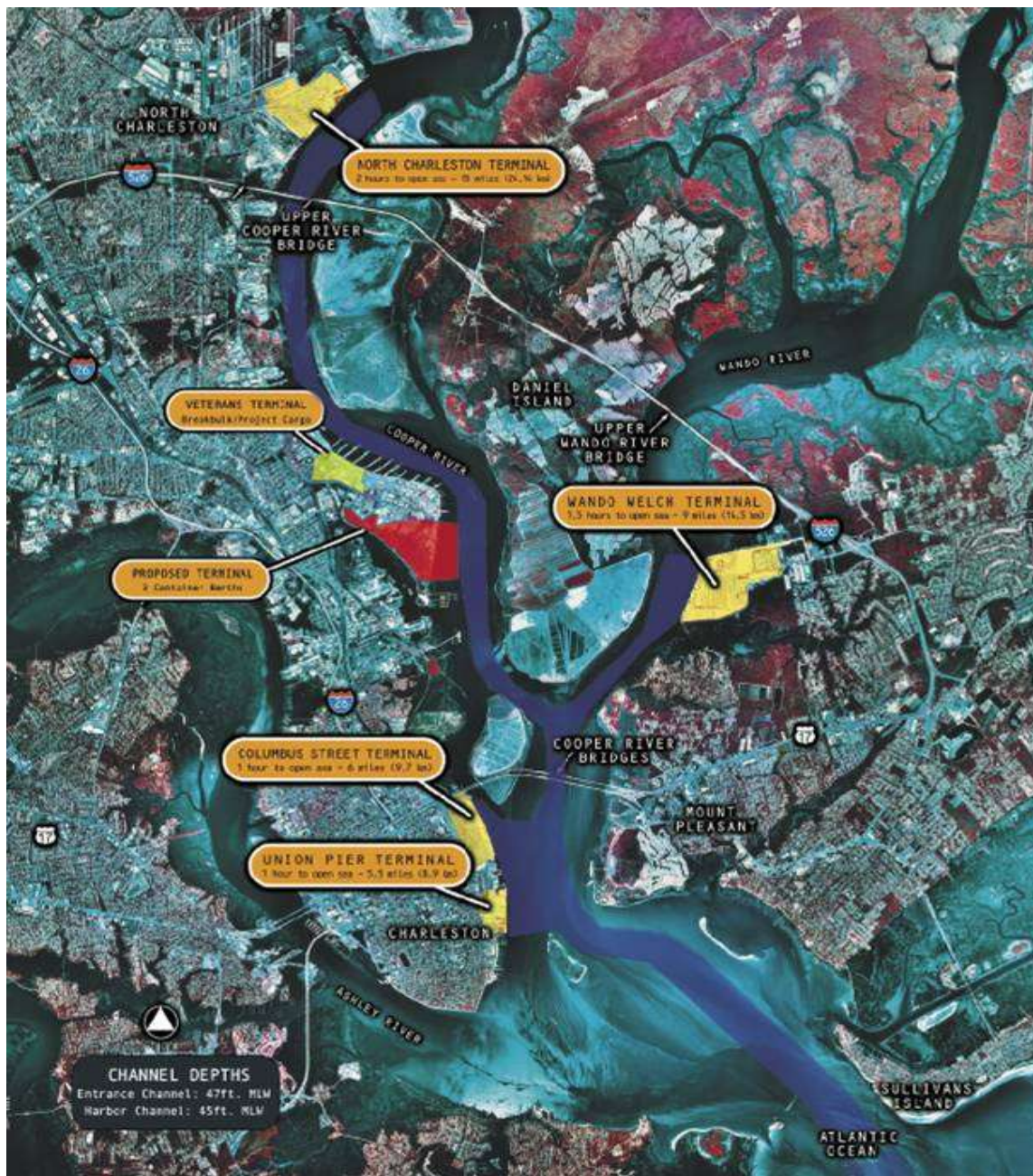
