

Tampa Bay Chapter Newsletter – Summer 2008



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Other Contributors

Catherine Hartley (Golder Associates Inc.)



Message from the Chair

Chair: Debra Price, Ph.D., EPC- Hillsborough County

A&WMA Members!

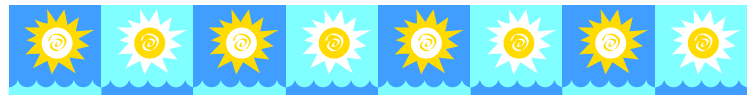


Greetings all Air & Waste Management Association members. Since this is the first newsletter of the new Tampa Bay Chapter board members, I thought I would begin by sharing the

wonderful news: our Past Chair Liz Foeller and her husband Scott welcomed a 7 pound 6 ounce baby boy into the world on Friday May 9th at 4:32 pm. Both mom and son are doing fine.

If any members have news of this caliber, please let us know so everyone can share in your joy. Other ideas are promotions, weddings, graduations, etc. In a time when we are hearing daily of how the economy is failing and people are losing their homes, it is nice to hear some uplifting news.

There is one more monthly A&WMA Tampa Chapter meeting before we take a 2-month summer off. With summer vacations in the works, there were July or August monthly meetings and Tony Grasso (Program Chair) will be sending around a program notice for September’s meeting early in the month as a reminder.



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Finally, your new Tampa Bay Chapter's Board members are:

Debra Price, Ph.D. – Chair
Joshua Ellwein, PE – Vice-Chair
Tony Grasso – Program Chair
Dave Turley, PE – Treasurer
Bruce Nocita, Ph.D. – Secretary
Jeff Stewart - Education Chair
Amy Stuart, Ph.D. – USF Student Chapter Advisor
Catherine Hartley – Assistant to the Board
Liz Foeller, PE – Past Chair

Air & Waste Management Association Tampa Bay Chapter 2007-2008 Board Members

Chair: Debra Price, Ph.D., EPC-Hillsborough County,
E-mail: price@epchc.org

Vice Chair: Joshua Ellwein, P.E., Tampa Electric Company
E-mail: jellwein@tecoenergy.com

Secretary: Bruce Nocita, Ph. D, P.G., QORE Property Sciences
E-mail: bnocita@qore.net

Treasurer: Dave Turley, P.E., Mosaic Fertilizer, LLC
E-mail: dave.turley@mosaicco.com

Program Chair: Tony Grasso, P.G., Golder Construction Services,
E-mail: agrosso@golder.com

Past Chair: Elizabeth Foeller, P.E., , Mosaic Fertilizer, LLC
E-mail: Elizabeth.foeller@mosaicco.com

Education Chair: Jeff Stewart, Mosaic Fertilizer, LLC
E-mail: Jeff.stewart@mosaicco.com

Membership Chair: vacant

Legal Representative: Dan Fernandez, Attorney at Law
Fernandez Law Offices

USF Student Chapter Faculty Advisor: Amy Stuart,
Assistant Professor, USF

USF Student Chapter Chair: Cecilia Claudio, USF
Graduate Student

Assistant to the Board: Catherine Hartley, Golder
Associates Inc. E-mail: chartley@golder.com

Treasurer's Report

Prepared By: Dave Turley, P.E.,
Mosaic Fertilizer, LLC

Our aggregate balance through as of 6/2/2008 is \$3160.05.



Calling All Members!

Past-Chair: Liz Foeller, P.E., Mosaic Fertilizer, LLC



Would you like to maximize the benefit of A&MWA Membership? Become a Tampa Bay Chapter Board member! It's a great opportunity to shape the Chapter with your ideas; energize the Chapter with your experiences; network with industry, regulatory agencies, and consulting companies in the area; develop your reputation as a community leader. Typically, a Board position will only require 1 hour per week to make a great difference in our community. Further, you earn Professional Development Hour (PDH) credits for holding your position. For more information on available Board positions, please contact Liz Foeller at Elizabeth.foeller@mosaicco.com or Deb Price at priced@epchc.org.



