LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

ENGINEERING REPORT AND OPERATION PLAN

FOR

WEST PASCO WASTE TIRE PROCESSING FACILITY
14230 HAYS ROAD
SPRING HILL, FLORIDA 34654

Prepared For:

PASCO COUNTY
BOARD OR COUNTY COMMISSIONERS

Prepared By:

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
TAMPA, FLORIDA

JULY 1996

LAW PROJECT 40141-5-0868

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

DEP Form # 62-711.900(6)
Form Title Waste Tire Processing Facility Permit Application
Effective Date February 28, 1994
DEP Application No. _____
(Filled in by DEP)

Waste Tire Processing Facility Permit Application

rmit No._____ Renewal ☐ Modification ☐ Existing unpermitted facility ☒ Proposed new facility ☐

Part I-General Information:

A. Applicant Information:

1. Applicant Name: Pasco County Board of County Commissioners Utilities Services Branch
2. Applicant Street Address 7530 Little Road
3. City New Port Richey County Pasco Zip 34654
4. Applicant Mailing Address 7530 Little Road
5. City New Port Richey County Pasco Zip 34654
6. Contact person Vince Mannella Phone(813) 847-8145
7. Have any enforcement actions taken by the Department against the applicant relating to the operation of any solid waste management facility in this state? This includes any Complaint, Notice of Violation, or revocation of a permit or registration, as well as any Consent Order in which a violation of Department rules is admitted. It does not include a Warning Letter, Warning Notice, Notice of Noncompliance, or other similar document which does not constitute agency action. Yes_____No_____If yes, attach a history and description of the enforcement actions.

B. Facility Information:

1. Facility Name West Pasco Landfill
2. Facility Street Address (Main Entrance) 14230 Hays Road
3. City Spring Hill County Pasco Zip 34610
4. Facility Mailing Address 7530 Little Road
5. City New Port Richey State Florida Zip 34654
6. Contact Person Vince Mannella Phone(813) 847-8145

Facility Location Coordinates

7. Section 25 Township 24S Range 17E
8. Latitude N 28 22 47 Longitude W 82 33 55
9. Anticipated date for starting construction N/A* and for completion of construction N/A*
10. Anticipated date for receipt of tires N/A* and for start of processing N/A*

*The West Pasco Landfill is permitted under the Power Plant Siting Act.

C. Land Owner Information (if different from applicant):

1. Owner's name Same as Applicant
2. Land owner's mailing address
3. City State Zip
4. Authorized Agent: Agent's phone( )
5. Current lease expires

D. Facility Operator Information (if different from applicant):

1. Operator's name Same as Applicant
2. Operator's mailing address
3. City State Zip
4. Contact person Vincent Mannella P.E. Phone(813) 847-~~8040~~ 8145

E. Preparer of Application:

1. Name of person preparing application: Law Engineering and Environmental Services, Inc.
2. Mailing address 4919 West Laurel Street
3. City Tampa State Florida Zip 33607
4. Phone(813) 289-0750
5. Affiliation with facility: Environmental Consultant

Part II-Operations:

A. Facility type (check appropriate box):

☐ Waste tire processing facility.

☐ Waste tire processing facility with on-site disposal of processed tires or processing residuals. See Attachment ___

☐ Waste tire processing facility with on-site consumption of waste tires or processing residuals. See attachment F

☒ Permitted solid waste management facility modification to allow waste tire site and processing.

B. Type of processing facility (check as many as apply):

☒ Shredder ☐ Cutter ☐ Chopper ☐ Incinerator only ☐ Incinerator with energy recovery ☐ Pyrolysis

☐ Supplemental fuel user ☐ Other, explain

C. Indicate the maximum quantities of whole waste tires, processed waste tires, and processing residuals, expressed in tons, to be stored at the facility, in accordance with Rule 62-711.530(2), F.A.C.

	Outdoor Storage (tons)	Outdoor Storage (sq. ft.)	Indoor Storage (tons)	Indoor Storage (Sq. ft.)	Total Storage (tons)
Whole waste tires:	1,500	30,000	0	0	1,507
Processed tires:	1,500	10,000	0	0	1,507
Processing residuals:	200	2,500	0	0	200
TOTALS:	3,200	~~42~~,500	0	0	3,200

D. For reporting quantity of tires in tons, tires will be weighed on site ☒ weighed off site ☐ weights will be calculated ☐

E. Facilities that will not be disposing of processed tires or processing residual on the facility site must indicate the permitted solid waste management facility where processed tires or residuals will be disposed.

1. Name of facility N/A*

2. Street address

3. City County Zip

F. Facilities that will be delivering processed tires to consuming facilities must describe the existing or proposed markets for those processed tires.

N/A*

Pasco County does not dispose of processed tires away from the Resource Recovery Complex, which contains the waste tire site. The processed tires are used for daily cover for the SW-I cell of the Class I landfill, and the remainder are burned in the Resource Recovery Plant. Therefore, Pasco County is the consumer. The scrap metal dealer collects rims and hauls them to a scrap metal yard for recycling.

art III-Attachments:

A. Facility design

NOTE: All maps, plan sheets, drawings, isometrics, cross sections, or aerial photographs shall be legible; be signed and sealed y a registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where pplicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow and use GVD for all elevations.

1. A topographic or section map of the facility, including the surrounding area for one mile, no more than one year old, showing land use and zoning within one mile of the facility.
2. A plot plan of the facility on a scale of not less than one inch equals 200 feet. At a minimum, the plot plan shall include:
   a. The facility design, including the location and size of all storage and processing areas for used tires, unprocessed waste tires, processed waste tires, and waste tire processing residuals;
   b. All wetlands and water bodies within the facility or within 200 feet of any storage area;
   c. Stormwater control measures, including ditches, dikes, and other structures;
   d. Boundaries of the facility, legal boundaries of the land containing the facility, and any easements or rights of way that are within the facility or within 200 feet of any storage area;
   e. Location, size, and depth of all wells within the facility or within 200 feet of any storage area; New
   f. All structures and buildings that are, or will be, constructed at the facility; include those used in storage and processing operations;
   g. All areas used for loading and unloading;
   h. All access roads and internal roads, including fire lanes;
   i. Location of all fences, gates, and other access control measures; and
   j. Location of all disposal areas within the facility.

Facility operation.

1. A description of the facility's operation, process and products including how waste tires will be received and stored.
2. A description of the equipment used for processing tires. This description shall include the make, model, and hourly capacity of each piece of equipment.
3. Description of the waste from the process, the amount of waste expected and how and where this waste will be disposed of.
4. Statement of the maximum daily throughput and the planned daily and annual throughput.
5. A description of how the operator will maintain compliance with each of the storage requirements of Rule 62-711.540, F.A.C.
6. A copy of the emergency preparedness manual for the facility with a statement of the on site and off site locations where that manual will be maintained.
7. A copy of the fire safety survey.
8. A description of how 75% of the annual accumulation of waste tires will be removed for disposal or recycling.

C. Completed closing plan for the facility as required by Rule 62-711.700(2) and (3), F.A.C.
D. Attach proof of financial responsibility as requirement by Rule 62-711.510(2) OR a calculation showing that financial assurance documents, currently on file with the Department, are sufficient to assure closing of the waste tire site as well as any other solid waste management facility at that location.
E. A letter from the land owner (if different from applicant) authorizing use of the land as a waste tire processing facility.
F. If waste tires will be consumed at the facility, attach a description of the other environmental permits that the applicant has for this use, including, permit number, date of issue, and name of issuing agency.
G. The permit fee as required in Rule 62-4, F.A.C.

Part IV-Certification:

A. Applicant:

The undersigned applicant or authorized representative of _____ is aware that statements made in this form and attached information are an application for a _____ Permit from the Florida Department of Environmental Regulation and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Department will be notified prior to the sale or legal transfer of the facility.

Signature of Applicant or Authorized Agent

DOUGLAS S. BRAMLETT
ASSISTANT COUNTY ADMINISTRATOR
Name and Title

2/21/96
Date

B. Professional Engineer registered in Florida.

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

Richard E Mayer
Signature

4919 West Laurel Street
Mailing Address

Richard E. Mayer P.E
Name and Title

Tampa, Florida 33607
City, State, Zip

41759
Florida Registration Number

(813) 285-0750
Telephone number

(please affix seal)

Richard E Mayer
7/26/94

Date

Mail completed form to
appropriate district office.

Northwest District
160 Government Center
Pensacola, Florida 32501-5794
904-444-8300

Northeast District
7825 Baymeadows Way Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

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

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
813-744-6100

South District
2295 Victoria Avenue
Fort Myers, Florida 33901-3881
813-332-6975

Southeast District
1900 S. Congress Ave., Suite E
West Palm Beach, Florida 33406
407-433-2650

A. FACILITY DESIGN

NOTE: All maps, plan sheets, drawings, isometrics, cross sections, or aerial photographs shall be legible; be signed and sealed by a registered professional engineer responsible for their preparation; be of appropriate scale to show clearly all required details; be numbered, referenced to narrative, titled, have a legend of symbols used, contain horizontal and vertical scales (where applicable), and specify drafting or origination dates; and use uniform scales as much as possible, contain a north arrow and use NGVD for all elevations.

1. **A TOPOGRAPHIC OR SECTION MAP OF THE FACILITY, INCLUDING THE SURROUNDING AREA FOR ONE MILE, NO MORE THAN ONE YEAR OLD, SHOWING LAND USE AND ZONING WITHIN ONE MILE OF THE FACILITY.**

   See Appendix A.

2. **A PLOT PLAN OF THE FACILITY ON A SCALE OF NOT LESS THAN ONE INCH EQUALS 200 FEET. AT A MINIMUM, THE PLOT PLAN SHALL INCLUDE:**

   a. **The facility design, including the location and size of all storage and processing areas for used tires, unprocessed waste tires, processed waste tires, and waste tire processing residuals;**

      Whole tires are deposited in the areas designated until the storage areas become nearly full. Then Pasco County contacts the company they have under contract to chip the tires and they come to the site. This contractor positions the chippers at the end of each pile and chips the tires by placing the tires into the equipment by hand. The chips exit the machine in a window behind the machine as it moves from one end of the pile to the other. Periodically, the chips are loaded onto a truck and hauled to the scale for weighing, so the County can determine what to pay the contractor. The truck returns to the site after it has been weighed and dumps the chips into the area designated for chip storage. This process continues until all the whole tires are chipped and the contract chipper leaves the site.

   b. **All wetlands and water bodies within the facility or within 200 feet of any storage area;**

   c. **Storm-water control measures, including ditches, dikes, and other structures;**

   d. **Boundaries of the facility, legal boundaries of the land containing the facility, and any easements or rights of way that are within the facility or within 200 feet of any storage area;**

      No potable water wells are located within 200 feet.

   e. **Location, size, and depth of all wells within the facility or within 200 feet of any storage area;**

f. **All structures and buildings that are, or will be, constructed at the facility; include those used in storage and processing operations;**

g. **All areas used for loading and unloading;**

h. **All access roads and internal roads, including fire lanes;**

i. **Location of all fences, gates, and other access control measures; and**

j. **Location of all disposal areas within the facility.**

Items a. through j. are provided in the drawings.

B. FACILITY OPERATION

1. A DESCRIPTION OF THE FACILITY'S OPERATION, PROCESS AND PRODUCTS INCLUDING HOW WASTE TIRES WILL BE RECEIVED AND STORED.

The West Pasco Landfill is open during the hours of 7:00 a.m. to 5:00 p.m., Monday through Saturday to receive waste for disposal or storage in designated locations according to material type.

The Landfill is equipped with two electronically operated and computer controlled motor truck scales. These scales are tied into a local area network computer system utilizing Dickey Scales Refuse Vehicle Scale Management System II software.

All inbound loads of tires are scaled for gross weight and then reweighed for tare upon exiting. Tare weights are recorded in the computer for all regular customers using designated vehicles enabling them to forgo the reweigh process. All transactions involving up to 5 individual passenger car tires are approximated at 20 pounds per tire, the equivalent of 100 tires per ton. All transactions involving up to 5 individual truck tires are approximated at 100 pounds per tire, the equivalent of 20 tires per ton.

The receiving area and the areas designated for storage are the same. The scale house is a primary control point for the facility and the scale house operator will direct the person brining in tires to the waste tire storage and processing area and alert the person to the signs indicating where to unload. If the storage areas are filled to a height such that the unloading areas are not readily visible, the person hauling tires will be directed to unload in the area to the west of the passenger tire storage area and Pasco County will use a bucket loader to place the tires atop the pile.

Passenger car tires will be off-loaded into one of three whole tire storage areas. Truck tires will be off-loaded into the same area with passenger tires.

Tires with rims and without rims are stored in common piles and are separated during processing.

The Landfill maintains a contract with a private company for bi-annual waste tire processing. The processing is performed on-site with shredding equipment mobilized to the landfill's Waste Tire Processing Area. The waste tires are relocated to this area where any metal rims are removed and stockpiled. The equipment shreds the individual tires to 3 square inches or less.

2. A DESCRIPTION OF THE EQUIPMENT USED FOR PROCESSING TIRES. THIS DESCRIPTION SHALL INCLUDE THE MAKE, MODEL, AND HOURLY CAPACITY OF EACH PIECE OF EQUIPMENT.

The current company under contract owns waste tire shredding equipment manufactured by the Columbus McKinnon Corporation and a tire de-rimming machine.

A Columbus McKinnon Portable Tire Shredding System (Model 3408) will be used to process the waste tires. The shredder has a manufacturer's rated capacity of producing up to 10 tons per hour.

3. DESCRIPTION OF THE WASTE FROM THE PROCESS, THE AMOUNT OF WASTE EXPECTED, AND HOW AND WHERE THIS WASTE WILL BE DISPOSED OF.

The West Pasco Landfill receives approximately 2,000 tons more or less of waste tires on an annual basis.

Approximately twenty-percent (20%) of the tires received contain metal rims.

Prior to shredding, the metal rims are removed by the contractor and relocated to the scrap metal pile and commingled with other metals awaiting removal by a scrap metal dealer.

No other significant waste is created from the process.

4. STATEMENT OF THE MAXIMUM DAILY THROUGHPUT AND THE PLANNED DAILY AND ANNUAL THROUGHPUT.

The West Pasco Landfill receives approximately five and one-half (5.5) tons of tires on a daily basis for storage, or approximately 2,000 tons annually. Calculations summarizing the maximum daily and annual throughput, as well as the planned throughput and storage requirements are presented in Appendix B.

The County's site master plan projects no annual increase in the amount of tires to be received by the facility. However, an additional 3,100 tons will be received during the 1996 calendar year only. In order to process this additional amount of waste tires, the shredding equipment will be mobilized to the landfill's Waste Tire Processing Area approximately four (4) times throughout the year. Calculations summarizing the maximum daily and annual throughput, as well as the planned throughput and storage requirements are presented in Appendix B.

