



ANGELO'S RECYCLED MATERIALS

855 28th Street South
St. Petersburg, Florida 33712
Telephone (727) 581-1544
Fax (727) 586-5676
www.angelosrm.com

May 12, 2016

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

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 12 2016
SOUTHWEST DISTRICT
TEMPLE TERRACE

RE: Angelo's Aggregate Materials, LTD
Enterprise Road Recycling and Disposal Waste Tire Facility
Permit Renewal Application
Permit No.: 303741-001-WT/02


Dear Ms. Gaskin:

Enclosed, please find updates to the permit renewal application along with a \$250.00 check for the balance of the application fee. The enclosed updates include the following:

- Pages 1 and 2 of 4 of the permit application form,
- Closure Cost Estimate (with capacities), and
- Emergency Preparedness Manual – May 2016 Permit Renewal (all information remains the same except for footer and updated telephone numbers for FDEP and contacts listed in paragraph 5)

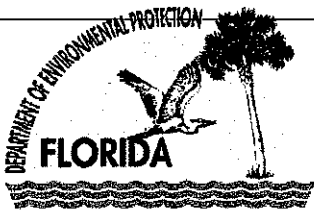
Please let me know if you have any questions or if you need any additional information.

Sincerely,



John Arnold, P.E.

xc: Dominic A. Iafrate, Vice President, Angelo's Recycled Materials
John Locklear, P.G., Locklear and Associates, Inc.



Florida Department of Environmental Protection

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

DEP Form # 62-701.900(23)
Form Title: Waste Tire Processing
Facility Permit Application
Effective Date: January 6, 2010
Incorporated in Rule 62-711.530(6)

Waste Tire Processing Facility Permit Application

Permit No. 303741-001-WT/02

Renewal Modification Existing unpermitted facility Proposed new facility

Part I-General Information:

A. Applicant Information:

- Applicant Name: Angelo's Aggregate Materials, LTD
- Applicant Street Address: 855 28th Street South
- City: St. Petersburg County: Pinellas Zip: 33712
- Applicant Mailing Address: Same
- City: _____ County: _____ Zip: _____
- Contact person: Dominic lafrate Phone: (727) 612-9257 FEID No: 59-3448428
- Have any enforcement actions been 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:

- Facility Name: Enterprise Road Recycling and Disposal Waste Tire Facility
- Facility Street Address (Main Entrance): 41111 Enterprise Road
- City: Dade City County: Pasco Zip: 33525
- Facility Mailing Address: Same
- City: _____ State: _____ Zip: _____
- Contact Person: John Arnold Phone: (813) 477-1719
- Facility Location Coordinates:
Section: 5,8 Township: 25S Range: 22E
Latitude: 28deg 19min 53sec North Longitude: 82deg 08min 06sec West
- Anticipated date for starting construction NA and for completion of construction NA
- Anticipated date for receipt of tires NA and for start of processing NA

Mail completed form to
appropriate district office listed below

Northwest District 160 Government Center Pensacola, FL 32501-5794 850-595-8360	Northeast District 7825 Baymeadows Way, Ste. 200 B 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 33902-2549 239-332-6975	Southeast District 400 North Congress Ave. West Palm Beach, FL 33401 561-681-6600
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C. Land Owner Information (if different from applicant):

1. Owner's name: Same
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
2. Operator's mailing address: _____
3. City: _____ State: _____ Zip: _____
4. Contact person: _____ Phone: () _____

E. Preparer of Application:

1. Name of person preparing application: John Arnold
2. Mailing address: 34924 Williams Cemetery Road
3. City: Dade City State: FL Zip: 33525
4. Phone: (813)477-1719
5. Affiliation with facility: Engineer

