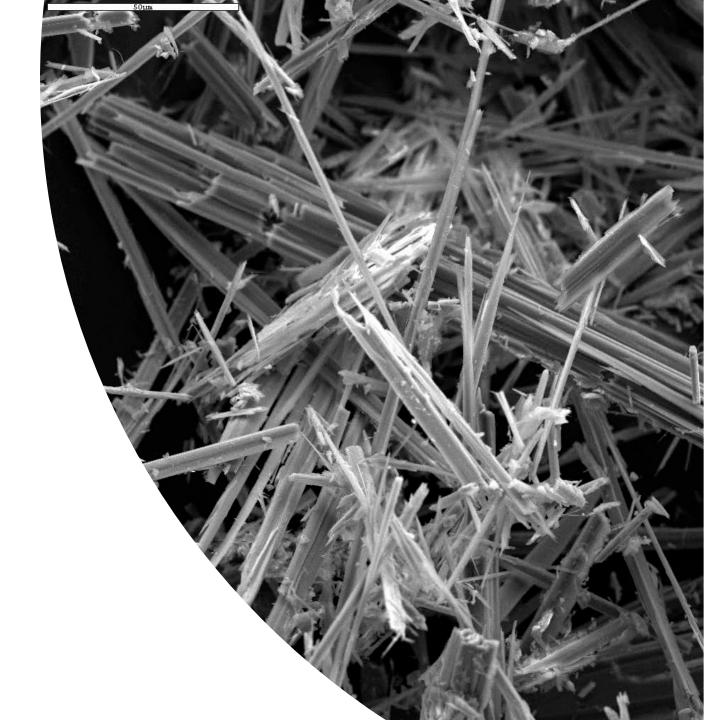


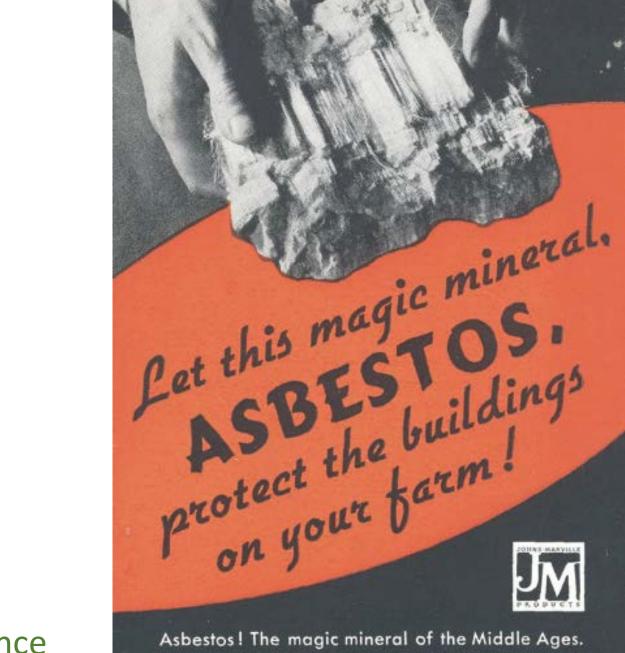
Asbestos Renovation and Demolition Projects





Presentation Points

- Asbestos Overview
- Demolition and Renovation
 Requirements
- Proper Handling and Disposal
- Training Requirements
- Notifications
- Common Areas of Noncompliance

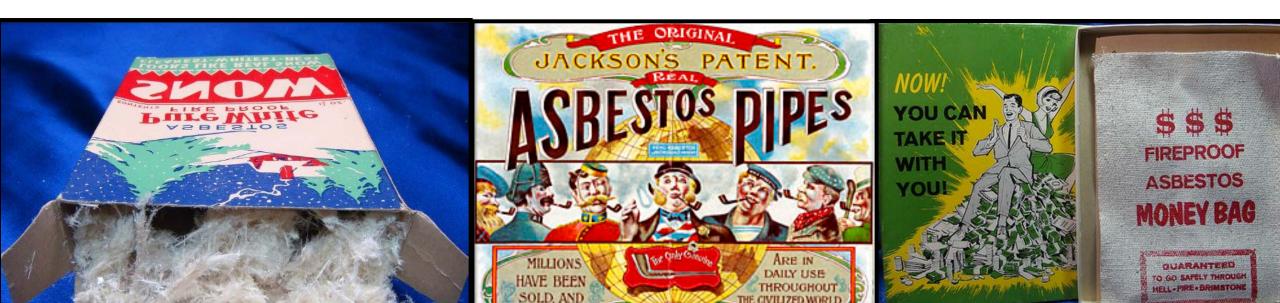


Asbestos! The magic mineral of the Middle Ages. Today, still a "magic" mineral; fireproof, rot-proof, and practically indestructible. When combined with



Asbestos

• Asbestos is a naturally occurring mineral that began being mined in the 19th century for its desirable physical properties such as sound absorption, fire-resistance, light weight, and durability.