5. A DESCRIPTION OF HOW THE OPERATOR WILL MAINTAIN COMPLIANCE WITH EACH OF THE STORAGE REQUIREMENTS OF RULE 62-711.540, F.A.C.

(1) All waste tire sites, collection centers, processing facilities, and disposal facilities which store tires shall comply with the following technical and operational standards:

(a) If the site receives waste tires from the public, a sign shall be posted at the entrance of the site stating operating hours, cost of disposal and site rules.

The public utilizing the West Pasco Landfill is required to pass through the Scale House Plaza before being allowed access to the waste tire site. A sign is posted at this facility indicating the hours of operation: 7:00 a.m. to 5:00 p.m. Monday through Friday and 8:00

a.m. to 2:30 p.m. on Saturday, Closed Sunday. Cost of Disposal ($1.00/car tire, up to 5 per vehicle, or $100.00/ton) and Site rules will be posted within the Scale House facility.

(b) No operations involving the use of open flames shall be conducted within 25 feet of a waste tire pile.

There are no operations involving open flames within 25 feet of the waste tire pile.

(c) An attendant shall be present when the site is open for business if the site receives waste tires from the public.

The waste tire site is located adjacent to the West Pasco Landfill's Class III Cell No. 4. Landfill Operation's Staff are assigned to work projects within the facility area during operational hours.

(d) Fire protection services for the site shall be assured through notification to local fire protection authorities. A fire safety survey shall be conducted at least annually and the survey report shall be made part of the next quarterly report.

A current fire safety survey, dated November 30, 1995, is included as part of this application (Appendix C) and will be included in the next quarterly report.

Annual surveys shall be completed and included in the quarterly report.

(e) The operator of the site shall prepare and keep at the site an emergency preparedness manual. A copy of the current manual shall be kept at an off-site location designated by the operator. The manual shall be updated at least once a year and upon changes in operations at the site.

A copy of the Contingency Plan for the waste tire collection and storage facility at the West Pasco Landfill is attached hereto (Appendix D) and made a part of this application.

(f) The operator of the site shall immediately notify the Department in the event of a fire or other emergency which poses an unanticipated threat to the public health or the environment within two weeks of any emergency, the operator of the site shall submit to the Department a written report on the emergency. This report shall describe the origins of the emergency, the actions that were taken to deal with the emergency, the results of the actions that were taken, and an analysis of the success or failure of the actions.

This reporting procedure is contained in the current emergency preparedness manual attached hereto (Appendix D) and made a part of this application.

(g) The operator of the site shall maintain records of the quantity of waste tires received at the site, stored at the site, and shipped from the site.

These records are prepared utilizing the refuse computer system and maintained on site by the Operator. Waste Tire Processing Facility Quarterly Reports (Appendix E) are also forwarded to the Department of Environmental Protection containing this information.

(h) If the operator of the site is not the owner of the property, the operator shall obtain written authorization to operate the facility from the owner of the property.

The owner and operator of the site is the Pasco County Board of County Commissioners, Utilities Services Branch.

(i) Communication equipment shall be maintained at the waste tire site to assure that the site operator can contact local fire protection authorities in case of a fire.

The Waste Tire Site is located adjacent to the northeast corner of Cell No. 4 of the West Pasco Class II Landfill. This facility is located approximately 3,200 feet from the Scale House Plaza and approximately 1,750 feet from the Class III Landfill Operations Trailer.

(j) The owner or operator shall provide for control of mosquitoes and rodents so as to protect the public health and welfare.

Mosquito control is established through a routine spraying schedule and periodic site inspections by the Pasco County Mosquito Control Section. No visible rodent population currently exists at West Pasco Landfill Waste Tire Processing Area.

(k) An approach and access road to the waste tire site shall be kept passable for any motor vehicle at all times.

All access roads to the waste tire site are kept passable for any motor vehicles utilizing the facility during operational hours.

(2) All waste tire sites, collection centers, processing facilities, and disposal facilities which store waste tires indoors must comply with the following additional technical and operational standards:

This section is not applicable to the West Pasco Landfill Waste Tire Site.

(3) All waste tire sites, collection centers and any processing or disposal facilities which store waste tires outdoors must comply with the following additional technical and operational standards:

(a) A waste tire site shall not be constructed, maintained or operated in or within 200 feet of any natural or artificial body of water, including wetlands within the jurisdiction of the Department, except bodies of water contained completely within the property boundaries of the facility which do not ordinarily discharge from the site to surface waters, A person may maintain a waste tire site within the 200-foot setback area upon demonstration to the Department, as part of a permit application or modification, that permanent control methods for residuals will result in compliance with water quality standards in Chapters 62-330, F.A.C., as applicable. The site shall

be managed in such a way as to divert stormwater or floodwaters around and away from the storage piles. This section shall not apply to artificial reefs constructed pursuant to Department permit.

The West Pasco Landfill Waste Tire Site is not constructed within 200 feet of any natural or artificial body of water, including wetlands. The stormwater management system design for the waste tire processing facility is presented in Appendix F.

(b) An outdoor waste tire pile shall have no greater than the following maximum dimensions:

1.	**Width:**	**50 feet**
2.	**Area:**	**10,000 square feet; and**
3.	**Height:**	**15 feet.**

The waste tire site will consists of:

1. Three whole tire storage areas with maximum dimensions of 50 feet (width), 200 feet (length), for a total of 600 feet (±);
2. All piles will have a maximum height of 15 feet for a maximum storage capacity of 30,000 square feet;
3. A waste tire chip storage area with an area of 50 feet wide by 200 feet long; and
4. A rim storage area of 50 feet wide and 50 feet long.

(c) A 50-foot wide fire lane shall be placed around the perimeter of each outdoor waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.

The West Pasco Landfill maintains a 50-foot wide fire lane around the perimeter of the waste tire site.

(d) Access to the site shall be controlled through the use of fences, gates, natural barriers or other means.

The entire perimeter of the West Pasco Landfill is enclosed by a six foot high chain link fence topped by three strands of barbed wire. Public access to the West Pasco Landfill Site is restricted to one entrance road which passes through a six foot high gate that is locked after normal operational hours.

(e) The site shall be bermed or given other adequate protection if necessary to keep liquid runoff from a potential waste tire fire from entering water bodies.

The northern and eastern boundary is bordered by a buffer area and a chain-link fence. The western boundary is bordered by West Pasco Landfill lot clearing area and the yard waste processing area, while the southern boundary is bermed by Class III landfill cells and a buffer area. The waste tire processing area is also not constructed within 200 feet of any natural or artificial body of water.

(f) The waste tire site shall be kept free of grass, underbrush, and other potentially flammable vegetation at all times.

No vegetation exists within the waste tire storage and processing area. The waste tire processing area consists of a limerock base which is kept free from grass and potentially flammable vegetation.

(4) For all waste tire sites, collection centers, processing facilities, and disposal facilities which store processed waste tires, the temperature of any above-ground piles of compacted, processed tires over eight feet high shall be monitored and may not exceed 300 degrees Fahrenheit. Temperature control measures shall be instituted so that pile temperature control measures shall be instituted so that pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in permitted landfills.

Not Applicable. Processed tires are not compacted and stored in aboveground piles.

(5) Any residuals from waste tire processing must be managed so as to be contained on-site, and must be controlled and disposed of in a permitted solid waste management facility or property recycled.

Residuals from the waste tire processing are disposed of in the West Pasco Landfill lined disposal area. Metal rims are relocated to the Scrap Metal bin for recycling.

6. A COPY OF THE EMERGENCY PREPAREDNESS MANUAL FOR THE FACILITY WITH A STATEMENT OF THE ON-SITE AND OFF-SITE LOCATIONS WHERE THAT MANUAL WILL BE MAINTAINED.

A copy of the Contingency Plan for the waste tire collection and storage area at the West Pasco Landfill is presented in Appendix D.

The on-site copies of this manual will be maintained in the Class III Landfill Operations Trailer, the Scale House, and the Resource Recovery Facility, located at the West Pasco Landfill, 14230 Hays Road, Spring Hill, Florida 34610.

The off-site copy of this manual is maintained in the Pasco County Board of County Commissioners, Utilities Services Branch, 7530 Little Road, New Port Richey, Florida 34654.

a. PREPAREDNESS

Local fire department, hospital, and Sheriff's Office have been notified, and will be kept apprised of the operations at the Waste Tire Collection and Storage site at the West Pasco Landfill at 14230 Hays Road, Spring Hill, Florida 34610. A site diagram will be provided, as well as a copy of all revisions. Approximately 1,000 tons of waste tires are accumulated and stored on site between the two processing events per year.

The on-site copies of this manual will be maintained in the Class III Landfill Operations Trailer, the Scale House, and the Resource Recovery Facility, located at the West Pasco Landfill, 14230 Hays Road, Spring Hill, Florida 34610.

The off-site copy of this manual is maintained in the Pasco County Board of County Commissioners, Utilities Services Branch, 7530 Little Road, New Port Richey, Florida 34654.

EMERGENCY NOTIFICATION LIST:

Local Police Department:	Pasco County Sheriff's Office 7530 Little Road New Port Richey, Florida 34654 (813) 847-5878
Local Fire Department:	Station No. 20 15900 Little Ranch Road Hudson, Florida 34669 (813) 856-5519 Station No. 21 S.R. 52 and South Road Hudson, Florida 34667 (8130 856-3259
Local Fire Tower:	Department of Forestry S.R. 52 West Land O' Lakes, Florida 34639 (813) 754-6777
Local Hospital:	HCA Bayonet Point/ Hudson Medical Center 14000 Fivay Road Hudson, Florida 34667 (813) 863-2411
Environmental:	Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619-8318 (813) 744-6100

c. EMERGENCY PROCEDURES

Every effort shall be made to operate the facility in a safe manner. In the event of a small fire, the personnel discovering the fire should determine if it can be extinguished safely and quickly with the available fire extinguisher. If the fire can safely be extinguished with available materials, appropriate actions should be taken.

In the event of a larger fire, all personnel at the site must be immediately notified. Should the emergency coordinator determine that outside assistance is needed or notification of local emergency response authorities is warranted, he will:

1) Call the fire department first (dial "9-1-1").
2) Call local hospital.
3) Call the Sheriff's Office.

In the event of a large fire creating oily material at the site, the following procedure shall be implemented:

1) The area shall be diked with absorbent to prevent spreading;
2) Absorbents shall be spread to clean up material;
3) The absorbents shall be contained in 55 gallon steel drums;
4) The drums shall be properly disposed of through the County's Hazardous Waste Disposal Contractor.

All materials needed for clean up and disposal are stored at the Household Hazardous Waste Collection Center located at the northwest corner of the West Pasco Class III Landfill.

Refer to Appendix D for additional information.

d. FOLLOW UP

The emergency coordinator must note in the operating record the time, date, and details of any incident which requires implementing the Contingency Plan. The coordinator must develop a written report on the incident within 15 days after its occurrence. The report shall include the following information:

1) All information included in the initial emergency notification and information indicated above. The report should also include information updating the original report.
2) Actions taken to respond to and contain the run-off/release resulting from the fire.
3) An assessment of actual or potential hazards to human health and the environment where this is applicable. This should include any known or anticipated acute or chronic health risks associated with the run-off/release resulting from the fire.
4) Advice regarding medical attention necessary for exposed individuals.

5) Estimated quantity and disposition of recovered materials that resulted from the incident (contaminated soils).

6) A critique of the emergency response plan and how it was implemented.

Copies are to be forwarded to local and State emergency groups.

7. A COPY OF THE FIRE SAFETY SURVEY.

A copy of the recent Fire Safety Survey for the waste tire collection and storage area at the West Pasco Landfill is presented in Appendix C.

8. A DESCRIPTION OF HOW 75% OF THE ANNUAL ACCUMULATION OF WASTE TIRES WILL BE REMOVED FOR DISPOSAL OR RECYCLING.

Pasco County will maintain an annual contract with a private company for the periodic processing of waste tires for use as initial cover at the SW-1 cell of the Class I landfill or fuel in the waste energy facility.

C. CLOSING PLAN FOR THE FACILITY AS REQUIRED BY RULE 62-711-700(2) AND (3), F.A.C.

(2) In closing any waste tire site the owner or operator shall:

(a) Stop public access to the site;

(b) Post a notice indicating that the site is closed and giving the phone number of the county solid waste authority;

(c) Notify the Department and county government of the closing;

(d) Remove all waste tires and residuals to a waste tire processing facility, solid waste management facility authorized to accept waste tires, or a legitimate user of waste tires.

(e) Remove any solid waste to a permitted solid waste management facility; and

(f) Notify the Department when closing is complete.

Upon closing of the waste tire site at the West Pasco Landfill, the operator of the facility shall comply with the requirements of 62-711.700 (2) as stated above.

(3) All permits issued under this rule shall include an approved closing plan. The closing plan shall include:

(a) A description of how the closing requirements of subsection (2) above will be met:

1. The operator of the waste tire site shall stop public access to the site by, posting a sign stating the site is closed, indicating where to dispose of tires, and posting a phone number to obtain further information.

2. The operator shall notify the Department of Environmental Protection of intent to close the site.

3. All waste tires shall be processed, removed from the site and relocated to the landfill lined disposal area, together with the processing residuals.

4. The operator shall notify the Department upon completion of closure and request site inspection.

(b) A closing schedule, including time period for completion,

The operator shall include the closing schedule in the notification to the Department of intent to close the site.

(c) A plan for site rehabilitation if any contamination or other threat to the public health or environment is discovered; and

The operator shall include a plan for site rehabilitation, if required, at time of notification to the Department of intent to close the site.

(d) Proof of financial assurance pursuant to Rules 62-711.510(2) - (4), F.A.C.

The West Pasco Landfill has meet the financial assurance requirements (Appendix G) of Rule 62-701.630, F.A.C., and therefore a separate financial assurance documents will not be submitted.

