

**WASTE TIRE PROCESSING FACILITY  
RESPONSE TO SECOND REQUEST  
FOR ADDITIONAL INFORMATION  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA**

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
MAR 22 2010  
SOUTHWEST DISTRICT  
TAMPA

*Submitted to:*

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

13051 North Telecom Parkway

Temple Terrace, Florida 33637-0926

*Prepared for:*

**HILLSBOROUGH COUNTY  
SOLID WASTE MANAGEMENT DEPARTMENT**

County Center, 24th Floor

601 E. Kennedy Blvd., 24th Floor

Tampa, Florida 33601



*Prepared by:*

**JONES EDMUNDS & ASSOCIATES, INC.**

324 S. Hyde Park Avenue, Suite 250

Tampa, Florida 33606

P.E. Certificate of Authorization #1841

**JONES  
EDMUNDS**

March 2010

# LETTER OF TRANSMITTAL



TO:	Susan J. Pelz, P.E. Florida Department of Environmental Protection Southwest District 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926	DATE	March 22, 2010
		JOB. NO.	08449-030-04 Task 1150
		RE:	Southeast County Landfill Waste Tire Processing Facility Permit Renewal Application Response to Second Request for Additional Information

## WE ARE SENDING YOU VIA:

- |  |  |
|--|--|
| <input type="checkbox"/> U.S. Mail     | <input type="checkbox"/> UPS Next Day          |
| <input type="checkbox"/> FedEx         | <input checked="" type="checkbox"/> UPS Ground |
| <input type="checkbox"/> Hand Delivery | <input type="checkbox"/> Courier               |

# Copies	Date	Description
4	3/22/10	Waste Tire Processing Facility Permit Renewal Application Response to Second Request for Additional Information

## THESE ARE TRANSMITTED AS CHECKED BELOW:

- |  |   |
|--|---|
| <input type="checkbox"/> For Approval            | <input type="checkbox"/> For Your Information   |
| <input checked="" type="checkbox"/> For Your Use | <input type="checkbox"/> For Review and Comment |
| <input type="checkbox"/> As Requested            | <input type="checkbox"/> For Your File          |
| <input type="checkbox"/> For Signature           | <input type="checkbox"/> Other:                 |

Dept. Of Environmental Protection

MAR 22 2010

Southwest District

## REMARKS:

Ms. Pelz,

Please find attached the SCLF Waste Tire Processing Facility Permit Renewal Application Response to Second Request for Additional Information. Thank you.

Copies to: \_\_\_\_\_ Signed \_\_\_\_\_

Jason E. Timmons

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

T:\08449 - Hillsborough\030-03 SCLF General Services\Task 1150 - Waste Tire Facility\2009\_Permit\_Renewal\JE Transmittal Final DEP.doc

# JONES EDMUNDS

March 19, 2010

Nancy D. Gaskin  
Solid Waste Program, Southwest District  
Florida Department of Environmental Protection  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Dept. Of Environmental Protection

MAR 22 2010

Southwest District

RE: Southeast County Landfill Waste Tire Processing Facility  
Project No. 08449-030-04-1150  
Pending Permit No. 126787-004-WT/02  
WACS ID#: 41193

Dear Ms. Gaskin:

This letter addresses comments received from the Florida Department of Environmental Protection, dated October 8, 2009. Each of the Department's comments is presented below in *italics*, followed by the response in **bold type**.

*Comment 1.b: Application Form. Rule 62-711.530(6) F.A.C. Part II, Section C. The Department does not agree that the processed tires should not be considered part of the Facility's storage capacity on the basis that they are to be put into use onsite. Rule 62-711.300(10)(e) states, "Facilities which cut, shred, or otherwise alter whole waste tires, . . . are considered waste tire processing facilities, and the processed tire produced will be considered waste tires, . . .". As previously noted, the capacity requested appears to exceed the maximum capacity allowed by Rule 62-711.530(2)(a), F.A.C. as calculated for this facility. Please revise this section of the application as appropriate. [See also Comment #2.l. & #5 below]*

**Response 1.b: Jones Edmunds submitted a request for variance and received an approved Order Granting Variance document from FDEP to allow an increase in the maximum capacity. Please refer to Attachment R.1.b to view the Order Granting Variance.**

324 South Hyde Park Avenue  
Suite 250  
Tampa, FL 33606

813.258.0703 Phone  
813.254.6860 Fax  
www.jonesedmunds.com

2. **Engineering Report**, Rule 62-711.300(1) & 62-701.320(7)(d)&(e) F.A.C. Please provide a comprehensive revised Engineering Report and Operation Plan that includes the information requested. Please provide replacement pages with revisions noted (deletions may be struckthrough [~~struckthrough~~] and additions may be underlined [underlined] or a similar method may be used) and each page numbered with the document title and date of revision. This report will be reviewed in its entirety after responses are received.

Comment 2.a: §2.1 Perimeter Berm & Setbacks. Please revise the current Facility contingency plan and emergency response manual to include the information provided in the February 2007 response (Attachment R2a).

**Response 2.a:** Please see Attachment R.2.a for the revised Facility contingency plan and emergency response manual. Also located in this attachment is a marked-up copy of the original Facility contingency plan and emergency response manual showing the changes that were made based on the February 2007 response.

Comment 2.f: §3.2 Vector Control. Please provide a minimum frequency for mosquito control treatments. Please revise this section of the Engineering Report to include the information provided and the information provided in the previous response.

**Response 2.f:** Mosquito control is provided at a minimum annually or as requested by the County. Section 3.2 of the Engineering Report has been revised to convey this information and is included as Attachment R.2.f.

Comment 2.h: Attachment 1 (Attachment R2H – Existing). As previously requested, please provide the Attachment 1.1 and Figure 3.0 as referenced, or revise these references. The storage quantity calculated in this section (Attachment R2H) exceeds the maximum storage capacity allowed by Rule 62-711.530(2)(a) F.A.C. Please provide specific information on how the facility will meet the rule based on storage restrictions. Please revise these calculations as appropriate. [See also Comment #2.l. below]

**Response 2.h:** Attachment 1.1 and Figure 3.0 (Waste Tire Processing Facility Plot Plan) was referenced in Note 1 of the Tire Pad Storage Calculations and was submitted as Attachment 2 of the original application. Note 1 of the Tire Pad Storage Calculations has been revised and is included in Attachment R.2.h – Existing. Please refer to Attachment R.3.a for the revised Waste Tire Processing Facility Plot Plans. Also, please refer to the Order Granting Variance issued by FDEP in Attachment R.1.b.

*Comment 2.j: Attachment 3 (Attachment R2H – Reconfiguration). As previously requested, please provide the Attachment 1.1 and Figure 3.0 as referenced, or revise these references. The storage quantity calculated here exceeds the maximum storage capacity allowed by Rule 62-711.530(2)(a) F.A.C. Please provide specific information on how the facility will meet the rule based on storage restrictions. Please revise these calculations as appropriate. [See Comment #2.1 below].*

**Response 2.j: Attachment 1.1 and Figure 3.0 (Waste Tire Processing Facility Plot Plan) was referenced in Note 1 of the Tire Pad Storage Calculations and was submitted as Attachment 4 of the original application. Note 1 of the Tire Pad Storage Calculations has been revised and is included in Attachment R.2.h – Reconfiguration. Please refer to Attachment R.3.a for the revised Waste Tire Processing Facility Plot Plans. Also, please refer to the Order Granting Variance issued by FDEP in Attachment R.1.b.**

*Comment 2.l: Attachment 5 (Attachment R1B – Max. Storage Capacity Calculations). The Department considers the processed tires stored onsite as part of the Facility's maximum storage capacity. Therefore the revised storage volumes, calculated using the site specific dimensions for the existing and reconfigurations of the tire storage areas (provided in Attachment R2H), exceed the maximum storage capacity allowed by Rule 62-711.530(2)(a) F.A.C. and as calculated here. Please explain how the facility will meet the rule based storage restrictions and comply with Rule 62-711.530(2)(a) F.A.C [See also Comment #1.b. above].*

**Response 2.l: An Order Granting Variance has been approved by FDEP. Please refer to Attachment R.1.b to view the Order Granting Variance.**

*Comment 3.a: Emergency Preparedness (Attachment 7) Rule 62-711.540(e) F.A.C.*

*§A. Small Fires. Control structure SW-23 is identified only on sheet 1 of the 2004 construction drawings prepared by SCS for the previous application. Please identify this structure on the drawings titled Waste Tire Processing Facility Plot Plan (both Existing and Reconfigured) dated 09/04/09, and prepared by Jones Edmunds specifically for this application.*