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.
- Waste tire processing facility with on-site consumption of waste tires or processing residuals.
- 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. Storage: 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:	<u>842</u>	<u>30,000</u>	<u>0</u>	<u>0</u>	<u>842</u>
Processed tires:	<u>1,186</u>	<u>10,000</u>	<u>0</u>	<u>0</u>	<u>1,186</u>
Processing residuals:	<u>0</u>	<u>7,500</u>	<u>0</u>	<u>0</u>	<u>0</u>
TOTALS:	<u>2,028</u>	<u>47,500</u>	<u>0</u>	<u>0</u>	<u>2,028</u>

**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY
WASTE TIRE PROCESSING FACILITY
DIMENSIONS, VOLUMES, CAPACITIES & CLOSURE COST ESTIMATE**
(March 2016 Permit Renewal)

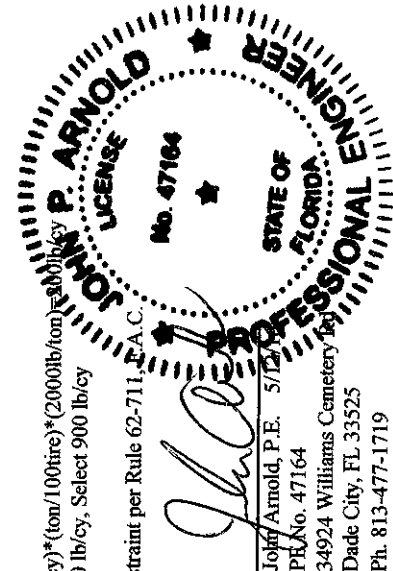
Item Description	Pad 1 Whole Tire	Pad 2 Whole Tire	Pad 3 Whole Tire	Pad 4 Processed Tire	Pad 5 Rims	Reference/Note	
BASE LENGTH, L (ft)	200	200	200	200	150	Input (Site Plan)	
BASE WIDTH, W (ft)	50	50	50	50	50	Input (Site Plan)	
BASE AREA, A1 = L * W (sf)	10,000	10,000	10,000	10,000	7,500	Calculation	
SIDE SLOPE OF PILE, S (horz.:vert)	1.5	1 FOR ALL PILE SIDE SLOPES					Input (Site Plan)
HEIGHT, H (ft)	15	15	15	12	12	Input (Site Plan)	
TOP LENGTH, b = L-(2*H*S) (ft)	155	155	155	164	114	Calculation	
TOP WIDTH, a = W-(2*H*S) (ft)	5	5	5	14	14	Calculation	
TOP AREA, A2 = a * b (sf)	775	775	775	2,296	1,596	Calculation	
VOLUME, V (cf)	75,750	75,750	75,750	71,184	51,984	See Note 1	
VOLUME, V (cy)	2,806	2,806	2,806	2,636	1,925	See Note 2	
WHOLE TIRES DENSITY (loosely packed, lb/cy)	200	200	200	n/a	n/a	See Note 3	
PROCESSED TIRE DENSITY (loosely packed, lb/cy)	n/a	n/a	n/a	900	450	See Notes 4 & 5	
STORAGE PER PAD, S = V * Density (lb)	561,111	561,111	561,111	2,372,800	866,400	Calculation	
STORAGE PER PAD, S (ton)	280.56	280.56	280.56	1,186.40	433.20	Calc: 2000lb/ton	
TOTAL TIRES WHOLE (ton) =	842	(Sum of Storage per Pad, S; Pads 1 through 3)					
TOTAL TIRES PROCESSED (ton) =	1,186	(Sum of Storage per Pad, S; Pad 4)					
TOTAL ALL TIRES (ton) =	2,028	(Sum of Storage per Pad, S; Pads 1 through 4)					
TIRE PROCESSOR CAPACITY, C (tons/hr) =	10	(Manufacturers Literature - Attached; 8-12 tons/hr reported range, assume 10 tons/hr)					
WORK DAY, WD (hr/day) =	9	(Assumed Based On Permitted 7:00am to 5:00pm Operating Hours)					
TIRE PROCESSOR CAPACITY = C*WD (tons/day) =	90						