APPENDIX A

TOPO/SECTION MAP
LEGAL BOUNDARIES
AERIAL PHOTOS

4/10/96
to 4/19/96

APPENDIX B

STORAGE AREA REQUIREMENT CALCULATIONS

LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO:	40141-5-0868, Phase 01, Task 101
JOB NAME:	West Pasco Landfill
ENGINEER:	J. Sink DATE: 06/26/96
CHECKED:	CEW DATE: 6/26/96
SHEET:	1 of 2

Storage Area Requirement Calculations

Based on 3" by 3" chips

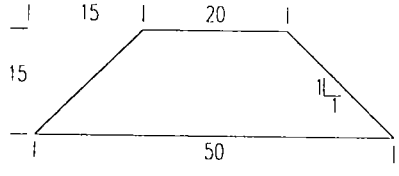
Average Processing Rate:		10 tons/hr
Peak Processing Rate:		10 tons/hr
Minimum Processing Time:		2
Daily Processing Through-put	=	Average Processing Rate * (8 hrs)
	=	80 tons/day
Maximum Storage Limits (per 62-711.530 (2)(a))	=	Average Daily Through-Put * (30 times)
	=	2,400 tons
Maximum Annual Storage Capacity	=	Maximum Storage Limits x Minimum Processing Times
		4,800 tons

Annual Through-put	=	2,000 tons
Minimum Processing Times	=	2 events
Through-put per processing event	=	1,000 tons/event
"Quantity" [per 62-711.200(7)]	=	200 pound/cubic yard
Volume of Required Storage	=	Through-put per processing event / "Quantity"
	=	10,000 cubic yards

Maximum Pile Size [per 62-711.540(3)(b)]:

Area	=	10,000 square feet
Width	=	50 feet
Length	=	200 feet
Height	=	15 feet

Typical Cross-Section =



Volume of Storage per Liner Foot = (15 ft x 15 ft) + (20 ft x 15 ft) / 27 ft/yd3

= 19.44 cubic yards/liner foot

Required Pile Length = Volume of Required Storage / Volume of Storage per Liner Foot

= 514 feet

Plus End Slopes for Three Piles = 3 piles x (15 ft + 15 ft)

= 90 feet

Total Required Pile Length = Required Pile Length + End Slopes

604 feet

Therefore: Three piles of maximum dimensions will be required.

LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO:	40141-5-0868, Phase 01, Task 101
JOB NAME:	West Pasco Landfill
ENGINEER:	J. Sink DATE: 06/26/96
CHECKED:	RGW DATE: 6/28/96
SHEET:	2 of 2

Storage Area Requirement Calculations for 1996

Based on 3" by 3" chips

Average Processing Rate:	10 tons/hr
Peak Processing Rate:	10 tons/hr
Minimum Processing Time:	4

Daily Processing Through-put = Average Processing Rate * (8 hrs)
= 80 tons/day

Maximum Storage Limits (per 62-711.530 (2)(a)) = Average Daily Through-Put * (30 times)
= 2,400 tons

Maximum Annual Storage Capacity = Maximum Storage Limits x Minimum Processing Times
9,600 tons

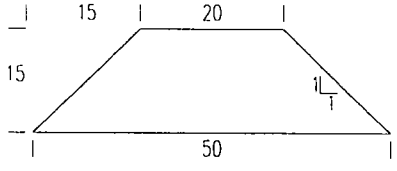
Annual Through-put = 5,100 tons
Minimum Processing Times = 4 events
Through-put per processing event = 1,275 tons/event

"Quantity" [per 62-711.200(7)] = 200 pound/cubic yard
Volume of Required Storage = $\frac{\text{Through-put per processing event}}{\text{"Quantity"}}$
= 12,750 cubic yards

Maximum Pile Size [per 62-711.540(3)(b)]:

Area	=	10,000 square feet
Width	=	50 feet
Length	=	200 feet
Height	=	15 feet

Typical Cross-Section =



Volume of Storage per Liner Foot = $\frac{(15 \text{ ft} \times 15 \text{ ft}) + (20 \text{ ft} \times 15 \text{ ft})}{27 \text{ ft/yd3}}$
= 19.44 cubic yards/liner foot

Required Pile Length = $\frac{\text{Volume of Required Storage}}{\text{Volume of Storage per Liner Foot}}$
= 656 feet

Plus End Slopes for Three Piles = 4 piles x (15 ft + 15 ft)
= 120 feet

Total Required Pile Length = Required Pile Length + End Slopes
776 feet

Therefore: Three piles of maximum dimensions, and one pile with a length of 176 feet, will be required for the year 1996.

APPENDIX C

PASCO COUNTY FIRE SERVICE
FIRE INSPECTION REPORT

PASCO COUNTY FIRE SERVICE

FIRE INSPECTION REPORT

BUSINESS NAME West Pasco Resources Recovery FIRE NUMBER FI 95-01+308

BUSINESS ADDRESS 14606 Hwy 5 Rd PHONE NUMBER

CITY Shady Hill Hudson STATE FL ZIP 34667

OCCUPANCY Ind YEAR BUILT STORIES CONST. TYPE

SPRINKLERS STANDPIPES ALARM SYSTEM MAX. OCCUPANT LOAD

Date 11/30/95 Time 11:55 Type of Insp. Tire area

Date of Last Insp. / /

Notice of Fire Safety Hazards: You are hereby notified that an inspection of your premises has disclosed the following fire safety hazards and/or violations of the provisions of the appropriate state and/or local codes.

CODE #	TYPE	COUNT	DESCRIPTION
			Maintain an 50' area OPEN
			buffer zone around the tire
			area. There are no unsafe
			conditions at this site.
		NOTE	I would like to recommend
			that the tire storage area
			be move away from the High
			Power lines in order to eliminate
			any problems in case of a fire.
			This can be in the future.

Order To Comply: In accordance with section 8-7 of the Pasco County Fire Prevention And Protection Code, your are required to correct the above conditions on or before / /. An inspection to determine whether you have complied will be conducted on or about this date. Failure to comply with the foregoing order before the date of such reinspection may render you liable to the penalties provided by law for such violation.

You have the right, within twenty-four (24) hours of service of this Order to Comply, to appeal to the Pasco County Fire Marshal at: 4111 Land O Lakes Blvd., Land O Lakes, FL Phone: (813) 929-1250.

Owner/Occupant Signature

Print Name Here

Fire Safety Inspector Signature

Print Name Here

Approved: An inspection of the above premises has been made and there have been no violations found.

Owner/Occupant Signature

Print Name Here

Fire Safety Inspector Signature

CHARLES OFRIA

Print Name Here

APPENDIX D

CONTINGENCY PLAN/EMERGENCY PREPAREDNESS MANUAL

EMERGENCY PREPAREDNESS MANUAL

PASCO COUNTY GOVERNMENT
UTILITIES FISCAL SERVICES/
SPECIAL PROJECTS AND DEPARTMENT

WASTE TIRE COLLECTION AND
STORAGE SITE

AT HAYS ROAD
SPRING HILL, FLORIDA

JULY 1996

INTRODUCTION

Pasco County owns and operates a permanent pubic waste tire collection and storage site registered with Florida Department of Environmental Protection (FDEP), Permit No. SO51-182279.

The site is part of a large Solid Waste Management Complex (800 acres) that includes the West Pasco Class III Landfill, the Pasco County Waste-to-Energy Facility, an Ash Cell, a Recycling Center, and a Household Hazardous Waste Center (Figure 1).

PURPOSE AND SCOPE

The purpose of this plan is to provide information and guidance for responses to emergency incidents (fire) at the Pasco County waste tire collection and storage site.

This plan is deemed by us quite sufficient to encompass all facets of activities at the waste tire site. This plan, however, will be subjected to review by fire fighting agencies in the County and will be updated as the situation dictates.

SITE FUNCTION AND LIMITATIONS

The purpose for establishing this site is to provide the County residents and County businesses with a means by which they can safely dispose of their waste tires in an environmentally sound manner. By so doing, removing a fire hazard and reducing or eliminating mosquito breeding grounds can be achieved in Pasco County. An additional benefit is the utilization of chipped waste tires as fuel in electrical cogen at the County's Waste-to-Energy Facility.

The waste tire site is designed to safely accommodate a relatively large number of waste tires. It also provides a space for derimming and an on-site tire chipping several times annually. The site is also used for educational purposes and is visited by a number of school children and other institutions. Tires are stored for a minimum amount of time and always processed as soon as it is humanly possible. No waste of any kind is generated at the site.

SITE DESCRIPTION

The waste tire collection, storage and processing area is approximately 360 X 500 feet and is located in the north central portion of the Solid Waste Management Complex (Resource Recovery) (Figure 1.). The total complex is secured by a six-foot chain link fence and two security gates one of which is electronically controlled. Waste tires can be stored in piles in three designated areas 200 feet long.. The areas are 50 feet wide and the maximum height of piles is 15 feet. The processed tires can be stored in a designated area 200 feet long by 50 feet wide. There is a 50 feet square area designated for temporary storage of rims The ground surface is covered with compressed limerock and the area surrounded by a 50 feet wide fire lane and an earth berm in order to prevent run off in case of fire. The total complex is devoid of any water body. However, a well head an a fire hydrant located within 3,000 feet (250 gpm) of the site will be used as a water

source to suppress the fire in case of a fire accident. The storage area is accessible through a paved road and is posted with information and no open flame signs.

The site is open to the public six days a week. Prior to reaching the site itself to unload, cars and trucks loaded with tires must first proceed to a scale house where weights are recorded and records are maintained. Hours of operations and fee schedules are posted at the entrance to the scale house.

The waste tire collection and storage site as well as the total Solid Waste Management Complex is under the observation of the site attendants who are in constant communication by radio with each other and with the scale house attendant (also with the base). Fire protection equipment is stored at the scale house and maintenance building, inspected and certified twice a year, and is readily available for usage in case of a fire.

PREPAREDNESS

Local fire department, hospital, and Sheriff's Office have been notified, and will be kept apprised of the operations at the Waste Tire Collection and Storage site at the West Pasco Landfill at 14230 Hays Road, Spring Hill, Florida 34610. A site diagram will be provided, as well as a copy of all revisions. Approximately 1,000 tons of waste tires are accumulated and stored on site between the two processing events per year..

The on-site copies of this manual will be maintained in the Class III Landfill Operations Trailer, the Scale House, and the Resource Recovery Facility, located at the West Pasco Landfill, 14230 Hays Road, Spring Hill, Florida 34610.

The off-site copy of this manual is maintained in the Pasco County Board of County Commissioners, Utilities Services Branch, 7530 Little Road, New Port Richey, Florida 34654.

EMERGENCY NOTIFICATION LIST:

Local Police Department:
Pasco County Sheriff's Office
7530 Little Road
New Port Richey, Florida 34654
(813) 847-5878

Local Fire Department:
Station No. 20
15900 Little Ranch Road
Hudson, Florida 34669
(813) 856-5519

Station No. 21
S.R. 52 and South Road
Hudson, Florida 34667
(8130 856-3259

Local Fire Tower:	Department of Forestry S.R. 52 West Land O' Lakes, Florida 34639 (813) 754-6777
Local Hospital:	HCA Bayonet Point/Hudson Medical Center 14000 Fivay Road Hudson, Florida 34667 (813) 863-2411
Environmental:	Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619-8318 (813) 744-6100

Every effort shall be made to operate the site in a safe manner. All necessary materials to contain small fire and minor run off are maintained on site as outlined on the emergency supply list indicated below. the ability to clean up all residues, thereof, is also available.

EMERGENCY SUPPLIES LIST

Materials	Equipment	Personal Protection Equipment
Absorbents	Two-Way Radios	Impervious Coveralls
Absorbent Pads	Front-End Loader	Chemically Resistant Gloves
Drums	Track Excavator	Respirators and Cartridges
Over-Packs	Dozers	Hard Hats
Barricades	Shovels	Face Shields
Brooms	Fire Extinguishers	Face Masks
	SCBA Cylinders	Goggles
	Camcorder	
	First-Aid Kits	

SITE LAYOUT

See Figure 1 for site layout, waste tire collection center location, entrances and exits to the site, and location of water wells that could be used to abate a potential fire. Please note the security fence surrounding the whole complex and the scale house where vehicles are checked and directed toward the tire collection site.

EMERGENCY RESPONSE COORDINATORS AND EMERGENCY RESPONSE TEAM

1. EMERGENCY RESPONSE COORDINATOR

a. Primary: Vincent Mannella, P.E.
Solid Waste Facility Manager

Address: 7530 Littel Road
New Port Richey, FL 34654

Telephone: Work (813) 847-8145
Home (813) 868-7205
Beeper: (813) 844-4710

Responsibility: The primary emergency response coordinator to mobilize staff, if necessary; to prepare emergency equipment; to assist local response agencies, if needed to; and to supervise the cleaning up operations after the fire is completely abated.

b. Secondary: Ronald J. Walker
Solid Waste Superintendent

Address: 143230 Hays Road
Spring Hill, FL 34610

Telephone: Work (813) 861-3004
Home (813) 856-6685

Responsibility: To assist the primary emergency response coordinator to mobilize staff, if necessary; to prepare emergency equipment; to assist local response agencies, if need to; and to supervise the cleaning up operations after the fire is completely abated.

c. Staff and Equipment Coordinator: Jim Geiger

Address: 14230 Hays Road
Spring Hill, FL 34610

Telephone: Work (813) 861-3053
Home (813) 842-3714

Responsibility: In charge of cleaning up operations, assign tasks to all participants, supervise packing and disposal of contaminated soil, absorbents, brooms, etc.

d. Chain of Command:

Until the arrival of the fire marshal and local response agencies, the County personnel will take command of the site. The chain of command will be as follows:

Emergency Response Primary Coordinator

Vincent Mannella, P.E.
Solid Waste Facility Manager

Emergency Response Secondary Coordinator

Ronald J. Walker
Solid Waste Superintendent

Staff and Equipment Coordinator

Jim Geiger
Landfill Operator

In an emergency situation where local authorities are called in, the senior officer of the responding agency (Pasco County Fire Department) shall assume commend of the operations. County staff will then take a secondary position and can only provide assistance if requested. Equipment will also be made available to the agency involved. However, County staff will be heavily involved in the clean-up operations after the site is secured and the fire is put out.

PREVENTION OF EMERGENCY SITUATIONS

Operations at Pasco County's waste tire collection and storage site shall be conducted in a manner that maximizes the safety of the staff, the safety of the public, and the safety of the environment. "No open flame" signs will be posted at the site, and no smoking will be permitted at the site. Residents bringing in their waste tires are instructed at the entrance (scale house) of safety rules, protocol, and how and where to unload their vehicles.

The prevention of fire at our waste tire center is a primary goal for our staff. We recognize the fact that in dealing the stock piles of scrap tires, prevention is of paramount importance because of the potential size, environmental impact, deviation, and costs of a tire fire. Therefore, pre-fire plans are installed to included the following:

1. The perimeter of the site has a chain link fence with two security gates. Clearly visible signs with business hours are posted near the site entrance. A site attendant is always present on site during working hours.

2. The waste tire collection site is provided with emergency vehicle access routes. No portion of the waste tire pile is more than 150 feet from the access routes.

3. The access routes to the tire pile are designed to support the loads imposed by heavy machinery and trucks similar to those used by the fire fighting vehicles and equipment.