**Response 3.a: Please refer to Attachment R.3.a for the revised Waste Tire Processing Facility Plot Plans. Control Structure SW-23 has been identified on these plans.**

*Comment 5: Financial Assurance, Rule 62-711.500(3). The Department considers the processed tires stored onsite as part of the Facility's maximum storage capacity; therefore, the current approved cost estimates for the facility are not consistent with the increased maximum*

Nancy D. Gaskin

March 19, 2010

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*storage capacity requested in this application. Please provide revised cost estimates for the loading, hauling, and disposal, of the maximum quantity of processed and unprocessed tires and residuals, that may be at the facility at any time. The estimates shall be for a third-party performing the work, shall include supporting quotes and shall be signed and sealed by a professional engineer. [See Comment #1.b, #2.h., #2.j. & #2.l. above]*

**Response 5:** Please refer to Attachment R.5 for the revised Financial Assurance cost estimate and supporting information. The financial assurance cost estimates include removal of all processed and stored tires up to the maximum tonnage allowed by the Order Granting Variance provided in Attachment R.1.b. All unit costs have been increased by inflation factors of 2%, 2.5%, and 2% for the previous three year time period, in order to reflect the most recent cost estimate.

If you have any questions or need clarification regarding the enclosed information, please contact me at (813) 258-0703.

Sincerely,

A circular professional engineer seal for the State of Florida. The outer ring contains the text "STATE OF FLORIDA" and "PROFESSIONAL ENGINEER". The inner circle contains the name "JASON TIMMONS", the number "No. 65869", and the date "12/11/09". The seal is stamped over the signature area.

Jason Timmons, P.E.  
Project Manager  
Florida P.E. No. 65869

T:\08449 - Hillsborough\030-04 SCLF General Services\1150 - WTPF\RAI 2\Hillsborough Waste Tire RAI2 Response.doc

xc Patricia V. Berry, SWMD  
Megan Miller, SWMD  
Larry Ruiz, SWMD  
Ron Cope, EPC

**ATTACHMENT R.1.b**  
**ORDER GRANTING VARIANCE**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In the matter of a request  
for variance by:  
Hillsborough County Southeast Landfill  
15960 CR 672  
Lithia, Florida

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OGC No.: 10-0923  
SWVA No.: 10-01

ORDER GRANTING VARIANCE

The Department hereby gives notice that it is granting a variance to Hillsborough County, Florida (Petitioner) pursuant to Section 120.542, Florida Statutes (F.S.), for a change in waste tire storage capacity of the Waste Tire Processing Facility located at Southeast Landfill. The Petitioner has requested a variance from Rule 62-711.530(2)(a), Florida Administrative Code (F.A.C.), which requires the Petitioner to have an aggregate of waste whole tires, waste processed tires and residuals storage capacity no greater than 60 times the daily through-put of the processing equipment. The Petitioner has also requested a variance from Rule 62-711.530(3), F.A.C. which requires the Petitioner to annually remove for disposal or recycling at least 75 percent of the whole tires, used tires, and processed tires that are delivered to or are contained on the site of the waste tire processing facility at the beginning of each calendar year.

FINDINGS OF FACT

1. On December 20, 2004, the Department issued Permit No. 126787-002-WT/02 to the Petitioner for the continued operation of a waste tire processing facility located at the existing Southeast Landfill.
2. On June 23, 2009, the Petitioner submitted a renewal application for the waste tire processing facility permit to the Department that included an increase in the waste tire storage capacity to a total of 16,106 tons. The basis for the increase was to



have sufficient waste tires available for use as a construction material in bottom liner system construction, gas system construction and internal landfill cover material for the Southeast Landfill.

3. On July 22, 2009, the Department issued a Request for Additional Information on the renewal permit application. The Department notified the Petitioner that the total storage capacity for waste tires proposed in the application exceeded the amount allowed by Rule 62-711.530(2)(a), F.A.C. Specifically, the total capacity proposed in the permit application exceeded 60 times the daily through-put of the processing equipment being used.

4. On January 27, 2010, the Petitioner requested a Variance from Rule 62-711.530(2)(a), F.A.C. to allow increasing the amount of stored waste tires at the processing facility (i.e. whole tires, processed tires and residuals) from 12,787 tons currently allowed in the rule to 16,106 tons. The Petitioner also requested relief from Rule 62-711.530(3), F.A.C., which limits the holding time for processed waste tires since the processed tires must be stored on-site for planned future construction projects of the landfill. The Petitioner intends to reconfigure the storage of the waste tires and to expand its existing waste tire processing and storage area from a total of 13.06 acres to 19.62 acres. This extra area will allow for another 6.56 acres of storage space. The Petitioner will meet all the Department's storage requirements for the waste tire piles contained in Rule 62-711.540, F.A.C. such as setbacks to water bodies, maximum dimensions and minimum distances between the piles.

5. The Petitioner has demonstrated that it will suffer a substantial hardship to its planned construction projects if it is required to limit the storage and holding times of waste tires on-site as required by the rule. This restriction will create an unnecessary

technical hardship on future construction projects for the Southeast Landfill. The Petitioner has demonstrated that increasing the storage and holding times for the waste tires will not create an adverse environmental or human health effect. The Petitioner has also demonstrated that denial of the variance will create adverse social and economic impacts on residents of the area.

6. The petition submitted by the Petitioner has met all of the requirements of Rule 62-110.104, F.A.C., as well as the requirements of Section 403.201(1)(c), F.S.

#### CONCLUSIONS OF LAW

1. The Department concludes that, for the reasons stated in the petition, the actions taken by the Petitioner are expected to meet the general intent and purpose of the underlying statute and implementing rules, and that the Petitioner will suffer a hardship peculiar to the affected property and not self-imposed if the variance is not granted.

2. This variance, by itself, does not constitute authorization for the Petitioner to operate the facility. This facility shall operate only in accordance with the appropriate permits issued by the Department's Southwest District Office. This variance will be incorporated into that permit and will be reviewed at the time of permit renewal. It is anticipated this variance will be needed until the final expansion cell of the landfill is constructed. However, unless the Department takes affirmative action to revoke or modify this variance, it will have an unlimited duration.

For these reasons, the Petition for Variance is GRANTED, subject to the following conditions.

## CONDITIONS

1. The maximum storage allowed for the whole waste tires, processed waste tires and residuals at the waste tire processing facility shall not exceed 16,106 tons provided the storage requirements contained in Rule 62-711.540, F.A.C. are satisfied and financial assurance is provided for all of the waste tires, processed waste tires and residuals stored at the facility.

2. The 75 percent removal requirement for whole tires, used tires and processed tires contained in Rule 62-711.530(3), F.A.C. is waived provided the processed waste tires are used as soon as practicable in construction projects for the Southeast Landfill.


3. The Petitioner shall continue to meet all other applicable requirements contained in Chapter 62-711, F.A.C.

4. To the extent that the permit for the facility needs to be modified to accommodate this variance, the Southwest District is instructed to do so.

5. The issuance of this variance does not relieve the Petitioner from the need to comply with all conditions of the solid waste permit, or from any requirements of other federal, state, or local agencies.

Pursuant to Section 403.815, F.S., you are required to publish at your own expense a Notice of Proposed Agency Action. The following paragraph must be included in the notice of proposed agency action for the permit that authorizes the operation of the waste processing facility:

The Department of Environmental Protection also gives Notice of its Intent to grant a variance pursuant to Section 120.542, Florida Statutes (F.S.), to Hillsborough County. The variance is from Rule 62-711.530(2)(a), Florida Administrative Code (F.A.C.), which requires the Petitioner to have an



aggregate of waste whole tires, waste processed tires and residuals storage capacity no greater than 60 times the daily through-put of the processing equipment, and from Rule 62-711.530(3), F.A.C., which requires the Petitioner to annually remove for disposal or recycling at least 75 percent of the whole tires, used tires, and processed tires that are delivered to or are contained on the site of the waste tire processing facility at the beginning of each calendar year. A person whose substantial interests are affected by the Department's proposed agency action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The requirements for filing a petition relating to the proposed variance are the same as those set forth herein relating to the proposed permit, except that the petition must be filed (received) within 21 days of receipt of this notice in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

The Department's Order Granting Variance will be considered final unless a timely petition for an administrative hearing is filed under sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed agency action may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the

Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this written notice. Petitions filed by other persons must be filed within twenty-one days of publication of the notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

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

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

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

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

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

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

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

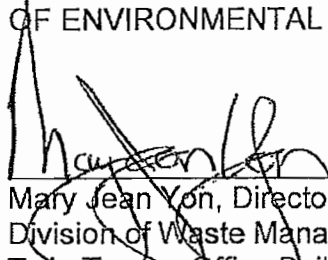
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing

fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



---

Mary Jean Yon, Director  
Division of Waste Management  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

CERTIFICATE OF SERVICE

I, the undersigned designated Department clerk, HEREBY CERTIFY that a true and correct copy of the foregoing has been sent by United States Mail to Jason Timmons, P.E., Jones Edmunds & Associates, Inc., 324 South Hyde Park Avenue, Suite 250, Tampa, Florida 33606, on this 2<sup>ND</sup> day of March, 2010.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department clerk, receipt of which is hereby acknowledged.