Headline Story

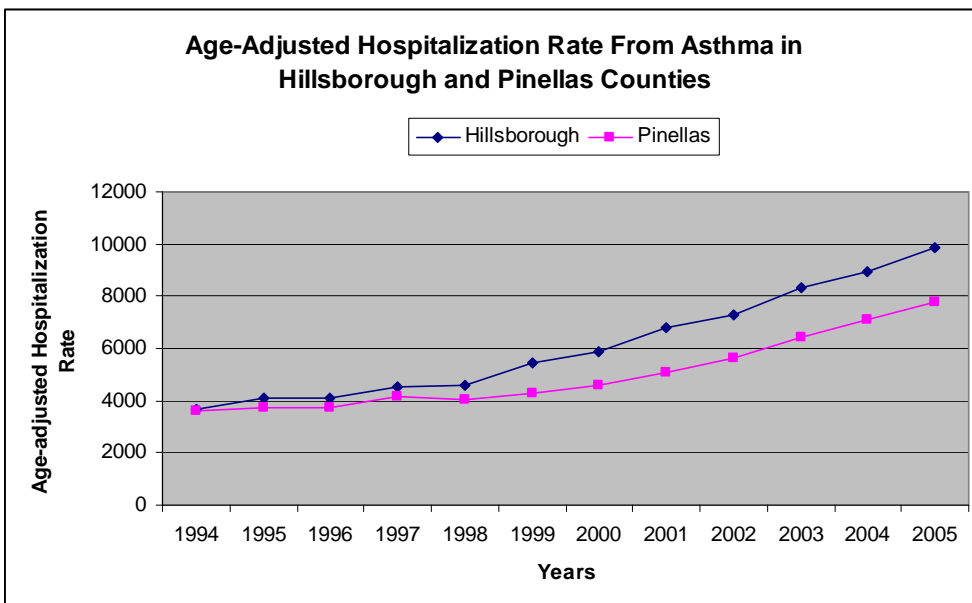
Prepared By: Deb Price, Ph. D., The Environmental Protection Commission of Hillsborough County

May-Asthma Awareness Month

Did you know that asthma is the number one cause of children missing school? In fact, over 17 million Americans are affected by asthma each year, and the numbers are on the rise. Since 1994, there has been an increase in hospitalization rates in both Pinellas and Hillsborough Counties.

In the Tampa Bay area, the increase in hospitalization rates can be attributed to indoor air, where children spend most of their days. Typical indoor air contains:

- Second Hand Smoke
- Dust and Dust Mites
- Pet Dander
- Molds
- Pests
- Fumes, Odors and Sprays



Asthma may be triggered by any or all of these irritants. There is a new local organization that was formed in 2007 to help families recognize asthma triggers in the home- the Tampa Bay Asthma Coalition. **TBAC** is a group of dedicated professionals that have joined together to provide the community with FREE resources for those affected with asthma. Resources may be in the form of:

Despite the extent of the disease and the trend in hospitalization rates, public awareness of common asthma triggers and ways to manage asthma are limited.



In 1999, the World Health Organization and the National Institute of Health established World Asthma Day and Asthma Awareness Month. Organizations around the world coordinate

activities throughout Asthma Awareness Month to increase public awareness of the asthma epidemic. To encourage organizations to coordinate events during the month, the Environmental Protection Agency (EPA) has dedicated the month of May as “Asthma Awareness Month” and developed an Event Planning Kit, available on EPA’s web site at www.epa.gov/asthma/awm.html.


- Outreach to your organization,
- Speaking at a lunch for teachers and parents,
- Sending asthma awareness brochures to students,
- One-on-one education on how-to-use inhalers properly,
- Participation at your local fair,
- Walk through of your home for asthma triggers and many more professional services that would normally cost hundreds of dollars.

In order to simplify the process of where to go for information about asthma, TBAC was formed. Funded through a grant from the U.S. Environmental Protection Agency, coalition members include the University of South Florida, the Environmental Protection Commission of Hillsborough County, the American Lung Association, the Hillsborough County Health Department, Suncoast Pediatric Asthma Coalition, St. Joseph’s Children’s Hospital, Take Charge Lifestyle Management, Steps to a Healthier Hillsborough and the Hillsborough Community College.

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If you or a person you know has been diagnosed with asthma, please contact the Tampa Bay Asthma Coalition at

813.627.2600, ext. 1008 or tbac@epchc.org. One call may be all you need to start breathing healthier.




Is Your Child Unable to Enjoy the Simple Pleasures of Life?