4. Access routes are all blacktop paved roads.

5. Access routes are unobstructed, can be used year round, are well maintained, and are accessible to the fire department at all times.

6. The tire pile is designed to be limited to 15 feet in height with a maximum perimeter of 200 feet by 50 feet. The edges of the pile are 50 feet from the perimeter and are void of debris or vegetation.

7. No buildings, vehicles, chemicals, or flammable materials are permitted within 250 feet of the tire pile.

8. Tires are stored on compressed limerock foundation. Tires are kept on level surface and no surface waters of any kind are nearby.

9. No open air burning is permitted anywhere on the total complex. No smoking is allowed near or within 200 feet of the pile.

10. One water supply well located at the complex will provide adequate water to suppress a fire in case of fire incident (see Figure 1).

11. All vehicles (e.g., front-end loader, trucks) operating at the tire storage area are equipped with a fire extinguisher.

12. Site inspections are conducted by the Pasco County Fire Marshal on an annual basis.

EMERGENCY PROCEDURES

In a major fire it is unlikely that the County resources are sufficient to completely control the fire. In this case, the goal of our staff is to protect the site, evacuate when needed, and immediately notify the local fire agency.

Whenever an actual emergency situation arises, the emergency coordinator on site shall take the responsibility for implementing this Contingency Plan. The emergency coordinator must immediately identify the nature, extent, and location of fire (where in the pile and fire started). Furthermore, the emergency coordinator must also assess possible hazard to the human health and the environment caused by the fire. Evacuation of civilians, a life safety consideration, should be considered as a highest priority by the coordinator. No strategy for managing the incident should bypass evacuation consideration. Any areas exposed to the smoke plume or subject to such exposure from shifting winds should be evacuated as a precaution.

Should an emergency occur, the emergency coordinator must take reasonable measures to ensure that the fire will not spread to the rest of the pile or to the adjacent facilities or equipment. If the fire is minor, loaders may be used to remove the unaffected tires from the piles. Extinguishers and water hoses may assist in this case. If the fire is major, neither the emergency coordinator nor his staff should approach the pile; this should best be left for the local fire agency which is equipped to handle such a situation.

Public agencies, as identified in the pre-fire plan, should be contacted in the earliest possible stages of the incident. If possible, the emergency coordinator should provide the local fire agencies with any information pertinent to the incident prior to their arrival on the fire ground.

The use of heavy equipment such as front-end loaders and mid-size bulldozers are necessary in gaining access and removing unburned tires from the pile. Since the responding fire agencies may not provide such equipment, the emergency coordinator may be inclined to provide this task using County equipment (on site) and staff. Furthermore, in many cases, the only effective means of managing large tire fires is by smothering the burning portions with dirt or fill materials. In this case the coordinator could provide this service since a pile of fill dirt is always present at or near the tire pile (used for initial cover at the SW-1 cell of the Class III landfill).

During emergencies, accurate information gathering is essential. Such information could be coordinated and provided by the emergency coordinator. Examples include gauging the hot spots, the fire's location, and rate of spreading.

In the event of a small fire, the person discovering this fire (an attendant) must make a determination as to whether or not it can be extinguished safely and quickly with the available fire extinguishers, and/or smothered with available dirt. If it is determined that the fire can be easily extinguished with the available tools, notification of emergency coordinator should then be followed by taking an appropriate action.

The emergency response coordinator shall be notified immediately, and he shall determine if the site should be evacuated and if local agencies need to be immediately contacted.

If the person(s) first discovering the fire assesses the situation and determines that the fire cannot be handled by the staff at the site, the fire department, the Sheriff's Office, and the local hospital will be immediately notified. This person(s) also should immediately order an evacuation of the personnel on site.

In the event of a large fire creating oily material at the site, the following procedure shall be implemented:

1. The area shall be diked with absorbent to prevent spreading;
2. Absorbents shall be spread to clean up material;
3. The absorbents shall be contained in 55 gallon steel drums;
4. The drums shall be properly disposed of through the County's Hazardous Waste Disposal Contractor;
5. If the oily substance begins to flow toward the pond, the bucket loader or some other similar equipment shall be used to block the storm-water pond outlet to prevent spreading of material.
6. Remove contaminated soil and dispose of it in the landfill.

All materials needed for clean up and disposal are stored at the Household Hazardous Waste Collection Center located at the northwest of the Class III.

EVACUATION

Evacuation routes are depicted in Figure 2. In case of emergency and the on-site emergency coordinator deems it necessary to evacuate, he/she shall give the instructions to immediately evacuate. Upon receiving the instruction, the staff shall leave the site by the nearest exit. Special attention will be paid to County residents and visiting guests present on the site to ensure their safety and assist their egress.

Upon excavation of the site, all personnel are to proceed directly to the rallying point. Upon evacuation, all non-responsive personnel shall be kept a safe distance from the site. Traffic on roads leading into the complex will be stopped or rerouted, if necessary.

NOTIFICATION

In the event of fire, all personnel at the site must be immediately notified. Should the emergency coordinator determine that outside assistance is needed or notification of local emergency response authorities is warranted, he should:

1. Call the fire department first (dial "9-1-1").
2. Call the local hospital.
3. Call the Sheriff's Office.

The emergency coordinator must be available to help the local emergency authorities. Should the coordinator decide that evacuation of the local area is advisable, he should notify the above three agencies of his assessment. Having done so, the emergency coordinator must then proceed to inform the environmental protection agencies at the local, State, and Federal levels.

FOLLOW UP

The emergency coordinator must note in the operating record the time, date, and details of any incident which requires implementing the Contingency Plan. The coordinator must develop a written report on the incident within 15 days after its occurrence. The report shall include the following information:

1. All information included in the initial emergency notification and information indicated above. The report should also include information updating the original report.
2. Actions taken to respond to and contain the run-off/release resulting from the fire.
3. An assessment of actual or potential hazards to human health and the environment where this is applicable. This should include any known or anticipated acute or chronic health risks associated with the run-off/release resulting from the fire.

4. Advice regarding medical attention necessary for exposed individuals.

5. Estimated quantity and disposition of recovered materials that resulted from the incident (contaminated soils).

6. A critique of the emergency response plan and how it was implemented.

Copies are to be forwarded to local and emergency groups.

AFTER THE FIRE CLEAN-UP

Environmental impacts associated with large tire fire could be substantial. Extreme heat turns rubber into oil. A standard passenger car tire can generate about two gallons of oil as it burns and liquefies. The danger associated with this toxic oil is that it could leach into the soil and read the shallow drinking water aquifer thus contaminating a very valuable drinking water source.

It is imperative to contain the run off from the pile as well as all residue resulting from the incident. A tire fire should be treated as a hazmat incident. Environmental contamination must be monitored for ground water and soil (there are no surface waters at the site).

Ground-water monitoring is done at our site. Air pollution monitoring will be best left to the Florida Department of Environmental Protection to carry out since they are better equipped to handle this task.

Immediately after the emergency, the emergency coordinator shall provide for treating, storing, or disposing of recovered waste, contaminated soil, or any other material that results from the fire.

The emergency coordinator must ensure that in the affected areas of the site:

1. All clean-up operations are completed.

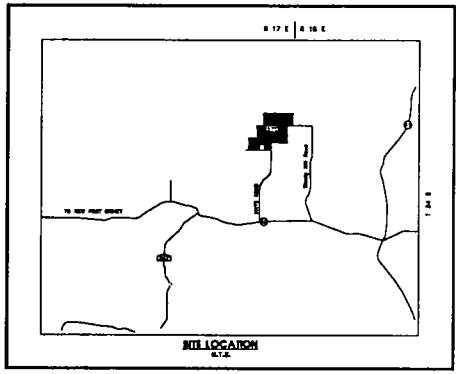
2. All emergency equipment listed in this Contingency Plan and indicated earlier are cleaned and ready for its intended use (if used) before the waste tire collection site is open for business again.

Contaminated equipment shall be cleaned with an appropriate solvent, and the discarded solution handled in an environmentally sound manner (may be treated as hazardous waste). Contaminated soils could be incinerated at a hazardous waste incinerator or sent to a secured landfill.

PASCO COUNTY
BOARD OF COUNTY COMMISSIONERS

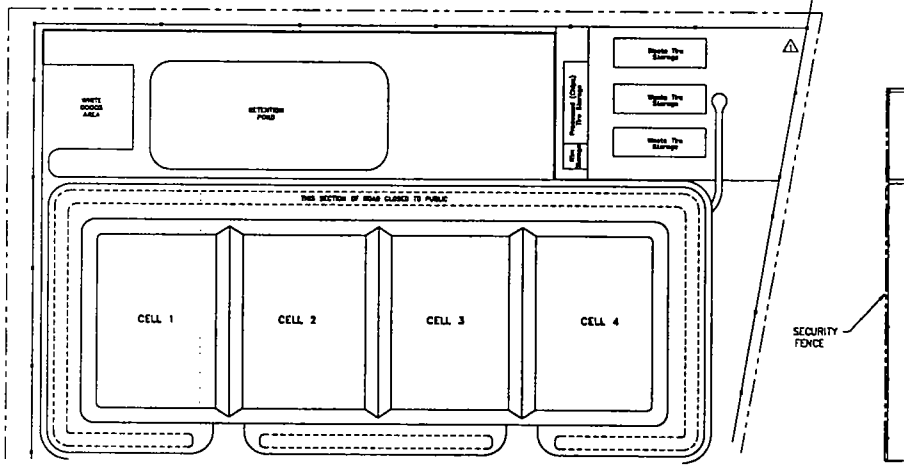
PERMIT DRAWINGS FOR
WASTE TIRE PROCESSING FACILITY
AT
RESOURCE RECOVERY FACILITY

PREPARED BY
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
TAMPA, FLORIDA



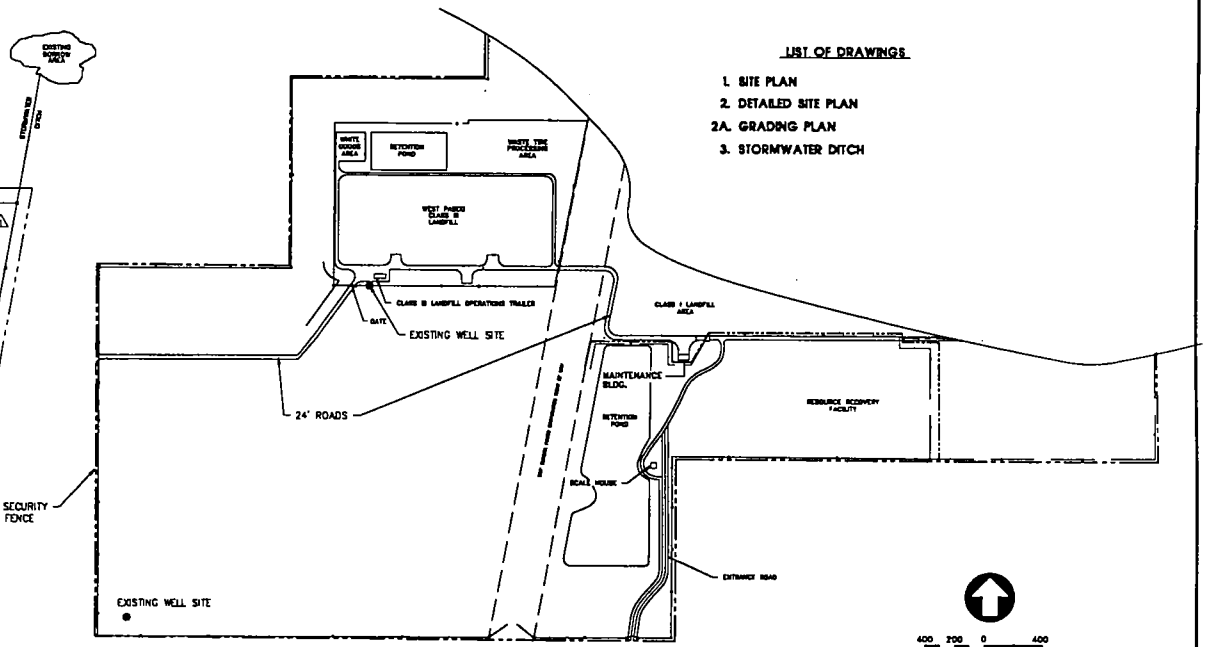
LIST OF DRAWINGS

1. SITE PLAN
2. DETAILED SITE PLAN
2A. GRADING PLAN
3. STORMWATER DITCH



SITE PLAN

NOT TO SCALE



SITE PLAN

NOTE: BASE FROM RECORD DRAWINGS by COM, INC.

ACAD#41508681

REV	DATE	BY	SUB	APP	DESCRIPTION
1	6/96	JFW		REM	FDEP COMMENTS

DESIGNED JFW/REM
DRAWN JFW
CHECKED REM
IN CHARGE REM
DATE 2/96

PASCO COUNTY BOARD of COUNTY COMMISSIONERS
UTILITY SERVICES BRANCH

SUBMITTED _____ APPROVED _____

LAW

WASTE TIRE PROCESSING FACILITY
WEST PASCO LANDFILL
PASCO COUNTY, FLORIDA

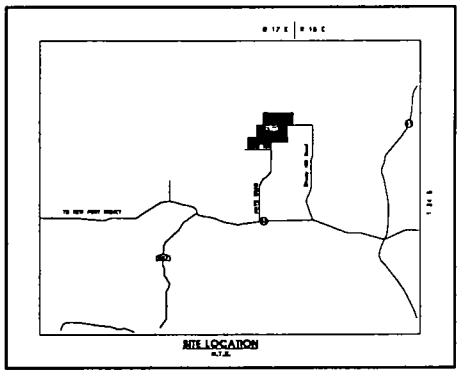
SITE LAYOUT

SCALE: AS NOTED
CONTRACT: 40141-5-0868.0003
DWG NO: 1
REV/PAGE NO.