Ashestos Regulation

1971

Asbestos identified as a Hazardous
Air Pollutant (HAP)

1973

EPA promulgated the Asbestos NESHAP

1982

EPA delegates primary authority for implementation and enforcement of Asbestos NESHAP to State of Florida



Asbestos NESHAP

40 CFR Part 61, Subpart M



Sets standards for:

- Demolition and renovation of facilities
- Waste disposal for demolition and renovation, including collection, processing, packaging, and transportation
- Active waste disposal sites that receive asbestos



Asbestos Removal Program

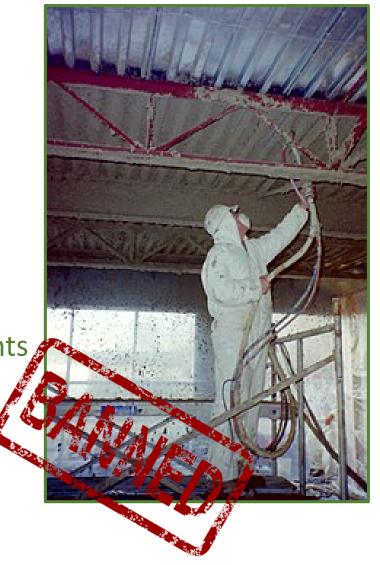
- Florida Department of Environmental Protection (DEP) administers an asbestos removal program under Chapter 62-257 Florida Administrative Code (F.A.C.)
- Program's intent is to prevent the release of asbestos fibers to the outside air during demolition or renovation activities.
 - ✓ Establishes fees based on materials
 - ✓ Standardized form
 - ✓ Online form submittal





Ashestos Ban

- Not fully banned in the United States.
- Only the following:
 - 1. Flooring felt
 - 2. Commercial and specialty paper
 - 3. Rollboard
 - 4. Corrugated paper
 - 5. Spray-applied ACM
 - 6. Pipe and block insulation on facility components (boilers)
- New uses are prohibited.
- Importation!





Common Asbestos Containing Materials

- Spray-applied insulation
- Blown-in insulation
- Fireproofing materials
- HVAC duct insulation
- Boiler insulation
- Roofing shingles
- Roofing felt
- Fire doors

- Cement pipes
- Cement wallboard
- Cement siding
- Asphalt floor tile
- Vinyl floor tile
- Vinyl sheet flooring
- Flooring backing
- Concrete

- Caulking/putties
- Adhesives
- Wallboard
- Joint compounds
- Textured paints/coatings
- Construction mastics
- Decorative plaster
- Ceiling tiles/lay-in panels