30 DAY TIRE PROCESSING CAPACITY = 30*C*WD = 842
 60 DAY TIRE PROCESSING CAPACITY = 60*C*WD = 2,028

Rule 62-711.530(2)(a), F.A.C.; Whole Tire Storage Limit
 Rule 62-711.530(2)(a), F.A.C.; Whole and Processed Tire Storage Limit

Notes:

- Volume, V = (H/6) * (A1 + (W+a)*(L+b) + A2); Volume of Frustum of Rectangular Pyramid Equation
- 1 cy = 27 cf
- Reference: Rubber Manufacturers Association, Scrap Tire Characteristics, Section 3 & Rule 62-701.200(93), F.A.C.;
- Reference: Rubber Manufacturers Association, Scrap Tire Characteristics, Section 3: Loosely Packed Tires 2" Shred = 850-950 lb/cy, Select 900 lb/cy
- Rim density is assumed solely to provide a rough estimate of rim quantity for stockpile management purposes. Rim capacity within the stockpile area will be limited to that area regardless of the actual rim density and is not a regulatory constraint per Rule 62-711.530(2)(a), F.A.C.



John P. Arnold, P.E.
 No. 47164
 34924 Williams Cemetery Rd.
 Dade City, FL 33525
 Ph. 813-477-1719

CLOSURE ITEM	Quantity (tons)	Unit Price (\$/ton)	Total Cost
Whole and Processed Tires	2,028	\$60.00	\$121,684
Transportation	2,028	\$7.00	\$14,196
Rims	n/a	n/a	0
Residual(s)/Class I Removal	16	\$99.00	\$1,584
Site Clean Up and Restoration	\$3,750.00	LS	\$3,750
Total Cost			\$141,214

EMERGENCY RESPONSE PLAN (PREPAREDNESS MANUAL)
ENTERPRISE ROAD RECYCLING AND CLASS III DISPOSAL FACILITY

WASTE TIRE PROCESSING FACILITY
PASCO COUNTY, FLORIDA

Prepared for:

ANGELO'S AGGREGATE MATERIALS, LTD
(D/B/A ANGELO'S RECYCLED MATERIALS)
4111 ENTERPRISE ROAD
DADE CITY, FL 33525

Submitted to:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE DIVISION
13051 NORTH TELECOM PARKWAY
TEMPLE TERRACE, FL 33637

PASCO COUNTY FIRE RESCUE
4111 LAND O' LAKES BOULEVARD
LAND O' LAKES, FL 34639

Prepared by:

JOHN ARNOLD, P.E.
34924 WILLIAMS CEMETERY RD
DADE CITY, FL 33252

November 2013
(Updated May 2016—Permit Renewal)

Introduction

The Waste Tire Processing Facility (WTPF) is an approximate 10 acre location within the Enterprise Road Recycling and Class III Disposal Facility, which is authorized by the Florida Department of Environmental Protection (Department) to operate in accordance with Permit Nos. 177982-007-SO/T3 & 303741-001-WT/02. The facility is located at: **41111 Enterprise Road, Dade City, Florida, 33525** (refer to Figures 1 and 2).