PASCO COUNTY
BOARD OF COUNTY COMMISSIONERS

PERMIT DRAWINGS FOR
WASTE TIRE PROCESSING FACILITY
AT
RESOURCE RECOVERY FACILITY

PREPARED BY
LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.
TAMPA, FLORIDA



LIST OF DRAWINGS

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2A. GRADING PLAN
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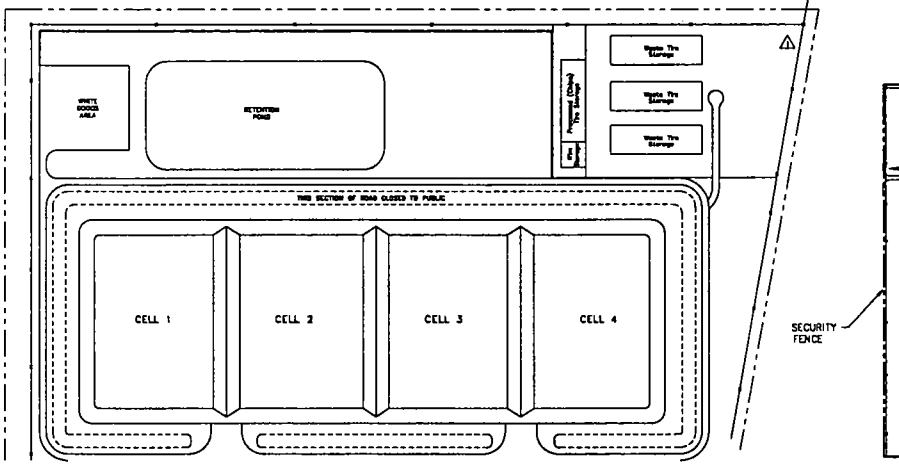
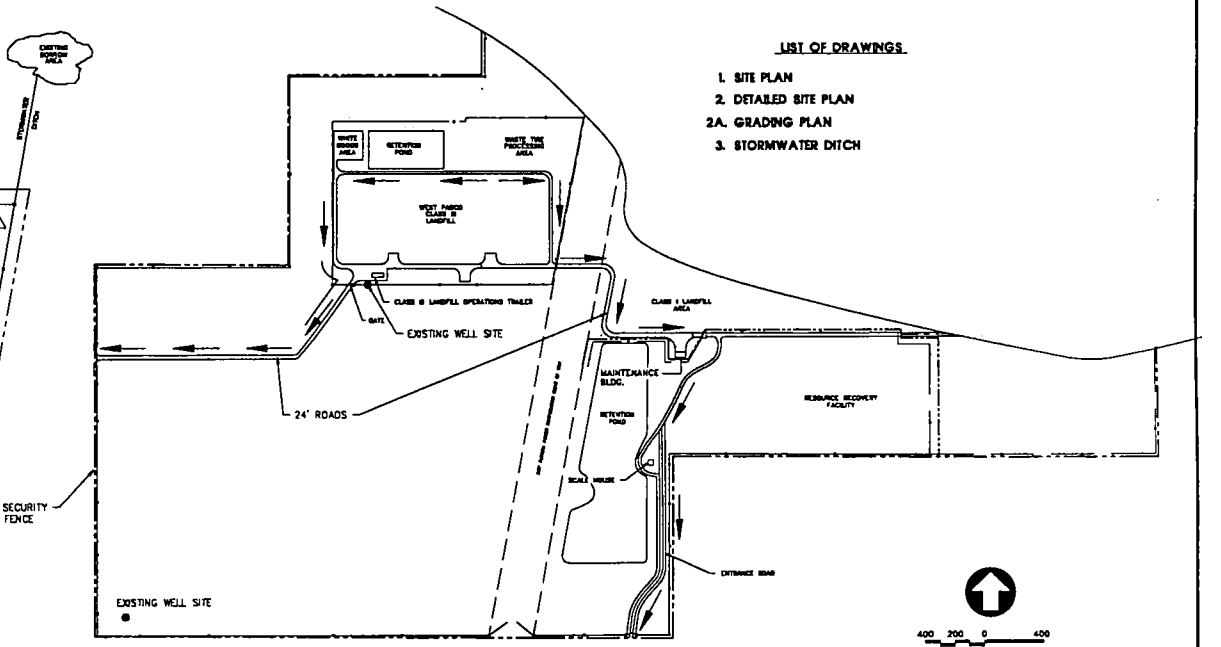


SITE PLAN

NOT TO SCALE



SITE PLAN

NOTE: BASE FROM RECORD DRAWINGS by CDM, INC.

ACAD=41508881

REV	DATE	BY	SUB	APP	DESCRIPTION
1	5/96	JFW		REM	FDEP COMMENTS

DESIGNED JFW/REM
DRAWN JFW
CHECKED REM
IN CHARGE REM
DATE 5/96

PASCO COUNTY BOARD of COUNTY COMMISSIONERS
UTILITY SERVICES BRANCH

SUBMITTED

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

APPROVED

WASTE TIRE PROCESSING FACILITY
WEST PASCO LANDFILL
PASCO COUNTY, FLORIDA

EVACUATION ROUTES

SCALE: AS NOTED
CONTRACT: 40141-5-0868.0003
DWG NO: 2
REV/PAGE NO.

APPENDIX E

QUARTERLY REPORT

Environmental Protection

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

Form Title
Effective Date
DEP Application No.
(Filled in by DEP)

Waste Tire Processing Facility Quarterly Report

Pursuant to Rule 62-711.530, Florida Administrative Code, the owner or operator of a waste tire processing facility shall submit the following information to the Department quarterly.

Quarter covered by this report: 1st Quarter (3/31/96) (First quarter begins on January 1 of any given year)

1. Facility name: West Pasco Recycling Center and Class III Landfill
2. Facility mailing address: 7530 Little Road, Public Works/Utilities Bldg., Suite 204
   City: New Port Richey, County: Pasco Zip: 34654
3. Facility permit number: S051-182279
4. Facility telephone number: (813) 847-8041
5. Authorized person preparing report: Farouk El-Shamy
6. Affiliation with facility: Environmental/Hazardous Manager
7. Telephone number (if different from above): ( ) Same
8. Activity: Report in tons.

	Beginning Inventory	Received	Processed	Consumed	Removed	Adjustments	Ending Inventory
Used Tires	5,692	1,392	5,151				1.933
Other whole tires		–	–				–
Processed tires		–	–				–
Processing Waste		–	–				–
Other		–	–				–
Total	5,692	1,392	5,151				1,933

a. Explain all inventory adjustments. N/A

b. List any period in which one or more category of inventory exceeded the permitted maximum for that category. How was that condition relieved? N/A

For any excess inventory at the end of the quarter, state how and when this condition will be relieved. Attach additional sheets, if necessary. N/A

9. Certification:

To the best of my knowledge and belief, I certify the information provided in this report is true, accurate and complete.

Douglas S. Bramlett
Name of Authorized Agent

Signature of Authorized Agent

6/5/96
Date

Assistant County Administrator
(Utilities Services)

Mail complete form to the appropriate district office.

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

DEP Form # 62-711.900(3)
Form Title: Waste Tire Site Notification
Effective Date: February 22, 1995
DEP Application No. _____
(Filled in by DEP)

Waste Tire Site Notification

Pursuant to Rule 62-711.500, Florida Administrative Code, the owner or operator of any waste tire site shall submit the following information on this form to the Department by April 1.

1. Site name: West Pasco Recycling Center and Class III Landfill
2. Site location:
   Street address (main entrance) 14230 Hays Road
   City Spring Hill County Pasco Zip 34610
   Section 25, Township 24 South, Range 17 East
   Latitude 28 22 5, Longitude 82 33 30 West
3. Name of site operator: Ronald Walker
4. Mailing address of site operator: 7530 Little Road, Public Works/Utilities Bldg., S-204
   City New Port Richey State FL Zip 34654
5. Telephone number of site operator: (813) 861-3004
6. Name of property owner (if different): Pasco COunty, Florida
7. Mailing address of property owner: Same as "4" above
   City _____ State _____ Zip _____
8. Telephone number of property owner: (___) _____
9. Size of the site property (dimensions): 4 Acres
10. Dimensions of the waste tire pile: Length 776 (*), Width 50, Height 15
11. Number of waste tires accumulated at the site (assume that there are 100 tires per ton, or 10 tires per cubic yard):
    Number of tires 510,000
    * = Six Tire Piles
12. Certification:

To the best of my knowledge and belief, I certify the information provided in this notification is true, accurate, and complete.

Douglas S. Bramlett
Name of Authorized Agent
Assistant County Administrator
(Utilities Services)

Signature of Authorized Agent

6/5/96
Date

Mail Completed form to
the appropriate district office
listed below

Northwest District
160 Government Center
Pensacola, Florida 32501-5794
904-444-8300

Northeast District
7825 Baymeadows Way Suite B200
Jacksonville, Florida 32256-7577
904-448-4300

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

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619-8218
813-744-6100

South District
2295 Victoria Avenue
Fort Myers, Florida 33901-3881
813-332-6975

Southeast District
1900 S. Congress Ave., Suite E
West Palm Beach, Florida 33406
407-433-2650

APPENDIX F

STORMWATER MANAGEMENT SYSTEM DESIGN

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

June 18, 1996

Randy R. Cooper
Engineer Southwest District
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject: **Storm-Water Management Data for Waste Tire Facility at the Resource Recovery Plant, Hays Road, Pasco County, Florida LAW Project 40141-5-0868**

Mr. Cooper:

Law Engineering and Environmental Services, Inc. (LAW), is providing the enclosed data for the proposed storm-water management system at the above referenced facility. The waste tire facility is within an 800 acre site that contains a Resource Recovery Plant, a Class I and a Class II landfill. The proposed water management system will not impact any off-site properties and the system does not impact any other facility on the site. Therefore LAW is requesting that the proposed system be permitted as a minor modification to the permitted storm-water management system.

In response to comments by Kim Ford about the permit application for construction and operation of the waste tire facility, we prepared the data that would be used for an Environmental Resource Permit, Form E. These data are enclosed to aid you in making your recommendation concerning the proposed system. If you have any questions please call at 813 289-0750.

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Richard E. Mayer

Richard E. Mayer, P. E.
Principal Engineer

Jon W. Sink, P.E.
Environmental Engineer

REM/JWS/cjs/40140/REPORT/T4150868.C&R

LAW ENGINEERING, INC.
4919 WEST LAUREL STREET • TAMPA, FL 33607
P.O. BOX 24183 • TAMPA, FL 33623
(813) 289-0750 • FAX (813) 289-5474
ONE OF THE LAW COMPANIES

PASCO COUNTY WASTE TIRE FACILITY

STORM-WATER MANAGEMENT SYSTEM DATA

Based on our review of the site and the threshold criteria in Part C, of the Southwest Florida Water Management District Information Manual a Standard General Permit is required for this facility because it has less than 100 acres project area and more than 2 acres impervious area. The forms that are required are a Joint Application, and Notice of Receipt and Form 547.27/ERP/(8/94)E. The joint application form and the notice of receipt do not seem appropriate for this application. However, the data for Form E is and is presented herein.

A storm-water management system has been designed for the waste tire processing area. The elements of the storm-water management system include a grading plan to direct flows to the northeast corner of the facility. The surface of most of the facility will be covered with limerock, except the north east corner which is a storm-water detention area and is to be grassed. A berm is to be constructed around the north and east side of the facility. The berm will have 3:1 side slopes. a "V" top and, for the most part, the top will be two feet above present land surface. A 24-inch by 36-inch elliptical pipe will be installed through the berm in the northeast corner to allow discharge of excess storm water during less frequent storm events. The discharge from the culvert will flow through a ditch to the borrow area that was excavated during recent construction of Cell A-2 of the Class I landfill.

Pipe sizing, berm height and ditch slope and dimensions were based on computer modeling using the Advanced Interconnected Pond Routing software. A copy of the output is provided herein. The proposed design will pass the once in 100-year, 24-hour storm event.

DATA REQUIREMENTS FOR FORM E

The various data required in Form E are repeated below in **bold** type with the required information or the location of the information in this application.

A. Site Information

1. Provide a map(s) of the project area and vicinity delineating USDA/NRCS (aka, SCS) soil types.

Response: Please refer to the enclosed soil survey map

2. **Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft., or more detailed, with project boundaries delineated on the aerial.**

Response: Refer to Drawing and Attachments.

3. **Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on-site wetland or surface water, including receiving waters into which runoff will be discharged. Include date, datum, and method used to determine these elevations.**

Response: N/A

4. **Identify the wet season high water table at appropriate locations on the project site. Include date, datum, and method used to determine these elevations.**

Response: Pasco County measures the water level in nearby wells and reports the data to the FDEP. These wells have been dry in recent years because the site is located on a topographic high. The highest ground-water elevation in recent years has been 37.20. This elevation is eight feet below the pond bottom. Therefore the seasonal ground-water level is not a factor to be considered in this design.

B. Environmental Considerations

Response: N/A

C. Plans

Provide clear, detailed plans for the proposed system which include specifications, plan, cross-section and profile views of the proposed project. The plans must be signed and sealed by an appropriate registered professional as required by law. These plans should show or include the following, as applicable:

1. **Project and total land area boundaries, including distances and orientation from roads or other land marks.**

Response: The Drawings show the project locations and boundaries and the topography is shown on the surveyors drawing as prepared by the Pasco County Surveyor.

2. **Existing land use, land cover, and on-site natural communities, including wetlands, other surface waters, aquatic communities, and uplands (acreage and percentages). Use the USF&W Service's Classification of Wetlands and Deepwater Habitats of the United States for wetlands or other surface waters on the project site. Assign each wetland or other surface water a unique identification number which is consistent in all exhibits.**

Response: No wetlands or other surface waters will be impacted by this project. The existing land use is part of an active Class III landfill.

3. **Existing topography extending at least 100 feet off site and includes adjacent wetlands and other surface waters. All topography shall include the location and description of known benchmarks, referenced to NGVD. For systems waterward of mean high water (MHW) or seasonal high water, show water depths at mean low water (MLW) in tidal areas or normal pool in non-tidal areas. For docking facilities show the location, depths and access to the nearest navigational channel.**

Response: Refer to Drawings.

4. **Floodplain boundary and approximate flooding elevations if the project is in the known floodplain of a stream or other water course. Identify the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site.**

Response: The project is not within the 100 year flood plain.

5. **Boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding wetland determination.**

Response: No wetlands are impacted within the project boundaries.

6. **Proposed land use, land cover and natural communities, including wetlands, other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management area (acreage and percentages). Use the same classification system and identification number used in C.2. above.**

Response: The land use will not change. Approximately 3.5 acres will be impervious because of the proposed limerock surface. The remainder of the site will continue have a grass cover .

7. **Proposed impacts to wetlands and other surface waters.**

Response: N/A

8. **Locations of buffer zones abutting wetlands.**

Response: N/A

9. Pre and post-development drainage patterns and basin boundaries. Show the direction of flow, including any off-site runoff being routed through or around the system and connections between wetlands and other surface waters,

Response: The pre and post runoff patterns will not be altered significantly. Refer to the drawings for existing and proposed contours.

10. **Location of all water management areas with details of size, side slopes and design water depths.**

Response: Refer to the drawings. All side slopes are 3:1 and water depths are less than 3.5 feet throughout the system.