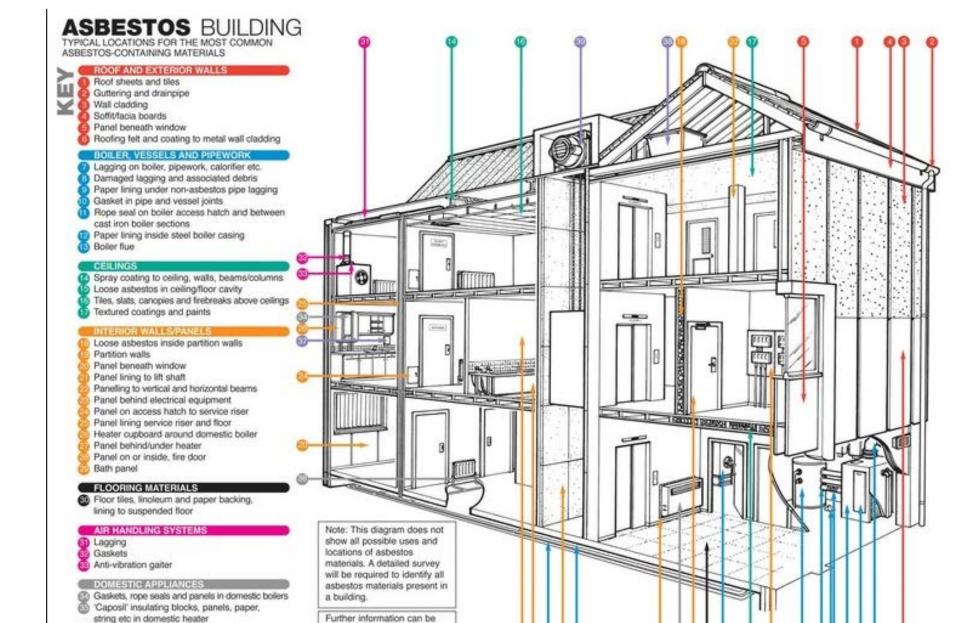


String seals on radiators

OTHER

Fire blanket

Water tank Brake/clutch lining



found in the HSE publication MDHS100 Surveying and

sampling asbestos-containing

material



Key Terms

Fa	cil	itv
Ia	OII	iity

Facility Component

Residential

Demolition

Renovation

Asbestos-Containing Material (ACM)

Regulated ACM (RACM)

Threshold Limits







Facility

Institutional, commercial, public, industrial, or residential structure*, installation, or building

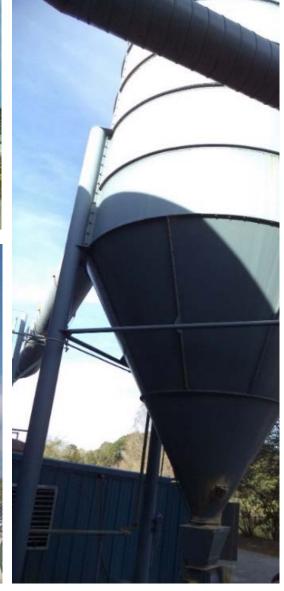


Facility Component

Any part of a facility, including equipment.









Residential

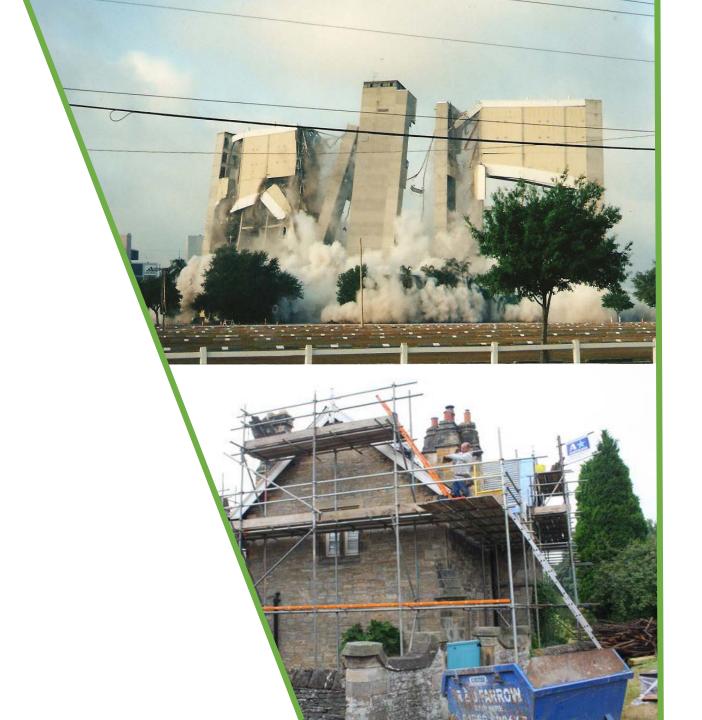
Asbestos NESHAP *does not* regulate single family, residential homes, provided:

- They have <u>four</u> or fewer dwellings. (i.e. townhome)
- 2) Are not being demolished/renovated as part of a larger plan of development. (i.e. road expansion)
- 3) Structure was not previously subject to the asbestos NESHAP. (i.e. store converted to a home)

Condominiums/apartments that have <u>more than four units</u> or <u>multiple homes being demolished as a large scale</u> <u>project</u> are defined as a facility, and therefore subject to the Asbestos NESHAP.