*Julith Perreault*      03/02/10  
(Clerk)                      (date)

Copies furnished to:

Chris McGuire, OGC  
Susan Pelz, Southwest District  
Fred Wick, Solid Waste Section



**ATTACHMENT R.2.a**

**REVISED FACILITY CONTINGENCY PLAN AND  
EMERGENCY RESPONSE MANUAL**

**MARKED-UP VERSION**

**SOUTHEAST COUNTY WASTE TIRE PROCESSING FACILITY  
EMERGENCY PROCEDURES**

**IN CASE OF FIRE:**

**A. SMALL FIRES**

1. Contact the Hillsborough County Solid Waste Management representatives immediately.
2. ~~Close~~ The control structure S-23 will be blocked with dirt and sand to prevent liquid runoff from entering the stormwater Basin D. When S-23 is removed, the gate valves on the 2 – 8” HDPE pipes will be closed.
3. Notify the Fire Department in case the situation cannot be managed in-house.
4. Remove all vehicles from the immediate area.
5. Separate the unburned tires using a front end loader (or other on-site available equipment).  
~~Separate the unburned tires using a front end loader (or other on site available equipment).~~
- ~~5.~~ 6. Utilize the on-site water wagon to extinguish the fire.
7. Place sand on the tires that are on fire to smother the fire. An active borrow area with equipment is located immediately to the east of the WTPF. Sand also will be used to absorb water and oily residue.
- ~~6. Sand will be used to absorb water and oily residue.~~
8. Clean up and dispose of sandy and oily residue following the contingency plan as described in the operations plan. The contaminated sand will be disposed of in the on-site landfill.
- ~~7. The contaminated sand will be disposed of in the on-site landfill.~~

**B. LARGE FIRES**

1. Immediately contact the Hillsborough County Fire Department.
2. ~~Close~~ The control structure S-23 will be blocked with dirt and sand to prevent liquid runoff from entering the stormwater Basin D. When S-23 is removed, the gate valves on the 2 – 8” HDPE pipes will be closed.
3. Remove all vehicles from the immediate area.

4. Contact the Hillsborough County Solid Waste Management representatives immediately.
5. Begin containment measures to minimize spreading of the fire and containing residue from the burning tires by digging a swale around the area (this will be supplemented with a berm, but by excavating a swale, this will provide immediate containment capabilities with on-site equipment), separating the unburned tires using a front end loader to lessen the potential for additional tires to catch on fire, and placement of a berm around the area for containment.  
~~Dig a swale around the area on fire to provide immediate containment capabilities with on-site equipment.~~

~~Separate the unburned tires using a front end loader.~~

5.6. Utilize the water wagon to contain the fire until the Fire Department arrives (only if worker safety is not at risk).

7. Place sand on the tires that are on fire to smother the fire. An active borrow area with equipment is located immediately to the east of the WTPF. Sand also will be used to absorb water and oily residue.
8. Clean up and dispose of sandy and oily residue following the contingency plan as described in the operations plan. The contaminated sand will be disposed of in the on-site landfill.

~~Sand will be used to absorb water and oily residue.~~

~~5. The contaminated sand will be disposed of in the on-site landfill.~~

In order to properly manage a fire emergency, the Waste Tire Processing Facility (WTPF) has been provided with the emergency procedures, as well as a cellular telephone for on and off-site communications. The WTPF is located at the Southeast County Class I Landfill, which is equipped with bulldozers, front-end loaders, scrapers and other such equipment, which is available for use in any emergency. Soil is available on site within 100 feet of the WTPF. If needed, the soil may be used for smothering a fire.

In accordance with Waste Tire Rule 62-711.540(1)(f), the operator of the site shall notify the Florida Department of Environmental Protection in the event of a fire or other emergency, which poses an unanticipated threat to the public health or environment. Within two weeks of any emergency, a written report detailing the emergency, actions taken to resolve the emergency and a review of the situation will be sent to the following:

Florida Department of Environmental Protection  
Waste Management Division  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637

Hillsborough County  
Environmental Protection Commission  
3629 Queen Palm Drive  
Tampa, Florida 33619

### **C. EMERGENCY PHONE NUMBERS**

<b>NAME</b>	<b>DURING OPERATING HOURS</b>	<b>AFTER OPERATING HOURS</b>
<b>EMERGENCY</b>	911	911
Larry Ruiz General Manager Hillsborough County Solid Waste	813-671-7707	813-503-6671
Ernest Ely District Manager Waste Management	813-637-9203	813-918-5804
FDEP Florida Department of Environmental Protection	813-632-7600	1-800-320-0519 (Emergency Response)
HCEPC Hillsborough County Environmental Protection Commission	813-627-2600	813-627-2600

### **NATURAL DISASTERS**

In the event of a flood, hurricane or other natural disaster, the procedures in the Solid Waste Management Department's Comprehensive Emergency Plan will be immediately implemented. The Hillsborough County Solid Waste Management Department Comprehensive Emergency Management Plan (CEMP) is a general document that is applicable to all facilities operated by the SWMD. The CEMP contains applicable and specific procedures that can be applied to the operations of the WTPF. The following sections from the CEMP are still the governing document for the facility:

- To the extent possible, SWMD sites will secure all equipment to protect it from flying debris or becoming flying debris.
- All gasoline powered equipment must be topped off with fuel.

**FINALIZED VERSION**

**SOUTHEAST COUNTY WASTE TIRE PROCESSING FACILITY  
EMERGENCY PROCEDURES**

**IN CASE OF FIRE:**

**A. SMALL FIRES**

1. Contact the Hillsborough County Solid Waste Management representatives immediately.
2. The control structure S-23 will be blocked with dirt and sand to prevent liquid runoff from entering the stormwater Basin D. When S-23 is removed, the gate valves on the 2 – 8” HDPE pipes will be closed.
3. Notify the Fire Department in case the situation cannot be managed in-house.
4. Remove all vehicles from the immediate area.
5. Separate the unburned tires using a front end loader (or other on-site available equipment).
6. Utilize the on-site water wagon to extinguish the fire.
7. Place sand on the tires that are on fire to smother the fire. An active borrow area with equipment is located immediately to the east of the WTPF. Sand also will be used to absorb water and oily residue.
8. Clean up and dispose of sandy and oily residue following the contingency plan as described in the operations plan. The contaminated sand will be disposed of in the on-site landfill.

**B. LARGE FIRES**

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2. The control structure S-23 will be blocked with dirt and sand to prevent liquid runoff from entering the stormwater Basin D. When S-23 is removed, the gate valves on the 2 – 8” HDPE pipes will be closed.
3. Remove all vehicles from the immediate area.
4. Contact the Hillsborough County Solid Waste Management representatives immediately.

5. Begin containment measures to minimize spreading of the fire and containing residue from the burning tires by digging a swale around the area (this will be supplemented with a berm, but by excavating a swale, this will provide immediate containment capabilities with on-site equipment), separating the unburned tires using a front end loader to lessen the potential for additional tires to catch on fire, and placement of a berm around the area for containment.
6. Utilize the water wagon to contain the fire until the Fire Department arrives (only if worker safety is not at risk).
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Hillsborough County  
Environmental Protection Commission  
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Tampa, Florida 33619



### **C. EMERGENCY PHONE NUMBERS**

<b>NAME</b>	<b>DURING OPERATING HOURS</b>	<b>AFTER OPERATING HOURS</b>
<b>EMERGENCY</b>	<b>911</b>	<b>911</b>
Larry Ruiz General Manager Hillsborough County Solid Waste	813-671-7707	813-503-6671
Ernest Ely District Manager Waste Management	813-637-9203	813-918-5804
FDEP Florida Department of Environmental Protection	813-632-7600	1-800-320-0519 (Emergency Response)
HCEPC Hillsborough County Environmental Protection Commission	813-627-2600	813-627-2600

### **NATURAL DISASTERS**

In the event of a flood, hurricane or other natural disaster, the procedures in the Solid Waste Management Department's Comprehensive Emergency Plan will be immediately implemented. The Hillsborough County Solid Waste Management Department Comprehensive Emergency Management Plan (CEMP) is a general document that is applicable to all facilities operated by the SWMD. The CEMP contains applicable and specific procedures that can be applied to the operations of the WTPF. The following sections from the CEMP are still the governing document for the facility:

- To the extent possible, SWMD sites will secure all equipment to protect it from flying debris or becoming flying debris.
- All gasoline powered equipment must be topped off with fuel.