11. **Location and details of all water control structures, control elevations, any seasonal water level regulation schedules and the location and description of benchmarks (minimum of one benchmark per structure).**

Response: Refer to the drawings. The water control structures consist of a pond and a culvert to allow passage of the runoff in a controlled manner. The discharge from the culvert will flow through a constructed ditch that discharges into a borrow area. The site has number of existing benchmarks so additional ones not proposed.

12. **Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads and buildings.**

Response: Refer to the Drawings.

13. **Location, size and design capacity of the internal water management facilities.**

Response: Refer to the Drawings which show an excavated pond area, a culvert outfall discharging into a ditch conveying runoff to a borrow area,

14. **Existing and proposed rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes.**

Response: The entire system is within the permitted area for the landfill operations . The storm-water pond area will be reserved for water management purposes only.

15. **Receiving waters or surface water management systems into which runoff from the developed site will be discharged.**

Response: The discharge from the pond will discharge into a ditch that will route flows to the recently excavated borrow area.

16. **Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions.**

Response: Proposed erosion control measures consist of staked hay bales or a silt fence for use during construction and grass as a permanent measure.

17. **Location, grading, design water levels, and planting details of all mitigation areas.**

Response: There are no impacted wetlands.

18. **Site grading details, including perimeter grades.**

Response: Refer to the Drawings sheet 2a.

19. **Temporary and permanent disposal sites for any excavated material.**

Response: Excavated soil will be used to grade the site.

20. Details of the dewatering plan including: delineation of areas to be dewatered, location(s) of dewatering facilities and discharge

Response: Dewatering is not anticipated.

21. For marina facilities, location of any sewage pumpout facilities, fueling facilities, boat repair/maintenance facilities, and fish cleaning stations.

Response: N/A

22. Location and description of any existing off-site features, such as structures, buildings, wetlands, other surface waters, storm-water ponds, which might be affected by of affect the proposed construction or development.

Response: There are no off-site features or structures which will be affected by the proposed development.

23. Master development plan, for phased projects.

Response: N/A

D. Construction Schedule and Techniques

Provide a construction schedule and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

1. Method for installing any pilings, seawall slabs or riprap.

Response: Riprap, sand cement type, will be installed in areas where there is potential for erosion at higher storm-water flow rates. Riprap will be installed in accordance with FDOT standards.

2. Schedule of implementation of a temporary or permanent erosion and turbidity control measures.

Response: Temporary erosion control such as silt fences will be installed at the start of the project and will be maintained functional until the grass stand is adequate to protect soils from erosion. The storm-water pond and perimeter berm will be constructed before any other grading is completed to assist with control of off-site discharge of sediment.

3. **Method and type of material to be excavated for work in wetlands or other surface waters.**

Response: It is not anticipated that material will be excavated for work in wetland on other surface waters.

4. **Source and type of fill material to be used for work in wetlands and other surface waters.**

Response: N/A

5. **Dewatering plan including: duration of dewatering; the methods for containing the discharge, methods of isolating dewatering areas, and time dewatering structures will be in place. A Water Use Permit may be required for dewatering.**

Response: Not required.

6. **Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge.**

Response: Access to the proposed development will be from Hays Road and internal road which are all paved. Equipment and materials will be transported to the site on Hays Road and other paved highways.

7. **Demolition plan for any existing structures to be removed.**

Response: No existing structure will be removed.

8. **Provide the name and address of the person who will construct the proposed project.**

Response: Pasco County will construct the proposed facility .

9. **Identify the schedule and party responsible for completing construction monitoring, record drawings, and as-built certifications for the project.**

Response: Pasco County plan to begin construction as soon as the permit is issued. The construction will be completed within three weeks following start. The County will provide certification of completion of construction with assistance from Law Engineering and Environmental Services, Inc.

E. **Drainage Information**

1. **Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows:**

   a. **Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;**

   Response: Please refer to the model input output data.

   b. **Seasonal high water table elevations including aerial extent and magnitude of any proposed water table drawdown;**

   Response: All modifications to the site are above the season high ground water level.

c. Normal, wet season, and design storm elevations of receiving water

Response: The outlet from the proposed storm-water management system does not discharge directly into a receiving water.

d. **Design storms used including rainfall depth, duration, frequency, and distribution**

Response: The proposed system will not impact any off site area. Therefore the system has been designed for reasonable service. A 25-year 24 hour recurrence interval event was used as the basis for design. The rainfall depth for the 25 year storm is 9 inches. The SCS Type II, Florida modified, rainfall distribution was used.

e. **Runoff hydrograph(s) for each drainage basin, for all required design storm event (s);**

Response: The Advanced Interconnected Pond Routing (ADICPR) model was used to calculate the runoff hydrograph for this development. That data is provided.

f. **Stage-storage computations for any area such as a reservoir, close basin, detention, area, or channel, used in storage routing;**

Response: Refer to the calculation sheets for stage storage computations.

g. **Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;**

Response: Refer to the calculations section.

h. Flood routings through on-site conveyance and storage areas;

Response: Flood routings were completed using ADICPR model. The model data are enclosed in the calculations section.

i. **Water surface profiles in the primary drainage system for each required design storm event (s);**

Response: Water depths in the developed area were calculated. The calculations are included in the calculations section.

j. **Runoff peak rates and volumes discharged from the system for each required design event (s);**

Response: The ADICPR model input/output data show rates and volumes of discharge.

k. **Tail water history and justification (time and elevation);**

Response: The site is not impacted from any receiving body.

l. **Pump specifications and operating curves for range of possible operating conditions (if used in system).**

Response: N/A

2. **Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions.**

Response: N/A

3. Provide the acreage and percentage of the total project, of the following:

   a. impervious surfaces, excluding wetlands;
   b. excluding previous surfaces (green areas not including wetlands);
   c. lakes, canals, retention areas, other open water areas;
   d. wetlands.

Response:

TYPE	ACREAGE
Impervious area	3.5
Lakes, canals and open water areas	000
Wetlands	0
Pervious areas	.5

4. **Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:**

   a. **Hydraulic calculations for all proposed traversing works;**
   b. **Backwater water surface profiles showing upstream impact of traversing works;**
   c. **Location and volume of encroachment within regulated floodplain (s);**
   d. **Plan for compensating floodplain storage, if necessary, and recalculations required for determining minimum, building and road flood elevations.**

Response: This does not appear to apply because the project is not within a floodplain.

5. **Provide an analysis of the water quality treatment system including:**

   a. **A description of the proposed storm-water treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis;**

Response: The pond will be a dry percolation pond in a closed basin. Based on the performance of other ponds at this site the pond will never have water in it. Historically, the percolation rate is such that no similar pond has ever had even one foot of water after major storm events Therefore, it is reasonable to deduct that the system proposed herein will percolate the required one half inch of runoff in 36 hours and the entire water quality runoff in 72 hours.

b. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.

Response: Refer to the Drawings and calculations.

6. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

Response: Refer to the response to 5 a above.

F. Operation and Maintenance and Legal Documentation

1. Describe the annual maintenance and operation schedule for the proposed system

Response: The system has been designed to be relatively maintenance free. The grass will be mowed on a monthly basis. Repairs to the structure will be performed as needed. Inlets and discharge pipes will be inspected at least monthly and cleared as needed.

2. Identify the entity that will be responsible for operating and maintaining the system in perpetuity, if different than the permittee. Provide a draft document enumerating the enforceable affirmative obligations of the entity to properly operate and maintain the system or its expected life and document the entity's financial responsibility for long term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit.

Response: The permittee will be responsible for operation and maintenance of the system.

3. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system.

Response: These documents have been furnished the FDEP on a number of occasions. Therefore, it is requested this requirement be waived.

4. Indicate how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included.

Response: Water for fire, potable requirements and irrigation are available on site as part of the landfill and resource recovery plant operation.

5. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant, including the project site.

Response: See Attachments.

6. **Provide a copy of the deed or other evidence of ownership, or in the case of an applicant, evidence of an easement or other documents evidencing authorization to perform the proposed work.**

Response: These documents were previously provided.

G. **WATER USE**

1. **Will the surface water system be used for water supply, including landscape irrigation, recreation, etc.?**

Response: No

2. **If a Water Use Permit has been issued for the project, state the permit number.**

Response: A Water Use Permit has not been issued for the project.

3. **If a Water Use Permit has not been issued for the project, indicate if a permit will be required and when the application will be submitted.**

Response: N/A

4. **Indicate how any existing wells located within the project site will be utilized or abandoned.**

Response: N/A

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

BASIN	MAX FLOW (cfs)	MAX TIME (hrs)	VOLUME (ins)
TIRES	18.76	12.70	7.24

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)
Copyright 1989, Streamline Technologies, Inc.

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

BASIN NAME: TIRES TIME INC (min) 1.00 LAG TIME (hrs) .00
NODE NAME TIRES RAIN AMT (ins) 9.25 BASIN STATUS ONSITE
RAINFALL FILE SCSII-24 STORM DUR (hr) 24.00

ELEMENT NUMBER	AREA (ac)	CURVE NUMBER	LENGTH (ft)	SLOPE (%)	MANNING N	DCIA (%)
1	3.500	90.000	480.000	.016	.015	.000
2	.500	40.000	130.000	.010	.300	.000
3	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000
5	.000	.000	.000	.000	.000	.000
6	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000
10	.000	.000	.000	.000	.000	.000

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
TIRES	18.76	12.70	7.24	PASCO CO. TIRE FACILITY 25YR STRM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)
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PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	MINIMUMS VALUE	MINIMUMS TIME (hr)	MAXIMUMS VALUE	MAXIMUMS TIME (hr)
TIRES	STAGE (ft):	45.00	6.42	47.18	13.25
	VOLUME (af):	.00	6.17	1.02	13.25
	RUNOFF (cfs):	.00	6.17	18.72	12.67
	OFFSITE (cfs):	.00	23.92	.00	23.92
	OTHER (cfs):	.00	23.92	.00	23.92
	OUTFLOW (cfs):	.00	11.92	12.36	13.25
BNDRY	STAGE (ft):	45.00	23.92	45.00	23.92
	VOLUME (af):	.00	11.92	2.19	23.92
	RUNOFF (cfs):	.00	23.92	.00	23.92
	OFFSITE (cfs):	.00	23.92	.00	23.92
	OTHER (cfs):	.00	11.92	12.36	13.25
	OUTFLOW (cfs):	.00	23.92	.00	23.92

BASIN NAME: TIRES TIME INC (min) 1.000 LAG TIME (hrs) .000
NODE NAME TIRES RAIN AMT (cm) 12.500 BASIN STATUS ONSITE
RAINFALL FILE SCSII-24 STORM DUR (hr) 24.000

ELEMENT NUMBER	AREA (ha)	CURVE NUMBER	LENGTH (m)	SLOPE (%)	MANNING N	DCIA (%)
1	3.500	90.000	480.000	.016	.015	.000
2	.500	40.000	130.000	.010	.300	.000
3	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000
5	.000	.000	.000	.000	.000	.000
6	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000
10	.000	.000	.000	.000	.000	.000

NOTE: PASCO CO. TIRE FACILITY 100YR STRM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

CONTROL PARAMETERS

START TIME: .00
END TIME: 24.00

TO TIME (hours)	SIMULATION INC (secs)	PRINT INC (mins)
24.00	15.00	5.00

RUNOFF HYDROGRAPH FILE: DEFAULT
OFFSITE HYDROGRAPH FILE: DEFAULT
BOUNDARY DATABASE FILE: DEFAULT

NOTE: 100 YEAR 24 HOUR STORM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
TIRES	STRG	45.000	.000	.000	.000	45.000	.000
						45.200	.060
						45.400	.120
						45.600	.190
						45.800	.250
						46.000	.320
						46.200	.390
						46.400	.470
						47.800	1.450
						48.000	1.640
BNDRY	TIME	45.000	.000	.000	.000	45.000	.000
						45.000	24.000

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

>>REACH NAME : CULVERT
FROM NODE : TIRES
TO NODE : BNDRY
REACH TYPE : CULVERT, ELLIPTICAL w/ ROADWAY
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :

SPAN (in):	36.000	RISE (in):	24.000	LENGTH (ft):	40.000
U/S INVERT (ft):	45.600	D/S INVERT (ft):	45.500	MANNING N:	.013
ENTRNC LOSS:	.500	# OF CULVERTS:	1.000		

POSITION A : RECTANGULAR ROADWAY/BERM WEIR

CREST EL. (ft):	48.000	CREST LN. (ft):	4.000	WEIR COEF.:	3.000
RESERVED:	********	RESERVED:	********	RESERVED:	********

POSITION B : RECTANGULAR ROADWAY/BERM WEIR

CREST EL. (ft):	9999.000	CREST LN. (ft):	.000	WEIR COEF.:	2.800
RESERVED:	********	RESERVED:	********	RESERVED:	********

NOTE: DISCHARGE CULVERT

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

REACH SUMMARY

INDEX	RCHNAME	FRMNODE	TONODE	REACH TYPE
1	CULVERT	TIRES	BNDRY	CULVERT, ELLIPTICAL w/ ROADWAY

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

BASIN	MAX FLOW (cfs)	MAX TIME (hrs)	VOLUME (ins)
TIRES	28.28	12.55	10.01

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)
Copyright 1989, Streamline Technologies, Inc.