Demolition VS.
Renovation





Demolition

- Wrecking, or taking out, of any loadsupporting structural member of a facility together with any related handling operations, or the intentional burning of any facility.
 - Examples:
 - Practice fire burns
 - Sinking a ship
 - Building explosion or implosion
 - Moving a building from its foundation







Renovation

- Alteration in any way of a facility, or of one or more facility components.
 - Examples:
 - Floor tile removal
 - Popcorn ceiling removal
 - Pipe replacement/removal
 - Removal of siding
 - Roof replacement





Asbestos Containing Material

8

Regulated Asbestos Containing Material



Asbestos Containing Materials (ACM): Any material which contains more than 1% asbestos as determined by Polarized Light Microscopy (PLM)

<u>Friable</u>: ACM that, when dry, <u>can</u> be crumbled, pulverized, or reduced to powder by hand pressure

Non-friable: ACM that, when dry, <u>cannot</u> be crumbled, pulverized, or reduced to powder by hand pressure

<u>Category I</u>: Asbestos containing packings, gaskets, resilient floor covering, and asphalt roofing products (pliable materials)

<u>Category II</u>: Any other ACM, excluding Category I non-friable ACM (asphalt shingles, transite panels/siding)



Regulated Asbestos Containing Materials (RACM)



Friable ACM

Category I Non-friable ACM that will become friable due to demolition or renovation operations, such as sanding, grinding, cutting, or abrading

<u>Category II Non-friable ACM</u> that has a high probability of becoming or has become: crumbled, pulverized, or reduced to powder in the course of demolition or renovation operations



Threshold Limits

- Threshold limits of RACM:
 - 260 linear ft. on pipes.
 - 160 square ft. on other facility components.
 - 35 cubic ft. of facility components where length or area could not be measured previously.



- 1. Does your facility have asbestos?
- 2. What type?
- 3. How much?
 - Threshold amounts?





Thorough Inspection

- To determine which requirements apply to demolitions or renovations, the facility must be thoroughly inspected for the presence of asbestos PRIOR to commencement of reno/demo activities.
 - ✓ All suspect materials need to be sampled
 - ✓ It does not matter how old the structure is
 - ✓ Inspection can be limited to affected areas





Category I & II

- Applicability of the Asbestos NESHAP for Category I and II ACM depends on:
 - 1)Condition of the material at the time of demolition or renovation,
 - 2) Nature of the operation to which the material will be subjected,
 - 3)Amount of ACM involved.

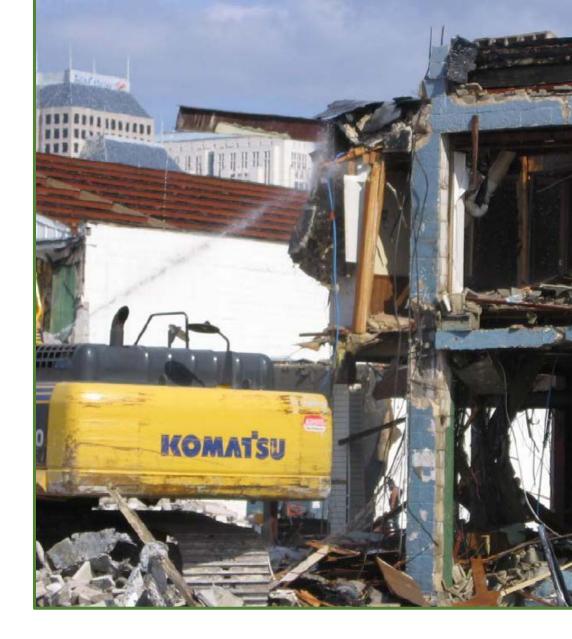






Demolition Requirements

- Thorough asbestos inspection.
- Notify at least 10 working days prior to the start of the demolition, even if no asbestos is detected.
- Remove regulated asbestos-containing materials above threshold limits prior to demolition.



Renovation Requirements

- Thorough asbestos inspection (only affected areas).
- Notify at least 10
 working days prior to
 the start of renovation
 activities that would
 disturb regulated
 asbestos. (i.e. threshold
 amounts of RACM)





Proper Handling and Waste Disposal.

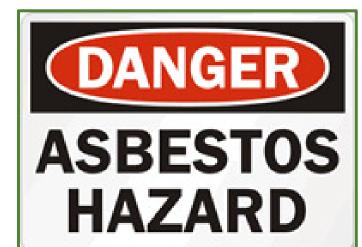
- Adequately wet asbestos-containing waste material.
- Seal all asbestos-containing waste material in leak-tight containers or wrapping.
- Label the containers, or wrapped materials, with OSHA warning labels.
- All asbestos-containing waste shall be deposited as soon as practical by the waste generator at an approved waste disposal site.