**ATTACHMENT R.2.f**

**REVISED SECTION 3.2 OF ENGINEERING REPORT**

### 3.2 VECTOR CONTROL

The Hillsborough County Public Works Department provides mosquito control annually or as requested by the County for the WTPF as needed. Because there is only a short time between the receipt of whole tires and the processing of tires into tire chips, there is no rodent problem.

### 3.3 REPORTING AND RECORD KEEPING

Operation records, quarterly and annual reports, and annual fire inspection surveys are maintained at the SCLF scalehouse and at the SWMD office at 601 E. Kennedy Blvd. in Tampa, Florida. In accordance with Rule 62-711.530(4) FAC, the SWMD compiles and submits quarterly reports to the FDEP. In accordance with Rule 62-711.540 F.A.C., fire safety surveys are conducted at the property annually and submitted to FDEP with the annual reports. Attachment 6 contains a Quarterly Report Summary Table that lists the annual tonnage of tires received and processed at the WTPF.

The *Southeast County Waste Tire Processing Facility Emergency Preparedness Manual* and the Hillsborough County Solid Waste Management Department Comprehensive Emergency Management Plan (CEMP) are kept in the administrative offices/scale house of the Southeast County Landfill. The CEMP was last revised January 2009. The *Emergency Preparedness Manual* is also kept offsite together with the operation records at the SWMD office at 601 E. Kennedy Blvd. in Tampa, Florida. Minor modifications to the contact information provided in the *Emergency Preparedness Manual* are included in this permit renewal application. Please refer to Attachments 7 through 9 for the revised *Emergency Preparedness Manual*, Fire Safety Survey, and Closure Plan for the WTPF.

### 3.2 VECTOR CONTROL

The Hillsborough County Public Works Department provides mosquito control annually or as requested by the County for the WTPF as needed. Because there is only a short time between the receipt of whole tires and the processing of tires into tire chips, there is no rodent problem.

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**ATTACHMENT R.2.h**

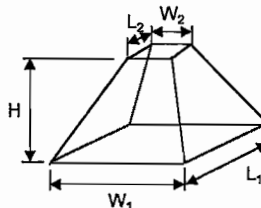
**REVISED TIRE PAD STORAGE CALCULATIONS -  
EXISTING**

## North Processed Tire Storage Area Pad Dimensions and Volumes (Existing)

Pads	1	2	3	4	5	6
Area (acre) <sup>1</sup>	0.23	0.22	0.20	0.19	0.18	0.23
Bottom (ft) Width (W1) Length (L1)	50.00 200.00	50.00 188.40	50.00 171.25	50.00 181.67	50.00 157.67	50.00 200.00
Fill Height (ft) (H)	8.00	8.00	8.00	8.00	8.00	8.00
Top (ft) Width (W2) Length (L2)	28.00 176.00	26.00 164.40	26.00 147.25	26.00 137.67	26.00 133.67	26.00 176.00
Pad Volume <sup>3</sup> without void space (ft <sup>3</sup> ) (cy)	56,908 2,108	53,440 1,979	48,311 1,789	45,445 1,683	44,249 1,639	58,908 2,108
Storage per Pad (lb.) <sup>2</sup> based on 900 lb/cy <sup>3</sup> packed loosely	1,896,943	1,781,321	1,610,357	1,514,842	1,474,958	1,896,943
Storage per Pad (tons)	948	891	805	757	737	948
Total Tire Volume (cy)	11,306					
Total Tire Storage (tons)	5,088					
Total Tire Storage (sq. ft.)	53,950					

- Notes:
1. Please refer to Attachment 2 for Tire Storage Pad dimensions.
  2. Conversion factor obtained from the Rubber Manufacturers Association.
  3. Assume 1.5:1 side slopes.
  4. Tire weight of 44.4 lb based on assuming 25% of tires received are truck tires and 75% of tires received are passenger car tires. Tire weights obtained from the Rubber Manufacturers Association.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

$$\text{Volume} = (H/3) \left[ (W_1 * L_1) + (W_2 * L_2) + \sqrt{(W_1 * L_1) * (W_2 * L_2)} \right]$$

Example:

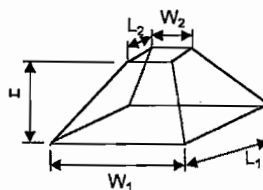
$$\text{Volume} = (8/3) \left[ (50 * 200) + (26 * 176) + \sqrt{(50 * 200) * (26 * 176)} \right] = 56,908 \text{ Ft}^3$$

## West Processed Tire Storage Area Pad Dimensions and Volumes (Existing)

Pads	1	2	3	4	5	6	7
Area (acre)	0.215	0.166	0.230	0.230	0.230	0.230	0.230
Bottom (ft) <sup>1</sup>							
Width (W1)	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Length (L1)	187.50	144.40	200.00	200.00	200.00	200.00	200.00
Fill Height (ft) (H)	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Top (ft)							
Width (W2)	26.00	26.00	26.00	26.00	26.00	26.00	26.00
Length (L2)	163.50	120.40	176.00	176.00	176.00	176.00	176.00
Pad Volume without void space (ft <sup>3</sup> )	53,170	40,279	56,908	56,908	56,908	56,908	56,908
(cy)	1,969	1,492	2,108	2,108	2,108	2,108	2,108
Storage per Pad (lb.) based on 900 lb/cy <sup>3</sup> packed loosely	1,772,350	1,342,622	1,896,943	1,896,943	1,896,943	1,896,943	1,896,943
Storage per Pad (tons)	888	671	948	948	948	948	948
Total Tire Volume (cy)	14,000						
Total Tire Storage (tons)	8,300						
Total Tire Storage (sq. ft.)	66,595						

- Notes: 1. Please refer to Attachment 2 for Tire Storage Pad dimensions.  
 2. Conversion factor obtained from the Rubber Manufacturers Association.  
 3. Assume 1.5:1 side slopes.  
 4. Tire weight of 44.4 lb based on assuming 25% of tires received are truck tires and 75% of tires received are passenger car tires. Tire weights obtained from the Rubber Manufacturers Association.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

$$\text{Volume} = (H/3) \left[ (W_1 * L_1) + (W_2 * L_2) + \sqrt{(W_1 * L_1) * (W_2 * L_2)} \right]$$

Example

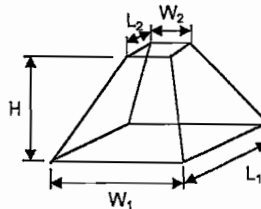
$$\text{Volume} = (8/3) \left[ (50 * 187.5) + (26 * 163.5) + \sqrt{(50 * 187.5) * (26 * 163.5)} \right] = 53,170 \text{ Ft}^3$$

## Existing Whole Tire Storage Area Pad Dimensions and Volumes

Pads	1	2	3	4	5	6
Area (acre) <sup>1</sup>	0.230	0.230	0.230	0.230	0.230	0.230
Bottom (ft) Width (W1) Length (L1)	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00
Fill Height (ft) (H)	15.00	15.00	15.00	15.00	15.00	15.00
Top (ft) Width (W2) Length (L2)	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00
Pad Volume <sup>3</sup> with void space (ft <sup>3</sup> ) (cy)	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511
Qty Tires per Pad <sup>2</sup> based on 10 tires/cy loosely packed	25,109	25,109	25,109	25,109	25,109	25,109
Storage per Pad (lb.) <sup>4</sup> based on 44.4 lb/tire	1,114,841	1,114,841	1,114,841	1,114,841	1,114,841	1,114,841
Storage per Pad (tons)	557	557	557	557	557	557
Total Tire Volume (cy)	15,065					
Total Tire Storage (tons)	3,345					
Total Tire Storage (sq. ft.)	60,000					

