted to the Department within 30 days of sample collection. FAC Rule 17-709.530(1)(e), FAC, requires that sample collection, preservation, and analysis be pursuant to a Department-approved quality assurance plan.

35. The finished compost shall comply with disinfection as defined in Rule 17-709.200(6), FAC.

40. The composting facility shall comply with FAC Chapter 17-709 and the resulting compost product shall comply with FAC Rules 17-709.530, 17-709.550, and 17-709.600.

41. This permit is valid for construction of the leachate treatment facility in accordance with the February 21, 1990 report and plans by Springstead Engineering submitted February 23, 1990, and in accordance with all applicable requirements of Department rules.

42. The permittee shall be allowed one (1) year for operating and testing of the leachate treatment and disposal facility to determine compliance with the rules and regulations of the Department. Throughout the allowed one (1) year for operating and testing, the permittee shall submit the results of sampling and analysis as follows:

a. raw leachate from the landfill shall be sampled and analyzed annually for the Primary and Secondary Drinking Water parameters, fecal coliform, and EPA Priority Pollutants.

SPECIFIC CONDITIONS:

b. treated leachate shall be sampled by grab samples before discharge to the percolation pond system as follows:

Parameter	Unit	Frequency
pH	std. units	weekly
TOC	mg/L	monthly
TDS	mg/L	monthly
BOD_5	mg/L	monthly
COD	mg/L	monthly
TSS	mg/L	monthly
TN (as N)	mg/L	monthly
TKN (as N)	mg/L	monthly
NO_3-N (as N)	mg/L	monthly
Lead	mg/L	monthly
Chlorides	mg/L	monthly
Fecal Coliform	#/100 ml	weekly
Total Alkalinity	mg/L $CaCo_3$	weekly

Based upon the results of the analysis, the Department may require further testing and alternative disposal in order to assure compliance with all Department rules and regulations. The results of the analysis shall be submitted to the Solid Waste Section of the DER Southwest District Office within sixty (60) days following the sampling, along with an evaluation of the results and an assessment of the effectiveness of the leachate treatment and disposal facility design and operation. Within the first sixty (60) days of leachate treatment and disposal activities, the permittee shall submit an adequate standard operating procedures manual to describe daily operations, the complete leachate treatment and disposal process, and equipment. Following the end of the one (1) year for operating and testing, the permittee shall request a modification of the landfill permit to include the operation of the leachate treatment and disposal facility.

43. The goal of the leachate treatment facility shall be to obtain the following concentrations prior to disposal of the treated leachate to the percolation pond system:

Parameter	Concentration	Unit
Flow	-	gpd
pH	6.5 - 8.5	std. units
SS	20	mg/L
BOD_5	20	mg/L
COD	(acceptable BOD_5:COD Ratio)	-
Nitrate as N	12	mg/L
Fecal Coliform	N.D.	#/100 ml

ELCC

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

March 21, 1990

Mr. Ted Wicks, P.E.
Wicks Consulting Services, Inc.
107 West Main Street
Tavares, Florida 32778-3809

Re: Use of Metal Fabrication Processing Residuals at the Sumter County Landfill

Dear Mr. Wicks:

I have been ask to respond to your January 22, 1990 request to the Armco residual as cover at the Sumter County Landfill. Based upon the sampling results included in your submittal received by our office, the Department has determined that the residual from the metal fabrication processing at Armco Advanced Materials Corporation in Wildwood is acceptable for use as daily or intermediate cover in the lined cell at the Sumter County Landfill.

However, conversations with Garry Breeden at the Sumter County Landfill indicated a planned use of the residual material outside of the lined area. The use of the residual material outside of the lined cell is not approved.

Discussions with other Department personnel have raised concerns about the testing procedures and testing methods used. A Department approved Quality Assurance/Quality Control (QA/QC) Plan for testing would be necessary before a decision can be made to allow disposal of the residual material outside of lined areas at the Sumter County Landfill.

Sincerely,

Ernest G. Weeks
Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

cc: Garry Breeden, Sumter County
Kim Ford, P.E., DER Tampa

Florida Department of Environmental Regulation

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MAR 2 1 1990

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: Sumter County Class I Sanitary Landfill
SC60-132071, Sumter County

Dear Mr. Breeden:

Department personnel conducted an inspection of the above referenced landfill on February 22, 1990. Several aspects of the composting operation need improvement.

1. A large mound of uncompacted milled solid waste was observed, which contributed to much of the landfill property being covered with litter. FAC 17-701.060(4)(b), states in part: "waste shall be spread to a smooth contour and compacted promptly after placement" and "wind blowing of milled refuse and paper shall be controlled". Apparently a fence is being constructed around the landfill and compost pad for litter control. Please confirm that the fence is being constructed and when it will be completed.

2. Standing water was observed on the compost pad. Low areas of the compost pad need to be filled in so as to eliminate ponding on the compost pad. Please submit plans for correcting the slope of the compost pad to ensure that rainfall will runoff and will not pond on the pad but will runoff into the leachate holding pond.

3. There is no equipment used on-site for screening of your compost product. FAC Rule 17-701.550 requires screening of the compost. The permit which allows composting at your facility was issued because the Department believed that you could produce compost. However, since there is no screen, there is no assurance that compost can be produced. Unless the County can demonstrate that screening is taking place within the next thirty (30) days, enforcement action will be taken.

4. You are currently utilizing the closed phase III area for storage of solid waste which may be recycled. An approved plan is required for removal of solid waste. This plan is to ensure that solid waste is being removed and not allowed to accumulate into huge waste piles. The plan should include limits on the amounts of waste that can be stored on the paved surface.

Please be advised that we must be notified in writing within twenty (20) calendar days of the receipt of this letter of your desire to resolve these issues. Please address your response to Mr. Kim Ford, Division of Waste Management, Southwest District, 4520 Oak Fair Boulevard, Tampa, Florida 33610.

Sincerely,

Clabe R. Polk
Program Administrator
Division of Waste Management

EGW/ab

cc: Victor San Agustin, P.E., DER Tampa
Kim Ford, P.E., DER Tampa,
Steve Morgan, DER Tampa

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.
1. ☐ Show to whom delivered, date, and addressee's address. *(Extra charge)* 2. ☐ Restricted Delivery *(Extra charge)*

3. Article Addressed to:
Garry Breeden, Dir
Sumter County Public Works
222 East McCollum Ave
Bushnell, FL 33513

4. Article Number
P 149 935 077

Type of Service:
☐ Registered ☐ Insured
☑ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Address
X Jayne J. Connell

6. Signature — Agent
X

7. Date of Delivery
3-22-90

8. Addressee's Address *(ONLY if requested and fee paid)*

D.E.R.
MAR 23 1990
SOUTHWEST DISTRICT

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

P 149 935 077

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Garry Breeden, Dir	
Street and No. Sumter County Public Works	
P.O., State and ZIP Code 222 East McCollum Ave	
Postage Bushnell, FL 33513	$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$
Postmark or Date 3-21-90	

PS Form 3800, June 1985

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Interoffice Memorandum

TO: Rick Garrity

THRU: Clabe Polk 3/31/90
VSA 3/21
Victor San Agustin, P.E.

FROM: Kim Ford, P.E. 3/21/90

DATE: March 21, 1990

Permit mod for leachate trt

SUBJECT: Solid Waste Permit Modification
Sumter County Solid Waste Composting
SC60-132071

This permit modification is to bring the existing Sumter County Composting Facility under the new FAC 17-709 Composting Rule so that it is subject to all the rules therein. The County has requested this permit modification. The DER Tallahassee Solid Waste staff has met with the County on the site and has discussed these new specific conditions with them. This permit modification also allows the construction of a leachate treatment facility.

I recommend this permit modification.

KBF/ab
Attachment

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

March 21, 1990

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Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

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Kim Ford, P.E., DER Tampa

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____

To: _____ Location: _____

To: _____ Location: _____

From: _____ Date: _____

Interoffice Memorandum

D.E.R

MAR 20 1990

SOUTHWEST DISTRICT
TAMPA

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Environmental Supervisor
Quality Assurance Section

DATE: March 14, 1990

SUBJECT: Quality Assurance Review; 900087P - Sumter County Landfill, Rev 0;
Submitted by Envirolab, Inc.;

The subject document has been reviewed and approved pending minor revisions. Please make a copy of these comments available to the consultant. The revisions should address the following:

1) Table 3.1: For the items * (Nitrogen and phosphorous compounds) specify the specific method to be used by Envirolab, ie, 351.1 for TKN.

2) Section 3: For the extraction methods for nitrogen and phosphorus specifically reference the Army Corps of Engineers method.

3) Regarding the bacteriological QC, the API strips only biochemically confirm the identity of an isolated colony. It does not confirm purity, per se. Additionally identify which cultures are being obtained from EPA. Generally ATCC cultures are purchased directly from the American Type Culture Collection (ATCC) or a vendor.

4) Table 4: The holding time for nitrogen and phosphorus should be 48 hours rather than 28 days.

5) Section 10: Delete the reference to ABC Laboratory and incorporate the reference for Envirolab.

6) Section 11: Field parameters are collected at the specified frequency per parameter class; equipment blanks are collected at the specified frequency of the equipment used and subsequently decontaminated in the field.

7) Section 14: Note the comments regarding accuracy and precision for bacteriology.

The required revisions may be sent to the DER QA Office; routing through the District Office is unnecessary. The revised QAPP pages must be received no later than April 16, 1990. Once received, they will be incorporated into the copy of the QAPP submitted for review, which is being retained. If the required revisions are not received by the above date, this pending approval will expire.

All parties must comply with the above review comments for all sampling and analytical activities in the interim between this pending approval and the final approval of this QA Plan.

Project sampling and analysis may proceed as planned and stipulated in the above referenced document, providing the requested revisions are included and if other DER approvals necessary to initiate this project have been granted.

If you have any questions concerning this matter, please let me know (SC 278-2796).

LAW/law

Attachment: annotated pages of QAPP

cc: Ms. Sylvia S. Labie

TABLE 3.1 PARAMETER LIST FOR COMPOST ANALYSES

Parameter	Method	Precision	Accuracy	Completeness
Moisture * (100% T.Solids%)	160.3	5.3,3.6	99.2,6.3	90
Total Nitrogen*	351+353	N/A	N/A	90
Total Kjehdahl Nitr	351 *	11.6,8.1	92.8,6.2	90
Nitrate + Nitrite	353 *	2.11,0.77	100,6.23	90
Total Phosphorous	365*	22.1,0.2	105.3,4.04	90
Potassium	3050/7610	10.2,3.2	102,7.07	90
Cadmium	3050/7130	3.2,1.8	99.2,7.3	90
Copper	3050/7210	25.8,10.0	102,3.9	90
Lead	3050/7420	4.56,2.03	96.8,4.5	90
Nickel	3050/7520	4.8,3.2	98.1,6.8	90
Zinc	3050/7950	38.5,5.67	99.4,6.5	90
Fecal Coliform	SM 908	N/A	N/A	
pH	9045	2.4,1.7	99.8,0.46	90
Organic Matter (volatile solids)	160.4	Insufficient data for this type of matrix.		
Foreign Matter** DER 17-709	530(1)(F)	N/A	N/A	

* Specify the method to be used by Enviro-lab.

Specifically reference Comply Cups Method

Compost for Total Kjehdahl Nitrogen, Nitrate + Nitrite, Total Phosphorous, are prepared by blending 1 gram compost into 100 mls, de-ionized H2O using stainless steel blender. Multiple aliquots (0.1 ml to 5 mls) of mixture are used for analyses. An aliquot of the sample will be digested by using H2SO4 and Nitric Acid digestion to Sulfuric Acid fuming to bring the compost into solution for the total phosphorus analyses. The TKN digestion is included in the TKN method. An aliquot of the 1 gm to 100 mls sample will be filtered through 0.45 micron filter and analyzed for Nitrate-Nitrite.

Amds?

Compost Total Solids are prepared by ten grams of compost sample and weighed on an analytical balance to the nearest milligram. The sample is analyzed as in EPA 160.2 without the filtering.

* Total Nitrogen is the sum of TKN and NO3 + NO2.
** Foreign Matter is described in FL DER Rule 17-709 530(1)(F).

Fecal Coliform has dilution water (phosphate buffer as described in method) run as a negative control and a fecal strep negative culture control and a sample of purified culture of fecal coliform run as positive control. The positive and negative controls

are recorded as just 'positive' and 'negative', due to nonavailability of Quantifiable standards. The pure cultures are checked purity monthly, using the API test strip. The cultures are obtained from EPA ?

← this confirms ID only

The compost samples are prepared for analyses by blending 25g of sample and 250 mls of dilution water (phosphate buffer water as described in SM 908) using a stomacher device. The homogenized sample is further diluted to appropriate dilutions so that the analyses will not yield TNTC results. The sample size could be as high as one milliliter, to as low as 10 (-5 power) milliliter. All equipment used for sample preparation will be sterilized prior to use, using an autoclave.

The MPN method will be a 5 tube method using three dilutions, Envirolab will actually use five dilutions to keep the fecal coliform concentration in the range of the test. The dilutions are of the blended sample and are 10mls (1gm), 1ml (0.1g), 0.1ml (0.01gm) 0.01ml (0.001gm) and 0.001ml (0.0001gm). If the first three concentrations are in the method range they will be used, if not then the next three concentrations will be used and so on. The MPN Value from the S.M. MPN Table will be factored by 10g divided by the highest concentration (in grams) dilution used, divided by 100. This result is MPN per gram. Divide this value by the % volatile solid to yield MPN fecal coliform per gram of volatile solid.

Table 4 Sample Containers, Preservatives, and Holding Times

Matrix	Parameter Group	Container Type	Preservative	Holding Time
Compost	All Metals	1 liter Amber Glass, Teflon Lid	Ice	6 months
	Fecal Coliform	pre-sterile specimen container 125 ml size	Ice	6 hours**
	Moisture, Organic Matter	1 liter amber glass Teflon lined lid	Ice	7 days
	Nitrogen(TKN, NO3, NO2) Total Phosphorus	1 liter amber glass Teflon lined lid	Ice	~~28 days~~ 48 hrs

** There are no published holding times for Fecal Coliform in Compost. Sample analyses will be run within 6 hours.

10.0 DATA REDUCTION, VALIDATION AND REPORTING

Please refer to Envirolab's Generic QAP Section 8, pages 1 through 3.

10.1 Data Reduction

The process of converting raw data to sample concentration in the appropriate units is accomplished by the analyst responsible for the work. The specific calculation involved are described in Envirolab's Generic QA Plan.

GC and GC/MASS SPEC procedures incorporate automatic quantitation routines using known internal standards and surrogate standards. All parameters within the individual EPA methods (ie 625) are compared to known internal standards. This comparison yields an analyte relative response factor. This analyte relative response factor is compared to a standard relative repsonse factor of a standard run during that day. This comparison multiplied by the standard concentration yield the sample analyte concentration. Surrogate standards are analytes of known concentrations that are added to the samples before the extractions begin.The surrogate standards are used to calculate the extraction efficiency, (recovery) of the procedure. Internal standards are not extracted but are added to the extracts before the instrumental analyses begins. G.C. Automatic Quantitation is by Nelson Analytical while GC/MS is Finnigans Auto Quant routine. ABC's data reduction involves counting colonies and correcting for dilutions used, or counting MPN tubes with gas formation and using the MPH Tables and correcting for the dilutions used.

Delete or change reference to Envirolab!

10.2 Data Validation

The data generated by the analyst is reviewed at two different stages of the data flow. The analyst is responsible for ascertaining the correctness of all calculations performed in his/her area. Prior to submitting the data to report generation, the data and associated QC information is checked by the QA Manager to verify consistency and compliance with control ranges.Results are not acceptable if QC (spiked and duplicated samples) are outside ± 3 S.D. from the mean. All analyses include controls and/or spikes and/or surrogate and internal standards that must fall within ± 3 S.D. for the analyses to be deemed valid.

10.3 Data Reporting

Data reporting is accomplished by using a key punch operator to enter data from test sheets completed by the analysts into a commercial lab data management software package. The report

11.0 INTERNAL QUALITY CONTROLS CHECKS

Please refer to Envirolab's generic Quality Assurance Plan-Section 9, Revision 1, Feb 2, 1988, pages 1 through 4.

11.1 FIELD ACTIVITIES

Measures to ensure the quality of the field samples collected have been described throughout the document. In summary these measures include:

Pre and Post Sampling Organizational Meetings
Field Equipment Checks
Preparation of Trip Blanks
Sampling Instructions and the use of Approved Methods
Collection of Field Blanks and Equipment Blanks at a rate of at least 5%, or at least once per sampling trip.
Collection of Replicate samples

11.2 LABORATORY ACTIVITIES

To ensure reliable, accurate, and reproducible data, the laboratory will utilize strict internal quality control checks as follows for the chemical analyses:

Batch Duplicates
Batch Spikes
Performance Samples
Calibration and Method Check Samples, (From EPA or NBS)
Blanks
Reagent Checks

Atomic Absorption, and wet chemistry Quality Control Checks are in Envirolab's generic QAP Section 9, 6.2.1. through 6.2.7. All standards are purchased from Supelco, CMS, Fisher, ChemService and are analytical grade or better. Quality control samples are from EPA Quality Assurance. Documentation of Q.C. Checks including standards and controls (spikes, duplicates, EPA control samples) are incorporated into QC charts and tables, and also in each method workbook. The QA officer reviews all documentation and if acceptable, initials the workbook page, or the analyses must be redone.

14.0 ASSESSMENT OF DATA PRECISION, ACCURACY, AND COMPLETENESS

Data completeness will be expressed both as a percentage of total tests conducted that are deemed valid and as the percentage of the total tests required in the scope of work that are deemed valid.

Methods for assessing data precision, accuracy, and completeness by Envirolab are described in Section 12.0, pages 1 through 6 of Envirolab's Generic QA Plan.

Accuracy is unable to be determined for the fecal coliform due to the nonavailability of Quantifiable Standards.

→ Accuracy is addressed by using known matrices and routine QC
Precision is addressed by replicate sample analyses.