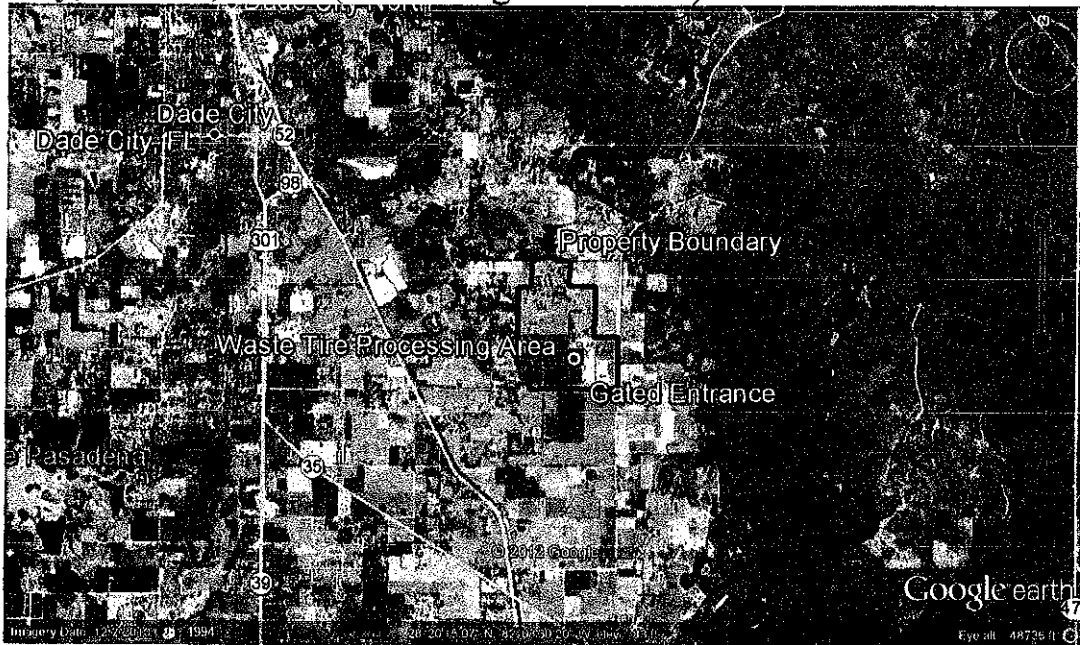


Figure 1. Site Location Map

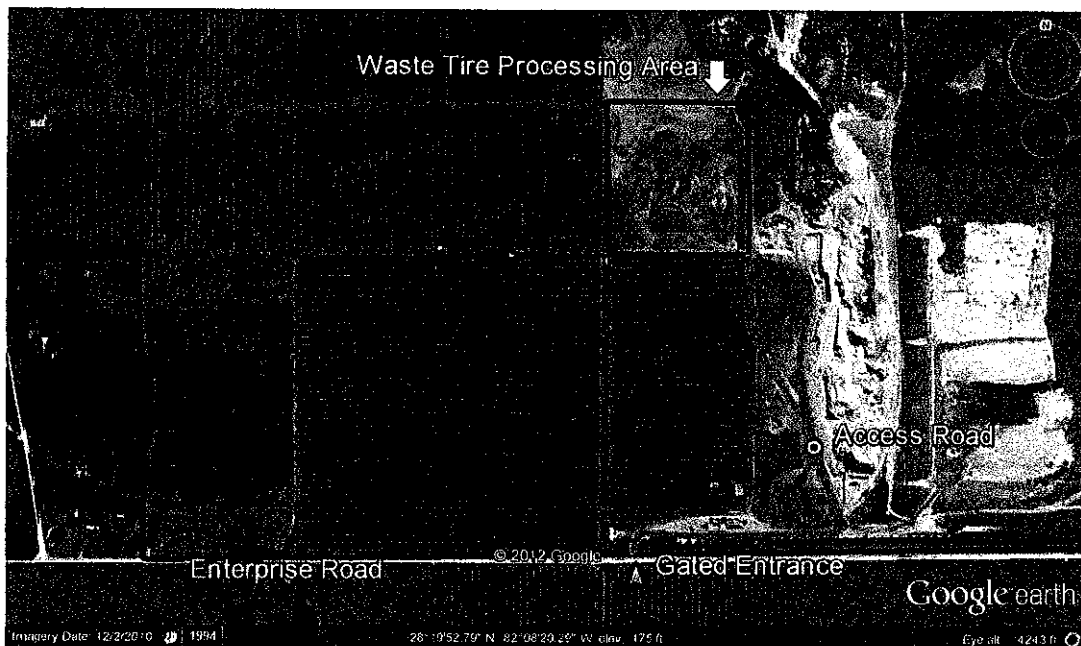


Figure 2. Waste Tire Processing Facility Site Access

1. Purpose and Scope

This purpose of this Emergency Response Plan (ERP), or Emergency Preparedness Manual is to provide information and guidance in the event of a fire at the WTPF in accordance with chapter 33.3.1 of the Florida Fire Prevention Code (FFPC) and Florida Department of Environmental Protection (FDEP) Rule 62-711, F.A.C. A copy of this plan has been provided to the Fire Marshal, Pasco County Fire and Rescue.