Proper Handling and Waste Disposal

- If transporting off-site, label materials with:
 - ✓ Name of the waste generator.
 - ✓ Location where waste was generated.
- Maintain shipment records.
 - ✓ Provide a copy to the disposal site.
- Mark vehicles used to transport asbestos-containing waste materials during the loading and unloading of waste so signs are visible.





Proper Waste Disposal Site

- Asbestos-containing waste materials may be accepted for disposal at a permitted Class I or III landfill.
- Each active waste disposal site that receives asbestos-containing waste material from a source covered under the NESHAP, shall meet the requirements of 40 CFR Part 61.154.
- Make prior arrangements with waste disposal site.





- Asbestos NESHAP requires that at least one trained representative is on-site where regulated asbestos-containing material is stripped, removed, or otherwise disturbed at any regulated facility.
 - Evidence of the training must be posted and made available for inspection at the site.
 - The trained individual is required to receive refresher training.
 - Information about the training is available from the Florida Department of Business and Professional Regulation (DBPR).



Common Areas of Noncompliance

- Demolition/renovation without notification.
- No thorough asbestos inspection.
- Late, inaccurate, or incomplete notifications.
- Notifications not revised when start date or amount of ACM changes.
- Improper Best Management Practices (BMPs).
- Uncertified supervisor or untrained workers.
- Improper disposal methods.





Online

https://floridadep.gov/air/permitting-compliance/content/asbestos

Or send a hardcopy!

https://floridadep.gov/sites/default/files/dep62 257 900 %281%29 0.pdf





Florida Department of

Environmental Protection

Division of Air Resource Management

DEP Form 62-257.900(1) Effective 10-12-08 Page 1 of 2

Type of Notice:

Courtesy? Original?

Type of Project:

Ordered?
Planned?
Emergency?

NOTICE OF DEMOLITION OR ASBESTOS RENOVATION

TYPE OF NOTICE (CHECK ONE ONLY): ORIGINA TYPE OF PROJECT (CHECK ONE ONLY): DEMOLIT IF DEMOLITION, IS IT AN ORDERED DEMOLITION? IF RENOVATION: IS IT AN EMERGENCY RENOVATION OPERATION? IS IT A PLANNED RENOVATION OPERATION?	TION RENOVATION YES NO YES NO				
. Facility Name					
Address					
CityStateZip	County				
Site	Consultant Inspecting Site				
Building Size(Square Feet) # of Floors	Building Age in Years				
Prior Use: School/College/University Residence Small Business Other					
Present Use: School/College/University Residence Small Business Other					
II. Facility Owner					
What qualifies as a business? Residence?	Who did the asbestos survey?				



What is a small business?

Per 288.703(1), F.S.:

• "Small business" means an independently owned and operated business concern that employs 200 or fewer permanent full-time employees and that, together with its affiliates, has a net worth of not more than \$5 million or any firm based in this state which has a Small Business Administration 8(a) certification. As applicable to sole proprietorships, the \$5 million net worth requirement shall include both personal and business investments

In order to qualify as a small business you can either submit the Small Business Administration Certification or prove that you meet the other criteria.



Who is the contractor?

Don't forget!

Notice must be 10 working days before the project start date!

	C	ity		State		Zip			
	II	II.	Contractor's Name		Phone ()		Email Address		
	∕ [¶] A	ddr	ess						
	Ć	ity		State	Zip				
			e contractor exempt from licensure u		_	□ NO			
	ľ	٧.	Scheduled Dates: (Notice must be po	ostmarked 10 working days b	efore the project	start date)			
	A	sbe	estos Removal (mm/dd/yy) Start:	Finish: Demo	o/Renovation (mn	n/dd/yy) Start:	Finish:		
	v u		Description of planned demolition or and description of affected facility co						ies to b
			Procedures to be Used (Check All	That Apply):					
			Strip and Removal	Glove Bag	Bulldozer		Wrecking Ba	II	
/			☐ Wet Method	☐ Dry Method*	Explode		Burn Down		
			OTHER						
	*MUST OBTAIN PRIOR DEP APPROVAL BEFORE USING A DRY METHOD								
VI. Procedures for Unexpected RACM:									
	VII. Asbestos Waste Transporter: Name Phone (
	Address								
	4						Zi	p	
			Waste Disposal Site: Name			Class			
	Address								
	1					p			

Who is taking the ACM and where is it going?