DID YOU KNOW?
Asthma is the number one cause of children missing school and pediatric hospitalizations in the U.S.

WE'RE HERE TO HELP:
Please contact the Tampa Bay Asthma Coalition for **FREE** information and resources to help those affected with asthma.

Your local resource for healthier lungs

TAMPA BAY ASTHMA COALITION
813-627-2600 ext. 1008 email: tbac@epchc.org



Environmental Tip

Provided By: **Bruce Nocita, Ph.D., P.G,**
QORE Property Sciences



Florida is fortunate to have abundant water resources, and also to have Water Management Districts to balance water needs and protect natural systems. You may not know that the

Southwest Florida Water Management District (SWFWMD) offers a variety of useful tips and brochures. You can view water conservation information at their website, and also order free brochures on the following topics:

- Guide to Florida Friendly Landscaping
- Florida Friendly Handbook and Plant List
- Fertilizer Facts
- Recreation Guide

SWFWMD also offers educational materials and teacher resources. You can visit SWFWMD at: www.swfwmd.state.fl.us

A&WMA --- UPCOMING EVENTS

The Air & Waste Management Association offers a wide selection of events throughout the year. To view the full range of scheduled events go to http://www.awma.org/events/events_calendar.html?sort=1&typeid=2

Specialty Conferences & Courses

These conferences feature original technical presentations on specific topics relating to air quality, waste management and environmental management. Specialty conferences and associated courses offer single or multiple track programs which promote interaction between agency regulators, industry representatives and representatives of the regulated community.

Annual Conference and Exhibition (ACE)

Held every year since 1907 in locations throughout North America, the Annual Conference & Exhibition attracts thousands of environmental professionals from around the world to its outstanding technical program, exhibits of the latest products and services, and networking and professional development opportunities.

Audio + Web Conferences

Keep current on hot topics and breaking information in the environmental arena. These conferences allow you to interact with the experts on the topic at hand from the convenience of your home or office.

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Workshops

Workshops provide in-depth, practical information on how to comply with federal and state regulatory requirements. They also provide information on emerging environmental issues and new technologies available to facilitate compliance.

E-Learning Courses

The Air & Waste Management Association (A&WMA) is committed to providing education in various formats to meet

your needs. A&WMA's E-Learning Center will enable you to engage in active learning from the convenience of your home or office while eliminating the costs associated with traditional face-to-face courses. Most online courses will allow participants to update their knowledge base, whereas some will serve as refreshers. Qualified instructors will guide you through the coursework as you work at your own pace through the readings, problem sets, and discussions.

**“Save the Date” - Florida Section Annual Meeting:
Florida Section A&WMA - 45th Annual Conference & Exhibition (ACE)
Sunday - Tuesday, October 12 - 14, 2008
Plantation Inn and Golf Resort, Crystal River, Florida**

Date	Event Type	Event Title	Event Location
Jun 24 - 27, 2008	Conference	<u>101st Annual Conference and Exhibition</u>	Portland, Oregon, USA
Jul 14 - Aug 24, 2008	E-Course	<u>AIR-284E: Boilers, Process Heaters, and Air Quality Requirements</u>	online
Aug 6 - 8, 2008	Section & Chapter	<u>Southern Section Annual Meeting and Technical Conference</u>	Biloxi, MS
Aug 25 - Sep 21, 2008	E-Course	<u>GENAQ-100E: Environmental Practices Review (EPR) Specialty Course: Air Quality</u>	online
Aug 25 - 28, 2008	Conference	<u>Mega Symposium</u>	Baltimore, MD
Aug 25 - Sep 21, 2008	E-Course	<u>GEN-100E: Environmental Practices Review (EPR)</u>	online
Aug 25 - Sep 21, 2008	E-Course	<u>GEN-100E: Environmental Practices Review (EPR)</u>	online
Aug 25 - Sep 21, 2008	E-Course	<u>GENAQ-100E: Environmental Practices Review (EPR) Specialty Course: Air Quality</u>	online
Sep 8 - Oct 5, 2008	E-Course	<u>AIR-311E: NOx Control for Industrial and Utility Applications</u>	online
Sep 8 - Oct 19, 2008	E-Course	<u>AIR-284E: Boilers, Process Heaters, and Air Quality Requirements</u>	online
Oct 6 - Nov 2, 2008	E-Course	<u>GEN-100E: Environmental Practices Review (EPR)</u>	online
Oct 6 - Nov 2, 2008	E-Course	<u>GENAQ-100E: Environmental Practices Review (EPR) Specialty Course: Air Quality</u>	online
Oct 27 - Dec 7, 2008	E-Course	<u>AIR-284E: Boilers, Process Heaters, and Air Quality Requirements</u>	online
Oct 27 - Dec 7, 2008	E-Course	<u>EMGM-191E: Internal Environmental Auditor</u>	online