- Notes:
1. Please refer to Attachment 2 for Tire Storage Pad dimensions.
  2. Conversion factor obtained from the Rubber Manufacturers Association.
  3. Assume 1.5:1 side slopes.
  4. Tire weight of 44.4 lb based on assuming 25% of tires received are truck tires and 75% of tires received are passenger car tires. Tire weights obtained from the Rubber Manufacturers Association.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

$$\text{Volume} = (H/3) \left[ (W_1 * L_1) + (W_2 * L_2) + \sqrt{(W_1 * L_1) * (W_2 * L_2)} \right]$$

Example

$$\text{Volume} = (8/3) \left[ (50 * 200) + (5 * 155) + \sqrt{(50 * 200) * (5 * 155)} \right] = 25,109 \text{ Ft}^3$$



**ATTACHMENT R.2.h**

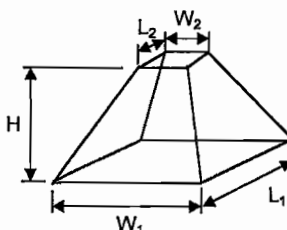
**REVISED TIRE PAD STORAGE CALCULATIONS -  
RECONFIGURATION**

## North Processed Tire Storage Area Pad Dimensions and Volumes (Reconfiguration)

Pads	1	2	3	4	5	6	7
Area (acre) <sup>1</sup>	0.23	0.22	0.20	0.19	0.18	0.16	0.12
Bottom (ft) Width (W1) Length (L1)	50.00 200.00	50.00 188.40	50.00 171.25	50.00 161.67	50.00 157.67	50.00 136.67	50.00 103.17
Fill Height (ft) (H)	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Top (ft) Width (W2) Length (L2)	26.00 176.00	26.00 164.40	26.00 147.25	26.00 137.67	26.00 133.67	26.00 112.67	26.00 79.17
Pad Volume <sup>3</sup> without void space (ft <sup>3</sup> ) (cy)	56,908 2,108	53,440 1,979	48,311 1,789	45,445 1,683	44,249 1,639	37,966 1,406	27,935 1,035
Storage per Pad (lb.) <sup>2</sup> based on 900 lb/cy <sup>3</sup> packed loosely	1,896,943	1,781,321	1,610,357	1,514,842	1,474,958	1,265,519	931,156
Storage per Pad (tons)	948	891	805	757	737	633	466
Total Tire Volume (cy)	11,639						
Total Tire Storage (tons)	5,238						
Total Tire Storage (sq. ft.)	55,942						

- Notes:
- Please refer to Attachment 4 for Tire Storage Pad dimensions.
  - Conversion factor obtained from the Rubber Manufacturers Association.
  - Assume 1.5:1 side slopes.
  - Tire weight of 44.4 lb based on assuming 25% of tires received are truck tires and 75% of tires received are passenger car tires. Tire weights obtained from the Rubber Manufacturers Association.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

$$\text{Volume} = (H/3) \left[ (W_1 * L_1) + (W_2 * L_2) + \sqrt{(W_1 * L_1) * (W_2 * L_2)} \right]$$

$$\text{Volume} = (8/3) \left[ (50 * 200) + (26 * 176) + \sqrt{(50 * 200) * (26 * 176)} \right] = 56,908 \text{ Ft}^3$$



Project Number: 08449-030-03

Page 2 of 3

Project Name: WTPF Permit Renewal Application

Subject: Pad Dimensions and Volumes

By: J. Morales

Date: 8/19/2009

Checked by: J. Timmons

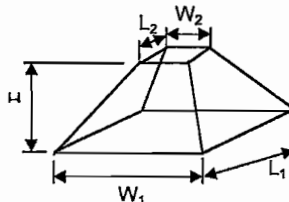
Date: 9/3/2009

**West Processed Tire Storage Area  
Pad Dimensions and Volumes  
(Reconfiguration)**

Pads	1	2	3	4	5	6	7	8	9
Area (acre) <sup>1</sup>	0.215	0.123	0.194	0.230	0.230	0.230	0.230	0.166	0.217
Bottom (ft) Width (W1)	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Length (L1)	187.50	106.75	169.33	200.00	200.00	200.00	200.00	144.75	188.67
Fill Height (ft) (H)	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Top (ft) Width (W2 ) Length (L2)	26.00 163.50	26.00 82.75	26.00 145.33	26.00 176.00	26.00 176.00	26.00 176.00	26.00 176.00	26.00 120.75	26.00 164.67
Pad Volume <sup>3</sup> without void space (ft <sup>3</sup> ) (cy)	53,170 1,969	29,007 1,074	47,736 1,768	56,908 2,108	56,908 2,108	56,908 2,108	56,908 2,108	40,383 1,496	53,520 1,982
Storage per Pad (lb.) <sup>2</sup> based on 900 lb/cy <sup>3</sup> packed loosely	1,772,350	966,911	1,591,215	1,896,943	1,896,943	1,896,943	1,896,943	1,346,113	1,784,012
Storage per Pad (tons)	886	483	796	948	948	948	948	673	892
Total Tire Volume (cy)	16,720								
Total Tire Storage (tons)	7,524								
Total Tire Storage (sq. ft.)	79,850								

- Notes:
1. Please refer to Attachment 4 for Tire Storage Pad dimensions.
  2. Conversion factor obtained from the Rubber Manufacturers Association.
  3. Assume 1.5:1 side slopes.
  4. Tire weight of 44.4 lb based on assuming 25% of tires received are truck tires and 75% of tires received are passenger car tires. Tire weights obtained from the Rubber Manufacturers Association.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

$$\text{Volume} = (H/3) \left[ (W_1 * L_1) + (W_2 * L_2) + \sqrt{(W_1 * L_1) * (W_2 * L_2)} \right]$$

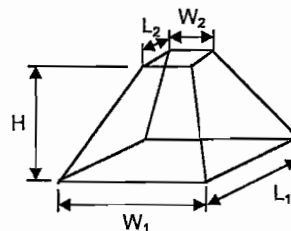
$$\text{Volume} = (8/3) \left[ (50 * 187.5) + (26 * 163.5) + \sqrt{(50 * 187.5) * (26 * 163.5)} \right] = 53,170 \text{ Ft}^3$$

## Existing Whole Tire Storage Area Pad Dimensions and Volumes

Pads	1	2	3	4	5	6
Area (acre)	0.230	0.230	0.230	0.230	0.230	0.230
Bottom (ft) Width (W1) Length (L1)	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00	50.00 200.00
Fill Height (ft) (H)	15.00	15.00	15.00	15.00	15.00	15.00
Top (ft) Width (W2) Length (L2)	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00	5.00 155.00
Pad Volume with void space (ft <sup>3</sup> ) (cy)	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511	67,794 2,511
Qty Tires per Pad based on 10 tires/cy loosely packed	25,109	25,109	25,109	25,109	25,109	25,109
Storage per Pad (lb.) based on 44.4 lb/tire	1,114,841	1,114,841	1,114,841	1,114,841	1,114,841	1,114,841
Storage per Pad (tons)	557	557	557	557	557	557
Total Tire Volume (cy)	15,065					
Total Tire Storage (tons)	3,345					
Total Tire Storage (sq. ft.)	60,000					

- Notes: 1. Please refer to Attachment 4 for Tire Storage Pad dimensions.  
 2. Conversion factor obtained from the Rubber Manufacturers Association.  
 3. Assume 1.5:1 side slopes.