This may be deleted since it is no longer required

METHOD 8240

GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

1.0 SCOPE AND APPLICATION

1.1 Method 8240 is used to determine volatile organic compounds in a variety of solid waste matrices. This method is applicable to nearly all types of samples, regardless of water content, including ground water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments. The following compounds may be determined by this method:

Analyte	CAS No.[b]	Appropriate Technique	
		Purge-and-Trap	Direct Injection
Acetone	67-64-1	pp	a
Acetonitrile	75-05-8	pp	a
Acrolein	107-02-8	pp	a
Acrylonitrile	107-13-1	pp	a
Allyl alcohol	107-18-6	pp	a
Allyl chloride	107-05-1	a	a
Benzene	71-43-2	a	a
Benzyl chloride	100-44-7	pp	a
Bromoacetone	598-31-2	pp	a
Bromochloromethane (I.S.)	74-97-5	a	a
Bromodichloromethane	75-27-4	a	a
4-Bromofluorobenzene (surr.)	460-00-4	a	a
Bromoform	75-25-2	a	a
Bromomethane	74-83-9	a	a
2-Butanone	78-93-3	pp	a
Carbon disulfide	75-15-0	pp	a
Carbon tetrachloride	56-23-5	a	a
Chlorobenzene	108-90-7	a	a
Chlorobenzene-d_5 (I.S.)	108-90-7	a	a
Chlorodibromomethane	124-48-1	a	a
Chloroethane	75-00-3	a	a
2-Chloroethanol	107-07-3	pp	a
2-Chloroethyl vinyl ether	110-75-8	a	a
Chloroform	67-66-3	a	a
Chloromethane	74-87-3	a	a
Chloroprene	126-99-8	a	pc
3-Chloropropionitrile	562-76-7	ND	pc
1,2-Dibromo-3-chloropropane	96-12-8	pp	a
1,2-Dibromoethane	106-93-4	a	a
Dibromomethane	74-95-3	a	a
1,4-Dichloro-2-butene	764-41-0	pp	a
Dichlorodifluoromethane	75-71-8	a	a
1,1-Dichloroethane	75-34-3	a	a

To: CLABE POLK TAMPA
From: T.McConatha (B. Hinkley)
Subject: SUMTER COUNTY Date: 03/14/90

file Sumter Co Permit file

Distribution:

CLABE POLK

Item Subject: Cover Memo

TO: Kim Ford

FROM: Francine Joyal

Call me after review.

To: CLABE POLK TAMPA
From: T.McConatha (B. Hinkley)
Subject: SUMTER COUNTY Date: 03/14/90

Distribution:

CLABE POLK

Item Subject: SUMTERSC

RE: SUMTER COUNTY COMPOSTING FACILITY
MODIFICATION TO SC60-132071 PERMIT CONDITIONS

NOTE: None of the following suggested changes reflect leachate treatment and testing See modification request item No. 1 in February 21 letter from Paul Bradley.

29. The solid waste composting facility shall be designed, constructed, and tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

SUGGESTED POSSIBLE CHANGE:
29. The solid waste composting facility shall be designed, constructed, and the leachate tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

OR(IF COUNTY CAN COMPLY WITH NEW COMPOST RULE):
29. The solid waste composting facility shall be designed, constructed, and tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules, operated in accordance with Rules 17-709.500 and 17-709.510, F. A. C. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

NOTE: Rule 17-709.500, F. A. C., requires leachate meet applicable standards of Rules 17-3 and 17-4, F.A.C., at the point of discharge.

30. Adequate equipment and reserve equipment shall be available for the mixing and turning of the windrow piles.

31. Each windrow pile shall be composted for a minimum of 15 consecutive days at an internal core temperature of 55 degrees Celsius (oC) and be completely turned at least 5 times during this fifteen day period.

SUGGESTED POSSIBLE CHANGE:
31. Each windrow pile shall be composted for a minimum of 15 consecutive days at an internal core temperature of 55 degrees Celsius (oC) and be completely turned at least ~~5~~ 4 times during this fifteen day period.

NOTE: This reflects disinfection as defined in Rule 17-709.200(6), F.A.C.

32. If odors are determined to be a nuisance at the sites boundaries, or if rainfall damages the final curing piles, odor controls or waterproof covers shall be provided.

33. A monthly operation report shall be submitted to the Department by the fifteenth (15) of the succeeding month.

SUGGESTED POSSIBLE CHANGE:
33. ~~A monthly~~ An annual report shall be submitted to the Department ~~by the fifteenth (15) of the succeeding month~~ by June 1 of each year in accordance with Rule 17-709.530(3), F.A.C.

34. At least 30 days prior to sampling and testing of the leachate or the compost, the permittee shall obtain Department approval of both the laboratory that will perform the testing, as well as the related QA/QC Plan, for all of the parameters to be tested.

SUGGESTED POSSIBLE CHANGE:
34. ~~At least 30 days prior to sampling and testing of the leachate or the compost, the permittee shall obtain Department approval of both the laboratory that will perform the testing, as well as the related QA/QC Plan, for all of the parameters to be tested.~~ Sampling and testing of the finished compost shall be in accordance with Rule 17-709.530(1), F. A. C. A copy of the test results shall be submitted to the Department within 30 days of sample collection. Note that Rule 17-709.530(1)(e), F.A.C., requires that sample collection, preservation, and analysis be pursuant to a Department-approved quality assurance plan.

NOTE: As worded, this does not address testing of the leachate.

35. At least 30 days prior to sampling and testing of the leachate or compost, the permittee shall submit an adequate plan for compost pathogen testing.

SUGGESTED POSSIBLE CHANGE:
35. ~~At least 30 days prior to sampling and testing of the leachate or compost, the permittee shall submit an adequate plan for compost pathogen testing.~~ The finished compost shall comply with disinfection as defined in Rule 17-709.200(6), F. A. C.

36. Within the first 60 days of composting activities, the permittee shall submit an adequate standard operating procedures manual to describe daily operations, the complete composting process, and equipment. The manual should describe composting times, temperature, moisture content and controls, turning and handling. The manual should describe the reuse of leachate and the addition of bacteria.

37. At least 10 days prior to each day designated for sampling and testing of the leachate or the compost, the permittee shall notify the Solid Waste Section of this office of the day designated for sampling and testing.

38. All required submittals shall be sent to the Department of Environmental Regulation, c/o Solid Waste Section, 4520 Oak Fair Blvd., Tampa, FL 33610-7347. Upon receipt and review of the required data, the Department will determine conditions for continued testing.

39. Technical criteria for composting as described in Chapter 12 of EPA 625/1- 79-011, "Process Design Manual for Sludge Treatment and Disposal" and in EPA 625/4-85-014, "Composting of Municipal Wastewater Sludges", should be used as guidance for the composting operations.

40. Finished compost shall achieve a fecal coliform count of less than 2400 colonies/gram utilizing the most probable number (MPN) technique before final compost distribution of utilization.

SUGGESTED POSSIBLE CHANGE:
40. ~~Finished compost shall achieve a fecal coliform count of less than 2400 colonies/gram utilizing the most probable number (MPN) technique before final compost distribution of utilization.~~ The composting facility and the resulting compost product shall be in accordance with Rule(s) ...
a) 17-709, F. A. C.
b) 17-709.510 and 17-709.530, F. A. C.

c) 17-709.510, 17-709.530, 17-709.550, and 17-709.600, F. A. C.

NOTE: 17-709.510 is operating criteria which also includes operating and maintaining design features pursuant to 17-709.500--design criteria. 17- 709.530 is testing, recording and reporting criteria. 17-709.550 is the classification criteria. 17-709.600 is the use criteria. ALSO, THIS MAY BE REDUNDANT IF CONDITION NO. 29 IS CHANGED TO REFER TO 17-709.510.

SUGGESTED POSSIBLE CHANGE:
41. The finished compost accumulated and stored at the facility prior to March 1, 1990, shall either be tested in accordance with Rule 17-709.530(1), F. A. C., or shall be reprocessed with incoming solid waste and run through the composting process a second time.

RE: SUMTER COUNTY COMPOSTING FACILITY
MODIFICATION TO [illegible]60-132071 PERMIT CONDITIO[illegible]

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29. The solid waste composting facility shall be designed, constructed, and tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

SUGGESTED POSSIBLE CHANGE:
29. The solid waste composting facility shall be designed, constructed, and the leachate tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

OR(IF COUNTY CAN COMPLY WITH NEW COMPOST RULE):
29. The solid waste composting facility shall be designed, constructed, and ~~tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules,~~ operated in accordance with Rules 17-709.500 and 17-709.510, F. A. C. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

NOTE: Rule 17-709.500, F. A. C., requires leachate meet applicable standards of Rules 17-3 and 17-4, F.A.C., at the point of discharge.

30. Adequate equipment and reserve equipment shall be available for the mixing and turning of the windrow piles.

31. Each windrow pile shall be composted for a minimum of 15 consecutive days at an internal core temperature of 55 degrees Celsius (^{o}C) and be completely turned at least 5 times during this fifteen day period.

SUGGESTED POSSIBLE CHANGE:
31. Each windrow pile shall be composted for a minimum of 15 consecutive days at an internal core temperature of 55 degrees Celsius (^{o}C) and be completely turned at least ~~5~~ 4 times during this fifteen day period.

NOTE: This reflects disinfection as defined in Rule 17-709.200(6), F.A.C.

32. If odors are determined to be a nuisance at the sites boundaries, or if rainfall damages the final curing piles, odor controls or waterproof covers shall be provided.

33. A monthly operation report shall be submitted to the Department by the fifteenth (15) of the succeeding month.

SUGGESTED POSSIBLE CHANGE:
33. ~~A monthly operation~~ An annual report shall be submitted to the Department ~~by the fifteenth (15) of the succeeding month~~ by June 1 of each year in accordance with Rule 17-709.530(3), F.A.C.

34. At least 30 days prior to sampling and testing of the leachate or the compost, the permittee shall obtain Department approval of both the laboratory that will perform the testing, as well as the related QA/QC Plan, for all of the parameters to be tested.

SUGGESTED POSSIBLE CHANGE:

34. ~~At least 30 days prior to sampling and testing of the leachate or the compost, the permittee shall submit an adequate plan for compost pathogen testing.~~ Sampling and testing of the finished compost shall be in accordance with Rule 17-709.530(1), F. A. C. A copy of the test results shall be submitted to the Department within 30 days of sample collection. Note that Rule 17-709.530(1)(e), F.A.C., requires that sample collection, preservation, and analysis be pursuant to a Department-approved quality assurance plan.

NOTE: As worded, this does not address testing of the leachate.

35. At least 30 days prior to sampling and testing of the leachate or compost, the permittee shall submit an adequate plan for compost pathogen testing.

SUGGESTED POSSIBLE CHANGE:

35. ~~At least 30 days prior to sampling and testing of the leachate or compost, the permittee shall submit an adequate plan for compost pathogen testing.~~ The finished compost shall comply with disinfection as defined in Rule 17-709.200(6), F. A. C.

36. Within the first 60 days of composting activities, the permittee shall submit an adequate standard operating procedures manual to describe daily operations, the complete composting process, and equipment. The manual should describe composting times, temperature, moisture content and controls, turning and handling. The manual should describe the reuse of leachate and the addition of bacteria.

37. At least 10 days prior to each day designated for sampling and testing of the leachate or the compost, the permittee shall notify the Solid Waste Section of this office of the day designated for sampling and testing.

38. All required submittals shall be sent to the Department of Environmental Regulation, c/o Solid Waste Section, 4520 Oak Fair Blvd., Tampa, FL 33610-7347. Upon receipt and review of the required data, the Department will determine conditions for continued testing.

39. Technical criteria for composting as described in Chapter 12 of EPA 625/1- 79-011, "Process Design Manual for Sludge Treatment and Disposal" and in EPA 625/4-85-014, "Composting of Municipal Wastewater Sludges", should be used as guidance for the composting operations.

40. Finished compost shall achieve a fecal coliform count of less than 2400 colonies/gram utilizing the most probable number (MPN) technique before final compost distribution of utilization.

SUGGESTED POSSIBLE CHANGE:

40. ~~Finished compost accumulated and stored at the facility in excess of 2400 cubic yards shall be tested for the most probable number (MPN) of fecal coliform per gram of total solids (dry weight basis) prior to distribution of the compost.~~ The composting facility and the resulting compost product shall be in accordance with Rule(s) ...

a) 17-709, F. A. C.
b) 17-709.510 and 17-709.530, F. A. C.
c) 17-709.510, 17-709.530, 17-709.550, and 17-709.600, F. A. C.

NOTE: 17-709.510 is operating criteria which also includes operating and maintaining design features pursuant to 17-709.500--design criteria. 17- 709.530 is testing, recording and reporting criteria. 17-709.550 is the classification criteria. 17-709.600 is the use criteria. ALSO, THIS MAY BE REDUNDANT IF CONDITION NO. 29 IS CHANGED TO REFER TO 17-709.510.

SUGGESTED POSSIBLE CHANGE:

41. The finished compost accumulated and stored at the facility prior to March 1, 1990, shall either be tested in accordance with Rule 17-709.530(1), F. A. C., or shall be reprocessed with incoming solid waste and run through the composting process a second time.

RE: SUMTER COUNTY COMPOSTING FACILITY
MODIFICATION TO SC60-132071 PERMIT CONDITIONS

NOTE: None of the following suggested changes reflect leachate treatment and testing See modification request item No. 1 in February 21 letter from Paul Bradley.

29. The solid waste composting facility shall be designed, constructed, and tested by the permittee in accordance with the report submitted on February 22, 1988, by Springstead Engineering, Inc., plans submitted on March 9, 1988, and addended information submitted on March 17, 1988, and in accordance with all applicable requirements of Department rules. The permittee shall be allowed six (6) months for operating and testing to determine compliance with the rules and regulations of the Department. The Department may require such tests and evaluations of the facilities to be accomplished by the applicant at his expense.

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MAR-16-1990 08:38 FROM TO 68132722279 P.01

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

FAX TRANSMITTAL LETTER

DATE: 3/16/90

TO:

NAME: Kim Ford

AGENCY: DER

TELEPHONE: 813-272-2279

NUMBER OF PAGES (INCLUDING COVER SHEET) 4

FROM:

NAME: Francine Joyal

AGENCY: DER

IF ANY OF THE PAGES ARE NOT CLEARLY RECEIVED, PLEASE CALL IMMEDIATELY. PHONE NO. 922-6104, Sc 292-6104

SENDERS NAME: Becky Davis

COMMENTS:

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: Location:
To: Location:
To: Location:
From: Date:

Interoffice Memorandum

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Environmental Supervisor
Quality Assurance Section

DATE: March 14, 1990

SUBJECT: Quality Assurance Review; 900087P - Sumter County Landfill, Rev 0;
Submitted by Envirolab, Inc.;

The subject document has been reviewed and approved pending minor revisions. Please make a copy of these comments available to the consultant. The revisions should address the following:

1) Table 3.1: For the items * (Nitrogen and phosphorous compounds) specify the specific method to be used by Envirolab, ie, 351.1 for TKN.

2) Section 3: For the extraction methods for nitrogen and phosphorus specifically reference the Army Corps of Engineers method.

3) Regarding the bacteriological QC, the API strips only biochemically confirm the identity of an isolated colony. It does not confirm purity, per se. Additionally identify which cultures are being obtained from EPA. Generally ATCC cultures are purchased directly from the American Type Culture Collection (ATCC) or a vendor.

4) Table 4: The holding time for nitrogen and phosphorus should be 48 hours rather than 28 days.

5) Section 10: Delete the reference to ABC Laboratory and incorporate the reference for Envirolab.

6) Section 11: Field parameters are collected at the specified frequency per parameter class; equipment blanks are collected at the specified frequency of the equipment used and subsequently decontaminated in the field.

7) Section 14: Note the comments regarding accuracy and precision for bacteriology.

The required revisions may be sent to the DER QA Office; routing through the District Office is unnecessary. The revised QAPP pages must be received no later than April 16, 1990. Once received, they will be incorporated into the copy of the QAPP submitted for review, which is being retained. If the required revisions are not received by the above date, this pending approval will expire.

All parties must comply with the above review comments for all sampling and analytical activities in the interim between this pending approval and the final approval of this QA Plan.

Project sampling and analysis may proceed as planned and stipulated in the above referenced document, providing the requested revisions are included and if other DER approvals necessary to initiate this project have been granted.

If you have any questions concerning this matter, please let me know (SC 278-2796).

LAW/law

Attachment: annotated pages of QAPP

cc: Ms. Sylvia S. Labie

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

PANAFAX TRANSMITTAL FORM

TO Richard Garrity LOCATION SWD - TAMPA

MACHINE PHONE # 813-272-2279

CONFIRMATION PHONE # _____

PAGES 3 (including cover sheet)

FROM Sylvia Labie LOCATION Tallahassee

PHONE # 904. 488-2796
SC. 278-2796

If there are problems with this transmittal,
please call the person listed above.

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

DRAFT

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

WARNING NOTICE #WN90-0015SW60SWD

Re: Sumter County Class I Sanitary Landfill
SC60-132071, Sumter County

Dear Mr. Breeden:

Pursuant to Florida Statutes Chapter 403 and the rules and regulations promulgated therein which authorizes and empowers the Department of Environmental Regulation to control, abate and prohibit pollution of air and water in the state of Florida, you are hereby notified of specific violations of these rules and regulations as follows:

Department personnel conducted an inspection of the above referenced landfill on February 22, 1990. The following violations of Florida Administrative Code (FAC) Title 17, and Florida Statutes Chapter 403 were noted:

1. A large mound of uncompacted milled solid waste was observed, which contributed to much of the landfill property being covered with litter, in violation of specific conditions 3. and 7. of permit No. SC60-132071 and FAC 17-701.060(4)(b), which states in part: "waste shall be spread to a smooth contour and compacted promptly after placement" and "wind blowing of milled refuse and paper shall be controlled".

2. Large amounts of sand were blowing from bare portions of the landfill property, in violation of FAC 17-701.050(5)(c)5.

3. Standing water was observed on the compost pad in violation of FAC 17-701.090(3). Low areas of the compost pad need to be filled in so as to eliminate ponding on the compost pad.

DRAFT

4. There is no equipment used on-site for screening of your compost product. This is in violation of FAC 17-709.550, which requires screening of the compost.

5. You are currently utilizing the closed phase III area for storage of solid waste which may be recycled. An approved schedule is required for removal of solid waste pursuant to FAC 17-701.091(2)(f).

You are advised that violations of these regulations subjects you to judicial imposition of damages, civil penalties of up to $10,000 per offense and/or criminal penalties pursuant to Sections 403.141 and 403.161, Florida Statutes.

Please be advised that we must be notified in writing within twenty (20) calendar days of the receipt of this Notice of your desire to resolve these issues and your plans for complying with the cited statutes. Please address your response to Ernest Weeks, Division of Waste Management, Southwest District, 4520 Oak Fair Boulevard, Tampa, Florida 33610. Failure to respond in writing by the twentieth day may result in one of the following actions:

1. The issuance of an Administrative Order against you pursuant to the authority of Section 403.121, Florida Statutes.

2. The filing of civil complaint in circuit court against you pursuant to the authority of Sections 403.131, 403.161, Florida Statutes.

Sincerely,

Richard D. Garrity, Ph D
Deputy Assistant Secretary
Southwest District

RDG/egwb
Attachments
1. FAC Chapter 17-701
2. FAC Chapter 17-709

cc: David Thulman, OGC Tallahassee
Paul Bradley, P.E., Springstead Engineering
Steve Morgan, DER Tampa
Ernest Weeks, DER Tampa

ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)	Initial / Date
JAY THIBARAJ	
2.	Initial / Date
3.	Initial / Date
4.	Initial / Date

REMARKS:

I WOULD LIKE TO GET YOUR COMMENTS ON THIS LEACHATE TREATMENT PLANT FOR SUMTER COUNTY

I NEED YOUR COMMENTS BY 3/20 SO I CAN REQUEST ADDITIONAL INFO IF NECESSARY

THANKS

FROM:

Kim

INFORMATION	DISPOSITION
Review & Return	Review & Respond
Review & File	Prepare Response
Initial & Forward	For My Signature
	For Your Signature
	Let's Discuss
	Set Up Meeting
	Investigate & Report
	Initial & Forward
	Distribute
	Concurrence
	For Processing
	Initial & Return

DATE 3/9/90

PHONE

stem

Springstead Engineering, inc.