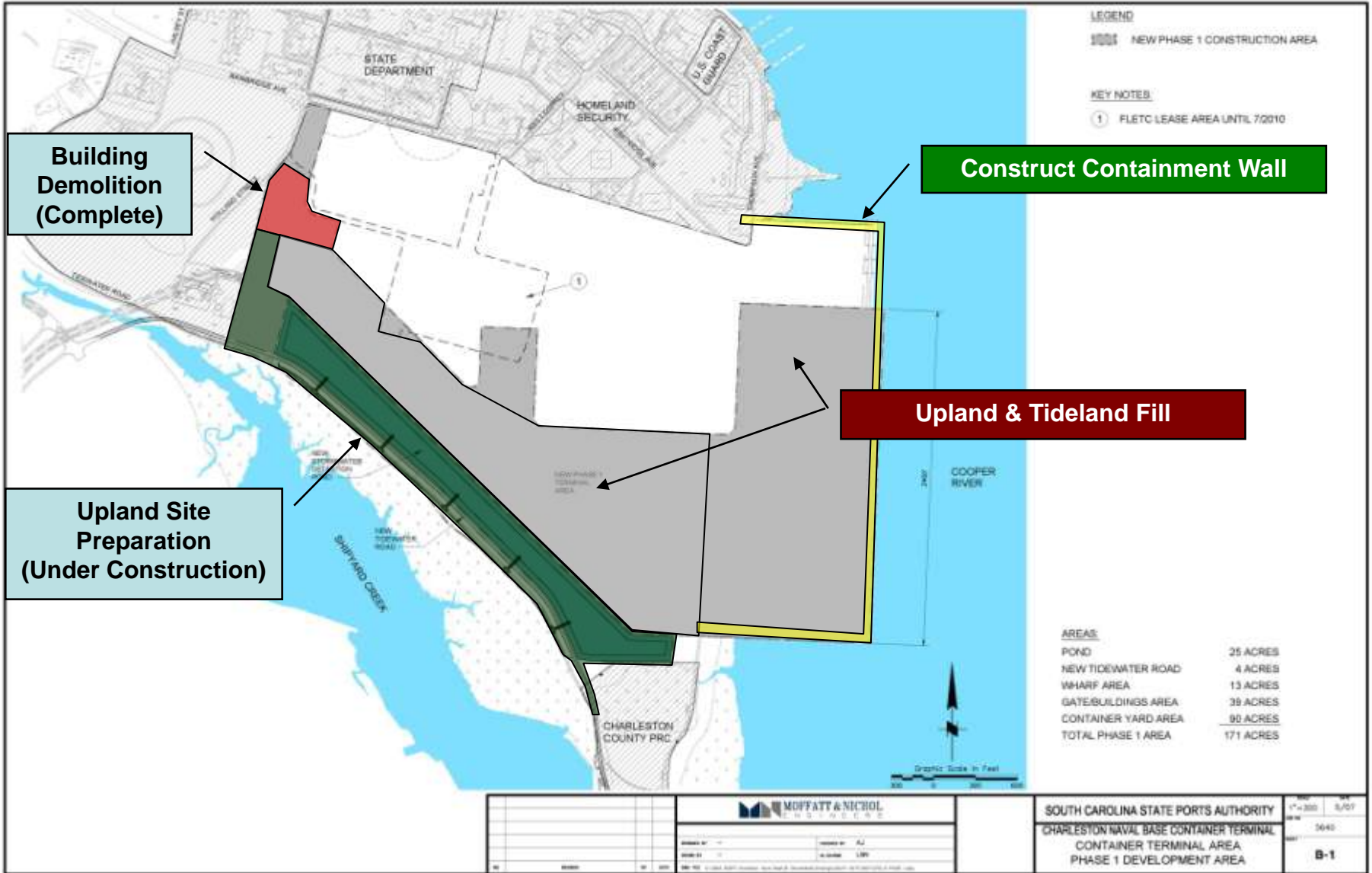




