

Florida Department of Environmental Protection - Enterprise Applications

Query Coll Rpts Rfrid Exit CRA Window ORACLE

Cash Receiving Application - Collection Point Log Remittance

CL AREA SWD CRAFT006A  
Logged Total \$2,748.00

### Collection Point Log Remittance

Remittance ID 1057740 Type \* CP Received Date \* 10/24/2013 Status RECEIVED  
 System Receipt 832776 PNR [ ] Check # \* 63797 Amount \* 250.00  
 SSN/FEID [ ] Name \* ANGELO'S AGGREGATE MATERIALS LTD  
 First [ ] Middle [ ] Title [ ] Suffix [ ]  
 Address1 DBA ANGELO'S RECYCLED MATERIALS  
 Address2 855 28TH STREET SOUTH  
 City ST. PETERSBURG ST FL Zip 33712 -  
 Country [ ] Short Comments SO 303741-002 FV SK

### PAYMENT (S)

Payment ID	Distribution CL Area	Object Code/Description	Payment Amount	Reference#	Appl	Fund *	Grant *	Status
1249463	SWD	002207 WASTE TIRE-PROC	250.00	303741002	PA	SWMTF		COMPLETE

COMMIT FREQUENTLY 250.00 Payment Total

Press <TAB> to accept Collection Point or enter F&A  
Record 7/9

Florida Department of Environmental Protection - Enterprise Applications

Permits Events Payment BESTA PA Data Entry Site Facility Permitted EU ME Party Affiliation Ltd ORACLE

Permitting Application - Permit Detail and Log Permit

### SITE Permit

Site Name ENTERPRISE WASTE TIRE PROCESSING FACILITY Site # 0303741  
 County PASCO Comments [N] RPAs [N] # Cases 0

### Project

Permit # [ ] - [ ] - [ ] Project # 002 Received 10/24/2013 CRA # 416588  
 Permit Office SWD (DISTRICT) Agency Action Pending  
 Project Name ENTERPRISE CLASS III LANDFILL Desc [ ]  
 Type/Sub/Des WT / IMM MINOR MODIFICATION WACS/ME ID 87895 Pre-App. [ ]  
 Logged 10/26/2013 Issued [ ] Expires [ ] Application Action MODIFICATION  
 Fee 250.00 Fee Recd 250.00 Dele [ ] COE # [ ] Override NONE

### Related Party

Role APPLICANT Begin 10/26/2013 End [ ]  
 Name ARNOLD, JOHN Company ANGELO'S AGGREGATE MATERIALS LTD  
 Address P.O. BOX 1493  
 City LARGO State FL Zip 33779 - [ ] Country U.S.A.  
 Phone 813-477-1719 Fax [ ] Email [ ]

### Processors

Processor KIYALI\_S [Y] Active 10/26/2013 Inactive [ ] Events

Enter date application was received, MM/DD/YYYY  
Record 1/2

## Southwest District Permitting Application

New Site

Site Name:		
Site ID:	WACS ID#:	
County:		
Type/Subcode:		
Fee submitted:	( ) correct	( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Existing Site

Site ID: 303741-002		
Project Name: ENTREPRISE CLASS III LANDFILL	WACS ID#: 87895	
Type/Subcode: WT/MM	New <input checked="" type="checkbox"/> Modification <input type="checkbox"/>	Renewal <input type="checkbox"/>
Fee submitted \$ 250.00	( <input checked="" type="checkbox"/> ) correct	( ) incorrect
Total Fee Required \$ 250 Need \$ _____ Refund \$ _____		

Applicant Information

Name: ARNOLD, JOHN		
Role: APPLICANT		
Company: ANGELO'S AGGREGATE MATERIALS LTD		
Address: PO BOX 1493		
City: LARGO	State: FL	Zip Code: 33779
Phone: 813-477-1719	Email:	

Fee verified by: Serge Kiyali

Application Assigned To: Serge Kiyali Date: 10/25/13

# Angelo's Recycled Materials

855 28<sup>th</sup> Street South  
St. Petersburg, FL 33712



www.angelosrm.com

October 22, 2013

Mr. Steve Morgan  
Florida Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

Dept. of Environmental Protection

Re: Enterprise Class III Landfill and Recycling Facility  
WTPF Permit No. 303741-001-WT/02  
Pasco County, WACS No., 87895

OCT 22 2013

Southwest District

Dear Mr. Morgan:

This correspondence and the enclosed materials are provided to the Department in support of our request to modify the layout of waste tire processing facility (WTPF) at our Enterprise Road Recycling and Disposal Facility located in Pasco County, Florida. We propose to reduce the number of waste tire storage piles from 5 to 3 and increase their length by 100 feet. The processing area has also been reduced in size. The proposed changes would decrease the total quantity of tires on-site from 2,066 tons to 2,028 tons. We do not propose to reduce the financial assurance commitment based on this negligible change.