Consulting Engineers — Planners — Surveyors
727 South 14th Street
Leesburg, Florida 34748
Lake (904) 787-1414
Sumter (904) 793-3639 Fax (904) 787-7221

leachate & plant perc ponds

Supplemental Information

for

Sumter County Landfill

Leachate Treatment and Disposal System

FDER Permit No. SC60-132071

February 21, 1990

Springstead Engineering, inc.

Consulting Engineers — Planners — Surveyors
727 South 14th Street
Leesburg, Florida 34748
Lake (904) 787-1414
Sumter (904) 793-3639 Fax (904) 787-7221

REMOVE EXISTING FLUME. FILL AND GRADE AREA BETWEEN COMPOST PAD AND PAVEMENT. RECONSTRUCT FLUME TO DISCHARGE ONTO PAVEMENT.

PHASE III CLOSED

SOUTHWEST DISTRICT
TAMPA
FEB 23 1990
D.E.R.

2-21-90

SPRINGSTEAD ENGINEERING INC.

consulting engineers

Leesburg — Bushnell

PERCOLATION PONDS AND NEW FLUME FOR SUMTER CO. LANDFILL

DATE	SCALE	FILE	JOB NO.
2-2-90	NOTED	C103	C103
DESIGN	DRAWN	CHECKED	SHEET 1 OF 1
TEK	TEK	PB	

NOTICE OF MEETING

Today's date: 3/9/90 Writer: KFORD

Date of meeting: MARCH 20th, TUESDAY

Time: 1:30 pm →

Place: SUMTER COUNTY SITE

Subject: COMPOSTING MEETING

Requested by: FRANCINE JOYCE

Names of attendees other than DER: BILL HINKLEY, CHRIS MCGUIRE, DAVE BRADLEY, GARY KRETZER

Local Program notified: /__/yes /X/no Attending? _____

Copies to anticipated in-house attendees: KIM FORD

Information copies to: RICK G, CLYDE P., VICTORIA

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

To Other Than The Addressees
Location:
Location:
Location:
Date:

CLABE
WE MAILED A COPY OF THIS OVERNIGHT BUT IT MIGHT BE MORE MOOING IF YOU CAN DELIVER THIS COPY PERSONALLY WHILE YOU'RE IN TAMPA
Kim 3/8/90

TO: Silky Labie, Quali
Lab Complex Suite

FROM: Clabe Polk, Administrator
Division of Waste Management

DATE: March 8, 1990

SUBJECT: Sumter County Landfill GAPP
landfill Compost Analyses

Please review and comment upon the technical aspects of the attached proposal ~~as you deem appropriate~~. asap.

In order to maintain progress in the case, we would appreciate comments within 30 days of receipt.

Thanks.

CRP/br

Attachment

asap!
Dr. Garrity

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____
To: _____ Location: _____
To: _____ Location: _____
From: _____ Date: _____

Interoffice Memorandum

TO: Silky Labie, Quality Assurance Section
Lab Complex Suite 416

FROM: Clabe Polk, Administrator
Division of Waste Management

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CRP/br

Attachment

asap!
Dr. Garrity

D.E.R.

MAR 0 8 1990

SOUTHWEST DISTRICT TAMPA

QUALITY ASSURANCE PROJECT PLAN FOR A PRELIMINARY CHEMICAL ASSESSMENT OF LANDFILL COMPOST FROM THE SUMTER COUNTY LANDFILL

Prepared for

SPRINGSTEAD ENGINEERING, INC.
Leesburg, Florida

Prepared by

ENVIROLAB, INC.
Ormond Beach, Florida

October 1988

	Approval	Date
Project Coordinator (Sumter County Solid Waste)	Gary Breeden	3-7-90
Project Manager (Springstead Engineering)	Paul Bradley	3-7-90
Laboratory Director (Envirolab)	Robert Sullivan	3/7/90
Quality Assurance Officer (Envirolab)	Michael Price	3-7-90
Quality Assurance Office (FDER)	Sylvia Labie	

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4.0	Project Organization and Responsibility	2	1	2/90
5.0	Quality Assurance Objectives	1	1	2/90
6.0	Sampling Procedures 6.1 Compost Sampling	4	1	2/90
7.0	Sample Custody Procedures 7.1 Field Logs 7.2 Sample Labels 7.3 Chain of Custody Form 7.4 Internal Lab Chain of Custody	2	1	2/90
8.0	Calibration Frequency	1	1	2/90
9.0	Analytical Procedures	1	1	2/90
10.0	Data Reduction Procedures 10.1 Data Reduction 10.2 Data Validation 10.3 Data Reporting	2	1	2/90
11.0	Internal Quality Control Checks 11.1 Field Activities 11.2 Laboratory Activities	1	1	2/90

Section		Pages	Revision	Date
12.0	Performance and Systems Audits 12.1 Field System Audits 12.2 Laboratory System Audits 12.3 Performance Evaluation Audits	2	1	2/90
13.0	Preventive Maintenance 13.1 Field Equipment	1	1	2/90
14.0	Assessment of Data Precision Accuracy, and Completeness	1	1	2/90
15.0	Corrective Action	1	1	2/90
16.0	Quality Assurance Reports to Management 16.1 Internal Reports 16.2 Reports to FDER	1	1	2/90
17.0	Personnel Qualifications			

APPENDICES

Section		Revision	Date
Appendix A	Chain of Custody Record		2/90

3.0 PROJECT DESCRIPTION

On March 28, 1988 Envirolab, Inc. received a request for proposal from Springstead Engineering, Inc. for the performance of a variety of chemical tests related to compost materials generated at the Sumter County Volume Reduction and Compost Facility (Figure 1). Sumter County was in the process of revising its Solid Waste Facility Operating Permit SC60-132701 to include composting. Based on comments from Florida Department of Environmental Regulation personnel, Springstead Engineering (SE) developed a list of proposed parameters to be analyzed in the compost. The results of this testing was to be reviewed by FDER in order to assess the potential environmental risk associated with the composting process.

On April 11, 1988 Envirolab replied to Springstead Engineering's RFP with a proposal of analytical services. These services included chemical and microbiological testing in Envirolab's Ormond Beach Laboratory.

On September 4, 1988 Mr. Francis Corden spoke with Mr. Ron Peoples of Waste Recovery Systems (WRS), and Mr. Paul Bradley of SE. The purpose of the discussions was to inform Envirolab that SE had selected Envirolab as the contract laboratory for the project. Envirolab was instructed to develop a site specific quality control plan to cover the sampling and analyses of materials at the Compost Facility.

At that time Envirolab with the consent of WRS arranged a meeting with the local FDER representative to thoroughly define the scope of work for the project. Mr. Kim Ford of FDER indicated that certain revisions had been suggested by FDER staff in Tallahassee pertaining to the testing needed. During the meeting a scope of work was outlined by FDER and is outlined in the following subsections.

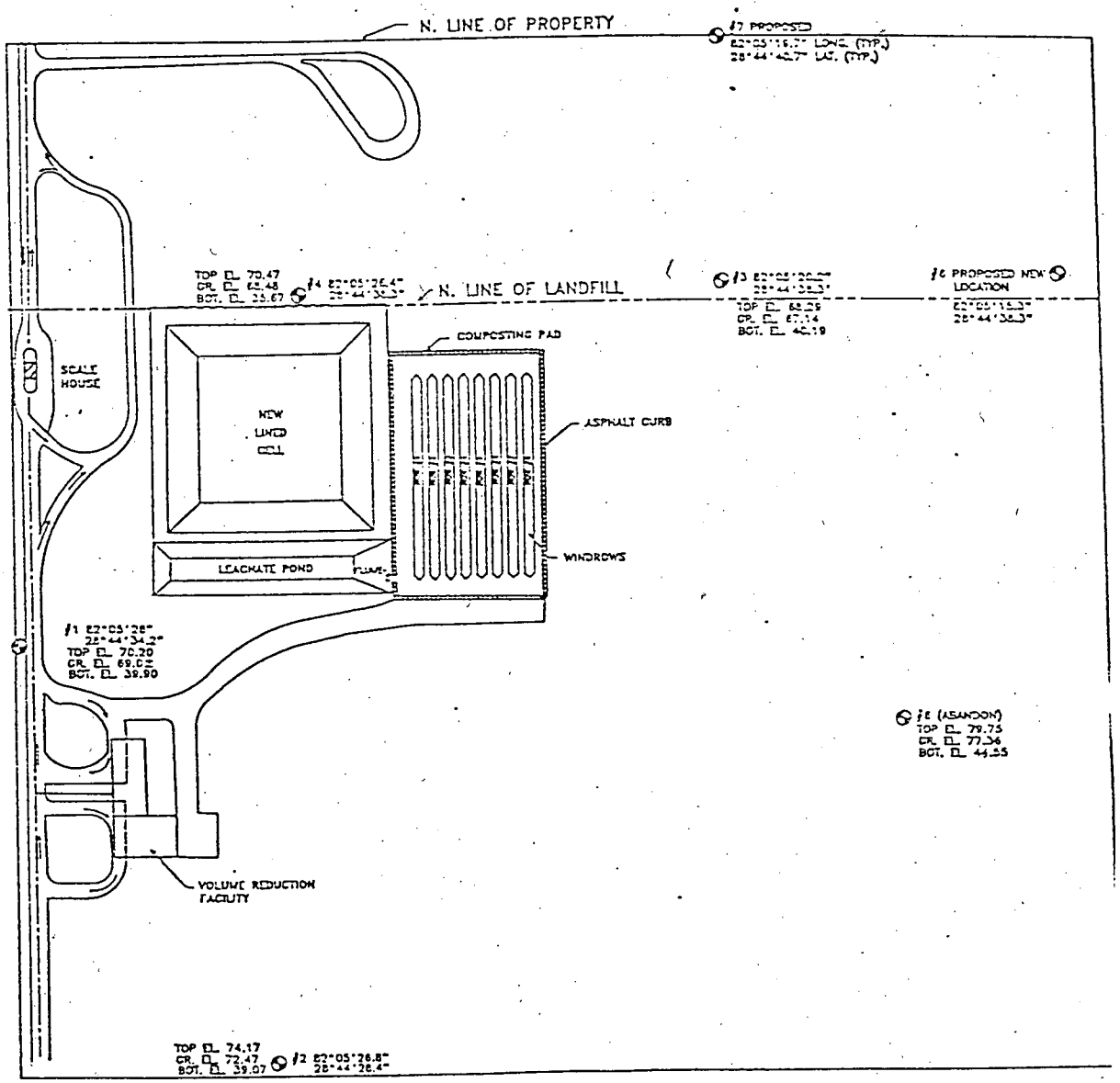
3.1 SAMPLING AND ANALYSIS

All sampling is to be performed by Envirolab, Inc.

3.1.1 Compost Sampling and Analysis

Compost generated at the facility will be stored on a concrete holding pad (Figure 1) in a series of segregated rows. The date

Figure 1


N. LINE OF PROPERTY
#7 PROPOSED
82°05'15.7" LONG. (TYP.)
28°44'40.7" LAT. (TYP.)
TOP EL. 70.47
GR. EL. 68.48
BOT. EL. 35.67
#4 82°05'26.4"
28°44'30.3"
N. LINE OF LANDFILL
#3 82°05'30.0"
28°44'33.3"
TOP EL. 68.29
GR. EL. 67.14
BOT. EL. 40.19
#6 PROPOSED NEW LOCATION
82°05'15.3"
28°44'38.3"
SCALE HOUSE
COMPOSTING PAD
NEW LINED CELL
ASPHALT CURB
WINDROWS
LEACHATE POND
FLARE
#1 82°05'28"
28°44'34.2"
TOP EL. 70.20
GR. EL. 69.01
BOT. EL. 39.90
#5 (ABANDON)
TOP EL. 79.75
GR. EL. 77.36
BOT. EL. 44.55
VOLUME REDUCTION FACILITY
TOP EL. 74.17
GR. EL. 72.47
BOT. EL. 39.07
#2 82°05'26.8"
28°44'26.4"

each row is generated will be recorded by Sumter County personnel. A set of eight rows will be selected for sampling and analyses. These rows will be sampled after they have been allowed to age for two months, they will be sampled a second time after they have aged for three months. One composite sample will be generated from the eight rows and analyzed for the parameters specified in Table 1 and Table 3. After this initial scan the sampling and analysis program may be revised based on the materials actually detected in the compost.

3.2 Data Analysis and Report

Within 45 days after collection of the samples, a report will be prepared and delivered to Springstead Engineering. Reports of spike samples will be reported as well as any excursions of parameters above the applicable regulatory maximum contaminate levels.

TABLE 3.1 PARAMETER LIST FOR COMPOST ANALYSES

Parameter	Method	Precision	Accuracy	Completeness
Moisture * (100% T.Solids%)	160.3	5.3,3.6	99.2,6.3	90
Total Nitrogen*	351+353	N/A	N/A	
Total Kjehdahl Nitr.	351	11.6,8.1	92.8,6.2	90
Nitrate + Nitrite	353	2.11,0.77	100,6.23	90
Total Phosphorous	365	22.1,0.2	105.3,4.04	90
Potassium	3050/7610	10.2,3.2	102,7.07	90
Cadmium	3050/7130	3.2,1.8	99.2,7.3	90
Copper	3050/7210	25.8,10.0	102,3.9	90
Lead	3050/7420	4.56,2.03	96.8,4.5	90
Nickel	3050/7520	4.8,3.2	98.1,6.8	90
Zinc	3050/7950	38.5,5.67	99.4,6.5	90
Fecal Coliform	SM 908	N/A	N/A	
pH	9045	2.4,1.7	99.8,0.46	90
Organic Matter (volatile solids)	160.4	N/A	N/A	
Foreign Matter** DER 17-709	530(1)(F)	N/A	N/A	

Compost for COD, total nitrogen, TKN, Fluoride, total phosphorous, are prepared by blending 1 gram compost into 100 mls, de-ionized H20 using stainless steel blender. Multiple aliquots (0.1 ml to 5 mls) of mixture are used for analyses.

Compost Total Solids are prepared by ten grams of compost sample and weighed on an analytical balance to the nearest milligram. The sample is analyzed as in EPA 160.2 without the filtering.

* Total Nitrogen is the sum of TKN and NO3 + NO2.
** Foreign Matter is described in FL DER Rule 17-709 530(1)(F).

Fecal Coliform has dilution water (phosphate buffer as described in method) run as a negative control and a sample of purified culture for each Pathogen run as positive control. The positive and negative controls are recorded as just 'positive' and 'negative', due to nonavailability of Quantifiable standards. The pure cultures are checked purity monthly, using the API test strip. The cultures are obtained from EPA.

The compost samples are prepared for analyses by blending 25g of sample and 250 mls of dilution water (phosphate buffer water as

described in SM 908) using a stomacher device. The homogenized sample is further diluted to appropriate dilutions so that the analyses will not yield TNTC results. The sample size could be as high as one milliliter, to as low as 10 (-5 power) milliliter. All equipment used for sample preparation will be sterilized prior to use, using an autoclave.

4.0 PROJECT ORGANIZATION AND RESPONSIBILITY

A proposed organizational chart for the project is shown in Figure 4.1.

The Project Coordinator for Sumter County will be Mr. Gary Breeden. He is ultimately responsible for the activities of the subcontractor groups of Waste Recovery Systems (WRS), and Springstead Engineering (SE). Mr. Paul Bradley of SE will act as the contact between Sumter County, Waste Recovery Systems and Envirolab. Though Envirolab will be working closely with the WRS representatives including Mr. Ron Peoples he will have no direct responsibilities related to the project.

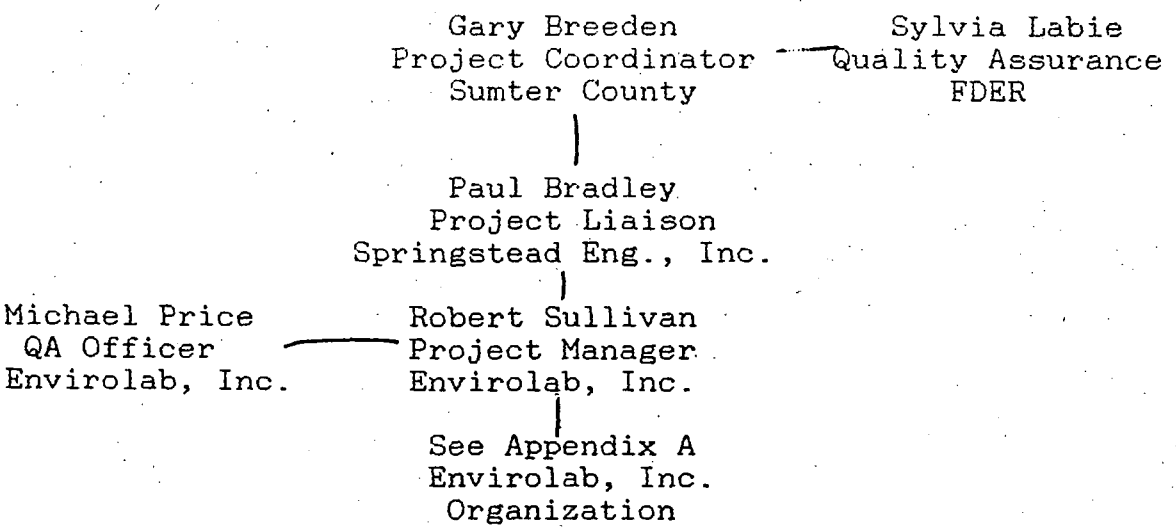
Mr. Robert Sullivan as Laboratory Director will act as Project Manager for the project. Mr. Sullivan has the authority to commit all required resources to this project as needed. Mr. Sullivan will be ultimately responsible for coordinating the administrative, field sampling, and laboratory tasks.

Mr. Michael Price, QA Officer will act as QA Officer for this project. He will be responsible for acting as the liaison with ABC as well as conducting field audits, laboratory audits, generating deficiency and corrective action reports. He will also be responsible for validation of the data and ensuring that the final reports are complete and accurate.

Mr. Michael Price, Laboratory Manager, will oversee the day to day operations of the laboratory and field staff. His responsibility will be to adequately schedule field and analytical tasks as well as supervise data collection, and reduction.

Personnel qualifications of Envirolab personnel are included in Section 17.0 and in Envirolab's Generic QA Plan.

Figure 4.1


Gary Breeden
Project Coordinator
Sumter County
Sylvia Labie
Quality Assurance
FDER
Paul Bradley
Project Liaison
Springstead Eng., Inc.
Michael Price
QA Officer
Envirolab, Inc.
Robert Sullivan
Project Manager
Envirolab, Inc.
See Appendix A
Envirolab, Inc.
Organization

5.0 QUALITY ASSURANCE OBJECTIVES

The quality assurance objectives for this project are based on the referenced values given in Section 3.0 of Envirolab's Generic QA Plan.