Industry Corner

Prepared By: Liz Foeller, Mosaic Fertilizer, LLC

Continuous Improvement -- A Better Way of Developing New Products



Article is from the June 1, 2008 issue of *Industry Week*

Written by: Ralph Keller

June 1, 2008 -- Many companies pursuing lean transformation and continuous improvement are focusing on the customer fulfillment operations to improve quality and delivery while reducing costs. Organizations are working to reduce lead time, improve quality, and make their manufacturing and distribution operations more efficient in an effort to cut costs. While these improvements are important, they are not sufficient in today's globally competitive manufacturing world. In many companies today, direct labor is a single-digit percentage of the cost of goods sold (COGS), with purchased materials and overhead burden making up over 90% of their COGS. Even with these cost breakdowns, many continuous improvement efforts still focus on trying to eliminate waste in the manufacturing process to use labor more efficiently to reduce labor content. These efforts will produce some small incremental improvements in the COGS, but a much better opportunity exists early in the new product design cycle.

It is estimated by some product development experts that 80% of the final cost of a new product is determined in the first 20% of the design cycle where the product concept and initial design philosophy are chosen. If you involve your manufacturing organization and your suppliers at these very early stages of the cycle and form a concurrent engineering design team, you have the opportunity to design products for manufacturing and assembly, both at your suppliers and in your own operations as well as using their expertise in your designs. Using such design-for-manufacturing techniques as reduced parts count, substitution of molded plastics or pressed and sintered powdered metal parts for machined metal and poka-yoke designs to eliminate assembly errors, your new products can be developed with a radically lower final cost of goods sold.

People from your manufacturing operations are a great resource to use with your product design teams to offer

suggestions on how designs can be manufactured and how costs can be reduced by making products easier to assemble, with less chance for quality issues and their resultant scrap and rework costs. Manufacturing engineers can plan how to produce a new product while it's still in design when options for processing methods and equipment are still available. Operators can evaluate their ability to assemble new products and can offer suggestions on visibility and accessibility of components before designs are frozen.

Manufacturing personnel who are familiar with existing products can suggest part substitutions to increase commonality of parts rather than having all unique components. A unique fastener that is out of stock will shut down a product operation just as surely as a custom casting or machined component, but common fasteners can often be designed in from the start.

Your suppliers, working with your product development teams, can suggest design alternatives that often reduce a product's material cost by up to 50%. Rather than just giving them a component specification to quote, use their expertise to suggest alternate materials, design options, different fabrication techniques, and tolerances that really matter to reduce your product's component costs. Too often, suppliers are not trusted and not involved until the design is complete and your organization has lost the opportunity to exploit the supplier's expertise to minimize component costs by being involved with the design team from the very beginning.

There are a number of organizations utilizing concurrent engineering design teams today to incorporate the knowledge and unique experience of suppliers, manufacturing engineers, quality professionals, production and distribution personnel, accounting/finance folks and marketing/sales people to bring increased knowledge and expertise to the team to get better designs at a lower product cost. These teams are part of the design process from the very beginning, at the ideation phase, to develop new products that are better quality and lower cost than those designed exclusively behind the curtain of new-product engineering. Don't forget to involve your suppliers

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and operations organization in your new product-development process at the very start. You'll be glad you did.

Ralph Keller is president of the Association for Manufacturing Excellence, an organization dedicated to cultivating understanding,

analysis and exchange of productivity methods and their successful application in the pursuit of excellence. He has been an operations practitioner for the past 35 years.