RACM or ACM?

List Cat I and Cat II nonfriable material under ACM

Amount of RACM or ACM*		X. Fee Invoice Will Be Sent to Address in Block Below: (Print or Type)			
RACM ACM		Name:			
	square feet surfacing material	Address:			
	linear feet pipe	City:			
	cubic feet of RACM off facility components	State/Zip:			
	square feet cementitious material	*Identify and describe surfacing material and other m	naterials as applicable:		
	square feet resilient flooring				
I certify that the above information is correct and that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours.					
		(5.4.)			
(Print Name of	f Owner/Operator)	(Date)			
(Signature of Owner/Operator)		(Date)			



Frequently Asked Questions

ACM is non-friable; therefore, NESHAP does not apply, right?

If amount of ACM is over the threshold amount, it may need to be removed. Must consider whether renovation or demolition activities will cause the ACM to become friable (Drywall, popcorn).

Are there any exceptions to the 10-day notification?

An ordered demolition or emergency renovation is the only exception to the 10-day notice. A notification is still required—no later than the following working day.

What if RACM is mixed with non-asbestos containing materials, due to the inability to remove the RACM (such as for safety reasons)?

All debris is considered contaminated and must be kept adequately wet and disposed of as asbestos waste.



Additional Information

FDEP Asbestos Page:

https://floridadep.gov/air/permitting-compliance/content/asbestos

USEPA Asbestos Page:

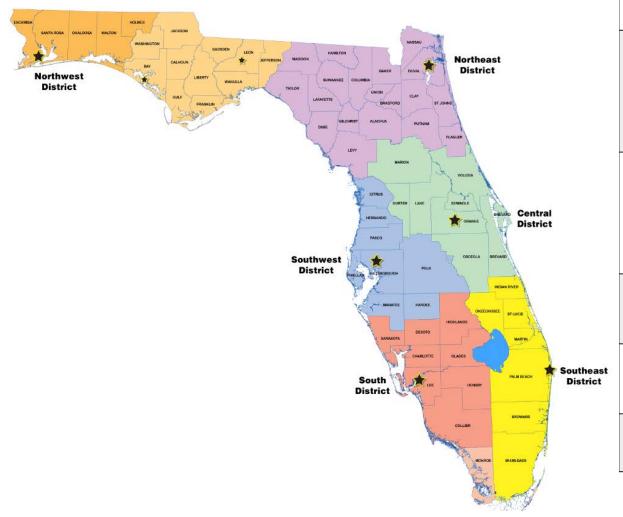
https://www.epa.gov/asbestos

Applicability Determination Index Search:

https://cfpub.epa.gov/adi/



Asbestos Contacts



District Air Compliance Contacts	Jurisdiction (Names in italics have local programs)	Main Phone Number
<u>Central</u>	Brevard, Lake, Marion, <i>Orange</i> , Osceola, Seminole, Sumter and Volusia counties	407-897-4100
<u>Northeast</u>	Alachua, Baker, Bradford, Clay, Columbia, Dixie, *Duval*, Flagler, Gilchrist, Hamilton, Lafayette, Levy, Madison, Nassau, Putnam, St. Johns, Suwannee, Taylor and Union counties	904-256-1700
<u>Northwest</u>	Bay, Calhoun, Escambia, Franklin, Gadsden, Gulf, Holmes, Jackson, Jefferson, Leon, Liberty, Okaloosa, Santa Rosa, Wakulla, Walton and Washington counties	850-595-8300
<u>South</u>	Charlotte, Collier, DeSoto, Glades, Hendry, Highlands, Lee, Monroe and <i>Sarasota</i> counties	239-344-5600
<u>Southeast</u>	Broward , Miami-Dade , Martin, Indian River, Okeechobee, Palm Beach and St. Lucie counties	561-681-6600
<u>Southwest</u>	Citrus, Hardee, Hernando, <i>Hillsborough</i> , Manatee, Pasco, <i>Pinellas</i> and Polk counties	813-470-5700



South District Contacts

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Renee.Kwiat@FloridaDEP.gov

Brierra Mack

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Brierra.Mack@FloridaDEP.gov