Where standards do not exist the EPA specified detection limit referenced in the method will apply (see Table 1, Section 3.0).

Instances may occur when the sample matrix will not permit the laboratory to attain the desired detection limit either due to matrix interferences or high interfering analyte concentrations requiring dilution. In these cases the best achievable detection limit will be reported along with a brief summary of the reason for the higher detection limit.

6.0 SAMPLING PROCEDURES

Envirolab, Inc. will perform all sampling procedures. Analytical data generated in the laboratory is only as good as the quality of the field sample delivered to the lab. Field collection procedures therefore, become critical in ensuring a successful and accurate environmental investigation. Specific protocols for sample collection, preservation, handling, shipping and storage must be specified, documented, and followed.

The general sampling procedures that will be followed are outlined in Section 4.0 of Envirolab's Generic QA Plan Table 1 summarizes the sample containers, and preservatives to be used. All information collected in the field will be entered in the field log. All entries will be in ink. Erasures are not allowed, and all changes must be initialed by the individual making the change. Samples will be returned to the cooler and placed on ice as soon as possible after collection.

Equipment decontamination procedures are also specified in Section 4.0, Appendix B(B3, B4) of Envirolab's QA Plan. Envirolab will provide enough sampling equipment so that no field decontamination is needed.

Due to specific requirements of this site certain procedures in addition to those referenced will be followed for this project.

6.1 Compost Sampling

A composite sample of compost will be generated from a set of eight rows designated by SE personnel. The composite will be generated using the following protocol:

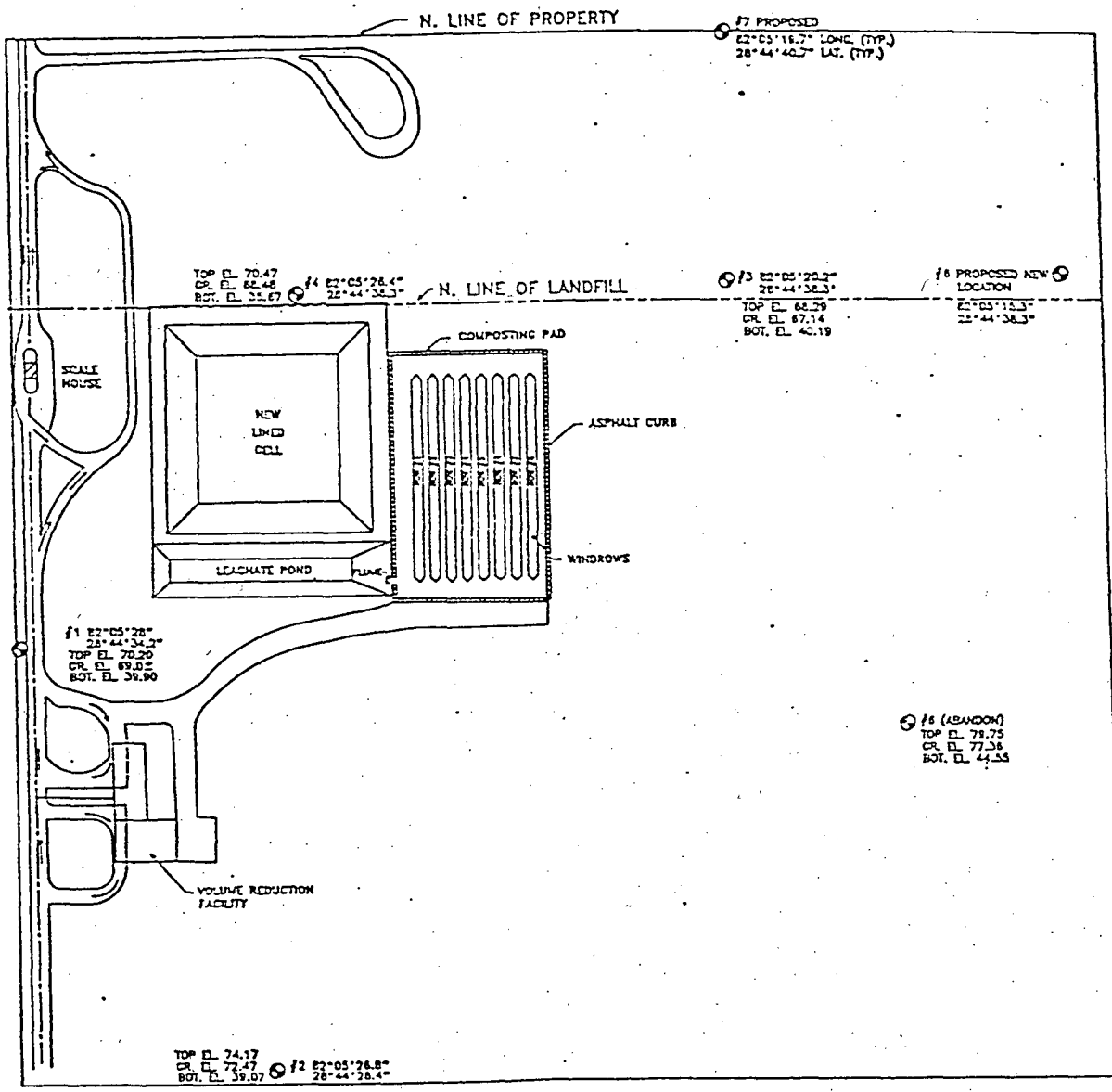
Each row will be sampled at three points (Figure 4), 1/4 the length of the row, 1/2 the length of the row, and at 3/4 the length of the row.

A sample from each point will be placed in a presterilized specimen container for the fecal coliform The fecal coliform sample will not be composited in the field.

At each point on the row four cores will be taken using a stainless steel scope, one from each side of the row, one from the top of the row and one from the center of the row. (Figure 4).

All four cores will be combined in a large glass mixing bowl and stirred gently to homogenize.

Figure 6.1


N. LINE OF PROPERTY
#7 PROPOSED
82°05'16.7" LONG. (TYP.)
28°44'40.7" LAT. (TYP.)
TOP EL. 70.47
GR. EL. 66.48
BOT. EL. 35.67
#4 82°05'26.4"
28°44'38.3"
N. LINE OF LANDFILL
#3 82°05'20.2"
28°44'38.3"
TOP EL. 68.29
GR. EL. 67.14
BOT. EL. 40.19
#8 PROPOSED NEW LOCATION
82°05'13.3"
28°44'38.3"
COMPOSTING PAD
SCALE HOUSE
NEW LINED CELL
ASPHALT CURB
WINDROWS
LEACHATE POND
FLUME
#1 82°05'28"
28°44'34.2"
TOP EL. 70.20
GR. EL. 69.02
BOT. EL. 39.90
#6 (ABANDON)
TOP EL. 78.75
GR. EL. 77.36
BOT. EL. 44.36
VOLUME REDUCTION FACILITY
TOP EL. 74.17
GR. EL. 72.47
BOT. EL. 39.07
#2 82°05'26.8"
28°44'38.4"

Therefore at the end of the sampling, the team should have 8 sets of two wide mouth jars, and 24 discrete fecal coliform samples in presterilized containers. All fecal coliform samples will be returned to the Laboratory as discrete samples. The fecal coliform will be composited by rows by the Laboratory and to be analyzed by rows.

Table 4 Sample Containers, Preservatives, and Holding Times

Matrix	Parameter Group	Container Type	Preservative	Holding Time
Compost	All Parameters excluding Fecal	1 liter Amber Glass, Teflon Lid		6 months
	Fecal Coliform	pre-sterile specimen container 125 ml size	Ice	6 hours**

** There are no published holding times for Fecal Coliform in Compost. Sample analyses will be run within 6 hours.

7.0 SAMPLE CUSTODY

Documentation of sample custody is a critical aspect of any project assessing the potential for environmental contamination. It is critical that possession of the samples be traceable from the time of collection, until the time the analysis of the sample is complete. For this reason, Envirolab will collect the samples. Envirolab will maintain accurate and complete chain of custody records.

7.1 Field Logs

During field activities the sampling crew leader will assure that the sampling log book is completed in its entirety. Entries into the field log include, but will not be limited to:

A sketch of the sampling site
A description of each site to be sampled
All equipment used to collect the sample
All sample bottles collected at the site
The date and time of sample collection
Any preparation procedures required
The weather conditions at the time of sampling
All field measurements taken at the site
The results of calibration checks of field instruments
Whether any QC samples were taken at the site
Any problems, difficulties or unusual situations encountered
Name and signature of the sampling team members

The field log becomes a part of the permanent record of the sampling event.

7.2 Sample Labels

Sample containers will be labeled at the time of collection with a minimum of the following information:

Project Number
Sampling Date/Time
Sample Site Identification
Parameters of Interest
Preservatives
Initials of the Collector

7.3 Chain of Custody Form

The final task to be completed in the field is the completion of the sample chain of custody form. An example of the form is included in Appendix A.

All samples will remain in the custody of the sampling team from the time of collection until they are delivered to the laboratory and logged in by the sample custodian. At that time the custodian will sign off on the chain of custody form. The original and all copies will remain with the master log sheet and become part of the permanent record.

7.4 Internal Laboratory Chain of Custody

Internal chain of custody procedures are described in Envirolab's Generic QA Plan, Section 5.0 pages one through four. Briefly, they include the use of a master log. This form identifies the sample group and the parameters as well a serves as a hand written record of the analysts final results. While in the possession of the laboratory the samples are kept in a locked walk in refrigerator until needed by the analyst. At the end of each day all samples are returned.

The metal samples are locked in a storage cabinet within the metals section. The sample containers are removed only long enough to measure the required amount for the digestions. The samples are then returned to the cabinet. The sample storage cabinet and digestates are locked in the metals section room. Unauthorized access in not allowed into the room. The lower two shelves of the locked walk-in refrigerator are dedicated to the organic section. The organic section includes an extraction room and the instrument room. Both sets of doors are keyed alike and only that sections members and management have the keys. The organic samples are removed from the walkin refrigerator long enough to measure the required amount for sample prep. After sample prep, the samples are hand delivered to the organic analyst. The samples can be tracked by looking at the metals prep log book, the organics prep log book and the analyses log books. This is the manner that Envirolab tracks who has been involved with the samples.

8.0 CALIBRATION FREQUENCY

Field equipment is calibrated according to the manufacturers directions. Calibrations are performed for each sample event.

Laboratory equipment is calibrated according to the manufacturers directions and is consistent with the approved analytical method utilized. In general, laboratory instruments are calibrated once each day with the calibration curve, and checked periodically throughout the analytical run.

Please refer to Envirolab's Generic QAP, Section 6, Tables 6.1 for field equipment and Table 6.2 for laboratory equipment.

9.0 ANALYTICAL PROCEDURES

All procedures are referenced in Section 3.1.

10.0 DATA REDUCTION, VALIDATION AND REPORTING

Please refer to Envirolab's Generic QAP Section 8, pages 1 through 3.

10.1 Data Reduction

The process of converting raw data to sample concentration in the appropriate units is accomplished by the analyst responsible for the work. The specific calculation involved are described in Envirolab's Generic QA Plan.

GC and GC/MASS SPEC procedures incorporate automatic quantitation routines using known internal standards and surrogate standards. All parameters within the individual EPA methods (ie 625) are compared to known internal standards. This comparison yields an analyte relative response factor. This analyte relative response factor is compared to a standard relative repsonse factor of a standard run during that day. This comparison multiplied by the standard concentration yield the sample analyte concentration. Surrogate standards are analytes of known concentrations that are added to the samples before the extractions begin.The surrogate standards are used to calculate the extraction efficiency, (recovery) of the procedure. Internal standards are not extracted but are added to the extracts before the instrumental analyses begins. G.C. Automatic Quantitation is by Nelson Analytical while GC/MS is Finnigans Auto Quant routine. ABC's data reduction involves counting colonies and correcting for dilutions used, or counting MPN tubes with gas formation and using the MPH Tables and correcting for the dilutions used.

10.2 Data Validation

The data generated by the analyst is reviewed at two different stages of the data flow. The analyst is responsible for ascertaining the correctness of all calculations performed in his/her area. Prior to submitting the data to report generation, the data and associated QC information is checked by the QA Manager to verify consistency and compliance with control ranges.Results are not acceptable if QC (spiked and duplicated samples) are outside ± 3 S.D. from the mean. All analyses include controls and/or spikes and/or surrogate and internal standards that must fall within ± 3 S.D. for the analyses to be deemed valid.

10.3 Data Reporting

Data reporting is accomplished by using a key punch operator to enter data from test sheets completed by the analysts into a commercial lab data management software package. The report

generated is checked against the master log-in sheet for accuracy and any discrepancies are resolved by the QA Manager or Lab Manager. All Final reports will be generated by Envirolab and sent to the project manager. The QA Reports will also be generated by Envirolab.

11.0 INTERNAL QUALITY CONTROLS CHECKS

Please refer to Envirolab's generic Quality Assurance Plan- Section 9, Revision 1, Feb 2, 1988, pages 1 through 4.

11.1 FIELD ACTIVITIES

Measures to ensure the quality of the field samples collected have been described throughout the document. In summary these measures include:

- Pre and Post Sampling Organizational Meetings
- Field Equipment Checks
- Preparation of Trip Blanks
- Sampling Instructions and the use of Approved Methods
- Collection of Field Blanks and Equipment Blanks at a rate of at least 5%, or at least once per sampling trip.
- Collection of Replicate samples

11.2 LABORATORY ACTIVITIES

To ensure reliable, accurate, and reproducible data, the laboratory will utilize strict internal quality control checks as follows:

- Batch Duplicates
- Batch Spikes
- Performance Samples
- Calibration and Method Check Samples, (From EPA or NBS)
- Blanks
- Reagent Checks

G.C., GC/MS, Atomic Absorption, and wet chemistry Quality Control Checks are in Envirolab's generic QAP Section 9, 6.2.1. through 6.2.7. All standards are purchased from Supelco, CMS, Fisher, ChemService and are analytical grade or better. Quality control samples are from EPA Quality Assurance. Documentation of Q.C. Checks including standards and controls (spikes, duplicates, EPA control samples) are incorporated into QC charts and tables, and also in each method workbook. The QA officer reviews all documentation and if acceptable, initials the workbook page, or the analyses must be redone.

12.0 PERFORMANCE AND SYSTEM AUDITS

12.1 FIELD SYSTEM AUDITS

The QA office and the project manager may make routine visits to project sites to evaluate the performance of field personnel and general field operations and progress. They will observe the performance of the field operations personnel during each kind of activity. A formal systems audit of field operations personnel by the project QA officer will be performed,once every six months and a field audit report of the sampling team will be maintained on file by Envirolab.The audit will follow the Field Audit form obtained from DER Quality Assurance Section. The audit closest to this project date will be submitted to the Project Manager.

12.2 LABORATORY SYSTEMS AUDIT

A laboratory systems audit is routinely conducted monthly by Envirolab. These audits assure that systems and operational capability is maintained and test methodology and quality control measures are being followed as specified in the laboratory written standard operating procedures (SOP) and generic Quality Assurance Plans (QAP). The audit is initiated by the QA officer by sending blind samples through the Laboratory that only the QA officer knows the true value. Compliance to extraction and analyses times, plus qualitative and quantitative criteria are as certained with these samples.

12.3 PERFORMANCE EVALUATION AUDITS

A performance evaluation (PE) audit is an audit performed to evaluate a laboratory's ability to obtain an accurate and precise result in the analysis of known check samples by a specific analytical method. PE audits may include a review of all raw data developed by the laboratory and not reported and the submission by the Project Manager of blank spiked check samples for the analysis of the parameters in question. These check samples for the analysis of the parameters in question. These check samples may be submitted disguised as field samples.In which case, the laboratory will not know the purpose of the samples or the samples may be obvious (known) check samples (EPA or NBS traceable).

PE Audits also will be conducted by reviewing the laboratory's results from "round-robin" certification testing, and/or EPA performance evaluation samples, which occurs four times a year. An additional component of PE audits includes the review and evaluation of raw data generated from the analysis of PE samples

and actual field samples. that may be in question.

More detail concerning laboratory initiated audits can be found in Section 10.0 of Envirolab's Generic QA Plan,pages 1 through 4.

13.0 PREVENTIVE MAINTENANCE

Please refer to Envirolab's Generic QAP Section 2, pages 1 - 3.

13.1 FIELD EQUIPMENT

All field instruments are checked in the laboratory prior to each use. In the case of instrument failure, routine maintenance can be accomplished in the lab. In the event routine procedures do not restore instrument performance, the device will be repaired by qualified service personnel. Extra equipment will be bought by Envirolab as spares. In the event that the field meters are nonoperable, the sampler will call Envirolab's Laboratory Manager to inform the manager of the problem. The manager will decide if the sampling is to be rescheduled, or to continue. If the sampling continues, all deviations will be documented and submitted with the sample results.

Periodic maintenance of instrumentation is carried out by the individual analysts. This may include replacement of seals, frits, septa, O rings and other disposable parts. Major repairs are carried out by authorized service personnel. A service contract is maintained on all GC, GC/MS and AA equipment currently in use.

14.0 ASSESSMENT OF DATA PRECISION, ACCURACY, AND COMPLETENESS

Data completeness will be expressed both as a percentage of total tests conducted that are deemed valid and as the percentage of the total tests required in the scope of work that are deemed valid.

Methods for assessing data precision, accuracy, and completeness by Envirolab are described in Section 12.0, pages 1 through 6 of Envirolab's Generic QA Plan.

Accuray is unable to be determined for the fecal coliform due to the nonavailability of Quantifiable Standards.

15.0 CORRECTIVE ACTION

During the course of any investigation, the field personnel are responsible for seeing that field instruments are functioning properly and that work progresses satisfactorily. The field personnel also are responsible for ensuring performance of routine preventive maintenance and quality control procedures, thereby ensuring collection of valid field data.

If a problem is detected by the field personnel, the project manager shall be notified immediately, at which time the problem will be investigated further and corrective action will begin. Similarly, if a problem is identified during a routine audit by the project Quality Assurance Officer or the FDER QA Officer, an immediate investigation will be undertaken and corrective action deemed necessary will be taken as early as possible.

Laboratory quality control is the responsibility of both the laboratory analysts and the QA Manager. The analysts are responsible for monitoring the quality of reagents, solvents, and gases while assuring that the appropriate sample handling procedures, preservatives and containers are used based on the data required. Analysts are also responsible for the status of instruments under their care.

The QA Manager is responsible for monitoring compliance with proper chain of custody and log-in procedures as well as reviewing the QA data for compliance with accepted QC ranges. The QA Manager is also responsible for reviewing the final data package for completeness and consistency of results.

Any deviations or problems encountered with instrumentation are to be reported immediately to the Laboratory Manager. He shall recommend corrective action, initiate instrument diagnosis and the necessity of repair. Any other problems with sample analysis and/or the accuracy and completeness of a project report will also be directed to the Laboratory Managers attention. The necessity of split samples or a second analysis shall be the Laboratory Managers decision.