May 5th, 2010









The Pledge for Growth: Responsible Growth



Growth can mean great things for our community, including quality jobs along with a cleaner, healthier environment.

Traditional Mitigation Measures

Tidal Marsh Restoration:

22 acres on Drum Island, more than doubling the current ecosystem



Morris Island:

126-acre tract preservation of historic Charleston site

Cooper River Initiative:

15,000 acres in the East & West Branches

Traditional Mitigation Measures



Oyster Reefs:

More than 5 miles of reefs,
erosion reduction

Right Whales:

5-year support to track the
endangered Northern right whale



Community Mitigation

Long-Term Community Partnership: More than \$4 million for community enhancement, working with LAMC and North Charleston leadership



Initiatives:

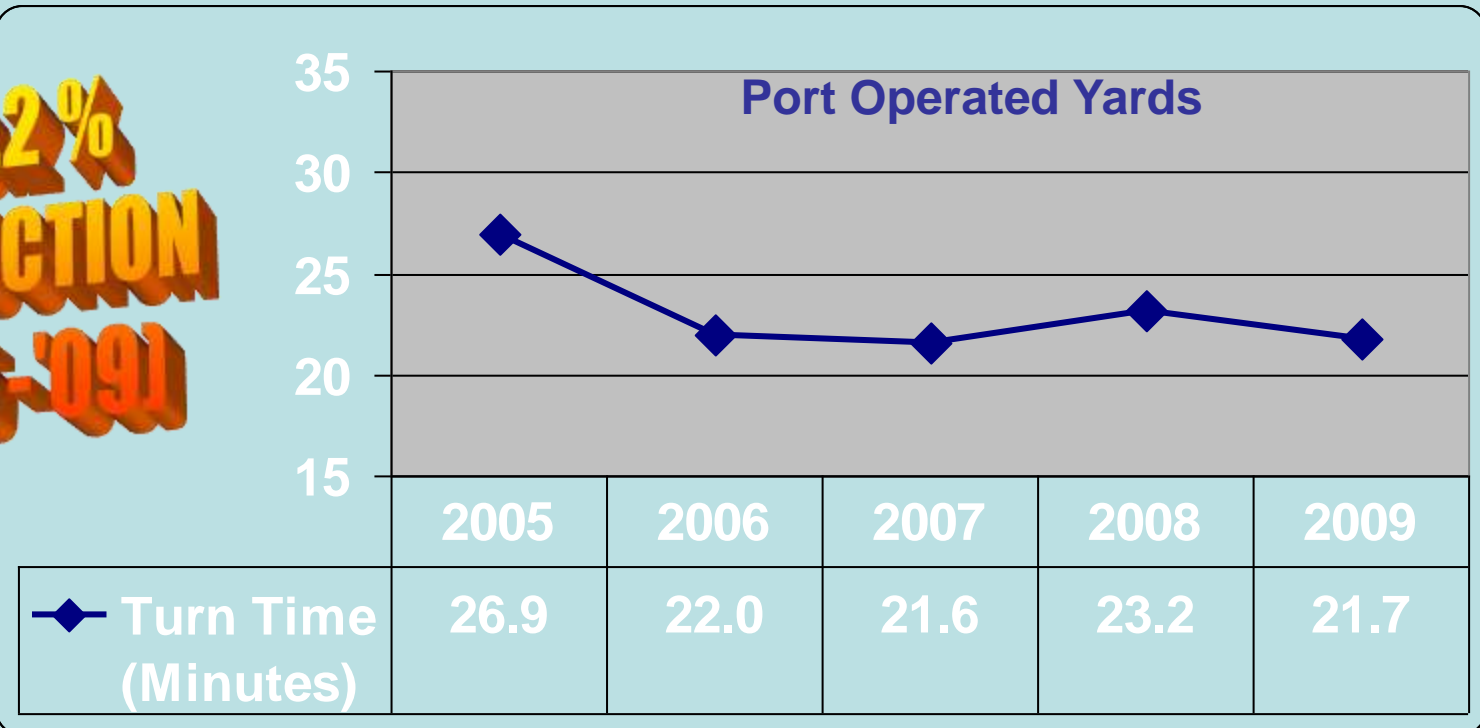
- Housing trust
- Educational resources
- Community centers
- Job training and career center
- Environmental receptors
- Community master plan

Air Initiatives

- ❏ In March 2007, the SPA signed an agreement with the South Carolina Department of Health and Environmental Control (DHEC)
 - ❏ Created a partnership to reduce port-related air impacts
 - ❏ Voluntary, proactive agreement is separate from the mitigation activities specifically tied to the new terminal