Enclosed, please find the following information in support of this request:

- Permit Application Modification Review Fee (Check 53797 in the amount of \$250.00)
- Drawing C-1 (revised)
- Waste Tire Processing Area Capacity Estimates (revised)
- Emergency Preparedness Manual (revised)

I trust that the enclosed information satisfies the information requested by the Department. In the course of your review should you have any questions, or require any additional information, please accept our invitation to meet with you at the District office, or make ourselves available by phone to immediately provide you with the necessary clarification or information.

Sincerely,

A handwritten signature in black ink, appearing to read "John Arnold".

John Arnold, P.E.

enclosures

xc: Dominic Iafrate, Angelos Recycled Materials

ATTACHMENT 1

C-1 SITE PLAN DRAWING

ATTACHMENT 2

WASTE TIRE PROCESSING AREA CAPACITY ESTIMATES  
(Revision 02; October 2013)

Dept. of Environmental Protection  
OCT 24 2013  
Southwest District

**ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY  
WASTE TIRE PROCESSING FACILITY  
DIMENSIONS, VOLUMES & CAPACITIES  
(Revision 02; October 2013)**

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 5)  
TOTAL TIRES PROCESSED (ton) = 1,186 (Sum of Storage per Pad, S; Pad 6)  
TOTAL ALL TIRES (ton) = 2,028 (Sum of Storage per Pad, S; Pads 1 through 6)

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 =	2,700	>=	842	Rule 62-711.530(2)(a), F.A.C.; Whole Tire Storage Limit
60 DAY TIRE PROCESSING CAPACITY = 60*C*WD =	5,400	>=	2,028	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
- References: Rubber Manufacturers Association, Scrap Tire Characteristics, Section 3 & Rule 62-701.200(93), F.A.C.: (10tire/cy)\*(ton/100tire)\*(2000lb/ton)=200lb/cy
- 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, F.A.C.

ATTACHMENT 3

EMERGENCY PREPAREDNESS MANUAL  
ENTERPRISE CLASS III LANDFILL AND RECYCLING FACILITY  
WASTE TIRE PROCESSING FACILITY  
(Revision 02; October 2013)

**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)  
41111 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**

**OCTOBER 2013**



## 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).

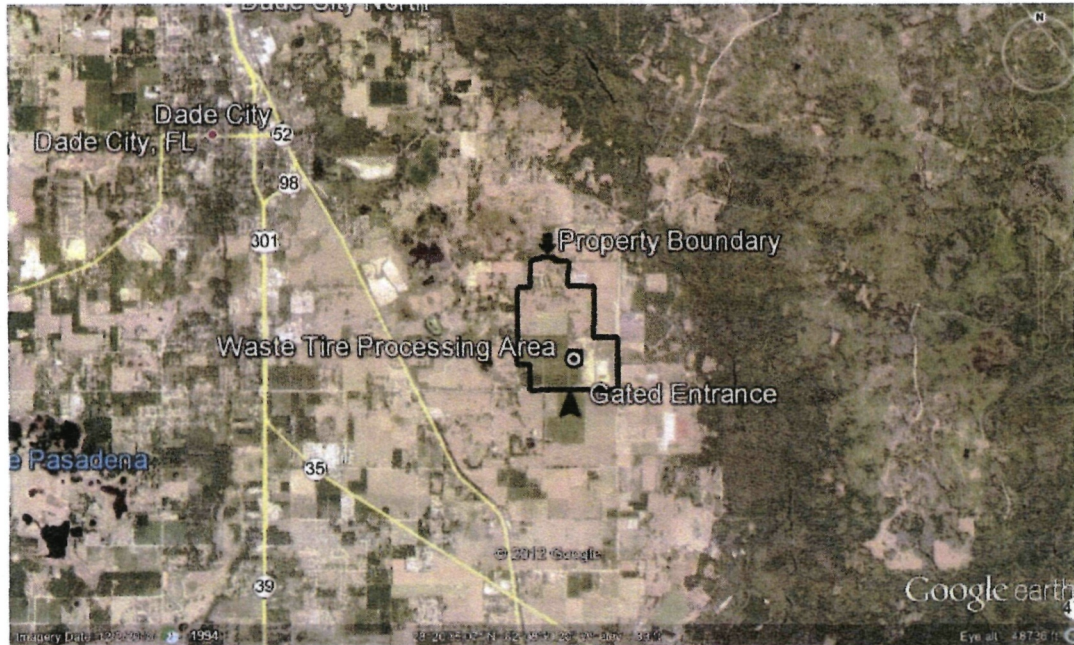


Figure 1. Site Location Map



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 100' long, 50' wide, and will not exceed a height of 15'. 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 pyrolytic 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
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Local Fire Department:	Fire Station 24 and Battalion Chief 4 Office 14317 4th Street, Dade City, FL 33523 Tel. (352)521-4274
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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) 302 - 8934	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	(352) 302 - 8934	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 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 routs: 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:

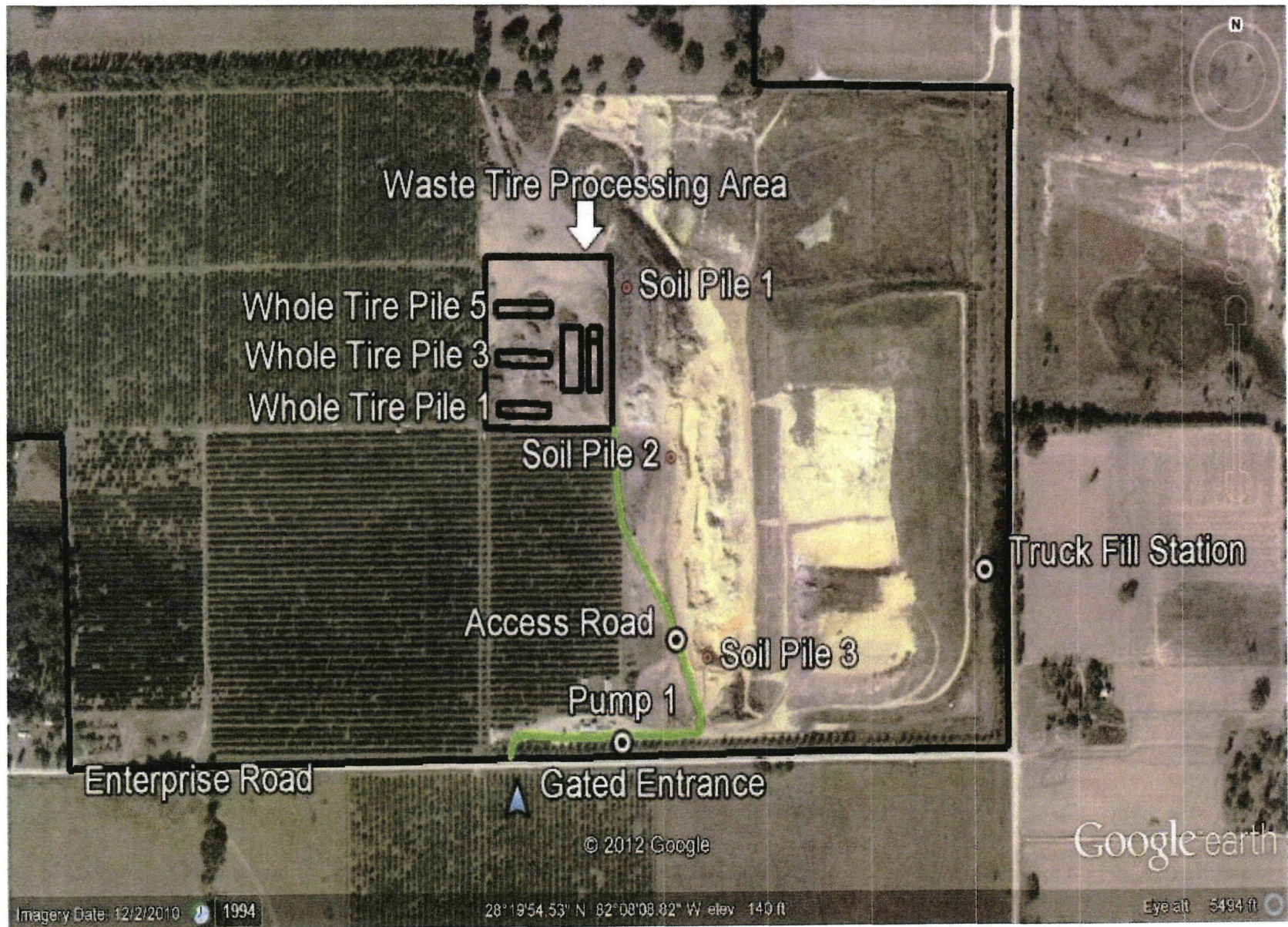
- Time, date and nature of the emergency condition.
- Actions taken to respond to and contain the run-off and/or release resulting from the fire, including documentation that clean-up residue and other Class I debris was disposed of at a permitted Class I facility.
- An assessment of actual or potential 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**

## **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.