16.0 QUALITY ASSURANCE REPORT TO MANAGEMENT

16.1 INTERNAL REPORTS

The Quality Assurance Officer will provide status reports to the Project Manager. The reports may address the following:

- quality assurance activities and quality of collected data
- equipment calibration and preventative maintenance activities
- results of data precision and accuracy calculations
- evaluation of data completeness
- QA problems and recommended and/or implemented corrective actions
- QA audit findings

16.2 REPORT TO FDER

In accordance with DER-QA-001/85, Envirolab will provide quality assurance reports to the appropriate FDER district office on a quarterly basis if required for the length of the project. These reports will consist of applicable portions of Envirolab's internal QA reports. A final quality assurance Summary Report will be submitted at the conclusion of the project if necessary.

17.0 PERSONNEL QUALIFICATIONS

Resumes of Envirolab personnel are found in Envirolab's generic QAP Section 15.

NITROGEN, NITRATE-NITRITE

Method 353.2 (Colorimetric, Automated, Cadmium Reduction)

STORET NO. Total 00630

1. Scope and Application
   1.1 This method pertains to the determination of nitrite singly, or nitrite and nitrate combined in surface and saline waters, and domestic and industrial wastes. The applicable range of this method is 0.05 to 10.0 mg/l nitrate-nitrite nitrogen. The range may be extended with sample dilution.
2. Summary of Method
   2.1 A filtered sample is passed through a column containing granulated copper-cadmium to reduce nitrate to nitrite. The nitrite (that originally present plus reduced nitrate) is determined by diazotizing with sulfanilamide and coupling with N-(1-naphthyl)-ethylenediamine dihydrochloride to form a highly colored azo dye which is measured colorimetrically. Separate, rather than combined nitrate-nitrite, values are readily obtained by carrying out the procedure first with, and then without, the Cu-Cd reduction step.
3. Sample Handling and Preservation
   3.1 Analysis should be made as soon as possible. If analysis can be made within 24 hours, the sample should be preserved by refrigeration at 4°C. When samples must be stored for more than 24 hours, they should be preserved with sulfuric acid (2 ml conc. H_2SO_4 per liter) and refrigeration.
   Caution: Samples for reduction column must not be preserved with mercuric chloride.
4. Interferences
   4.1 Build up of suspended matter in the reduction column will restrict sample flow. Since nitrate-nitrogen is found in a soluble state, the sample may be pre-filtered.
   4.2 Low results might be obtained for samples that contain high concentrations of iron, copper or other metals. EDTA is added to the samples to eliminate this interference.
   4.3 Samples that contain large concentrations of oil and grease will coat the surface of the cadmium. This interference is eliminated by pre-extracting the sample with an organic solvent.
5. Apparatus
   5.1 Technicon AutoAnalyzer (AAI or AAII) consisting of the following components:
      5.1.1 Sampler.
      5.1.2 Manifold (AAI) or analytical cartridge (AAII).
      5.1.3 Proportioning Pump
      5.1.4 Colorimeter equipped with a 15 mm or 50 mm tubular flow cell and 540 nm filters.
      5.1.5 Recorder.

Approved for NPDES and SDWA
Issued 1971
Editorial revision 1974 and 1978

5.1.6 Digital printer for AAII (Optional).

6. Reagents

MCB Reagents

6.1 Granulated cadmium: 40–60 mesh (E M Laboratories, Inc., 500 Exec. Blvd., Elmsford, NY 10523, Cat. 2001 Cadmium, Coarse Powder).

6.2 Copper-cadmium: The cadmium granules (new or used) are cleaned with dilute HCl (6.7) and copperized with 2% solution of copper sulfate (6.8) in the following manner:

6.2.1 Wash the cadmium with HCl (6.7) and rinse with distilled water. The color of the cadmium so treated should be silver.

6.2.2 Swirl 10 g cadmium in 100 ml portions of 2% solution of copper sulfate (6.8) for five minutes or until blue color partially fades, decant and repeat with fresh copper sulfate until a brown colloidal precipitate forms.

6.2.3 Wash the cadmium-copper with distilled water (at least 10 times) to remove all the precipitated copper. The color of the cadmium so treated should be black.

6.3 Preparation of reduction column AAI: The reduction column is an 8 by 50 mm glass tube with the ends reduced in diameter to permit insertion into the system. Copper-cadmium granules (6.2) are placed in the column between glass wool plugs. The packed reduction column is placed in an up-flow 20° incline to minimize channeling. See Figure 1.

6.4 Preparation of reduction column AAII: The reduction column is a U-shaped, 35 cm length, 2 mm I.D. glass tube (Note 1). Fill the reduction column with distilled water to prevent entrapment of air bubbles during the filling operations. Transfer the copper-cadmium granules (6.2) to the reduction column and place a glass wool plug in each end. To prevent entrapment of air bubbles in the reduction column be sure that all pump tubes are filled with reagents before putting the column into the analytical system.

NOTE 1: A 0.081 I.D. pump tube (purple) can be used in place of the 2 mm glass tube.

6.5 Distilled water: Because of possible contamination, this should be prepared by passage through an ion exchange column comprised of a mixture of both strongly acidic-cation and strongly basic-anion exchange resins. The regeneration of the ion exchange column should be carried out according to the manufacturer's instructions.

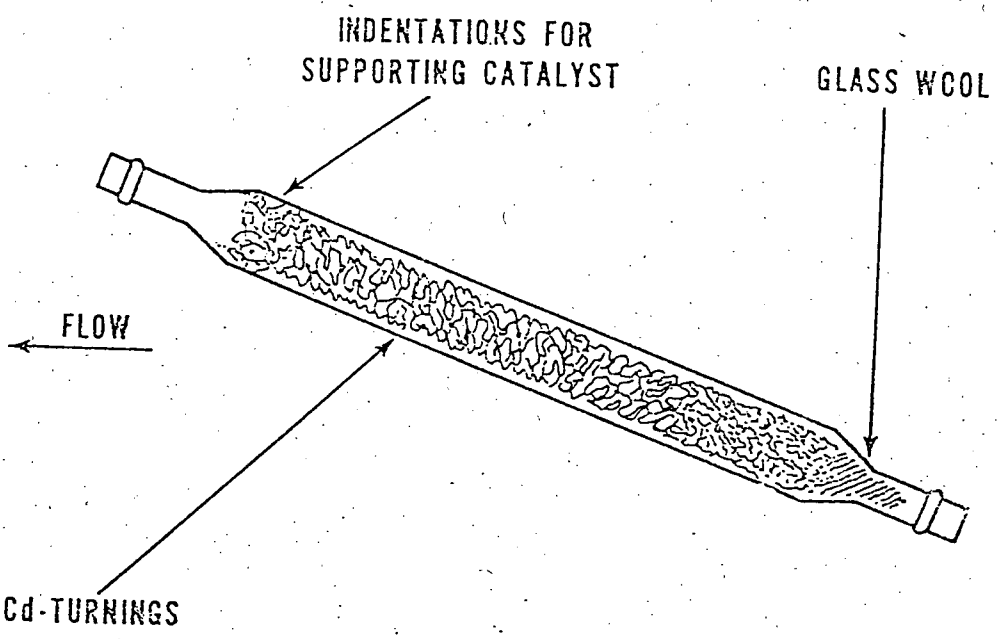
6.6 Color reagent: To approximately 800 ml of distilled water, add, while stirring, 100 ml conc. phosphoric acid, 40 g sulfanilamide, and 2 g N-1- naphthylethylenediamine dihydrochloride. Stir until dissolved and dilute to 1 liter. Store in brown bottle and keep in the dark when not in use. This solution is stable for several months.

6.7 Dilute hydrochloric acid, 6N: Dilute 50 ml of conc. HCl to 100 ml with distilled water.

6.8 Copper sulfate solution, 2%: Dissolve 20 g of $CuSO_4 \cdot 5H_2O$ in 500 ml of distilled water and dilute to 1 liter.

6.9 Wash solution: Use distilled water for unpreserved samples. For samples preserved with H_2SO_4, use 2 ml H_2SO_4 per liter of wash water.

6.10 Ammonium chloride–EDTA solution: Dissolve 85 g of reagent grade ammonium chloride and 0.1 g of disodium ethylenediamine tetracetate in 900 ml of distilled water. Adjust the pH to 8.5 with conc. ammonium hydroxide and dilute to 1 liter. Add 1/2 ml Brij-35 (available from Technicon Corporation).



TILT COLUMN TO 20° POSTION

FIGURE 1. COPPER CADMIUM REDUCTION COLUMN
(1 1/2 ACTUAL SIZE)

6.11. Stock nitrate solution: Dissolve 7.218 g KNO_3 and dilute to 1 liter in a volumetric flask with distilled water. Preserve with 2 ml of chloroform per liter. Solution is stable for 6 months. 1 ml = 1.0 mg NO_3–N.

6.12 Stock nitrite solution: Dissolve 6.072 g KNO_2 in 500 ml of distilled water and dilute to 1 liter in a volumetric flask. Preserve with 2 ml of chloroform and keep under refrigeration. 1.0 ml = 1.0 mg NO_2–N.

6.13 Standard nitrate solution: Dilute 10.0 ml of stock nitrate solution (6.11) to 1000 ml. 1.0 ml = 0.01 mg NO_3-N. Preserve with 2 ml of chloroform per liter. Solution is stable for 6 months.

6.14 Standard nitrite solution: Dilute 10.0 ml of stock nitrite (6.12) solution to 1000 ml. 1.0 ml = 0.01 mg NO_2-N. Solution is unstable; prepare as required.

6.15 Using standard nitrate solution (6.13), prepare the following standards in 100.0 ml volumetric flasks. At least one nitrite standard should be compared to a nitrate standard at the same concentration to verify the efficiency of the reduction column.

Conc., mgNO_2–N or NO_3-N/l	ml Standard Solution/100 ml
0.0	0
0.05	0.5
0.10	1.0
0.20	2.0
0.50	5.0
1.00	10.0
2.00	20.0
4.00	40.0
6.00	60.0

NOTE 2: When the samples to be analyzed are saline waters, Substitute Ocean Water (SOW) should be used for preparing the standards; otherwise, distilled water is used. A tabulation of SOW composition follows:

NaCl – 24.53 g/l	$MgCl_2$ – 5.20 g/l	Na_2SO_4 – 4.09 g/l
$CaCl_2$ – 1.16 g/l	KCl – 0.70 g/l	$NaHCO_3$ – 0.20 g/l
KBr – 0.10 g/l	H_3BO_3 – 0.03 g/l	$SrCl_2$ – 0.03 g/l
NaF – 0.003 g/l		

7. Procedure

7.1 If the pH of the sample is below 5 or above 9, adjust to between 5 and 9 with either conc. HCl or conc. NH_4OH.

7.2 Set up the manifold as shown in Figure 2 (AAI) or Figure 3 (AAII). Note that reductant column should be in 20° incline position (AAI). Care should be taken not to introduce air into reduction column on the AAII.

7.3 Allow both colorimeter and recorder to warm up for 30 minutes. Obtain a stable baseline with all reagents, feeding distilled water through the sample line.

NOTE 3: Condition column by running 1 mg/l standard for 10 minutes if a new reduction column is being used. Subsequently wash the column with reagents for 20 minutes.

7.4 Place appropriate nitrate and/or nitrite standards in sampler in order of decreasing concentration of nitrogen. Complete loading of sampler tray with unknown samples.

7.5 For the AAI system, sample at a rate of 30/hr, 1:1. For the AAII, use a 40/hr, 4:1 cam and a common wash.

7.6 Switch sample line to sampler and start analysis.

8. Calculations

8.1 Prepare appropriate standard curve or curves derived from processing NO_2 and/or NO_3 standards through manifold. Compute concentration of samples by comparing sample peak heights with standard curve.

9. Precision and Accuracy

9.1 Three laboratories participating in an EPA Method Study, analyzed four natural water samples containing exact increments of inorganic nitrate, with the following results:

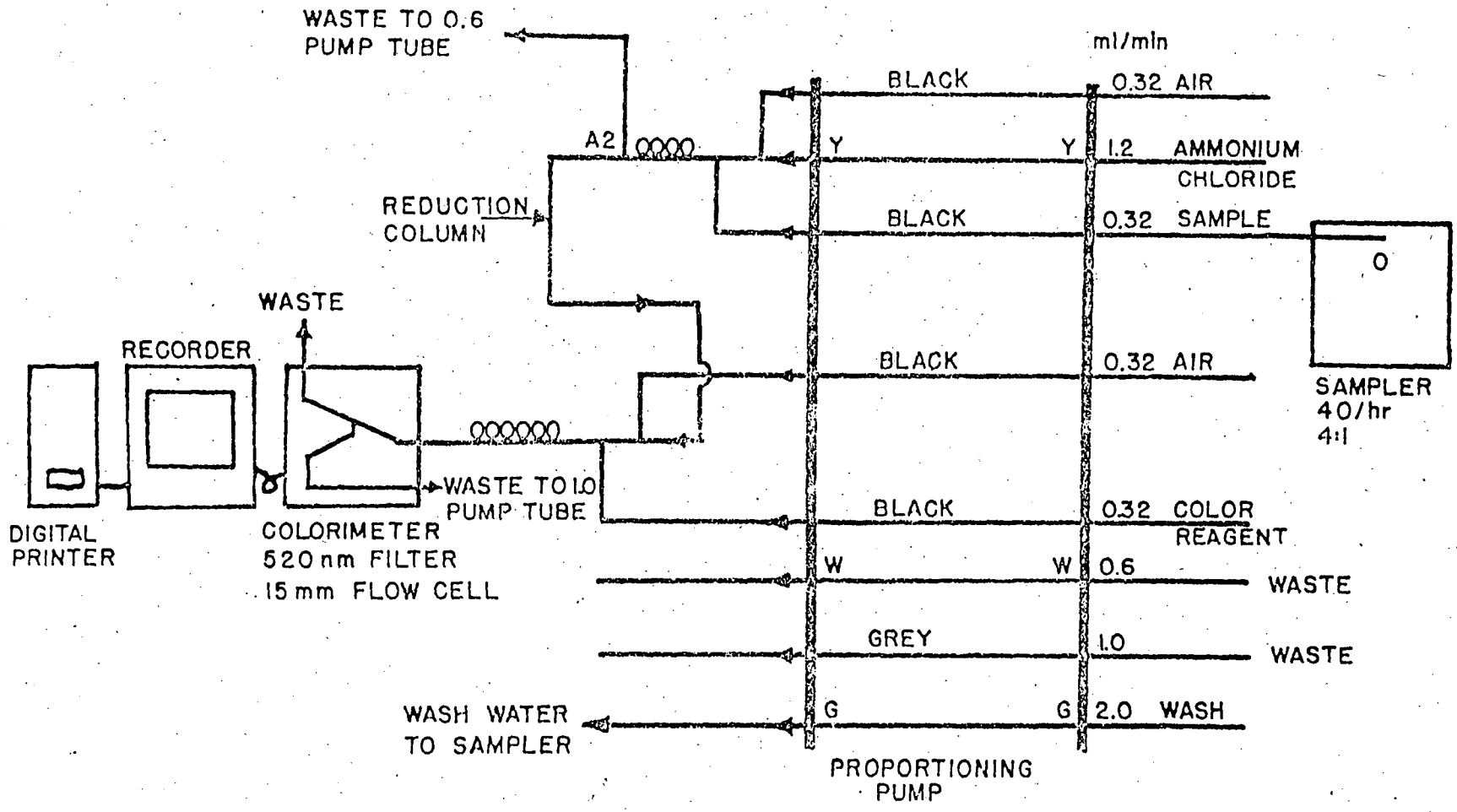
Increment as Nitrate Nitrogen mg N/liter	Precision as Standard Deviation mg N/liter	%RSD	Accuracy as Bias, %	Bias, mg N/liter
0.29	0.012	4.13	+ 5.75	+0.017
0.35	0.092	26.2	+18.10	+0.063
2.31	0.318	13.8	+ 4.47	+0.103
2.48	0.176	7.10	− 2.69	−0.067

Avg 6.41

$\overline{RSD} = 12.87.$

Bibliography

1. Fiore, J., and O'Brien, J. E., "Automation in Sanitary Chemistry – parts 1 & 2 Determination of Nitrates and Nitrites", Wastes Engineering 33, 128 & 238 (1962).
2. Armstrong, F. A., Stearns, C. R., and Strickland, J. D., "The Measurement of Upwelling and Subsequent Biological Processes by Means of the Technicon AutoAnalyzer and Associated Equipment", Deep Sea Research 14, p 381–389 (1967).
3. Annual Book of ASTM Standards, Part 31, "Water", Standard D1254, p 366 (1976).
4. Chemical Analyses for Water Quality Manual, Department of the Interior, FWPCA, R. A. Taft Sanitary Engineering Center Training Program, Cincinnati, Ohio 45226 (January, 1966).
5. Annual Book of ASTM Standards, Part 31, "Water", Standard D 1141–75, Substitute Ocean Water, p 48 (1976).



353.2-7

FIGURE 3 NITRATE-NITRITE MANIFOLD AA II

METHOD 8240

GAS CHROMATOGRAPHY/MASS SPECTROMETRY FOR VOLATILE ORGANICS

1.0 SCOPE AND APPLICATION

1.1 Method 8240 is used to determine volatile organic compounds in a variety of solid waste matrices. This method is applicable to nearly all types of samples, regardless of water content, including ground water, aqueous sludges, caustic liquors, acid liquors, waste solvents, oily wastes, mousses, tars, fibrous wastes, polymeric emulsions, filter cakes, spent carbons, spent catalysts, soils, and sediments. The following compounds may be determined by this method:

Analyte	CAS No.[b]	Appropriate Technique	
		Purge-and-Trap	Direct Injection
Acetone	67-64-1	pp	a
Acetonitrile	75-05-8	pp	a
Acrolein	107-02-8	pp	a
Acrylonitrile	107-13-1	pp	a
Allyl alcohol	107-18-6	pp	a
Allyl chloride	107-05-1	a	a
Benzene	71-43-2	a	a
Benzyl chloride	100-44-7	pp	a
Bromoacetone	598-31-2	pp	a
Bromochloromethane (I.S.)	74-97-5	a	a
Bromodichloromethane	75-27-4	a	a
4-Bromofluorobenzene (surr.)	460-00-4	a	a
Bromoform	75-25-2	a	a
Bromomethane	74-83-9	a	a
2-Butanone	78-93-3	pp	a
Carbon disulfide	75-15-0	pp	a
Carbon tetrachloride	56-23-5	a	a
Chlorobenzene	108-90-7	a	a
Chlorobenzene-d_5 (I.S.)	108-90-7	a	a
Chlorodibromomethane	124-48-1	a	a
Chloroethane	75-00-3	a	a
2-Chloroethanol	107-07-3	pp	a
2-Chloroethyl vinyl ether	110-75-8	a	a
Chloroform	67-66-3	a	a
Chloromethane	74-87-3	a	a
Chloroprene	126-99-8	a	pc
3-Chloropropionitrile	562-76-7	ND	pc
1,2-Dibromo-3-chloropropane	96-12-8	pp	a
1,2-Dibromoethane	106-93-4	a	a
Dibromomethane	74-95-3	a	a
1,4-Dichloro-2-butene	764-41-0	pp	a
Dichlorodifluoromethane	75-71-8	a	a
1,1-Dichloroethane	75-34-3	a	a

envirolab

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME					NO. OF CON-TAINERS							REMARKS
SAMPLERS: (Signature)													
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION								

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	

BEST AVAILABLE COPY

THE TAMPA TRIBUNE
Thursday, March 8, 1990
Tampa Bay

PALM TREE POLITICS
Howard Troxler

Sumter County compost tied up in waiting game

This is a story of how to get good use out of garbage, how to get lost in bureaucracy, and how to get what you want out of Tallahassee.