2. Site Description and Layout

The purpose of the WTPF is to provide a dedicated area on-site where whole, waste tires can be reduced in size (shredding) for reuse/recycling. The WTPF does not have any structures or permanent improvements. A site plan showing roads, water and soil supplies, and other information is provided in Attachment A. The WTPF (including buffers) is approximately 10 acres in size and is accessed using the gated entrance on Enterprise Road. The overall facility (complex) is approximately 541 acres in size and is secured by a six-foot chain link fence with barbed wire topping (along Enterprise and Singletary Roads), field fence, and security gate. The security gate is locked during all non-operating hours.

Any whole waste tire pile shall not be longer than 200', wider than 50', and shall not exceed a height of 15'. Each waste tire pile is surrounded by a fire lane. The processed tire storage pile is 200' long, 50' wide, and will not exceed a height of 12'. The site naturally slopes within the WTPF to the northeast corner of the site, towards an earthen berm with a 40' wide gap. In the event of a fire, the gap will be filled with soil from the dedicated stockpile to contain pyrolitic oil runoff. This stockpile is located adjacent to the gap for easy access.

The complex is free from natural water bodies. However, the temporary stormwater pond at the northeast corner of the site may contain (pond) stormwater seasonally. The temporary stormwater pond is completely contained on-site and does not discharge off-site.

On-site sources for soil (dirt) and water for fire suppression are shown on the site plan in Attachment A. The capacities of the water supply are provided in Attachment B.

The facility is open to the public Monday through Saturday, from 7am to 5pm. Vehicles entering the facility with waste tires must first proceed to the scale house where weights are recorded and records are maintained. Directions to the WTPF are posted at the scale house and with signage.

3. Emergency Preparedness

As required by the Department, the Pasco County Fire Department will inspect the facility on an annual basis. A copy of this plan will be located in the on-site scale house and at the home of the Engineer. The local fire department will receive a copy of this plan and their solicited comments will be used to update this plan on a regular basis. In the event of an emergency, key contacts are as follows:

Pasco Fire and Rescue:

4111 Land O' Lakes Blvd, #208
Land O' Lakes, FL 34639
Tel. (813) 929-2750

Local Fire Department: Fire Station 24 and Battalion Chief 4 Office
14317 4th Street, Dade City, FL 33523
Tel. (352)521-4274

Local Police Department: Pasco County Sheriff's Office
37312 Howard Avenue, Dade City, FL 33525
Tel. (352) 521-5131

Local Hospital: Pasco Regional Medical Center
13100 Fort King Road, Dade City, FL 33525
Tel. (352) 521-1100

Environmental: Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Tel. (813) 632-7600

4. Emergency Equipment

The following equipment is on-site at all times and is available to respond to emergency conditions:

- 2 Front-End Loaders (John Deere 844, CAT950)
- 2 Dozers (CAT D8, CAT D5)
- 4 Excavators (Komatsu PC1100, John Deere 450, John Deere 450, Komatsu PC300)
- 3 Articulated Off-Road Trucks (2-Volvo, 1 Terex)
- 1 Tractor (John Deere)
- 1 Water Truck (Custom with fire hose and spray nozzles)