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

BASIN NAME: TIRES TIME INC (min) 1.00 LAG TIME (hrs) .00
NODE NAME TIRES RAIN AMT (ins) 12.50 BASIN STATUS ONSITE
RAINFALL FILE SCSII-24 STORM DUR (hr) 24.00

ELEMENT NUMBER	AREA (ac)	CURVE NUMBER	LENGTH (ft)	SLOPE (%)	MANNING N	DCIA (%)
1	3.500	90.000	480.000	.016	.015	.000
2	.500	40.000	130.000	.010	.300	.000
3	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000
5	.000	.000	.000	.000	.000	.000
6	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000
10	.000	.000	.000	.000	.000	.000

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
TIRES	28.28	12.55	10.01	PASCO CO. TIRE FACILITY 100YR STRM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)
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PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	MINIMUMS VALUE	MINIMUMS TIME (hr)	MAXIMUMS VALUE	MAXIMUMS TIME (hr)
TIRES	STAGE (ft):	45.00	5.42	47.64	13.00
	VOLUME (af):	.00	5.17	1.34	13.00
	RUNOFF (cfs):	.00	5.17	28.16	12.58
	OFFSITE (cfs):	.00	23.92	.00	23.92
	OTHER (cfs):	.00	23.92	.00	23.92
	OUTFLOW (cfs):	.00	10.58	18.88	13.00
BNDRY	STAGE (ft):	45.00	23.92	45.00	23.92
	VOLUME (af):	.00	10.58	3.11	23.92
	RUNOFF (cfs):	.00	23.92	.00	23.92
	OFFSITE (cfs):	.00	23.92	.00	23.92
	OTHER (cfs):	.00	10.58	18.88	13.00
	OUTFLOW (cfs):	.00	23.92	.00	23.92

BASIN NAME: TIRES TIME INC (min) 1.000 LAG TIME (hrs) .000
NODE NAME TIRES RAIN AMT (cm) 9.250 BASIN STATUS ONSITE
RAINFALL FILE SCSII-24 STORM DUR (hr) 24.000

ELEMENT NUMBER	AREA (ha)	CURVE NUMBER	LENGTH (m)	SLOPE (%)	MANNING N	DCIA (%)
1	3.500	90.000	480.000	.016	.015	.000
2	.500	40.000	130.000	.010	.300	.000
3	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000
5	.000	.000	.000	.000	.000	.000
6	.000	.000	.000	.000	.000	.000
7	.000	.000	.000	.000	.000	.000
8	.000	.000	.000	.000	.000	.000
9	.000	.000	.000	.000	.000	.000
10	.000	.000	.000	.000	.000	.000

NOTE: PASCO CO. TIRE FACILITY 25YR STRM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

CONTROL PARAMETERS
==========

START TIME: .00
END TIME: 24.00

TO TIME (hours)	SIMULATION INC (secs)	PRINT INC (mins)
24.00	15.00	5.00

RUNOFF HYDROGRAPH FILE: DEFAULT
OFFSITE HYDROGRAPH FILE: DEFAULT
BOUNDARY DATABASE FILE: DEFAULT

NOTE: 25 YEAR 24 HOUR STORM

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
TIRES	STRG	45.000	.000	.000	.000	45.000	.000
						45.200	.060
						45.400	.120
						45.600	.190
						45.800	.250
						46.000	.320
						46.200	.390
						46.400	.470
						47.800	1.450
						48.000	1.640
BNDRY	TIME	45.000	.000	.000	.000	45.000	.000
						45.000	24.000

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

>>REACH NAME : CULVERT
FROM NODE : TIRES
TO NODE : BNDRY
REACH TYPE : CULVERT, ELLIPTICAL w/ ROADWAY
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :

SPAN (in):	36.000	RISE (in):	24.000	LENGTH (ft):	40.000
U/S INVERT (ft):	45.600	D/S INVERT (ft):	45.500	MANNING N:	.013
ENTRNC LOSS:	.500	# OF CULVERTS:	1.000		

POSITION A : RECTANGULAR ROADWAY/BERM WEIR

CREST EL. (ft):	48.000	CREST LN. (ft):	4.000	WEIR COEF.:	3.000
RESERVED:	********	RESERVED:	********	RESERVED:	********

POSITION B : RECTANGULAR ROADWAY/BERM WEIR

CREST EL. (ft):	9999.000	CREST LN. (ft):	.000	WEIR COEF.:	2.800
RESERVED:	********	RESERVED:	********	RESERVED:	********

NOTE: DISCHARGE CULVERT

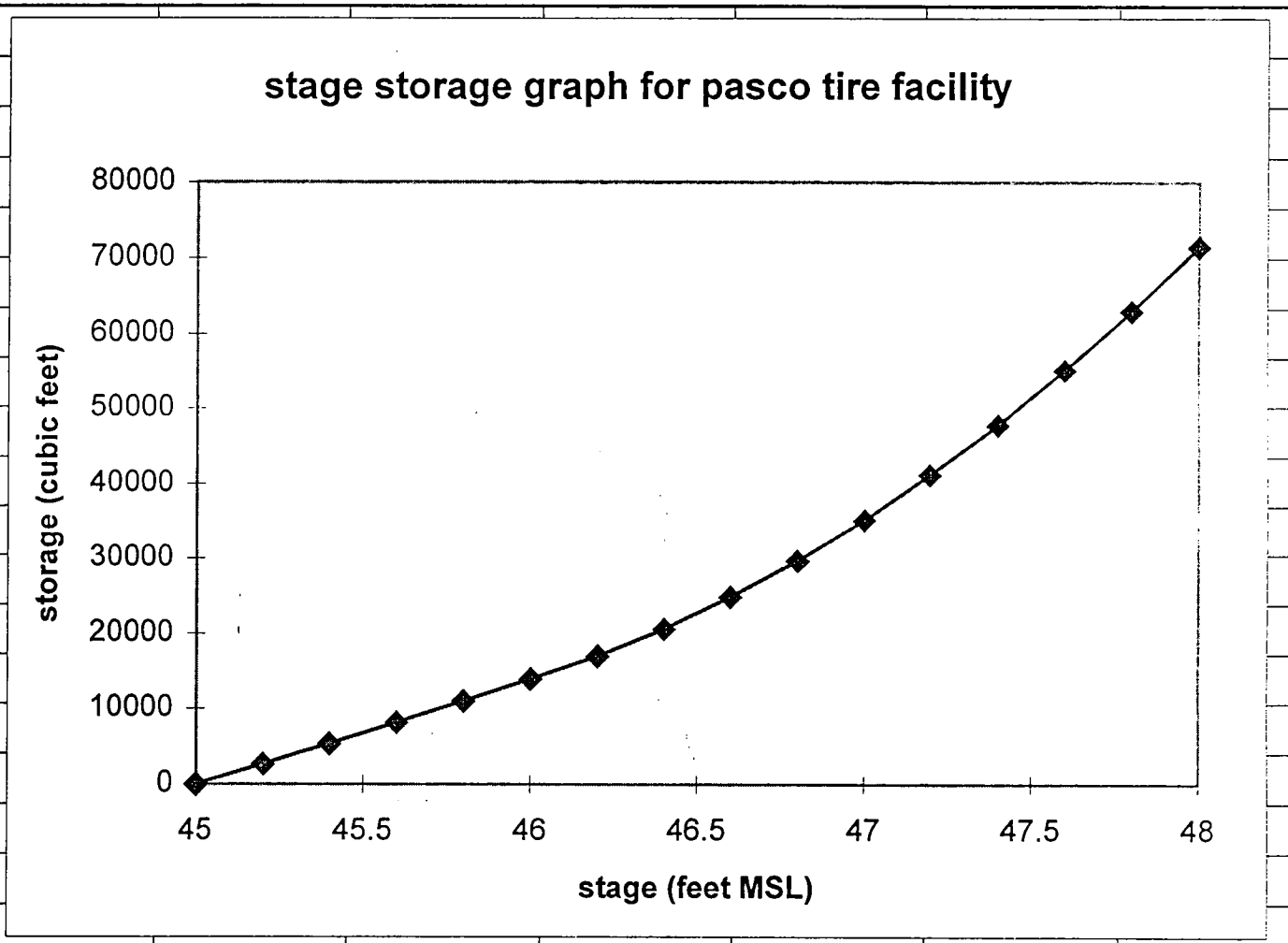
Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)

PASCO COUNTY TIRE PROCESSING FACILITY
2/01/96

REACH SUMMARY

INDEX	RCHNAME	FRMNODE	TONODE	REACH TYPE
1	CULVERT	TIRES	BNDRY	CULVERT, ELLIPTICAL w/ ROADWAY

stage	total vol
45	0
45.2	2638.4
45.4	5353.6
45.6	8145.6
45.8	11014.4
46	13960
46.2	16995.49
46.4	20634.75
46.6	24877.78
46.8	29724.59
47	35175.17
47.2	41229.52
47.4	47887.65
47.6	55149.55
47.8	63015.23
48	71484.68



APPENDIX G

FINANCIAL ASSURANCE CALCULATIONS

PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4272
LAND O'LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8041

UTILITIES FISCAL SERVICES
SPECIAL PROJECTS DEPT.
PUBLIC WORKS/UTILITIES BLDG.
7530 LITTLE ROAD, S-204
NEW PORT RICHEY, FL 34654

July 12, 1996

Ms. Susan J. Pelz, E.I.
Solid Waste Section
Division of Waste Management
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Fl 33619

RE: Financial Responsibilities - West Pasco Class III Landfill
Permit No.: SO 51182279

Dear Ms. Pelz:

Attached please find the Closure Financial Responsibilities for Pasco County's West Pasco Class III Landfill submitted under cover of this letter.

Please contact me at (813) 847-8041 should you have any questions or require additional information.

Sincerely,

Michael F. Landi
Accountant II

RJS/mfl

Attachment

cc: Fred Wick, Florida Department of Environmental Protection
Douglas S. Bramlett, Assistant County Administrator
(Utilities Services Branch)
Robert J. Sigmond, Fiscal Services/Special Projects Director
Vince Mannella, P.E., Solid Waste Facility Manager

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

FINANCIAL ASSURANCE COST ESTIMATES

Date: July 12, 1996

Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: West Pasco Class III GMS No.: 4051M000354

Permit No.: SO 51182279 Expiration Date: 6/5/96

Address (facility): 14230 Hays Road, Spring Hill, Florida 34610

Address (mailing): 7530 Little Road, New Port Richey, FL 34654

Permittee (operating authority): Pasco County Utilities

Facility Lat. 28°-22'-5" N Long. 82°-33'-30"W or UTM's _____

Description of the Solid Waste Disposal Units included: 4 Cells and a Waste Tire Storage and Processing Facility.

Landfill Acreage included in this Estimate: 20 Acres Class III, 4 Acres Tire Processing Area

Date Disposal Unit Began Accepting Waste June 1990 Design Life of Disposal Unit N/A

Type of Landfill: _____ Class I X Class III

_____ Exempt; Type of Exemption: _____

Closure Plan Approved: Yes / No

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

___ Trust Fund Agreement ___ Performance Bond (only for landfills with an approved closure plan)

___ Letter of Credit ___ Standby Trust Fund Agreement

___ Insurance Certificate ___ Escrow Account

___ Financial Guarantee Bond X Other (Explain) Letter of Understanding

III. ESTIMATED CLOSING COST

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

** Third Party Estimate/Quote must be provided for each item.
** Costs must be for a third party providing all material and labor.

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

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL**	
1. Monitoring Wells: Not Applicable, already existing					
Borehole Excavation	CY			$ 0	
Backfill	CY			0	
Gravel Pack	CY			0	
Casing	LF			0	
Screen	EA			0	
Cap	EA			0	
			Subtotal Monitor Wells		$ 0
2. Slope and Fill: 20 Acres x 1 ft.					
Excavation	CY			$ 0	
Placement/Spreading	CY			0	
Compaction	CY			0	
Off- Site Material	CY	32,267	4.00	129,068	
			Subtotal Slope and Fill		$129,068
3. Cover Material (Barrier Layer): 20 Acres					
Off-Site Clay	CY				
On-Site Clay	CY				
Synthetics - 40 mil LLDPE (Geomembrane)	SY	96,800	$3.15	304,920	
Synthetics - 30 mil	SY				
Synthetics - GCL	SY				
			Subtotal Cover Material		$304,920

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL**
4. Top Soil Cover: 20 Acres x 2.0 ft.				
On-Site Material	CY	64,533	$2.40	$154,879
Off-Site Material	CY			0
Delivery	CY			0
Spreading	CY			0
Compaction	CY			0
			Subtotal Top Soil Cover	$154,879
5. Stormwater Control:				
Excavation, Grading & Recontouring	CY			$ 0
Stormwater Sideslope Conveyances	EA	1	$5,000	5,000 *
Ditch Construction	LF			0
Berm Construction	CY			0
			Subtotal Stormwater Control	$ 5,000
6. Gas Migration Control: Not Applicable				Primarily only non-combustible C & D material disposed, at this time, landfill gas is not expected to be generated.
Wells	LF			$ 0
Pipe and Fittings	LF			0
Traps	EA			0
Sump	EA			0
Flare Assembly	EA			0
Flame Arrestor	EA			0
Mist Eliminator	EA			0
Flow Meter	EA			0
Blowers	EA			0
Monitoring Probes	LF			0
			Subtotal Gas Migration Control	$ 0

*** Costs for Waste Tire Processing Facility included within total.**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL**	
7. Revegetation:					
Sodding	SY	9,680	$1.60	$15,488	
Soil Preparation/Grading	SY			0	
Hydroseeding	AC	18	1,210	21,780	
Fertilizer	AC			0	
Mulch	AC			0	
			Subtotal Revegetation		$37,268
8. Landscape Irrigation System:	Not Applicable, does not exist				
Pipe and Fittings	LF			$ 0	
Pumps	EA			0	
			Subtotal Landscape Irrigation System		$ 0
9. Security System:	Not Applicable, in place				
Fencing	LF			$ 0	
Gate(s)	EA			0	
Sign(s)	EA			0	
			Subtotal Security System		$ 0
10. Engineering:					
Closure Plan Report	LS		$10,000	$10,000	*
Certified Engineering Drawings (for construction)	LS		5,000	5,000	*
Closure Permit	LS		10,000	10,000	
Other (Detail):					
				0	
				0	
				0	
			Subtotal Engineering		$25,000

*** Cost for Waste Tire Processing Facility included within total.**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL**
11. Benchmark Installation	EA	1	$2,000	$2,000
Benchmark Survey	LS		1,000	1,000
			Subtotal Benchmark Installation	$3,000
12. Certification of Closure	LS		$2,000	$2,000 *
			Subtotal Certification of Closure	$2,000
13. Administrative:		Hours	@ $/hour	
P.E. Supervisor	HR	12	$100	1,200 *
On-Site Engineer	HR	40	60	2,400
Office Engineer	HR			0
On-Site Technician	HR	200	40	8,000 *
Other- (explain):				
Travel Day		25	25	625 *
Testing Acre		20	100	2,000
			Subtotal Administrative	$14,225
14. Quality Assurance:		Hours	@ $/hour	
P.E. Supervisor	HR	12	$100	$1,200
On-Site Engineer	HR	40	60	2,400
Office Engineer	HR			0
On-Site Technician	HR	200	40	8,000
QA Testing	LS			
Other- (explain):				
Travel Day		25	25	625
Testing Acre		20	500	10,000
			Subtotal Quality Assurance	$22,225

*** Cost for Waste Tire Processing Facility included within total.**

15. Site Specific Costs (Explain):

See attached estimate by LAW	$72,915	
Subtotal Site Specific Costs		$72,915
SUBTOTAL CLOSING COSTS		*$770,500*
16. Contingency — % of Total	5%	*$38,525*
TOTAL CLOSING COSTS		*$809,025*

CERTIFICATION BY ENGINEER

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

Signature

4919 West Laurel Street
Mailing Address

Richard E. Mayer,
Principal Engineer
Name and Title (please type)

Tampa, FL 33607
City, State, Zip Code

41759
Florida Registration Number (please affix seal)

(813) 239-0750
Telephone Number

Date *07/16/96*

IV. ANNUAL COST FOR LONG-TERM CARE

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

**Third Party Estimate/Quote must be provided for each item
**Costs must be for a third party providing material and labor.