A couple of years ago Sumter County started turning its garbage into compost.

Yes, compost. It's done in other states, but no one in Florida tried until Sumter County started doing it in May 1988.

When raw garbage comes to the county landfill, any dangerous materials and large appliances are removed.

Then it's culled for some of the things that can be recycled.

Then it's shredded and zapped with a special enzyme.

The end product is compost. Nurserymen and agribusiness would line up to buy the stuff.

So for almost two years, Sumter County has been converting its garbage to compost, at the rate of 50 to 60 tons a day.

This drastically reduces the amount of garbage that has to be buried, which is the way most places get rid of it. The Legislature has been trying to get cities and counties to bury less garbage in landfills.

Mountains of compost

There's a slight hitch, however. Since the beginning, Sumter has been trying to get the state Department of Environmental Regulation (DER) to approve testing procedures that will allow it to sell its compost.

The county has submitted five applications, each of which has been shot back, county officials say.

Meanwhile, Sumter County is up to its

Neighbors say McK

By NADINE SMITH
Tribune Staff Writer

TAMPA — The way Cheryl Warren sees it, there were two victims last December in her Riverview Terrace neighborhood: a 1-year-old boy who was paralyzed by a bullet and the teen-ager convicted of firing the gun.

Sedrick L. McKinney, now 18, was convicted last year of attempted manslaughter and sentenced to four years in a youthful offender facility. But less than seven months later, McKinney was released.

Police arrested him again last month for violating his probation, but rel days later because the state D Correction miscalculated his s Kinney was arrested again lat afternoon after officials disco ror.

While his release genera

■ REACTION
Radio talk show listeners outra

■ MORE TIME
Panel approves bill to toughen time/ 3B

Pesticide poisoning fine raised

New complaints issued to farm

By CAROLE TARRANT
Tribune Staff Writer

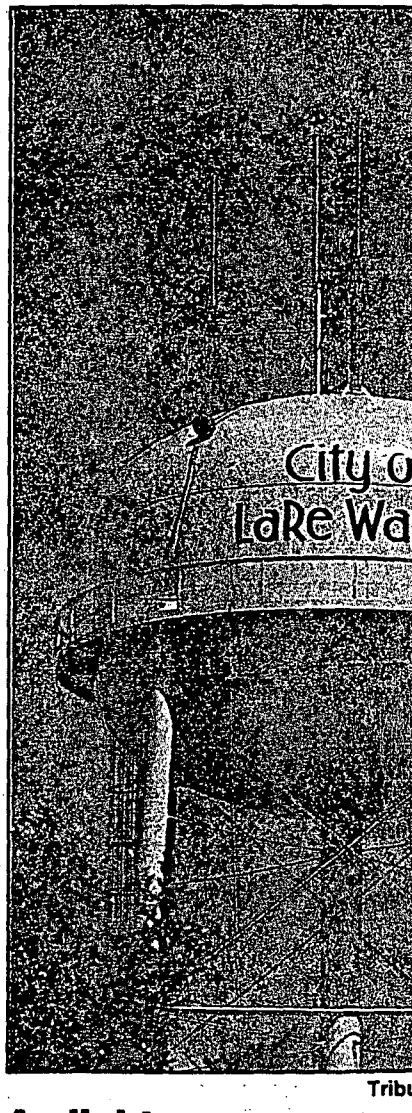
TAMPA — Managers of a south Hillsborough County farm misled or lied to investigators about an incident in which about 75 migrant workers were exposed to a toxic pesticide, state agriculture officials said Wednesday.

The state Department of Agriculture and Consumer Services is seeking $12,000 in fines from Goodson Farms of Balm, where workers in November became ill after venturing too early into a cauliflower field sprayed with the pesticide Phosdrin.

The proposed penalty, originally $5,000, was increased after the state department recently added eight counts to its complaint, said Bob Moore, a state supervisor of pesticide compliance.

The new counts assert farm owner Donn Goodson and three other employees "made false or misleading statements to us," Moore said.

In addition to the fines, Goodson Farms also faces a $2,000 pen-



Tribu

A slight error

Robert Wright, an employee Sandblasting, finishes painting c

It stands in piles around the county landfill. Because the compost isn't making any money for the county, the county may have to raise its charges to keep the operation running.

Perhaps the DER is simply doing its best to protect the rest of us from nasty stuff in Sumter County's compost. Perhaps Sumter is mistaken when it says its product is perfectly safe.

Funny thing, however. While little Sumter has been wrestling with the bureaucracy for two years, it took big Dade County only 60 days to win DER approval when it opened its own compost plant a year ago.

Building 'relationships'

Dade has signed a contract with a private company called Agripost Inc. to convert 12 percent of its solid waste into compost. Agripost can handle up to 800 tons a day.

A check of state records in Tallahassee shows that Agripost has hired three lobbyists, including George Sheldon, a former state representative with a strong environmental record.

Sheldon

"It almost sounds too good to be true," Sheldon says in praise of the compost technology. He believes it is a fine way to reduce Florida's solid-waste problem.

Sheldon says he didn't do any lobbying on behalf of Agripost in the DER. Even if getting the permit took only 60 days, the company has been working on the project for years and has "built relationships" with the government, he said.

Asking for help

Sumter County Administrator Bernard Dew says he's puzzled about why it has taken so long to win approval. Maybe his people haven't built the same good "relationships" with the DER.

"We would have liked to have seen a team approach to help us implement this process," Dew said Wednesday. "We've asked them for help. We've written letters, asking them to visit the site."

But no ranking DER official has visited Sumter. Now, 22 months later, an administrator from the Tampa DER office has agreed to visit on March 16, but there's still no telling whether or when approval will be granted.

No one from the DER could be reached for comment Wednesday. The head of the Tampa office was out of town. An engineer working on the case didn't return a telephone message. The DER spokesman in Tallahassee was out all day, too.

Probably out doing good work for the people somewhere.

Safety and Health Administration (OSHA), Tampa area OSHA director Larry Falck said Wednesday.

Goodson Farms manager Henry Almand wouldn't comment Wednesday.

Neil Roddenbery, a Lakeland attorney representing Goodson Farms, said his client was innocent and would appeal the state and federal fines.

Phosdrin, the brand name for the pesticide mavinphos, routinely is used shortly before harvesting to destroy insects by attacking their nervous systems. Workers exposed to the pesticide complained of dizziness, vomiting and breathing problems.

The laborers came in contact with the pesticide when they entered the still-wet field less than 24 hours after the spraying, Moore said.

The label on the Phosdrin used stated a 48-hour preharvest interval must be heeded, he said.

Goodson Farms also was cited for improper disposal of the pesticide waste. After the 5-gallon cans of Phosdrin were emptied into spray tanks, workers rinsed the cans' interiors, dumping the residue on the ground, Moore said.

Besides Goodson, farm manager Almand, his nephew, Henry Almand Jr., and insecticide consultant Byron Hodgin also were cited in the complaint for misleading or lying to investigators, Moore said.

See OFFICIALS, Page 8B

error when they were working on the tow

Rescuers try to save beach

Volunteers and staff members from the rine Science Center attend to an emaciate whale that had washed ashore Wednesda

Dean's resignation to cost USF $200,000 over 5 months

By TODD SIMMONS
Tribune Staff Writer

TAMPA — In exchange for resigning as University of South Florida medical school dean, Wilton Bunch will be paid $200,000 over the next five months.

That's nearly $130,000 more than Bunch would have earned had he stayed on as dean through the remaining five months of his employment contract.

During his remaining time as an orthopedics professor, Bunch will be one of the highest paid employees in the state university system.

Bunch resigned Monday amid unrest in the medical school. Increasing numbers of professors had called for his resignation in recent weeks, upset over a lingering dispute between USF administrators and former school orthopedists.

The agreement includes paying him $70,167 — the remaining portion of his $165,850 annual salary as dean. He'll receive $129,832 more from a private fund bankrolled by school doctors' practices.

Bunch has not actively practiced since coming to USF in late 1988.

USF President Francis Borkowski and Vice President for H ald Kaufman agreed to the deal faculty physicians or the private rectors.

School Executive Vice Pres said Borkowski and Kaufman di from the University Medical S (UMSA) because the money will account controlled by Kaufman.

UMSA bylaws permit expendi $100,000 from the account, kno fund," without prior board appro

Bunch will receive his salary i

See RESI

BEST AVAILABLE COPY

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee

To: _____ Location: _____
To: _____ Location: _____
To: _____ Location: _____
From: _____ Date: _____

Interoffice Memorandum

TO: Dale Twachtmann

FROM: Rick Garrity

DATE: March 2, 1990

SUBJECT: Sumter County Composting

I have looked into the Sumter County Composting issues. The County has a construction permit (permit issued 1987 - before the compost rule) which allows them to operate a compost facility. The idea was to produce compost under the construction permit, do testing of the compost, evaluate the results and if appropriate allow the compost to leave the site.

A long time period has indeed passed in the approval of the distribution of Sumter County's compost. The problem has been the required Quality Assurance Plan for the sampling and testing of the compost. We had required the County in 1987 (as part of the original permit) to get an "approved" Quality Assurance Plan before testing to ensure that all test methods were properly conducted and that the results were valid. The County submitted the Quality Assurance Plan for review by the Tallahassee Quality Assurance Section in November, 1988 and received a 1 day turnaround (a quick verbal review). The Department again received the plan in February, 1989 - it was withdrawn by the County the same month and resubmitted in July. In September, comments were sent back to the County and they responded in January, 1990.

On February 6, 1990, we received another incompleteness statement from the QA Section (attached) which we forwarded to Sumter County. Obviously, there is something amiss here. Clabe has talked recently with Rick Wilkins about it and they are going to contact the County to reduce the number of parameters measured to be consistent with the new compost rule. I will also ask Clabe to set up a meeting between the County, Mimi Drew and Sylvia Labie to try to get the QA problems worked out. I'll also call the County to express our concern that the differences be worked out as quickly as possible.

RDG/kbfb

cc: Rick Wilkins
Mimi Drew
Clabe Polk

VII

For Routing To Other Than The Addressee

		Location:	
To:		Location:	
To:		Location:	
From:		Date:	

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

TO: Kim Ford, Engineer II
Southwest District, Tampa

THROUGH: Sylvia S. Labie, QA Officer
Quality Assurance Section

FROM: Leslee A. Williams, Env. Supr. II
Quality Assurance Section

DATE: February 6, 1990

D. E. R.
FEB 9 1990
SOUTHWEST DISTRICT
TAMPA

SUBJECT: Quality Assurance Review; 890344P-Sumter County Landfill, Rev 1;
Submitted by Envirolab, Inc.;

The subject document has been reviewed, and is being returned. The plan must be revised according to review comments in the attached review sheets and on annotated pages of the QA plan. Please make a copy of these comments available to the consultant. The revised document, addressing the review comments and needed corrections, must be resubmitted and approved before the initiation of sampling and analyses on this project.

If you have any questions concerning this matter, please let me know (SC 278-2796).

LAW/law

Attachments (2): annotated QAPP pages
QAPP review sheets

cc: Ms. Sylvia S. Labie

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

FAX TRANSMITTAL SHEET

3-2-90
Date

TO: Frank Walker ~~Dale Twachtmann~~

Dept.:

Phone:

FROM: Rick Garrity

Dept.: D.E.R., Tampa Office

Phone: 813-623-5561 or SunCom 552-7612 EXT.

OPERATOR: Anna Blank

Phone: 813-623-5561 or SunCom 552-7612 EXT. 377

SUBJECT: Sumter County Composting

TOTAL NUMBER OF PAGES, INCLUDING COVER PAGE: 3

RECEIVED BY:

Phone:

From the Desk of:
CLABE R. POLK

Kim
Victor 2/28/90

Rick Wilkins called about Sumter Co. He's trying to get the compost efforts off dead center.

He has convinced the Engineer to ask for a permit modification to make it consistent with the compost Rule. It will be a minor modification with no fee.

Please call him (Kim has #) and encourage him to do it.

get it in ASAP.

Also, they want to apply for a leachate treatment system permit. They are to keep it separate from the Compost modification.

Thx!

RP

Springstead Engineering, inc.
Consulting Engineers — Planners — Surveyors

727 South 14th Street
Leesburg, Florida 34748

Lake (904) 787-1414
Sumter (904) 793-3639
Fax (904) 787-7221

February 21, 1990

D.E.R.
FEB 23 1990
SOUTHWEST DISTRICT
TAMPA

Mr. Kim Ford, P.E.
Solid Waste Section
State of Florida
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7847

Re: Sumter County Landfill
FDER Permit No. SC60-132071
Volume Reduction and Solid Waste Composting
C-103

Dear Mr. Ford:

Sumter County requests that Florida Department of Environmental Regulation Permit No. SC60-132071 be modified to include the following items:

1. Treatment of leachate from the leachate holding pond via extended aeration and disposal of the effluent via percolation ponds. Plans, test results and design data for the proposed treatment and disposal system are enclosed.

2. Operating and testing requirements to be in accordance with FAC 17-709.

You indicated during our telephone conversation on Thursday, February 1, 1990 that you would consider these modifications to be major modifications requiring a $2,000 permit modification fee.

We do not consider these modifications to be major for the following reasons:

1. The solid waste composting process was new in Florida at the time the original permit was issued. FDER did not have any regulations addressing composting. Sumter County initiated the use of composting as an alternative to land filling solid waste with the stated goal of 100% recycling of solid waste. The composting process is an integral part of this goal.

leachate extended aeration ?

FDER has adopted regulations addressing the composting of solid waste, the testing of the composted material and the disposal of the compost since the Sumter County composting process was permitted and initiated. FAC 17-709.300 states that facilities which have submitted complete applications prior to the effective date of FAC 17-709 shall meet the requirements of the rule by October 1, 1992.

Sumter County does not consider a modification of the permit to comply with FDER regulations to be a major modification.

2. The treatment and disposal of leachate from the leachate holding pond was discussed and addressed during the permitting process. Data pertaining to the contaminants in leachate from the solid waste composting process was not available.

   Sumter County indicated that the leachate would be tested after initiation of the composting process and that a leachate treatment and disposal process would be designed and implemented. when?

   Sumter County tested the leachate from the composting process and determined that treatment via extended aeration would provide high quality effluent.

   Sumter County constructed an extended aeration plant, put the plant on line with the effluent returned to the leachate pond and tested the influent and effluent.

   This procedure was discussed with FDER and FDER was informed prior to implementation.

   Sumter County considers this to be a minor modification because it was considered during the permitting process with the understanding by FDER and Sumter County that the treatment and disposal of leachate would be incorporated when an effective method of treatment could be identified and implemented.

You indicated that the disposal of the compost generated to date would have to be addressed.

The compost generated to date will be mixed with incoming solid waste and run through the composting process a second time to comply with FAC 17-709.501(e). 510(6)(e)

Sumter County considers the modifications requested to be minor. Please advise us at your earliest convenience as to whether FDER considers the modifications to be minor or major. Please advise us of the reasons if the modifications are considered major.

Please do not hesitate to call me at (904) 787-1414 if you have any questions or require additional information.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C103L21290)

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

February 15, 1990

Mr. Paul Bradley
Springstead Engineering, Inc.
Post Office Box 448
Leesburg, Florida 33749-0448

Re: Leachate Overflow Structure to New Lined Cell
SC60-132071, Sumter County

Dear Mr. Bradley:

Pursuant to your submittal, I have no objection to the proposed leachate overflow structure from the lined leachate holding pond to the new lined cell, as received by our office on February 7, 1990. This change and any others are to be shown on "Record Drawings" submitted along with the Certification of Construction Completion. Please be prepared to explain construction procedures for this structure following construction, in order to confirm that the existing new lined cell and lined leachate holding pond liners were not damaged.

Sincerely,

Ernest G. Weeks

Ernest G. Weeks
Solid Waste Section
Division of Waste Management

EGW/ab

cc: Gary Breeden, Sumter County
Kim Ford, P.E., DER Tampa

VSA

SPRINGSTEAD ENGINEERING, INC.

Consulting Engineers - Planners - Surveyors

Sign of Excellence

727 S. 14th ST.
LEESBURG, FLA. 34748
(904) 787-1414
(904) 793-3639

TO Department of Environmental Regulations
Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

DATE 2/7/90 JOB NO. C-103.3

ATTENTION Kim Ford

RE Sumter County Closure
Phase 3

GENTLEMEN:

WE ARE SENDING YOU XX **Attached** ☐ under separate cover via _____ **the following items:**

☐ **Shop drawings** ☐ **Prints** ☐ **Plans** ☐ **Samples** ☐ **Specifications**

☐ **Copy of letter** ☐ **Change order** ☐ _____

Copies	Date	No.	Description
1			Certification of Construction Completion
4			Signed & Sealed Record Drawings for Closure of Phase 3 Landfill Sheet 1 of 1.

THESE ARE TRANSMITTED as checked below:

☐ **For approval** ☐ **Approved as submitted** ☐ **Approved for payment**

XX **For your use** ☐ **Approved as noted** ☐ **Resubmit** _____ **copies for approval**

☐ **As requested** ☐ **Returned for corrections**

☐ **For review and comment** ☐ _____

☐ **Material and/or prints returned after loan to us**

D. E. R.

FEB 7 1990

SOUTHWEST DISTRICT
TAMPA

REMARKS

COPY TO

SIGNED: Paul Bradley
Paul Bradley, P.E.

rl

MEMBER OF THE NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

D.E.R.
FEB 7 1990
SOUTHWEST DISTRICT
TAMPA

FOR APPLICATION TO OPERATE ONLY RESOURCE RECOVERY AND MANAGEMENT FACILITY

CERTIFICATION OF CONSTRUCTION COMPLETION

DER Construction Permit No.: SF60-146475 County: Sumter

Name of Project: Sumter County Landfill - Phase III Closure

Name of Owner: Sumter County Commissioners, 209 N. Florida St., Bushnell, Fla. 33513

Name of Engineer: Springstead Engineering, Inc., 727 S. 14th St., Leesburg, Fla. 34748

Type of Project: Closure of Phase III, Installation of Gas Vents & Synthetic Liner

Cost: Estimated $ 79,000.00 Actual $ 63,681.10

Site Design: Quantity: 105 ton/day Site Acreage: 10+ Acres

Population: 30,000 Dumping Fee: $ 16.00 Ton

Deviations from Plans and Application Approved by DER: All deviations are shown or noted on the record drawings

Water Monitoring Data Submitted to DER. Date: December 1986, Quarterly thereafter

Address and Telephone No. of Site: Sumter County Public Works Dept., 222 East McCollum Ave., Bushnell, Florida, 33513; Landfill located approximately one (1) mile east of I-75 on C.R. 470. Phone: (904)793-3368

Name(s) of Site Supervisor: Garry Breeden, Tommy Hurst

Date Site Inspection is requested: At the convenience of FDER. We would appreciate advance notification in order that we can be present during the inspection.