Volume of Tire Pads



\* Slopes 1.5 H : 1 V

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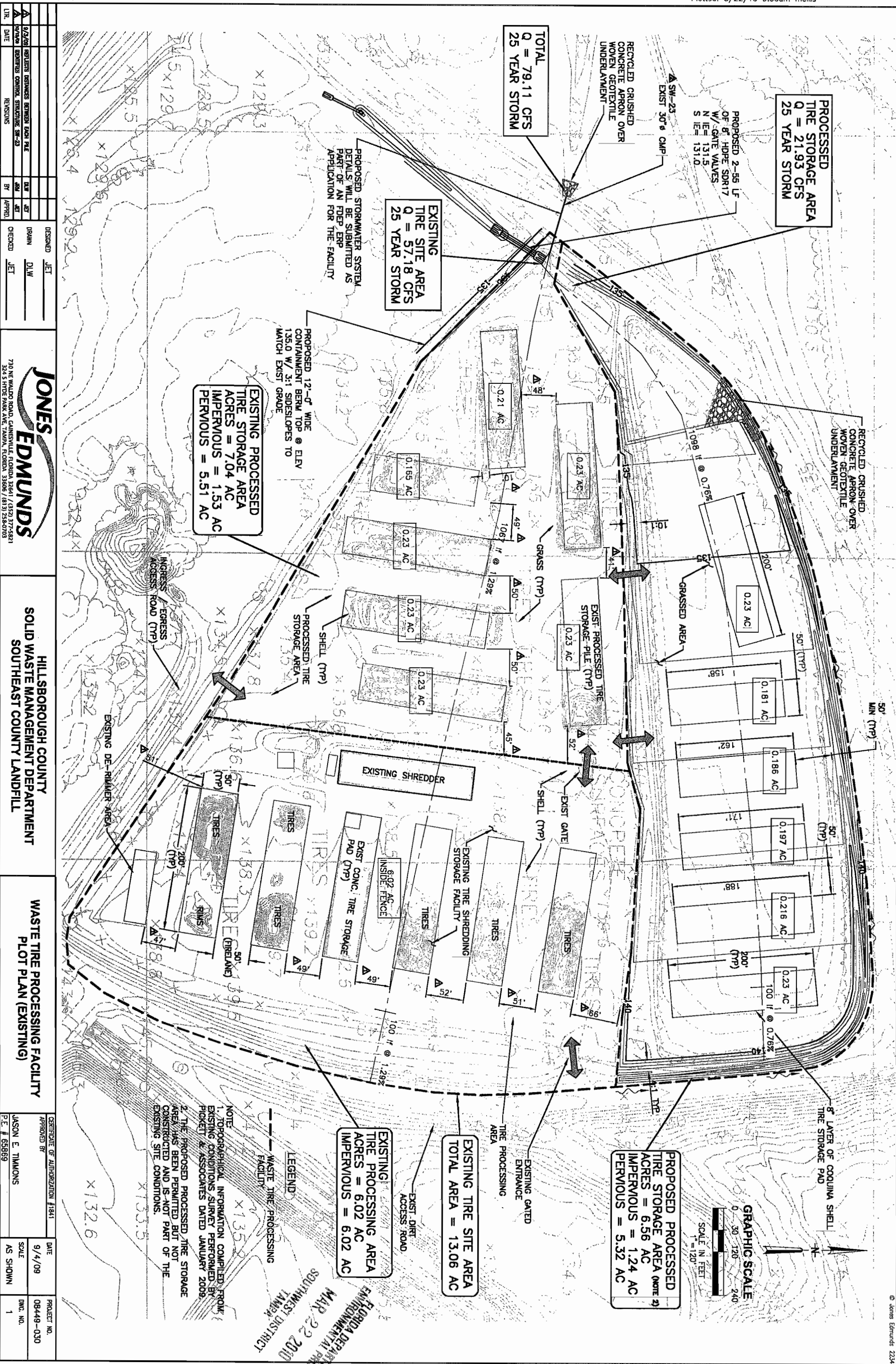
$$\text{Volume} = (15/3) \left[ (50 * 200) + (5 * 155) + \sqrt{(50 * 200) * (5 * 155)} \right] = 67,794 \text{ Ft}^3$$

**ATTACHMENT R.3.a**

**WASTE TIRE PROCESSING FACILITY PLOT PLANS**

Plotted: 3/22/10 9:00am mellis

LAST SAVED: 3/22/2010 8:45 AM MELLIS



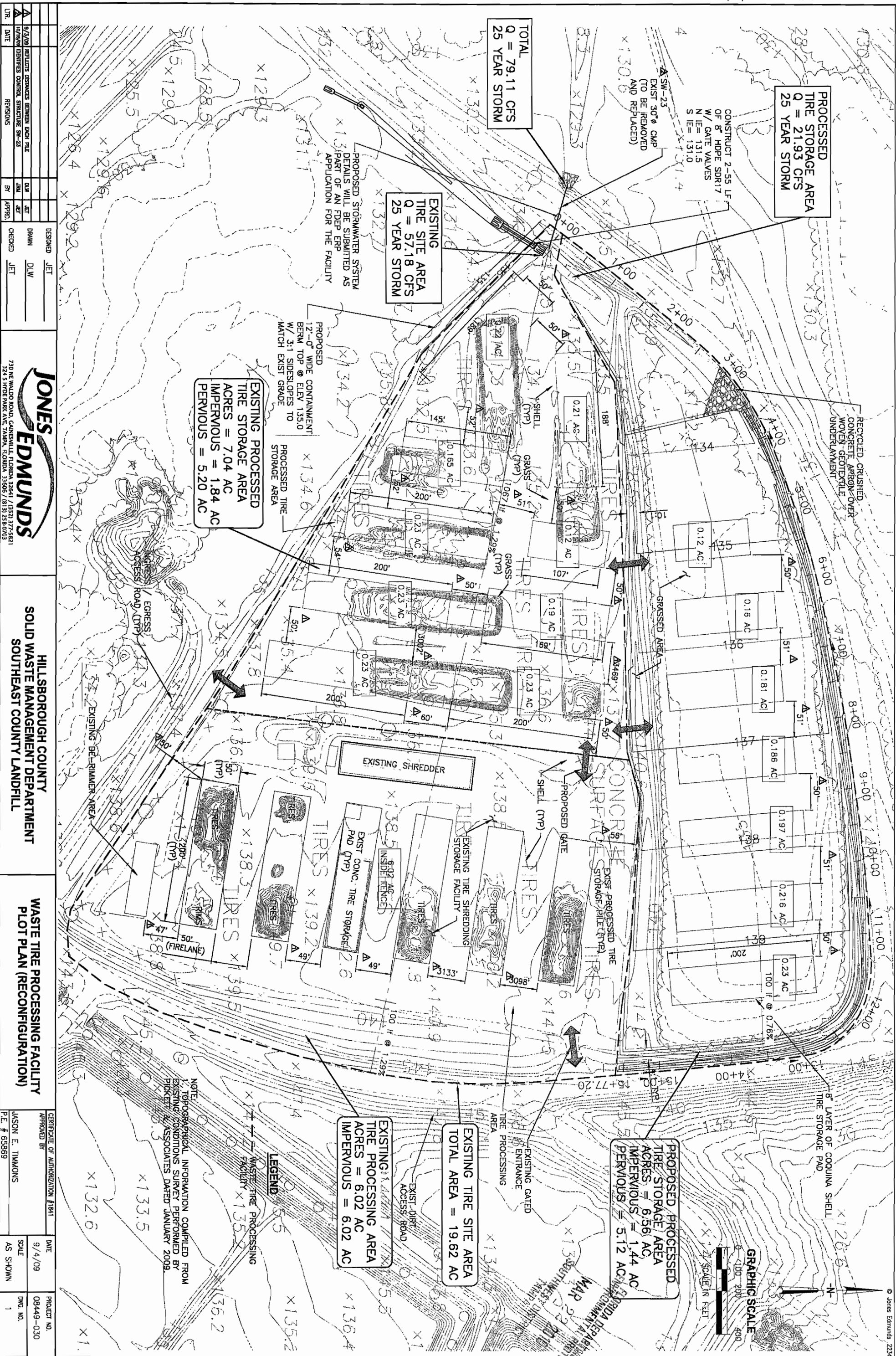
# ATTENTION



**OVERSIZED DRAWINGS  
HAVE BEEN SCANNED  
SEPARATELY PLEASE  
SEE:**

- **126787-004-WT/02: RESPONSE TO  
RAI#1 ATTACHMENT R.3.A PLOT  
PLAN (EXISTING)**
- **126787-004-WT/02: RESPONSE TO  
RAI#1 ATTACHMENT R.3.A PLOT  
PLAN (RECONFIGURATION)**







**ATTACHMENT R.5**

**REVISED FINANCIAL ASSURANCE**



# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(28)

Form Title: Closure Cost Estimating Form For Solid Waste  
Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C.

## CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: \_\_\_\_\_

### I. GENERAL INFORMATION:

Facility Name: Hillsborough County Southeast County Landfill - Phases I-VI WACS ID: SWD/29/41193

Permit Application or Consent Order No.: 35435-014-SO/01 Expiration Date: 12/29/2013

Facility Address: 15960 CR 672 Lithia, FL 33547 (8.8 miles east of U.S. 301 on County Road 672)

Permittee or Owner/Operator: Hillsborough County Solid Waste Management Department

Mailing Address: P.O. Box 1110, Tampa, FL 33601

Latitude: 27° 46' 26" North

Longitude: 82° 11' 01" West

Coordinate Method: AutoCADD Survey

Datum: NAD 83

Collected by: Pickett and Associates

Company/Affiliation: Jones Edmunds (Engineer)

### Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Phases I-VI	162.4	1984	38.75 years	12.75 years	N/A	N/A
Waste Tire Site	16,107 tn	N/A	N/A	N/A	N/A	N/A

Total disposal unit acreage included in this estimate: Closure: 162.4 Long-Term Care: 162.4

Facility type: ☒ Class I ☐ Class III ☐ C&D Debris Disposal  
(Check all that apply) ☐ Other: \_\_\_\_\_

### II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

☐ Letter of Credit\* ☐ Insurance Certificate ☐ Escrow Account  
☐ Performance Bond\* ☒ Financial Test ☐ Form 29 (FA Deferral)  
☐ Guarantee Bond\* ☐ Trust Fund Agreement

\* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

Northwest District  
160 Government Center  
Pensacola, FL 32502-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-807-3300

Central District  
3319 Maguire Blvd., Ste. 232  
Orlando, FL 32803-3767  
407-894-7555

Southwest District  
13051 N. Telecom Pky  
Temple Terrace, FL  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
239-332-6975

Southeast District  
400 North Congress Ave.  
West Palm Beach, FL 33401  
561-681-6600

### III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☐ (a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website [www.dep.state.fl.us/waste/categories/swfr](http://www.dep.state.fl.us/waste/categories/swfr) or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated: \_\_\_\_\_

Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor		Inflation Adjusted Closing Cost Estimate:
_____	X _____	=	_____ \$0.00

This adjustment is based on the Department approved long-term care cost estimate dated: \_\_\_\_\_

Annual Long-Term Care Cost Estimate:	Current Year Inflation Factor		Inflation Adjusted Annual Long- Term Care Cost Estimate:
_____	X _____	=	_____ \$0.00

Number of Years of Long Term Care Remaining: \_\_\_\_\_ X \_\_\_\_\_

Inflation Adjusted Long-Term Care Cost Estimate: \_\_\_\_\_ = \_\_\_\_\_ \$0.00

Signature by: ☐ Owner/Operator ☐ Engineer (check what applies)

\_\_\_\_\_  
Signature Address

\_\_\_\_\_  
Name & Title City, State, Zip Code

\_\_\_\_\_  
Date E-Mail Address (if available)

\_\_\_\_\_  
Telephone Number

☒ (b) Recalculated or New Cost Estimates (see Section IV)

#### IV. ESTIMATED CLOSING COST (check what applies)

☐ Recalculate Cost Estimate

☐ New Facility Cost Estimate

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

\*\* Cost estimate must be certified by a professional engineer (see Section VI).

\*\* Costs must be for a third party providing all material, equipment and labor which is at least at fair market value

\*\* In some cases, a price quote in support of individual item estimates may be required.

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells		(Do not include wells already in existence)		
	EA	Not Applicable.		
		Subtotal Monitoring Wells:		
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY	Included in offsite material costs.		
Placement and Spreading	CY	79,780	\$ 2.67	\$213,011
Compaction	CY	Included in placement and spreading.		
Off-Site Material	CY	79,780	\$ 4.85	\$386,931
Delivery	CY	79,780	\$ 2.77	\$220,989
		Subtotal Slope and Fill:		\$820,931
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY	Not applicable.		
Synthetics - 40 mil	SY	837,141	\$ 3.74	\$3,130,907
Synthetics - GCL	SY	Not applicable.		
Synthetics - Geonet	SY	435,382	\$ 3.74	\$1,628,329
Synthetics - Other (describe)		Not applicable.		
		Subtotal Barrier Layer Cover:		\$4,759,236
4. Top Soil Cover:				
Off-Site Material (24" cover)	CY	558,456	\$ 4.85	\$2,708,512
Delivery	CY	558,456	\$ 2.77	\$1,546,923
Spread	CY	638,235	\$ 2.67	\$1,704,087
		Subtotal Top Soil Cover:		\$5,959,522
5. Vegetative Layer				
Sodding	SY	546,400	\$ 1.71	\$934,344
Hydroseeding*	AC SY	411,003	\$ 0.44	\$180,841
Fertilizer	AC	N/A		
Mulch	AC	N/A		
Other (describe)		N/A		
		Subtotal Vegetative Layer:		\$1,115,185
* Hydroseeding Includes Mulch and Fertilizer				
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches	LF			
Berms	LF	34,744	\$ 19.06	\$662,221
Control Structures*	EA LF	3,113	\$ 213.92	\$665,933
Other (describe)**	LS	1	\$ 362,203	\$362,203
		Subtotal Stormwater Controls:		\$1,690,357
* Downchute Construction				
** Drainage Toe Construction				

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
<b>7. Gas Control: Passive</b>				
Wells	EA	146	\$ 6,628.69	\$967,789
Pipe and Fittings	LF			
Monitoring Probes	EA			
NSPS/Title V requirements	LS			
Subtotal Passive Gas Control:				<b>\$967,789</b>
<b>8. Gas Control: Active Extraction N/A Active Gas Collection is not proposed at this time.</b>				
Traps	EA	N/A		
Sumps	EA	N/A		
Flare Assembly	EA	N/A		
Flame Arrestor	EA	N/A		
Mist Eliminator	EA	N/A		
Flow Meter	EA	N/A		
Blowers	EA	N/A		
Collection System	LF	N/A		
Other (describe)		N/A		
Subtotal Active Gas Extraction:				<b>\$0</b>
<b>9. Security System N/A Security fencing, gates and signed are existing.</b>				
Fencing	LF	N/A		
Gate(s)	EA	N/A		
Sign(s)	EA	N/A		
Subtotal Security System:				<b>N/A</b>
<b>10. Engineering</b>				
Closure Plan Report	LS	Included in Certified Engineer.		\$0
Certified Engineering Drawings	LS	1	\$ 918,781	\$918,781
NSPS/Title V Air Permit	LS			\$0
Final Survey	LS	1	\$ 10,664	\$10,664
Certification of Closure	LS	Included in Certified Engineer.		\$0
Other (Permit Fee)	LS	1	\$ 7,998.08	\$7,998
Subtotal Engineering:				<b>\$937,443</b>

Effective January 6, 2010

DESCRIPTION	HOURS	LS	HOURS	LS	Total
<b>11. Professional Services</b>					
	<b>Contract Management</b>		<b>Quality Assurance</b>		
P.E. Supervisor	1,440	\$191,201	1,440	\$ 195,025	\$386,226
On-Site Engineer			720	\$ 72,942	\$72,942
Office Engineer	1,440	\$143,024	720	\$ 72,942	\$215,967
On-Site Technician			6,912	\$ 700,247	\$700,247
Other (admin. asst.)	2,880	\$171,629			\$171,629

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	\$ 266,603	\$266,603
Subtotal Professional Services:				<b>\$1,813,615</b>
Subtotal of 1-11 Above:				<b>\$18,064,078</b>

12. Contingency	5% of Total			<b>\$903,204</b>
Closing Cost Subtotal:				<b>\$18,967,282</b>

<b>13. Site Specific Costs (explain)</b>				
Mobilization (10% of construction costs)				\$1,531,302
Waste Tire Facility				\$658,272
Materials Recovery Facility				
Special Wastes				
Leachate Management System Modification				
Other: Bonds and Insurance (2% of construction costs)				\$306,260
Contingency for site specific costs (5%)				\$124,792

Subtotal Site Specific Costs: **\$2,620,626**  
**TOTAL CLOSING COSTS: \$21,587,908**

# **V. ANNUAL COST FOR LONG-TERM CARE**

(Check Term Length)

\_\_\_\_\_ 5 Years  
\_\_\_\_\_ Other

\_\_\_\_\_ 20 Years  
\_\_\_\_\_ Years

\_\_\_\_\_ 30 Years

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**\*\* Cost estimates must be certified by a professional engineer (see Section VI).**

**\*\* Costs must be for a third party providing all material, equipment and labor which is at least at fair market value.**