FLORIDA SECTION A&WMA

2008 Annual Conference

October 12 – 14, 2008

Plantation Inn & Golf Resort Crystal River

For conference information go to:

<http://www.flawma.com/>



Did you know? The A&WMA website has an online library! You can find it at: <http://secure.awma.org/OnlineLibrary/>

Here you can search, purchase, or download a range of environmental materials offered by A&WMA, including:



Technical books and CD-ROMs



Articles published in the peer-reviewed *Journal of the Air & Waste Management Association*



Articles published in *EM*, the monthly magazine for environmental managers, and



Papers from our Annual Conference and specialty conferences.

There are currently more than 3,000 items in the Library, with more added every month. Bookmark this page and come back often to see what new titles and articles have been added!



Regulatory Corner

Submitted By: Anthony Grasso, P.G., Golder Construction Services

Gopher Tortoise Permitting and Relocation Guidelines Update

from the *Permitting Guidelines* dated April 2008 and presents these permits with the associated fees:

With permission, article is excerpted from: Darla J. Miller, BS, MBA, Vice President, MSCW Inc., (407) 422-3330; presented in the *Florida Engineering Society Journal*, May 2008

The Florida Fish and Wildlife Conservation Commission (FWC) voted to “uplist” the gopher tortoise (*Gopherus polyphemus*) to a “threatened” species. In order for this “uplisting” to become effective, the FWC was required to draft a new management plan.

The overall goal of the management plan is to restore and maintain secure, viable populations of gopher tortoises throughout the species’ current range in Florida. Objectives under this goal include:

1. Improving gopher tortoise carrying capacity on lands with existing or potential gopher tortoise habitat;
2. Increasing the amount of protected gopher tortoise habitat;
3. Restocking gopher tortoises to protected and managed areas; and
4. Decreasing gopher tortoise mortality on lands proposed for development.

The Gopher Tortoise Management Plan was completed and approved by the FWC Commissioners in September 2007, and the final action to “uplist” the gopher tortoise was then approved at the November 2007 FWC Commission meeting. The revised *Gopher Tortoise Permitting Guidelines* were adopted in April 2008. This management plan can be found at: myfwc.com/permits/Protected-Wildlife/GopherTortoisePermitGuidelines.pdf.

It is important that everyone who deals with tortoises read and understand the new permitting rules. There are a number of significant changes that affect the processing of permits and who can relocate tortoises. That being said, the following are some highlights regarding the *Gopher Tortoise Permitting Guidelines*:

- There are eight types of permits that will be issued regarding gopher tortoises. The following table is

PERMIT TYPE	MITIGATION CONTRIBUTION
Authorized Agent	\$500 (one-time contribution)
Recipient Site	\$500 per site (one-time contribution)
10 or Fewer Burrows <i>Tortoises are relocated on-site or off-site</i>	\$200
Conservation <i>>10 burrows relocated to protected area</i>	\$200 for first group of 10 burrows \$300 each additional tortoise
Conservation <i>>10 burrows relocated to unprotected area</i>	\$200 for first group of 10 burrows \$3,000 each additional tortoise
Temporary Exclusion	\$100-300 per tortoise <i>To be determined during permit review process</i>
Emergency Take	\$4,000 per tortoise
Settlement <i>plus any costs stipulated in the agreement or as ordered by court</i>	\$4,000 per tortoise

Note: Eggs and juvenile tortoises (less than 130 mm carapace length) are not included when calculating the mitigation contribution, but must be relocated.

- **All gopher tortoises must be relocated. An “Incidental Take” will only be issued under a Settlement Permit.**
- There are specific land management activities which do not require a gopher tortoise relocation permit. These are detailed in the *Gopher Tortoise Permitting Guidelines* under Section II. These determine if a permit is required.
- There is now a requirement that anyone who will be relocating tortoises (or overseeing the relocation of

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tortoises) must obtain an *Authorized Agent Permit*. Under the new rules, there are specific requirements and actions for the agent which allow the FWC to suspend, revoke or not renew their permit. Without this permit you cannot relocate tortoises.

- Census requirements have changed slightly under the new permitting guidelines. The FWC still requires that the census be less than 90 days old and that at least 15% of the site be surveyed for the application. However they now require that all burrow locations

be mapped using a Geographical Positioning System. A complete (100%) survey must still be conducted during the relocation activities.

There is specific language in the April 2008 permitting guidelines that addresses the capture, handling, and transport of relocated tortoises. There are many changes in this section that need to be understood.