This is to certify that, with the exception of deviations noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: SF60-146475 Dated: July 1, 1988

Date: 2-7-90

Signature of Professional Engineer

PAUL BRADLEY BREEDEN * STATE OF FLORIDA * REGISTERED

DER Form 17-7.130(2) Effective November 30, 1982

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

March 5, 1990

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

Re: Certification of Phase III Cell Closure
Permit No.: SF60-146475
Sumter County Class I Sanitary Landfill

Dear Mr. Breeden:

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

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

Sincerely,

Ernest G. Weeks
Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

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

SPRINGSTEAD ENGINEERING, INC.

Consulting Engineers – Planners – Surveyors

727 S. 14TH ST.
P.O. BOX 448
LEESBURG, FLA. 32749-0448
(904) 787-1414

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

Sign of Excellence

February 7, 1990

Mr. Kim Ford, P.E.
Solid Waste Section
State of Florida
Department of Environmental Regulation
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

D. E. R.

FEB 7 1990

SOUTHWEST DISTRICT
TAMPA

Re: Sumter County Landfill
Permit No. SC60-132071
C-103

Dear Mr. Ford:

Sumter County respectfully requests that Permit No. SC60-132071 for the construction of a volume reduction plant, solid waste composting facility, new lined cell, lined leachate holding pond and appurtenances be modified to provide for the construction of an extreme high water level overflow from the lined leachate holding pond to the lined cell.

Plans for the construction of the proposed overflow structure are attached.

We assume that this will be a minor modification pursuant to my conversation with you on Thursday, February 1, 1990.

The construction will include slitting the liner, installation of two (2) 8 inch diameter schedule 40 PVC pipes and HDPE boots to provide water tight seals.

We request that you expedite the review and approval of this modification. Phase II closure will commence during March 1990. We plan to have the contractor who installs the liner on Phase II perform the installation of the overflow pipes between the lined leachate pond and the lined cell.

Thank you for your consideration of this matter. Please call me at (904)787-1414 if you have any questions or need additional information.

Very truly yours,

SPRINGSTEAD ENGINEERING, INC.

Paul Bradley

Paul Bradley, P.E.
PB:db

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C10312790)

WICKS
CONSULTING
SERVICES, INC.

(904) 343-8667 • 107 West Main Street • Tavares, Florida 32778-3809

January 18, 1990

Mr. Kim B. Ford, P.E.
Solid Waste Section
Florida Department of
Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

D. E. R.

JAN 22 1990

SOUTHWEST DISTRICT
TAMPA

REFERENCE: SUMTER COUNTY SOLID WASTE

Dear Mr. Ford:

In follow-up to our conversation earlier this week, I am enclosing information regarding the use of alternate materials as intermediate cover at the Sumter County Solid Waste Facility. As discussed, this material has been generated by Armco Advanced Materials' facility in Wildwood and has been offered to the County for use in the landfill operation.

If you have any questions regarding the enclosed material, please contact me. Your concurrence with the proposal is needed as soon as possible so the County can proceed with utilizing the material.

Sincerely,

Ted Wicks

Ted Wicks, P.E.

TW:jw

Enclosure
cc: Dave Hanson
Gary Breeden

D.E.R.
JAN 22 1990
SOUTHWEST DISTRICT
TAMPA

SUMTER COUNTY SOLID WASTE FACILITY

OPERATIONAL GUIDELINES

A temporary modification to the approved Operational Guidelines for the Sumter County Solid Waste Facility is proposed. The temporary deviation involves the material to be used as intermediate cover and does not affect the remaining portion of the Operational Guidelines.

The Armco Advanced Materials Corporation has stockpiled a mixture of metal hydroxides and soil at their manufacturing plant site in Wildwood. This material is generated during metal fabrication at the facility and is landspread as a sludge on land adjacent to the plant. The material is classified as non-hazardous and is permitted by the Department of Environmental Regulation for landspreading on the plant grounds. This has accumulated over several years of plant operation; consequently, Armco has offered the material to Sumter County for use as cover and fill material at the landfill.

The material has been observed and is in a dry homogeneous form. Testing of the materials has verified that it is non-hazardous. Also, since landspreading of the material has been allowed, it represents no threat to the environment. Test results are enclosed in the Appendix of this report.

During removal of the material from the site, it will be mixed with the native on-site soils. This will further enhance the consistency of the material; consequently, it will be equal to or better than the earth/soils currently used for intermediate cover.

The material will be trucked to the landfill on an as-needed basis and will not be stockpiled or stored at the landfill. The material is expected to provide intermediate cover for several months. After the material has been exhausted, the previous operational procedures will be reinstated with earth/soil used for intermediate cover.

Summary

The spoil material described above is to be used as intermediate cover only and will not be used as Final Cover. Placement and compaction procedures outlined in the Operational

Guidelines will be followed. The alternate material is of limited supply; consequently, its use will be short-term. Final cover and cell closure will be done according to the presently approved guidelines. The modification of the operational guidelines will be in compliance with Chapter 17-701 FAC and specifically 17-701.050(m)&(n). No modification to the Guidelines with respect to 17-701.073(6)(c) is proposed.

Based upon the following facts, it is recommended that the material be utilized as intermediate cover:

(1) The material is non-hazardous.

(2) The material does not represent a threat to the environment.

(3) The material is equal to or better than the present material used as intermediate cover.

(4) The material is available at no cost to the County.

Prepared by:

Ted Wicks

Kenneth Wicks, P.E.
Florida Reg. 33274

KW:jw

APPENDIX

ARMCO

ARMCO ADVANCED MATERIALS CORPORATION

October 19, 1989

Wicks Consulting Services
107 West Main Street
Tavares, Florida 32778

Attention: Mr. Ted Wicks

Dear Mr. Wicks:

As per your request to Al Wresh over the telephone on August 19, 1989, Armco has obtained samples from the land application area located on our property. The purpose of these samples was to obtain constituent analyses for you and Sumter County to determine if our material is suitable for use as an intermediate fill at the Sumter County Land Fill.

Three (3) samples were taken as follows:

1. One (1) from the land application area at a location that has received no deposits of sludge over the past few years, and,

2. Two (2) from the land application area that have current deposits of sludge on the surface.

Copies of these analyses are attached to this letter.

If you have any questions, please contact Mr. Al Wresh at 904-748-1313.

Sincerely,

ARMCO ADVANCED MATERIALS CORPORATION

R. A. Bahus
Manager of Operations

AMW/pat

Enclosure: Lab Analysis - PPB #35363,35635, and 35636

cc: A. Wresh - Wildwood
H. McCune - Middletown
D. Szwed - Butler

BEST AVAILABLE COPY

SAMPLE TAKEN IN LAND APPLICATION AREA FROM A LOCATION WITH NO RECENT DEPOSITS OF SLUDGE.

ppb

ENVIRONMENTAL LABORATORIES, INC

REPORT OF ANALYSES

Al Wresh
Armco, Inc./Stainless Steel Division
Route 2 Box 1A
Wildwood, Florida 34785-9699

PROJECT: 88-022-ARM

DATE: 10/10/89

DHRS#: 82282, E82001

Sample Received 8/22/89

Client Station ID #: / PPB#:	#1 35363	RCRA Criteria
Arsenic, Dissolved, mg/L	<0.1	5
Barium, Dissolved, mg/L	0.175	100
Cadmium, Dissolved, mg/L	<0.01	1
Chromium, Dissolved, mg/L	0.037	5
Lead, Dissolved, mg/L	<0.2	5
Selenium, Dissolved, mg/L	<0.2	1
Silver, Dissolved, mg/L	<0.05	5
Mercury, Dissolved, mg/L	<0.01	0.2

Kelly Bucholz
Project Manager

RE: MKB10-10

6821 SW ARCHER ROAD, GAINESVILLE, FLORIDA 32608 Tel. (904) 377-2349

BEST AVAILABLE COPY

SAMPLE TAKEN IN LAND APPLICATION AREA FROM A LOCATION WITH FRESH DEPOSITS OF SLUDGE ON SURFACE OF GROUND.

ENVIRONMENTAL LABORATORIES, INC.

REPORT OF ANALYSES

Al Wresh
Armco, Inc./Stainless Steel Division
Route 2, Box 1A
Wildwood, Florida 34785-9699

PROJECT: 88-022-ARM

DATE: 10/10/89

DHRS#: 82282, E82001

Sample Received 9/18/89

Client Station ID #:	#3	RCRA
PPB#:	35635	Criteria
Arsenic, Dissolved, mg/L	<0.1	5
Barium, Dissolved, mg/L	0.377	100
Cadmium, Dissolved, mg/L	0.033	1
Chromium, Dissolved, mg/L	3.45	5
Lead, Dissolved, mg/L	<0.5	5
Selenium, Dissolved, mg/L	<0.1	1
Silver, Dissolved, mg/L	<0.05	5
Mercury, Dissolved, mg/L	<0.01	0.2
Inital Leachate, pH	8.8	
Final Leachate, pH	5.0	

Kelly Bergdoll
Project Manager

RE: MKB10-10

6821 SW ARCHER ROAD, GAINESVILLE, FLORIDA 32608 Tel. (904) 377-2349

BEST AVAILABLE COPY

SAMPLE TAKEN IN LAND APPLICATION AREA APPRO. 48" FROM SAMPLE #3 (SAME CONDITIONS AS #3.)

ENVIRONMENTAL LABORATORIES, INC.

REPORT OF ANALYSES

Al Wresh
Armco, Inc./Stainless Steel Division
Route 2 Box 1A
Wildwood, Florida 34785-9699

PROJECT: 88-022-ARM

DATE: 10/10/89

DHRS#: 82282, E82001

Sample Received 9/18/89

Client Station ID #:	#4	RCRA
PPB#:	35636	Criteria
Arsenic, Dissolved, mg/L	<0.1	5
Barium, Dissolved, mg/L	0.525	100
Cadmium, Dissolved, mg/L	0.012	1
Chromium, Dissolved, mg/L	2.35	5
Lead, Dissolved, mg/L	<0.5	5
Selenium, Dissolved, mg/L	<0.1	1
Silver, Dissolved, mg/L	<0.05	5
Mercury, Dissolved, mg/L	<0.01	0.2
Inital Leachate, pH	9.1	
Final Leachate, pH	5.0	

Kelly Beydoll
Project Manager

RE: MKB10-10

6821 SW ARCHER ROAD, GAINESVILLE, FLORIDA 32608 Tel. (904) 377-2349

BEST AVAILABLE COPY

ARMCO

ARMCO ADVANCED MATERIALS CORPORATION

November 29, 1988

Sumter County Road Department
222 East McCollum Avenue
Bushnell, Florida 33513

Attention: Gary Breedon
Director of Public Works

Dear Mr. Breedon:

As per our meeting held at the Armco Plant on November 9, 1988, Armco requests permission to transport and deposit at the Sumter County Landfill, a mixture of metal hydroxides and soil. This material can then be used as a cover material for your operation. ?

Attached for your information is leach analysis for this material taken from two different time intervals. The first sample was collected during September, 1985, and, the second sample was obtained shortly after your visit.

If you have any questions, please contact our Plant Engineer, Mr. Albert M. Wresh, at (904) 748-1313.

Sincerely yours,

ARMCO ADVANCED MATERIALS CORPORATION

R. A. Bahus
Manager of Operations

AMW/pat

Enclosure:

BEST AVAILABLE COPY

son L. Flowers, Ph. D.
erson S. Flowers, Ph. D.

Ph. (305) 339-5984

FLOWERS CHEMICAL LABORATORIES

ANALYTICAL & CONSULTING CHEMISTS

ceived From:

Env. Spec.
1675 Lee Rd
Winter Park, Fl

Date Reported: Oct 4 1985

HEW Provider #: 10-8220
DHRS Lab# : 83139
DER Lab# : EL0096
CDC Lab# : 091036
AIHA Lab# : 253

r: Sb Ni Be Tl As Cd Cr Pb Hg Se Ag Cu Zn
te Received: Sep12 1985

Lab Numbers: 3766-3773

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	3771 1D	3772 2C	3773 2D	PRIMARY STDS
Antimony	mgSb/L	0.002	99.1	.14	<0.002	<0.002	<0.002	
Nickel	mgNi/L	0.01	99.2	.6	0.17	0.55	0.08	
Beryllium	mgBe/L	0.001	97.5	4.6	<0.001	<0.001	<0.001	
Thallyium	mgTl/L	0.005	93.3	6.3	<0.005	<0.005	<0.005	~~0.005~~
Arsenic	mgAs/L	0.002	101	3.9	<0.002	<0.002	<0.002	0.05
Cadmium	mgCd/L	.0001	100	0	<.0001	<.0001	<.0001	0.010
Chromium	mgCr/L	0.001	100	0	<0.001	<0.001	0.001	0.05
Lead	mgPb/L	0.002	99.4	.5	<0.002	0.014	<0.002	0.05
Mercury	mgHg/L	.0002	100	0	<.0002	<.0002	<.0002	0.002
Selenium	mgSe/L	0.002	100	0	<0.002	<0.002	<0.002	0.01
Silver	mgAg/L	0.001	100	0	<0.001	<0.001	<0.001	0.05
Copper	mgCu/L	0.001	104	0	<0.001	<0.001	<0.001	
Zinc	mgZn/L	0.02	100	0	<0.02	<0.02	<0.02	5.0 (Secondary)

Data Release Authorization
ample integrity and reliability certified by Lab personnel prior to analysis.
ethods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph.D.
Technical Director

NITRATE 10
SODIUM 160
CORROSIVITY
IRON
MS.

NEWBURYPORT & 2nd St., P.O. BOX 597, ALTAMONTE SPRINGS, FLA. 32715-0597

BEST AVAILABLE COPY

Jerson L. Flowers, Ph. D.
Jefferson S. Flowers, Ph. D.

Ph. (305) 339-5984

FLOWERS CHEMICAL LABORATORIES

ANALYTICAL & CONSULTING CHEMISTS

ceived From:
Env. Spec.
1675 Lee Rd
Winter Park, Fl

Date Reported: Oct 4 1985

HEW Provider #: 10-8220
DHRS Lab# : 83139
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CDC Lab# : 091036
AIHA Lab# : 253

r: Sb Ni Bb Tl As Cd Cr Pb Hg Se Ag Cu Zn
te Received: Sep12 1985 Lab Numbers: 3766-3773

REPORT OF ANALYSIS

Parameter	Unit	Method Detection Limit	%ACC	%PRC	3766 1a	3767 1B	3768 2A	3769 2B	3770 1C
Antimony	mgSb/L	0.002	99.1	.14	<0.002	<0.002	<0.002	<0.002	<0.002
Nickel	mgNi/L	0.01	99.2	.6	0.03	0.01	0.2	<0.01	0.09
Beryllium	mgBe/L	0.001	97.5	4.6	<0.001	<0.001	<0.001	<0.001	0.013
Thallyium	mgTl/L	0.005	93.3	6.3	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic	mgAs/L	0.002	101	3.9	<0.002	<0.002	<0.002	<0.002	<0.002
Cadmium	mgCd/L	.0001	100	0	<.0001	<.0001	<.0001	<.0001	<.0001
Chromium	mgCr/L	0.001	100	0	0.008	0.006	0.001	0.007	0.002
* Lead	mgPb/L	0.002	99.4	.5	0.097	0.02	0.026	0.017	0.007
*Mercury	mgHg/L	.0002	100	0	0.002	.0005	<.0002	<.0002	<.0002
Selenium	mgSe/L	0.002	100	0	<0.002	<0.002	<0.002	<0.002	<0.002
Silver	mgAg/L	0.001	100	0	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mgCu/L	0.001	104	0	0.01	<0.001	<0.001	<0.001	<0.001
Zinc	mgZn/L	0.02	100	0	<0.02	<0.02	<0.02	<0.02	<0.02

Data Release Authorization
mple integrity and reliability certified by Lab personnel prior to analysis.
thods of analysis in accordance with FCL QA and EPA approved methodology.

Jefferson S. Flowers, Ph. D.
Technical Director

NEWBURYPORT & 2nd St., P.O. BOX 597, ALTAMONTE SPRINGS, FLA. 32715-0597

BEST AVAILABLE COPY

ENVIRONMENTAL LABORATORIES, INC.

November 23, 1988

Mr. Al Wresh
Armco, Inc./Stainless Steel Division
Route 2 Box 1A
Wildwood, Florida 32785

Dear Mr. Wresh:

Enclosed are the results of the analysis of your soil sample received November 17, 1988.

All data were determined in accordance with published procedures (EPA-600/4-79-020, Methods for Chemical Analysis of Water and Wastes, Revised March 1983 and/or EPA Test Methods for Evaluating Solid Waste, SW-846, November 1986, 3rd Edition). Our laboratory is certified by the Florida DHRS (Lab Nos. 82282 and E82001).

If you have any questions, please do not hesitate to give me a call.

Sincerely,

Tom Park for Kelly Bergdoll
Kelly Bergdoll
Project Manager

KB:jlm

Enclosures

SECONDARY STDS

CORROSIVITY	– NON COR.
IRON	0.3
Mg	0.05
pH	6.5–8.5
TDS	– 500
Zinc	– 5

821 SW ARCHER ROAD, GAINESVILLE, FLORIDA 32608 Tel. (904) 377-2349

BEST AVAILABLE COPY

ppb
ENVIRONMENTAL LABORATORIES, INC.

REPORT OF ANALYSES

Al Wresh
Armco, Inc./Stainless Steel Division
Route 2 Box 1A
Wildwood, Florida 32785

PROJECT: 88-022

DATE: 11/23/88

RCRA EP TOXICITY TEST RESULTS

Sample #: / PPB#:	Soil 30804	RCRA Criteria
Arsenic, ug/L	<500	5,000
Barium, ug/L	621	100,000
Cadmium, ug/L	<50	1,000
Chromium, ug/L	4,380	5,000
Lead, ug/L	<100	5,000
Mercury, ug/L	<5	200
Selenium, ug/L	<500	1,000
Silver, ug/L	<50	5,000

Tony Pash
Project Manager

8.000
6.000000

6821 SW ARCHER ROAD, GAINESVILLE, FLORIDA 32608 Tel. (904) 377-2349

FILE

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary

January 17, 1990

D. E. R.

JAN 19 1990

SOUTHWEST DISTRICT
TAMPA

Mr. Luther Alexander, Supervisor
Washington County Courthouse
Greenville, Mississippi 38701

Dear Mr. Alexander:

This is in response to your letter of November 9, 1989, regarding the composting operation located in Sumter County, Florida.

You and your associates requested any available information on this operation, especially inspection reports, enforcement actions, testing requirements, and the compost produced. Please note that permitting, compliance and enforcement activities are performed by personnel in our District offices. I have forwarded a copy of your letter to Mr. Kim Ford with our Southwest District. He may be reached at 4520 Oak Fair Boulevard, Tampa, Florida 33610-7347, or telephone (813)623-5561, extension 382.