5. Emergency Response Team and Contact Information

John Arnold, P.E., Engineer	(813) 477 - 1719	Cell
Emergency Response Coord. (primary)	(352) 339 - 1408	Home
	(352) 521 - 3607	Office (on-site)
Alfredo (Freddy) Martinez, Site Manager	(352) 303 - 5618	Cell
Emergency Response Coord. (secondary)	(352) 567 - 7676	Scale House (on-site)
	(352) 302 - 8934	Home
Scale House Attendants (On-Site)	(352) 567 - 7676	Scale House (on-site)
	(352) 567 - 9448	Fax (on-site)
On-Site Live-In Attendant	(813) 270 - 4337	Home

The Emergency Response Coordinator is responsible to ascertain the severity and magnitude of the emergency, contact the fire department, assign tasks to individual workers, implement contingency

May 2016 Permit Renewal

operations, oversee clean-up, and if necessary, evacuation of the premises. These duties fall to the secondary Emergency Response Coordinator in the event the primary coordinator is not on-site.

In an emergency situation where local authorities are notified, the senior officer of the responding agency (Pasco County Fire and Rescue) will assume command of the operations upon arriving at the site. Until the arrival of the fire department and local response agencies, on-site personnel, under the direction of the designated Emergency Response Coordinator, will be in charge of the emergency response operations. All site equipment, supplies, and equipment operators will be made available to the responding local authorities.

6. Emergency Prevention

Operations at the WTPF will be conducted in a manner that maximizes the safety and protection of the environment. The site will be posted with "No Open Flame" signs and no smoking is permitted within the complex. All customers are required to sign-in at the scale house, where safety rules, protocol, and procedures are posted. Fire prevention measures include the following elements:

- Site access control: The site is fenced and the access gate is locked at all times during non-operating hours.
- 24 Hour, on-site security: An employee resides at the site and is available to report emergency conditions, vandalism, or other events during non-business hours.
- Emergency vehicle access routes: The WTPF is surrounded by a 50' wide fire access lane.
- The WTPF is located in an area that is not adjacent to structures, vehicles, flammable materials, or other exposures.
- The WTPF shall not contain trees, plants, or vegetation (other than grass that is regularly maintained).
- The WTPF shall be kept free from sources of ignition such as cutting and welding, heating devices, and open fires.
- The following shall be maintained on-site and in working order:
 - One 2-A:10-B:C fire extinguisher
 - One 2.5 gal water extinguisher
 - One 10 ft long pike pole
 - One rigid rake
 - One round point shovel
 - One square point shovel
 - One dry chemical fire extinguisher with a minimum rating of 4-A:40-B:C shall be carried on each piece of fuel-powered equipment used to handle waste tires.
- Water and soil supplies: Water and soil are available on-site to assist in fire suppression.
- Site inspections: The WTPF is inspected daily by on-site personnel and several times a year by the FDEP and County.

7. Emergency Response

Small Fires - Waste Tire Processing Area

In the event of a small fire the Emergency Response Coordinator will be in charge of coordinating the on-site response, including the following:

- The gap in the earthen embankment at the WTPF will be blocked with dirt from the adjacent soil stockpile to contain any fire-contact water.
- Remove vehicles/equipment from the area.
- Separate unburned tires to isolate the small fire from adjacent fuel sources.
- Soil will be placed and pushed on the fire to extinguish the flames if safe conditions exist. Soil will be built up to provide buffer from the fire and then advanced (with the placement of additional soil) to cover and extinguish the fire. The on-site water truck will be used to irrigate the soil covered tires and surrounding area.
- Clean up site. Residue from the extinguished fire, including soil, will be removed for disposal at a Class I landfill.
- The Pasco County Fire Department will be notified in the event the small fire can not be managed with on-site personnel.