**\*\* In some cases, a price quote in support of individual item estimates may be required.**

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

DESCRIPTION	SAMPLING		NUMBER OF WELLS	\$ / WELL / EVENT	\$ / YEAR
	FREQUENCY (EVENT/YEAR)				
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]					
Monthly	12				
Quarterly	4	7	\$ 985.36	\$27,590	
Semi-Annually	2	2	\$ 985.36	\$3,941	
Annually	1				
			Subtotal Groundwater Monitoring:		\$31,532
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]					
Monthly	12				
Quarterly	4				
Semi-Annually	2		Included in Sections 7 and 8 Estimate.		
Annually	1				
			Subtotal Surface Water Monitoring:		\$0
3. Gas Monitoring [62-701.400(10)]					
Monthly	12				
Quarterly	4		Included in Sections 7 and 8 Estimate.		
Semi-Annually	2				
Annually	1				
			Subtotal Gas Monitoring:		\$0
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]					
Monthly	12				
Quarterly	4				
Semi-Annually	2				
Annually	1		Included in Sections 7 and 8 Estimate.		
Other (describe)					
			Subtotal Leachate Monitoring:		\$0

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>5. Leachate Collection/Treatment Systems Maintenance</b>				
<u>Maintenance</u>				
Collection Pipes	LF	10,291	\$ 0.16	\$1,647
Sumps, Traps	EA			
Lift Stations	EA			
Cleaning	LS			\$0
Tanks	EA Every 3 years	2	\$ 20,795.00	\$13,863
<u>Impoundments</u>				
Liner Repair	SY			
Sludge Removal	CY			
<u>Aeration Systems</u>				
Floating Aerators	EA			
Spray Aerators	EA			
<u>Disposal</u>				
Off-site	1000 gallon	15,439	\$ 35.19	\$543,298
(Include Transportation and Disposal)				Subtotal LCS/Treatment System Maintenance: \$558,808

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>6. Leachate Collection/Treatment Systems Operation</b>				
<u>Operation</u>				
P.E. Supervisor	HR			
On-Site Engineer	HR			
Office Engineer	HR			
On-Site Technician	HR			
Materials	LS			
Subtotal LCS/Treatment System Operation:				\$0
<b>7. Maintenance of Groundwater Monitoring Wells</b>				
Monitoring Wells	LF	1	\$ 2,132.82	\$2,133
Replacement	EA			
Abandonment	EA			
Subtotal Groundwater Monitoring Well Maintenance:				\$2,133

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
<b>8. Gas System Maintenance</b>				
Piping, Vents	LF EA	30	\$ 159.96	\$4,799
Blowers	EA			
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS			
Subtotal Gas System:				\$4,799



DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST	
9. Landscape Maintenance					
Mowing	AC	8 times per year	164	\$ 26.66	\$34,935
Fertilizer	AC				
Subtotal Landscape Maintenance:					\$34,935

10. Erosion Control & Cover Maintenance					
Sodding	SY		26,427	\$ 1.71	\$45,190
Regrading	AC		8.1	\$ 3,191.93	\$25,918
Liner Repair	SY		N/A		
Clay	CY		N/A		
Subtotal Erosion Control and Cover Maintenance:					<b>\$71,109</b>

11. Storm Water Management System Maintenance					
Conveyance Maintenance	LS		1,274	\$ 2.05	\$2,611
Subtotal Storm Water System Maintenance:					<b>\$2,611</b>

12. Security System Maintenance					
Fences	LF	Included in Sections 7 and 8 Estimate.			
Gate(s)	EA				
Sign(s)	EA				
Subtotal Security System:					<b>\$0</b>

13. Utilities	LS		1	\$ 31,992.30	\$31,992
Utilities Subtotal:					<b>\$31,992</b>

DESCRIPTION	UNIT	HOURS	\$ / HOUR	TOTAL
14. Administrative	All administrative costs estimated by Jones Edmunds.			
P.E. Supervisor	HR	16	\$ 135.43	\$2,167
On-Site Engineer	HR			\$0
Office Engineer	HR			\$0
OnSite Technician	HR	96	\$ 101.31	\$9,726
Other (2 equipment operators and 2 laborers)		8,320	\$ 23.99	\$199,597
Subtotal Administrative:				\$211,489
15. Contingency	_____ % of Total			0%
Subtotal Contingency:				\$0

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
16. Site Specific Costs (explain)				
Impoundment Basin Operation and Disposal	LS			\$21,328
Gas Monitoring Well Maintenance	LS			\$4,266
Benchmark Maintenance	LS			\$533

ANNUAL LONG-TERM CARE COST (\$/Year): **\$975,535**

NUMBER OF YEARS LONG-TERM CARE **30**

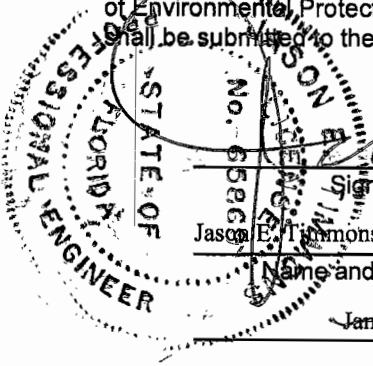
TOTAL LONG-TERM CARE COST (\$) **\$29,266,050**

## VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility, known as the Southeast County Landfill Phases I-VI, have been examined by me and found to conform to

Facility Name

engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

  
\_\_\_\_\_  
Signature  
Jason E. Timmons, P.E. Project Engineer  
\_\_\_\_\_  
Name and Title (please type)  
January 26, 2010 3/11/10 ST  
\_\_\_\_\_  
Date

FL PE No. 65869; JE Cert. of Auth. No. 1841

Florida Registration Number  
(please affix seal)

324 South Hyde Park Avenue, Ste. 250

\_\_\_\_\_  
Mailing Address

Tampa, FL 33606

\_\_\_\_\_  
City, State, Zip Code

jtimmons@jonesedmunds.com

\_\_\_\_\_  
E-Mail address (if available)

( 813 ) 258-0703

\_\_\_\_\_  
Telephone Number

## VII. SIGNATURE BY OWNER/OPERATOR

  
\_\_\_\_\_  
Signature of Applicant  
Barry M. Boldissar, Director  
\_\_\_\_\_  
Name and Title (please type)  
boldissarb@hillsboroughcounty.org  
\_\_\_\_\_  
E-Mail address (if available)

P.O. Box 1110

\_\_\_\_\_  
Mailing Address

Tampa, FL 33601

\_\_\_\_\_  
City, State, Zip Code

( 813 ) 272-5680

\_\_\_\_\_  
Telephone Number

**FINANCIAL ASSURANCE  
COST ESTIMATE BACK-UP DATA**

Hauling:

HAULING OF TIRES

Given: \$240/TRUCK; EACH TRUCK HOLDS 100 CY/TRUCK PER DANIEL ZIMMERMAN  
3,345 TONS (15065 CY) WHOLE TIRES WITH ZIMMERMAN OVERLAND  
12,762 TONS (28360 CY) SHREDDED TIRES SERVICES (08-18-09)

$$= 16107 \text{ TONS (43425 CY) TIRES}$$

$$\text{RESULTS: } (43425 \text{ CY}) \left( \frac{1 \text{ TRUCK}}{100 \text{ CY}} \right) = 434.25 \approx 435 \text{ TRUCKS}$$

$$(435 \text{ TRUCKS}) \left( \frac{\$240}{\text{TRUCK}} \right) = \underline{\underline{\$104400}}$$

HAULING OF RIMS

Given: \$8.25/TON TO HAUL RIMS\* PER ZIMMERMAN OVERLAND SERVICES  
\$305.40/DAY FOR TRACTOR TRAILER PER 2009 RS MEANS (0154 33-20-470)  
46.78 TONS OF RIMS OBTAINED FROM THE COUNTY

$$\text{HAUL} - (46.78 \text{ TONS OF RIMS}) \left( \frac{\$8.25}{\text{TON}} \right) = \underline{\underline{\$385.94}}$$

$$\text{LOAD} - \left( \frac{\$305.40}{\text{DAY}} \right) (0.937 \text{ TAMPA CITY FACTOR}) = \underline{\underline{\$286.16}}$$

DISPOSAL:

DISPOSAL OF WHOLE TIRES WITHOUT RIMS

Given: 3345 TONS OF WHOLE TIRES  
\$70/TON WHOLE TIRE DISPOSAL FEE PER WHEELABRATOR RIDGE ENERGY, INC.

$$(3345 \text{ TONS}) \left( \frac{\$70}{\text{TON}} \right) = \underline{\underline{\$234,150}}$$

DISPOSAL OF SHREDDED TIRES

Given: 12762 TONS OF SHREDDED TIRES  
\$25/TON DISPOSAL FEE

$$(12762 \text{ TONS}) (\$25/\text{TON}) = \$319,050$$

TOTAL  
COST

\$104,400.00  
385.94  
286.16  
234,150.00  
319,050.00

\$658,272.10