Enclosed is a copy of Rule 17-709, Florida Administrative Code (F.A.C.). The referenced operation falls under the provision specified in Rule 17-709.300(1),F.A.C., which exempts the compost produced from certain requirements until October 1, 1998. However, there may be conditions in their Department permit affecting the material produced. Mr. Ford can supply this information.

If I can be of further assistance, please contact me at the above address, or telephone (904)488-0300.

Sincerely,

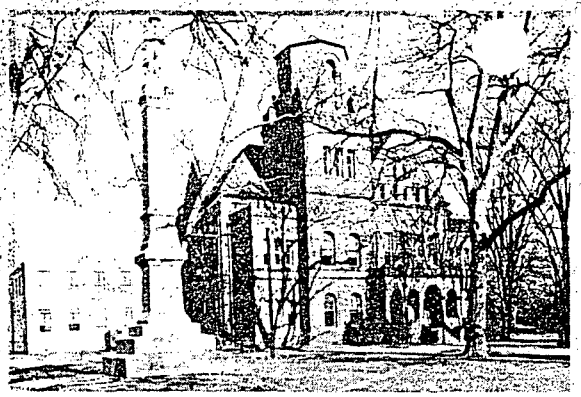
Francine M. Joyal
Environmental Specialist
Solid Waste Section

FMJ/rd

Enclosure

cc: Kim Ford

Recycled Paper



FJ

BOARD OF SUPERVISORS
WASHINGTON COUNTY
COURTHOUSE
GREENVILLE, MISSISSIPPI 38701

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204 CHURCH, HOLLANDALE
MARGARET P. TUCKER, CLERK
TOMMY L. GOODWIN, COMPTROLLER-ADMINISTRATOR
GEORGE H. SLADE, ATTORNEY

WASTE MANAGEMENT BRANCH
89 NOV 14 PM 1:42
RECEIVED

November 9, 1989

Department of Environmental Resources
2600 Blairstone Road
Tallahassee, Florida 32399-2400

Re: Solid Waste Recycling/Composting
Sumter County Florida

Dear Sirs:

Recently, representatives consisting primarily of elected officials from the Mississippi Delta region visited the solid waste recycling/composting facility located in Sumter County, Florida. The purpose of this visit was to help in a local decision to address upcoming changes in EPA regulations concerning disposal of solid waste.

Based upon our observations, it appears that recycling/composting may be the most cost effective and environmentally acceptable method of dealing with this tremendous problem. Since the technology is relatively unknown in our area, we would appreciate any information you may be able to provide concerning this operation. More specifically, we would request any inspection reports, fines imposed, and especially information concerning the compost material and testing requirements on the compost material prior to any sales that may take place. This information will prove highly useful in reaching a decision on our course of action.

We look forward to your earliest reply in this matter. Should you have questions, please contact Mr. Mark Manning of South Delta Planning and Development District at 601/378-3831.

Sincerely,

Richard M. Coleman, Sr.
Supervisor, Bolivar Co.

Jay Linard
Supervisor, Sharkey Co.

Luther Alexander
Supervisor, Washington Co.

Clanton Beamon
Supervisor, Sunflower Co.

Supervisor, Issaquena Co.

cc: Honorable Ray Mabus
Governor, State of Mississippi

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

December 29, 1989

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

Re: Certification of New Lined Cell
Permit No.: SC60-132071
Sumter County Class I Sanitary Landfill

Dear Mr. Breeden:

On December 29, 1989, the Department of Environmental Regulation inspected the Sumter County Class I sanitary landfill new lined cell to ensure its development in accordance with the approved permit. Certification of Construction Completion was received on December 22, 1989.

Due to concern over siting of the leachate collection manhole inside the lined area, the Department requested (and subsequently received) additional assurances and supporting data which demonstrates that the current siting of the leachate collection manhole will not cause leakage through the newly installed liner. Because of these assurances, and the compaction of soil around the leachate collection manhole for added stability, the Department determines that the new liner cell is developed in accordance with the approved permit and may be operated and accept solid waste.

Sincerely,

Ernest G. Weeks
Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

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

SPRINGSTEAD ENGINEERING, INC.

Consulting Engineers – Planners – Surveyors

727 S. 14TH ST.
P.O. BOX 448
LEESBURG, FLA. 32749-0448
(904) 787-1414

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

Sign of Excellence

December 21, 1989

Mr. Ernest G. Weeks, Engineer I
Solid Waste Section
State of Florida
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7847

D. E. R.

DEC 22 1989

SOUTHWEST DISTRICT
TAMPA

Re: Sumter County Landfill
C-103.1

Dear Mr. Weeks:

We are responding to your letter dated December 11, 1989, to Mr. Garry Breeden, Director, Sumter County Public Works.

You expressed concern over siting the leachate collection manhole inside the lined area and indicated that you consider that a major deviation from the approved plans.

We disagree with your contention that the siting of the leachate collection manhole inside the lined cell is a major deviation.

The manhole provides the required functions (provides a sump for collection of leachate from the underdrains, is located adjacent to the lined leachate holding pond and is readily accessible) in either location.

The soil underneath the liner and underneath the manhole was compacted prior to installation. Compaction tests were performed to insure that the proper compaction was obtained.

Loading on the liner was considered. The loading due to the leachate collection manhole is 354 pounds per square foot (PSF). The loading due to a front end loader is 4,552 PSF.

Cutting the liner to provide a passage for the underdrain collection pipe discharge was not necessary. This eliminated a possible point of leakage.

We are enclosing record drawings and certification of completion of construction for the new lined cell.

We request that Florida Department of Environmental Regulation approve the new lined cell for use so Sumter County can proceed with closure of Phase II of the landfill.

Very truly yours,

SPRINGSTEAD ENGINEERING INC.

Paul Bradley

Paul Bradley, P.E.
PB:db
Enclosure

cc: Mr. Garry Breeden
Mr. Tommy Hurst

(C1031L122189)

D.E.R.
DEC 22 1989
SOUTHWEST DISTRICT
TAMPA

D.E.R.

DEC 22 1989

SOUTHWEST DISTRICT
TAMPA

D.E.R.

DEC 22 1989

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

FOR APPLICATION TO OPERATE ONLY
RESOURCE RECOVERY AND MANAGEMENT FACILITY

CERTIFICATION OF CONSTRUCTION COMPLETION

DER Construction Permit No.: SC60-132071 County: Sumter

Name of Project: Sumter County Landfill - lined cell

Name of Owner: Sumter County Commissioners, 209 N. Florida St., Bushnell, Fla. 33513

Name of Engineer: Springstead Engineering, Inc., P.O. Box 490448, Leesburg, Fla. 34749-0448

Type of Project: Lining of new cell with synthetic liner and leachate collection system

Cost: Estimated $ 62,000 Actual $ 66,429.25

Site Design: Quantity: 105 ton/day Site Acreage: 10+ Acres

Population: 30,000 Dumping Fee: $ 22.00 /Ton

Deviations from Plans and Application Approved by DER: All deviations are shown on record drawings

Water Monitoring Data Submitted to DER, Date: December 1986, quarterly thereafter

Address and Telephone No. of Site: Sumter County Public Works Dept., 222 E. McCollum Ave., Bushnell, Florida 33513; Landfill located one (1) mile east of I-75 on County Road 470 - Phone (904) 793-3368

Name(s) of Site Supervisor: Garry Breeden or Tommy Hurst

Date Site Inspection is requested: At the convenience of FDER, we would appreciate advance notification in order that we can be present during the inspection.

This is to certify that, with the exception of deviations noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: SC60-132071 Dated 7/13/87

Date: 12-21-89

P. BRADLEY CERTIFICATE REGISTERED ENGINEER STATE OF FLORIDA

Signature of Professional Engineer

DER Form 17-1.206(2) Effective November 30, 1982

CENTRAL TESTING LABORATORY
P.O. BOX 883
FLORAL CITY, FLORIDA 32636
PHONE: 904-726-6447
LEESBURG 904-787-1268

D. E. R.

DEC 2 2 1989

SOUTHWEST DISTRICT
TAMPA

REPORT OF DENSITY TESTS

CLIENT: Sumter County Commission
Att: Gary Breeden
ADDRESS: 222 E. McCollum Avenue
Bushnell, Florida 33513

DATE OF FIELD TESTS: 10-23-89
JOB LOCATION: Sumter County Landfill

AREA COVERED BY TESTS: Bottom of Lined Cell

TYPE LAB PROCTOR
STANDARD ____ MODIFIED XX

Specific Location	* Field Density	* Lab Density	% Compaction	% Field Moisture	% Lab Moisture	Depth
S.E. Corner of Lined Cell	107.0	106.9	100.1	10.2	11.0	

* Lbs./Cu. Ft.

REMARKS: ____

TECHNICIAN: BLAND

I hereby certify that the above tests were performed in accordance with ASTM Specifications.

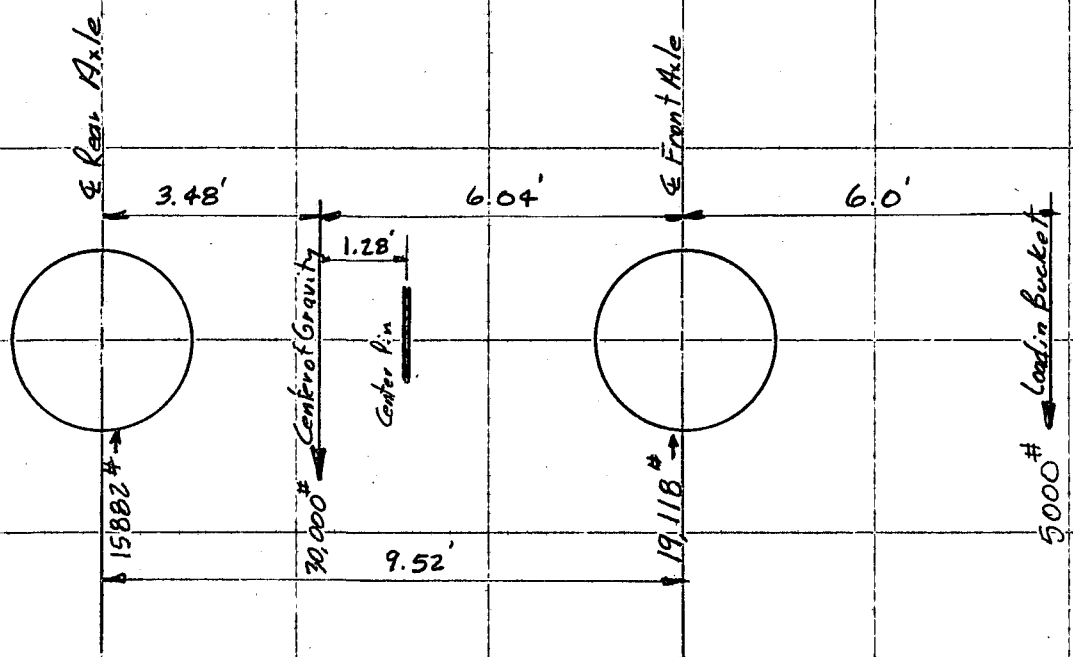
JOHN W. SPRINGSTEAD, P. E., REG. # 8579 12/21/89

(SEAL)

Central Testing Laboratory
Chet Main, Director

cc:

Reaction Diagram of Loads of J.D. 544E Loader w/Coupler



Load on Front Axle = 19,118 lbs

Load Per Front Tire = 9559 lbs

Footprint of Tire = 302 sq. in = 2.10 Sq. Ft. (Per John Deere Co.

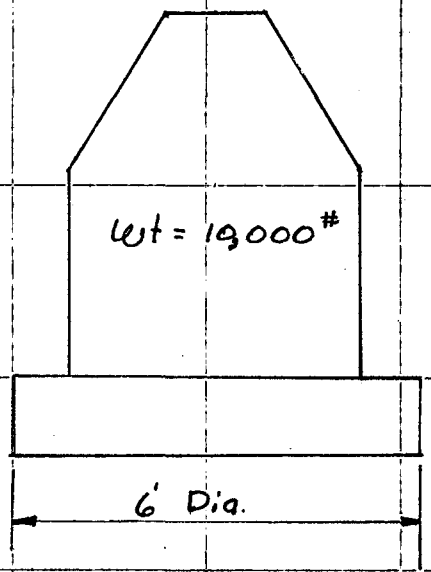
Preassure on Soil = $\frac{9559 \text{ lbs}}{2.10 \text{ Sq. Ft.}} = \underline{4552 \text{ lbs/SF}}$

D. E. R.

DEC 22 1989

SOUTHWEST DISTRICT
TAMPA

Diagram of Existing M.H.



Area of Base = $\pi r^2 = \pi \times 3^2 = 28.27$ S.F.

Preassure on Soil = $\frac{10{,}000 \#}{28.27 \text{SF}} = \underline{354 \text{ lbs/SF}}$

Paul Bradley
12-22-89
Reg. # 35491

Florida Department of Environmental Regulation

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

Bob Martinez, Governor Dale Twachtmann, Secretary John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

DATE: 12-22-89

TIME: 9:15 AM.

SUBJECT: SUMTER COUNTY LANDFILL NEW LINED CELL

A T T E N D E E S

Name	Affiliation	Telephone
ERNEST WEEKS	DER	623-5561 x-399
Paul Bradley	Springstead Engr.	904-787-1414
Tommy Hurst	SUMTER COUNTY PUBLIC WORKS	904-793-0240
Victor San Agustin	DER	623-5561, ext. 390

TPA-02
06/81

Florida Department of Environmental Regulation

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

Bob Martinez, Governor | Dale Twachtmann, Secretary | John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

December 11, 1989

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

Re: Certification of Phase I Cell Closure
Permit No.: SC60-146475
Inspection of New Lined Cell
Sumter County Class I Sanitary Landfill

Dear Mr. Breeden:

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

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

Sincerely,

Ernest G. Weeks
Engineer I
Solid Waste Section
Division of Waste Management

EGW/ab

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
SOUTHWEST DISTRICT

SITE INSPECTION REPORT

NAME OF SITE: Sumter County Landfill DATE: 12-6-89

ADDRESS OF SITE: Appx. 1 mi. E. of I-75 on CR 470 MODULE:

PERMIT INVOLVED: Resource Recovery and Management Facility PERMIT #: SC60-146475

PURPOSE OF TRIP: To look at completed landfill cell closure area and new cell liner installation area

PERSONS CONTACTED: Gary Breeden

OTHER PERSONS PRESENT: Tommy Hurst

VIOLATIONS NOTED:

SUMMARY REPORT: Phase I closure area appears to adequately reflect the plans submitted and looks O.K. (workers were half-way thru picking up fly-litter in the area).

The new cell liner area looks O.K. except for placement of lift station: plans submitted indicated lift station would be located toward edge (outside) of lined area; however, the lift station was actually located on SW corner of bottom inside of newly lined area. We need record drawings of this design & Mr. Breeden was informed

OF THE POSSIBILITY THAT THE LIFT STATION MAY NEED TO BE RE-LOCATED OUTSIDE THE LINED AREA.

CONVERSATION RECORD:

UNUSUAL CIRCUMSTANCES:

OTHER ACTION REQUIRED: WRITE LETTER TO SUMTER COUNTY INDICATING CLOSURE OF PHASE I IS O.K. & EXPRESS CONCERN OVER SITING OF LIFT STATION INSIDE LINED AREA OF NEW CELL.

NUMBER OF HOURS, INCL. TRAVEL: 3½

SIGNED: Scott S. Woods

TITLE: ENGINEER I

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

D. E. R.

OCT 25 1989

SOUTHWEST DISTRICT
TAMPA

FOR APPLICATION TO OPERATE ONLY
RESOURCE RECOVERY AND MANAGEMENT FACILITY

CERTIFICATION OF CONSTRUCTION COMPLETION

DER Construction Permit No.: SC60-146475 County: Sumter

Name of Project: Sumter County Landfill-Phase I Cell Liner

Name of Owner: Sumter County Commissioners, 209 North Florida Street, Bushnell, Fl. 33513

Name of Engineer: Springstead Engineering, Inc., P.O. Box 490448, Leesburg, Fla. 34749-0448

Type of Project: Landfill cell closure-installation of cell liner

Cost: Estimated $ 100,000.00 Actual $ 114,010.63

Site Design: Quantity: 105 ton/day Site Acreage: 10+ Acres

Population: 30,000 Dumping Fee: $ 16.00/ Ton

Deviations from Plans and Application Approved by DER: All deviations are noted on the Record Drawings

Water Monitoring Data Submitted to DER. Date: December, 1986, Quarterly thereafter

Address and Telephone No. of Site: Sumter County Public Works Department, 222 East McCollum Avenue, Bushnell, Fl 33513; Landfill located approximately one (1) mile east of I-75 on County Road 470. Phone (904) 793-3368

Name(s) of Site Supervisor: Garry Breeden, Tommy Hurst

Date Site Inspection is requested: At the convenience of FDER. We would appreciate advance notification in order that we can be present during the inspection.

This is to certify that, with the exception of deviations noted above, the construction of the project has been completed in accordance with the plans authorized by Construction Permit No.: SC60-146475 Dated: July 1, 1988

Date: 10-24-89

Signature of Professional Engineer

Paul Bradley, P.E., FL Reg. No. 35481

PAUL BRADLEY * STATE OF FLORIDA * REGISTERED ENGINEER

DER Form 17-7.130(2) Effective November 30, 1982

SPRINGSTEAD ENGINEERING, INC.

Consulting Engineers - Planners - Surveyors

727 S. 14TH ST.
P.O. BOX 448
LEESBURG, FLA. 32749-0448
(904) 787-1414

Sign of Excellence

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

TO Mr. Kim Ford
Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

DATE 10/24/89 JOB NO. C-103

ATTENTION Mr. Kim Ford

RE Sumter County Landfill

GENTLEMEN:

WE ARE SENDING YOU ☒ **Attached** ☐ under separate cover via _____ **the following items:**

☐ **Shop drawings** ☐ **Prints** ☐ **Plans** ☐ **Samples** ☐ **Specifications**

☐ **Copy of letter** ☐ **Change order** ☐ _____

Copies	Date	No.	Description
1			State of Florida Department of Environmental Regulation Application to Operate Only Resource Recovery and Management Facility.
1	7/13/89		Site Plan, Phase I, Sumter County Landfill, Sheet 1 of 3
1	2/13/89		Gas vents locations and profiles, Phase I, Sumter County Landfill, Sheet 2 of 3
1	2/14/89		Gas vent detail, final cover detail, Sumter County Landfill, Sheet 3 of 3

THESE ARE TRANSMITTED as checked below:

☐ **For approval** ☐ **Approved as submitted** ☐ **Approved for payment**

☒ **For your use** ☐ **Approved as noted** ☐ **Resubmit** _____ **copies for approval**

☐ **As requested** ☐ **Returned for corrections**

☐ **For review and comment** ☐ _____

☐ **Material and/or prints returned after loan to us**

REMARKS

D. E. R.

OCT 25 1989

SOUTHWEST DISTRICT
TAMPA

COPY TO

SIGNED: Lyle R. Powell, Project Manager

db