Large Fires – Waste Tire Processing Area

Pasco County Fire and Rescue will be contacted immediately in the event of a large fire. The Emergency Response Coordinator will coordinate activities until the arrival of the authority having jurisdiction (AHJ):

- The gap in the earthen embankment at the WTPF will be blocked with dirt from the adjacent soil stockpile to contain any fire-contact water.
- Remove vehicles/equipment from the area.
- Begin containment measures (swales and berms) to minimize spreading of the fire and to contain residue from the burning tires. Separate unburned tires using on-site equipment to remove additional fuel sources.
- Push or place soil around the perimeter of the fire on all sides and progress, as dictated by safe conditions, to smother the tires. Apply water from the on-site water truck to both reduce the flame and heat to advance soil placement.
- Provide support per the direction of the AHJ.
- Clean-up site. Residue from the extinguished fire, including soil, will be removed for disposal at a Class I landfill.

Natural Disasters

In the event of a flood, hurricane, or other natural disaster, the following operations will be performed:

- Secure equipment
- Fill petroleum powered equipment to full capacity
- Stop WTPF operations (accepting whole tires, processing stockpiled tires, and disposing of processed tire) and remove equipment in advance of the natural disaster, in the event advance notice can be projected by the Emergency Management System, or State of Florida.
- Stockpiles of all materials (Whole tires, processed tires, and rims) are to remain as-is within the WTPF. Following disaster, the Emergency Response Coordinator, will inspect the site and document conditions and determine if any actions are necessary to bring the facility into compliance with all permit conditions. Materials that have been displaced from their respective stockpiles shall be returned. In the event residue is

created by the natural disaster, the residue will be considered a Class I debris and managed in accordance with this manual.

8. Evacuation

In the event of a fire, the on-site Emergency Response Coordinator or AHJ shall have the authority to issue the evacuation of the WTPF and/or site based on site specific conditions. Upon evacuation, all non-responsive personnel will be kept a safe distance from the site and traffic on roads leading into the complex will be rerouted as necessary.

9. Notification

In the event of a fire, all personnel at the site will be notified. Should the Emergency Response Coordinator determine that outside assistance is needed or notification of local emergency response authorities is warranted, the following actions will occur:

- Dial "9-1-1" to notify local emergency response agencies
- Call local hospital (if necessary)
- Call Sheriff's Office