Consultant's Corner

Prepared By: **Josh Ellwein, P.E., Tampa Electric Company**

Seven Actions that Could Land You in Jail

Did you know that one can go to jail for hazardous waste criminal actions? Penalties for both individuals and companies can be quite severe, often times resulting in very high fines, and it is not uncommon to see small businesses close down after a criminal conviction. The federal Resource Conservation and Recovery Act (RCRA) identify seven criminal acts that carry a penalty of up to \$50,000 per day and up to 5 years in jail. These acts include “knowingly” committing the following:

1. Transporting waste to a non-permitted facility.
2. Treating, storing, or disposing of waste without a permit or in violation of a material condition of a permit or interim-status standard.
3. Omitting important information from, or making a false statement in, a label, manifest, report, permit, or interim-status standard.
4. Generating, storing, treating, or disposing of waste without complying with RCRA's recordkeeping and reporting requirements.
5. Transporting waste without a manifest
6. Exporting a waste without the consent of the receiving country.
7. Transporting, treating, storing, disposing of, or exporting any hazardous waste in such a way that another person is placed in imminent danger of death or serious bodily injury. This act carries a possible penalty of up to \$250,000 or 15 years in prison for an individual, or a \$1 million fine for a corporation.



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Job Opportunities



Seminole Electric Cooperative, Inc., has an opening at our Seminole Generating Station in Palatka, Florida for a Manager of Plant Environmental & Safety.

This position manages, directs, and supervises Seminole Electric Generating Station's environmental, training, health, and safety functions to ensure effective and comprehensive programs, in compliance with all Federal and State regulations & agreements with the EPA, FDEP, and OSHA. Requirements are a Bachelor's Degree or the equivalent in Natural Science or another discipline that provides a solid foundation for the duties required. A bachelor's degree and a minimum of eight years of responsible experience in a fossil-fuel power plant or large industrial process plant is required. An associate's degree and a minimum of two years experience can be substituted for one year of college education. Experience should include involvement with interpreting, monitoring, & providing guidance in meeting the requirements of Federal & State Environmental, Safety, & Health regulations and guidelines.

Seminole Electric Cooperative, Inc., provides excellent salary, benefits, retirement, and relocation expenses. To be considered for this position, please email your resume to:

rmills@seminole-electric.com

Or mail your resume to: Richard A. Mills
Plant HR Administrator
890 North Highway 17
Palatka, Florida 32177

Seminole Electric Cooperative, Inc. is an Equal Employment Opportunity Employer and a Drug Free Workplace.

Principal Environmental Specialist

Location: Juno Beach, FL (Headquarters), Houston, TX, and Western U.S.

Position Description: Provide management of the environmental permitting aspects of new project development, construction and acquisitions. Projects include, but are not limited to, wind, solar, natural gas and transmission lines.

Position Requirements:

Bachelors of Science
Expert in Environmental Permitting
Expert in Environmental Impact Assessments
Expert in Environmental Agency Negotiations
Expert in Environmental Laws & Regulations –
Requires five or more years experience in related environmental activities

Only candidates meeting the posted requirements should apply. Please send a resume in MS Word or Adobe Acrobat to rebecca_mcbride@fpl.com.

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Principal Environmental Specialist

Location: Ontario, Canada

Position Description: Provide management of the siting and environmental permitting aspects of new project development, construction and acquisitions. Projects include, but are not limited to, wind, solar, and transmission lines.

Position Requirements:

Bachelors of Science

Expert in Environmental Permitting

Expert in Environmental Impact Assessments

Expert in Environmental Agency Negotiations

Expert in Environmental Laws & Regulations –

Requires five or more years experience in related environmental activities

Only candidates meeting the posted requirements should apply. Please send a resume in MS Word or Adobe Acrobat to rebecca_mcbride@fpl.com.

Environmental Specialist



KB Environmental Sciences Inc. (KBE) is looking for an Environmental Specialist. Education and experience in air quality and noise are highly desirable along with strong computer and written communication skills.

Located in Tampa/St. Petersburg (FL) and Seattle (WA), KBE specializes in transportation-related environmental assessments for airports, roadways, military bases, etc. Please send resume, references and contact information to Mike Kenney at mkenney@KBEnv.com or call 727.578.5152. (Dated March 17, 2008)