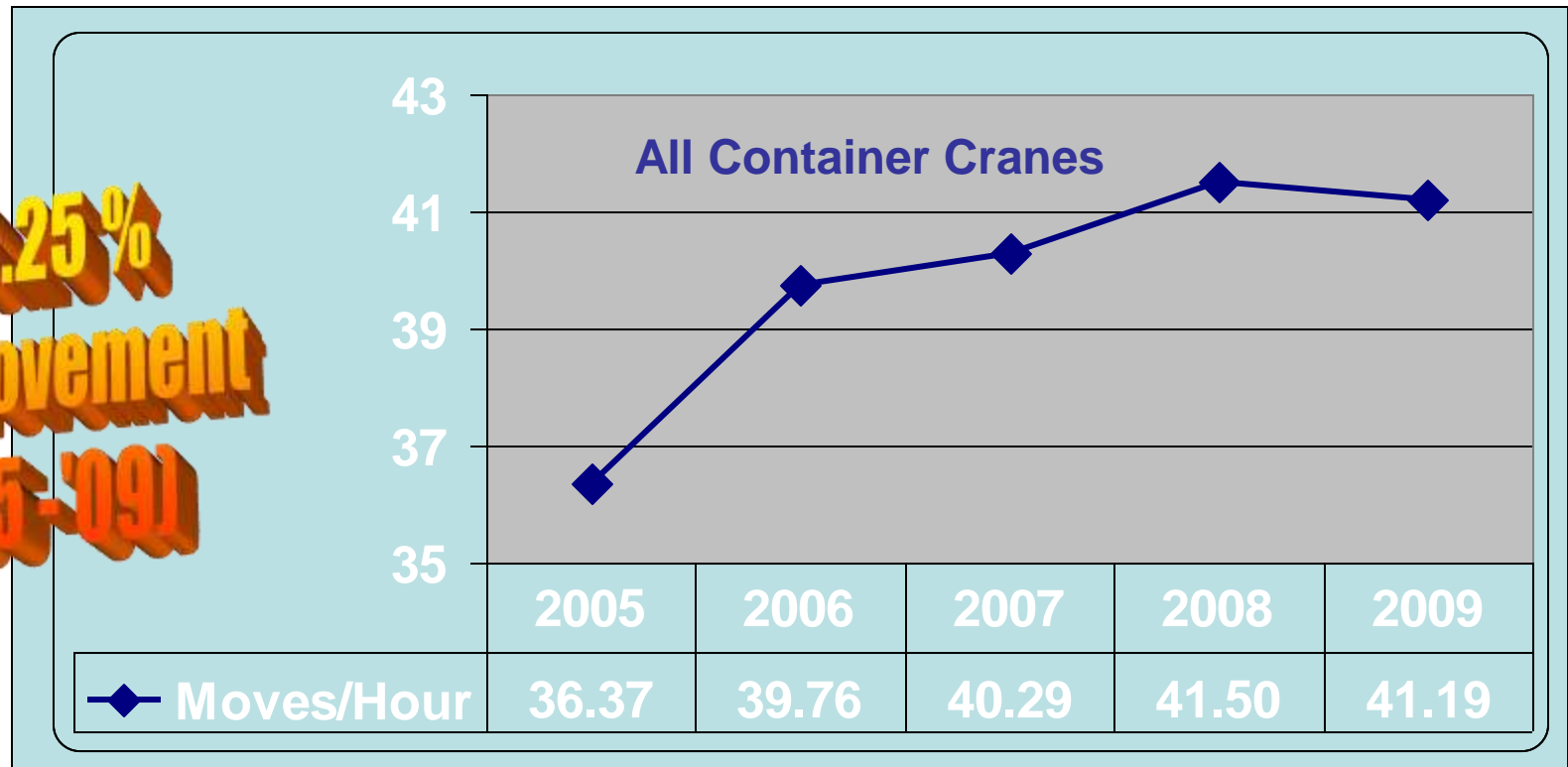
Improving our Productivity In the Gates

**19.2%
REDUCTION
(05-'09)**



**More cargo delivered per gallon of fuel,
less idling, less port equipment run
hours, etc.**

Improving our Productivity



More containers moved per hour of crane operation, shorter vessel dwell/hoteling, fewer yard tractor run hours, etc.