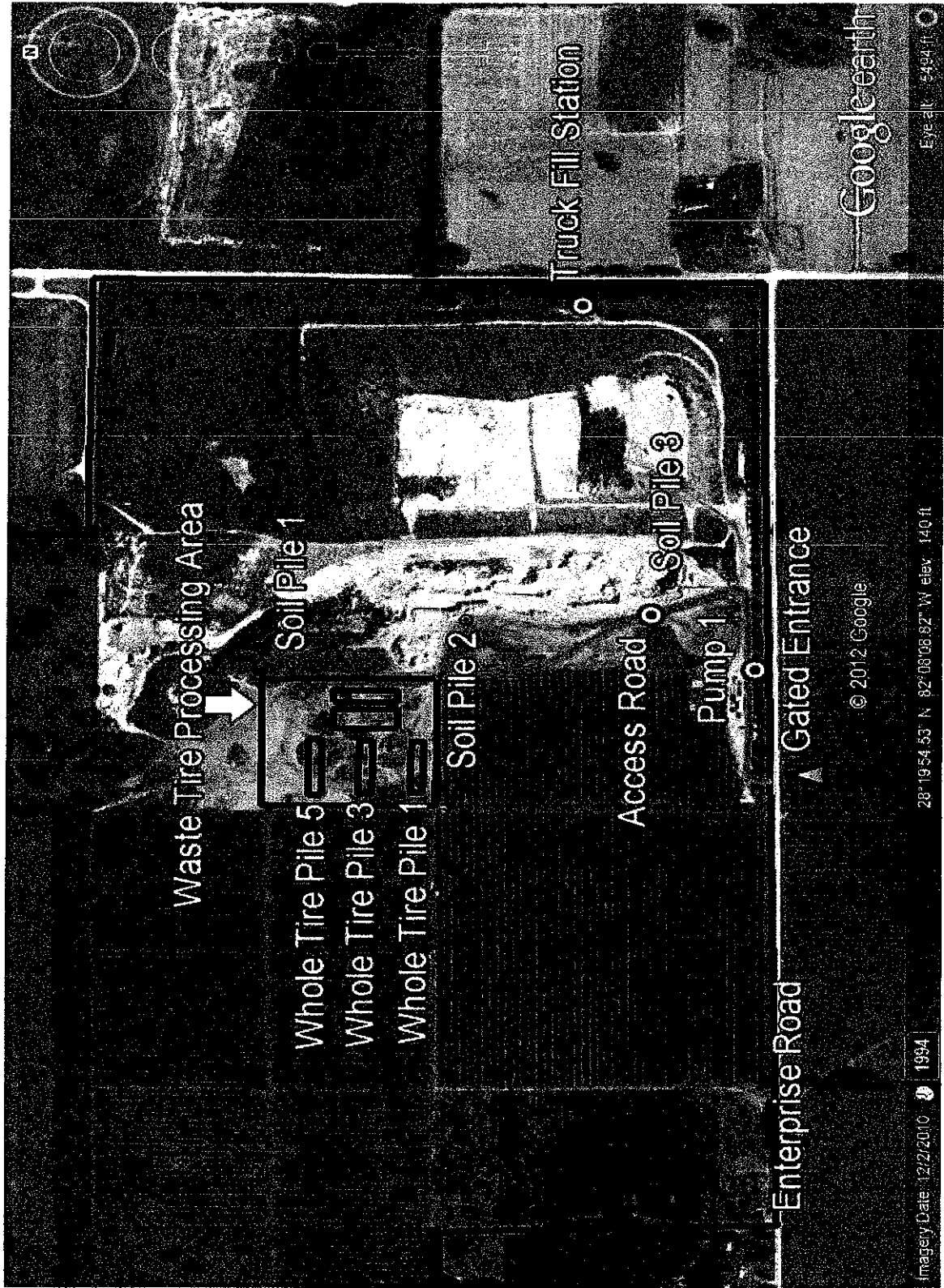
In accordance with Waste Tire Rule 62-711.540(1)(f), the operator of the site will notify the FDEP in the event of a fire or other emergency, which poses an unanticipated threat to the public health or environment. Any such notice will be provided in writing within two (2) weeks of the emergency event and will include the following:

- Time, date and nature of the emergency condition.
- Actions taken to respond to and contain the run-off and/or release resulting from the fire, including documentation that clean-up residue and other Class I debris was disposed of at a permitted Class I facility.
- 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 and/or release resulting from the fire.
- Advice regarding medical attention necessary for exposed individuals.
- Estimated quantity and disposition of recovered materials that resulted from the incident (contaminated soils).
- A critique of the emergency response plan and how it was implemented.

A fire safety survey will be conducted at least annually and the survey report will be made part of the next quarterly report, in accordance with Rule 62-711.540(d), F.A.C. The correction of deficiencies noted on the annual fire safety survey (survey) will be completed within 14 days of receiving the survey. In the event a corrective action is identified that may take longer than 14 days to correct, written notification will be provided to the FDEP within 7 days of receiving the survey, proposing a corrective-action plan. The corrective-action plan would include, at a minimum, a description of the deficiency, proposed corrective action, schedule, and notification to the FDEP that corrective action is complete.

ATTACHMENT A

SITE PLAN



SITE PLAN

ATTACHMENT B
WATER SUPPLY AND SOIL STOCKPILE INFORMATION

May 2016 Permit Renewal

WATER AND SOIL SUPPLY LOCATIONS

Pump 1

Capacity	75 gpm
Well Size	5-inch Diameter

Truck Fill

Capacity	75 gpm
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On-Site Water Truck

Capacity	5,000 gallons
Fire Hose	100 gpm

Soils

Soil stockpiles between Class III Landfill and Tire Processing Area and the "Active Borrow Pit" are shown on the site plan.