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

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)=(A)x(B)x(C)
1. Groundwater Monitoring 17-701.510(6), (8)(a)	sampling frequency events/yr	# of wells	$/well/event	$/yr
Monthly				$ 0
Quarterly				0
Semi-Annual	1	7	650	4,550
Annual	1	7	1,530	10,710
			Subtotal Groundwater Monitoring	$15,260
2. Gas Monitoring 17-701.400(10)	sampling frequency events/yr	# of locations	$/location/event	$/yr
		Not Applicable		
Monthly				$ 0
Quarterly				0
Semi-Annual				0
Annual				0
			Subtotal Gas Migration Monitoring	$ 0
3. Leachate Monitoring 17-701.510(5), (6)(b), 17-701.510(8)(c)	sampling frequency events/yr	# of locations	$/location/event	$/yr
Monthly				$ 0
Quarterly				0
Semi-Annual	1	2	650	1,300
Annual	1	2	1,530	3,060
			Subtotal Leachate Monitoring	$4,360

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)=(A)x(B)x(C)
4. Surface Water Monitoring 17-701.510(4), (8)(b)	sampling frequency events/yr	# of locations	$/location/event	$/yr
Monthly				$ 0
Quarterly				0
Semi-Annual				0
Annual				0
			Subtotal Surface Water Monitoring	$ 0
5. Maintenance of Leachate Collection/Treatment Systems				
Collection Pipes	LF	2,350	1.50	$3,525
Sumps, Traps	EA			0
Lift Stations	EA	1	2,000	2,000
Tanks	EA			0
Impoundments- Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems- Floating Aerators	EA			
Spray Aerators	EA			
Off-Site Disposal (include transportation and disposal)	1000gal	7,330,000	2.20	16,126
On-Site Pretreatment System Maintenance-(Describe)				
Other (Describe)-				
			Subtotal Leachate Collection/Treatment System Maintenance	$21,651

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)=(A)x(B)x(C)	
6. Maintenance of Groundwater Monitoring Wells	LF	7	$50	$350	
		Subtotal Groundwater Monitoring Well Maintenance			$350
7. Maintenance of Gas Migration System					
Piping, Vents	LF			$ 0	
Blowers	EA			0	
Flaring Units	EA			0	
Meters, Valves	EA			0	
		Subtotal Gas Migration System Maintenance			$ 0
8. Landscape Maintenance					
Mowing	AC	8 x 20	17.40 per acre	$2,784	
Fertilizer	AC			0	
Irrigation	AC			0	
		Subtotal Landscape Maintenance			$2,784
9. Benchmark Maintenance	EA	1	$100	$100	
		Subtotal Benchmark Maintenance			$100
10. Administrative/Overhead:		Hours	@ $/hour		
P.E. Supervisor	HR	15	$100	$1,500	
On-Site Engineer	HR			0	
Office Engineer	HR			0	
On-Site Technician	HR	48	40	1,920	
Other (explain):				0	
Electricity: -include Leachate Pumps, Blowers, Lighting, etc.	LS		1,896	1,896	
		Subtotal Administrative			$5,316

DESCRIPTION	UNIT (A)	QUANTITY (B)	UNIT COST (C)	ANNUAL COST** (D)=(A)x(B)x(C)	
11. Maintenance of Cover					
Sodding	SY	.4	7,750	$3,100	
Regrading	AC	.4	2,500	1,000	
Liner Repair-Synthetic	SY	1	700	700	
Clay	CY			0	
			Subtotal Cover Integrity Maintenance		$4,800
12. Surface Water Drainage Maintenance					
Ditch Cleaning	LF	2,400	$2.50	$6,000	
Stormwater Conveyance Maint.	EA	1	1,000	1,000	
			Subtotal Drainage Maintenance		$7,000
13. Security System Maintenance					
Fences	LF	100	$10	$1,000	
Gate(s)	EA	2	25	50	
Sign(s)	EA	1	25	25	
			Subtotal Security System Maintenance		$1,075
14. Remedial Actions	LS		5,000	5,000	
			Subtotal Remedial Actions		$5,000
15. Site Specific Costs (explain):					
			Subtotal Site Specific Costs		0
			LONG-TERM CARE COSTS ($/yr)		$67,696

30 Years x 67,696

TOTAL LONG-TERM CARE COSTS ($) $2,030,880
($/year times required years of long-term care)

CERTIFICATION BY ENGINEER

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

	Law Engineering and Environmental Services, Inc.
Signature	Company Name
Richard E. Mayer Principal Engineer	4919 West Laurel Street
Name and Title (please type)	Mailing Address
	Tampa, Florida 33607
41759	
Florida Registration Number (please affix seal)	City, State, Zip Code
	(813) 289-0750
	Telephone Number
	Date:

JED PITTMAN
CLERK OF CIRCUIT COURT, PASCO COUNTY

DADE CITY
(904) 521-4342
SUNCOM 631-4342
NEW PORT RICHEY
(813) 847-8181

April 6, 1992

Mr. Fred Wick
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: PASCO COUNTY - Letter of Understanding - Landfill Closure and Long-Term Care

Dear Mr. Wick:

Attached is the referenced letter which should satisfy your department's requirements.

Should you have any questions, please contact me.

Thank you.

Sincerely,

Jay Kominsky
Director, Financial Services

/do/OLS348.2

PASCO COUNTY
[illegible]
DEPARTMENT

Reply to:
☐ Pasco County Courthouse, 705 E. Live Oak Ave., Dade City, FL 33525
☐ Pasco Government Center, PO Drawer 338, New Port Richey, FL 34656-0338

ADMI

LETTER OF UNDERSTANDING

The Pasco County Board of County Commissioners (the "BOARD"), through the Office of the Pasco County Clerk of the Circuit Court (the "CLERK"), Division of Financial Services, established an interest-bearing account (no. 251192) with the Florida State Board of Administration. The beneficiary of this account is the BOARD; the account is managed by the CLERK.

This account includes a restricted cash subsidiary account ("SUBACCOUNT") maintained on the books of account of the BOARD for the sole purpose of accumulating funds for Landfill Closure and Long-Term Care of: the Ridge Road Landfill; the East Pasco Sanitary Landfill; the West Pasco Class I and Class III Landfills; and any future sites according to Rule 17-701.076, FAC(1989). The total amount to be maintained in this SUBACCOUNT shall be determined, from time to time, by a Registered Professional Engineer with the State of Florida, and approved by the Florida Department of Environmental Regulation.

It is the intent that funds maintained in this SUBACCOUNT are not to be used for any purpose other than Landfill Closure and Long-Term Care, as described above; disbursement from this SUBACCOUNT must be approved by the BOARD with oversight provided by the CLERK.

Jay Kominsky, Director
Division of Financial Services

OLS348

Site Specific Costs:

- Total Closure Costs Estimate
- Letter of Understanding to Florida Department of Environmental Protection
- Waste Tire Disposal Costs, per attached bid.

LAW

ENGINEERING AND ENVIRONMENTAL SERVICES

JOB NO:	40141-5-0868, Phase 101		
JOB NAME:	West Pasco Landfill		
ENGINEER:	J. Sink	DATE:	07/16/96
CHECKED:		DATE:	
SHEET:	1 of 1		

Closure Costs Estimates

PROCESSING COSTS

Item	Volume	Rate	Costs
Regular Waste Tires	1150 tons	$ 52.50 /ton	$ 60,375.00
Large Waste Tires	249 tons	$ 50.00 /ton	$ 12,450.00
Unprocessed Waste Tires	1 tons	$ 90.00 /ton	$ 90.00
Rim Removal	100 tires	$ 1.00 /tire	$ 100.00
Total Processing Costs			$ 72,915.00

DISPOSAL COSTS

Disposal Costs = Disposal cost for Pasco County residents is included in the annual solid waste disposal fee. No additional charge is required for disposal at the Resource Recovery facility.

TOTAL CLOSURE COSTS

PROCESSING COSTS	=	$	72,915.00
DISPOSAL COSTS	=		NA
		$	72,915.00

PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274
LAND O' LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8040
FAX (813) 847-8064

UTILITIES CONSTRUCTION AND
CONTRACT MANAGEMENT DEPT.
PUB. WKS./UTILITIES BLDG., S-205
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

July 2, 1996

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

RE: West Pasco Waste Tire Processing Facility
Pending Permit No. WT51-284934

Dear Mr. Butera:

Please be advised that this communication should be considered as a firm commitment to the Florida Department of Environmental Protection that Pasco County Resource Recovery Facility will accept all waste tires chipped at the waste tire processing facility on a no cost basis and/or at no charge. The tire chips will receive positive destruction via incineration on a daily basis not to exceed 3% of the Resource Recovery Plant daily burn.

I trust that this information is sufficient for your needs. Should you have any questions please contact me directly at (813) 847-8040.

Sincerely,

Vincent Mannella, P.E.
Acting Utilities Construction
and Contract Management Director

VM/mr

cc: Kim Ford, P.E., Florida Department of Environmental Protection
Richard E. Mayer, P.E., Law Engineering and Environmental Services
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)

BEST AVAILABLE COPY

P.O. 71 [illegible]
Req. # 19468

PASCO COUNTY, FLORIDA
INTEROFFICE MEMORANDUM

11/7 [illegible]

TO: Honorable Chairman and Members of the Board of County Commissioners

DATE: 10/19/95 FILE: PU96-053

SUBJECT: Waste Tire Management Services

FROM: Frank Fortino, Purchasing Director

REFERENCES: Bid No. 95-149

It is recommended that the data herein presented be given formal consideration by the County Commission.

DESCRIPTION AND CONDITIONS:

On July 31, 1995, the Purchasing Department solicited bids to establish an annual award for waste tire management services requested by the Utilities Fiscal Services/Special Projects Department. Notice of Bid was published in the St. Petersburg Times on August 8, 1995, and posted on the bulletin boards of the Pasco County Courthouse, West Pasco Government Center, and all County buildings. All provisions of the Pasco County Purchasing Ordinance No. 92-06 have been met.

On September 12, 1995, all bids received were publicly opened and read. The results are shown on the attached tabulation sheet.

One hundred thirteen vendors were mailed invitations to bid of which nine were from Pasco County. Five responses were received, none from Pasco County.

ALTERNATIVES AND ANALYSIS:

1. Approve staff's recommendation.

2. Choose one of the other vendors.

3. Reject all bids and readvertise.

RECOMMENDATION AND FUNDING:

The Purchasing Department, with concurrence from the Utilities Fiscal Services/Special Projects Department, recommends award to Florida Tire Recycling, Inc., at the prices shown on their bid proposal. Award will be for one year beginning October 1, 1995, through September 30, 1996, with automatic extension for one additional year unless canceled in writing by either party at least 60 days prior to the termination of the first year award. It is anticipated $193,000.00 will be spent during a 12-month period for this service; but if additional funds are needed, the Purchasing Department recommends they be authorized to increase the anticipated amount without further Board approval subject to the appropriation approved by the Board of County Commissioners.

Funds are available in Account No. B455-752281-33400 of the 1995-96 Fiscal Year Budget and will be requested in the 1996-97 Fiscal Year Budget contingent upon the Board approving the budget.

ATTACHMENTS:

1. Proof of Publication
2. Bid Copies
3. Tabulation Sheet
4. UTFSSP96-054 (Copy)

FF/s091807/01:ai

cc: Michael Nurrenbrock, OMB Director
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director

APPROVED AGENDA ITEM FOR

DATE____________

BY____________

~~Req. issued~~ for $170,000.00
Adjust [illegible] [illegible] [illegible]
[illegible]
11/8/95

BID SUMMARY SHEET

ALTERNATIVE A, ON-SITE SHREDDING

1. Minimum notice required to come on-site and shred accumulated waste tires. — 14 days

2. Minimum accumulation of waste tires required before coming on-site to shred. — 250 tons/tires

3. Cost per ton for shredding, loading, transporting, and dumping of waste tires on-site. — $52.50 $/ton

4. Cost per ton for the cutting of large waste tires that cannot be shredded. — 50.00 $/ton

5. Cost per ton for the removal of large waste tires that cannot be shredded on-site or cut in four or eight pieces. — 90.00 $/ton

6. Cost per tire for the removal of the tire rim. — $1.00 $/tire

7. State any limitations placed on the service. (Attach separate page, if necessary.)

NO LIMITATIONS

8. State any exceptions to the bid.

NO EXCEPTIONS

VENDOR NAME: Florida Tire Recycling, Inc.

SIGNATURE: [signature]

ALTERNATIVE B, OFF-SITE DISPOSAL OR RECYCLING

1. Minimum notice required to remove filled storage unit. _____ days

2. Cost per ton for storing, removing, and disposing or recycling of the waste tires. NO BID $/ton

3. Cost per ton for the removal of the tire rim. NO BID $/tire

4. Describe the storage unit and the loading capacity.

5. State any limitations placed on the service. (Attach separate page, if necessary.)

6. State any exceptions to the bid.

VENDOR NAME: Hawaii Tire Recycling Inc

SIGNATURE: [signature]

tires:ut(4)

BID PROPOSAL

BID NO. 95-149

Bid proposal page must be submitted in DUPLICATE, ONE ORIGINAL, ONE COPY

Vendors submitting a base bid and an alternate must place each in a **SEPARATE ENVELOPE**

TERMS: _____

Refer to General Terms and Conditions, Paragraph 17. If left blank, net 30 days will apply.

THIS PAGE MUST BE SUBMITTED WITH PAGES 1 AND 2 OF BID PROPOSAL

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder.

W. David Quarterson

AUTHORIZED SIGNATURE-SIGN IN INK

Unsigned Bids will be disqualified

DAVID L. QUARTERSON

AUTHORIZED SIGNATURE(Typed) TITLE

FLORIDA TREE RECYCLING INC.

VENDOR NAME

9675 ORANGE LAKE ROAD

MAILING ADDRESS

PORT ST LUCIE, FL 34987

CITY - STATE - ZIP

407/465-0477

(AREA CODE) TELEPHONE NUMBER

FED. ID # 59-2801031

STATE OF FLORIDA

COUNTY OF: ST. LUCIE

The foregoing instrument was acknowledged before me this 9th SEPT 1995 by

(Date)

DAVID L. QUARTERON

(Name of Person)

who is personally known to me ~~or who has produced~~

_____

(Type of Identification)

as identification and who did (did not) take an oath.

Merrie D. Reynolds

(Official Signature of Notary)

ALL BIDS MUST BE SUBMITTED WITH THIS SHEET

MERRIE D. REYNOLDS
MY COMMISSION # CC458113 EXPIRES
May 2, 1999
BONDED THRU TROY FAIN INSURANCE, INC