Air Initiatives

Switch to Ultra-low Sulfur Diesel:

Three years ahead of federal mandate

Education/Anti-idling Initiatives:

20 minutes average “turn time,” switch to ULSD, ongoing emissions reductions

Equipment Replacement:

Meet or exceed Tier 2 Federal Standards

Construction Standards:

All off-road equipment Tier II or higher and ULSD

First-in-the-Southeast Air Emissions Inventory:


Released September 2008






Regional, Port Emissions

County	VOC (tpy)	NOx (tpy)	SO2 (tpy)	PM-10 (tpy)	PM-2.5 (tpy)
Berkeley County	46,937	40,869	67,281	16,902	9,572
Charleston County	56,759	22,171	5,979	9,637	3,127
Dorchester County	36,687	8,854	4,129	5,797	1,794
Three County Total	140,383	71,894	77,389	32,336	14,493
Port Air Emissions Inventory	197.9	3,476.8	1,157.9	192.8	175.6
Port-Related Emissions as a Percent of Total in Tri-County Area	0.14%	4.84%	1.50%	0.60%	1.21%

Received 2008 DERA grant

-  **In partnership with DHEC, the Charleston Metro Chamber of Commerce, the American Lung Association, the Charleston Motor Carriers Association, and the South Carolina Trucking Association**

-  **2008 EPA Diesel Emission Reduction (DERA) grant has 2 components:**
 -  On-terminal cargo handling equipment
 -  Trucking Rebate Program

2008 DERA grant

- ❑ On-terminal cargo handling equipment:
repowering 21 Rubber Tire Gantry cranes (more than half of the modern fleet) from Tier 0 to Tier III engines



Trucking Rebate Program

- ❏ 50% rebate for EPA or CARB certified idle-reduction technology
 - ❏ Funding for 50 trucks

- ❏ 75% rebate for EPA or CARB certified retrofit technology
 - ❏ Funding for 20 trucks


- ❏ Funding for both trucking companies and owner/operators



Trucking Rebate Program

- ❏ Applications were solicited in early 2009
- ❏ Received ten times more applications than the available funding
- ❏ Trucking companies and owner/operators were notified of their selection in April and given through the end of 2009 to install the technology
- ❏ Money that was not utilized by the end of 2009 was reallocated to other applicants to have the work performed by March 31st, 2010
- ❏ Idle-reduction technology has now been installed on 49 trucks and retrofit technology on 36 trucks
- ❏ More than originally planned due to lower than expected costs

DHEC DERA Funds

-  Assisted a local tug company Moran Towing of Charleston in applying for State DERA funds to switch half of its local tug fleet to cleaner fuels


DHEC DERA Funds





Switching the
Cape May
to biodiesel
(subject to availability)



Switching the *Elizabeth Turecamo* to Ultra Low Sulfur Diesel (ULSD)

Awarded a 2009 ARRA DERA Grant

 A multi-faceted project designed to reduce port related diesel emissions with extensive public/private partnerships. Project components, include:

-  On-terminal cargo handling equipment
-  Privately owned and operated tugs
-  A privately owned and operated dredge
-  40 privately owned local drayage trucks

2009 ARRA DERA project

- ❏ On-terminal cargo handling equipment:
Repowering of 36 full container handlers
from Tier 0 to Tier III engines



2009 ARRA DERA project

- ❏ Partnership with Stevens Towing: Repower two twin-screw tugs, both propulsion and both auxiliary engines on each for a total of 8 engines from Tier 0 to Tier II engines.



2009 ARRA DERA project



Partnership with Marinex Construction: Repower their dredge the *Hampton Roads*, from a Tier 0 engine to a Tier II engine.



2009 ARRA DERA project




Partnership with Evans Trucking:
Company has leases with 40 local
owner/operator drayage trucks, which will
be retrofitted with Diesel Multi-stage
Filters.



Numbers for the 2009 DERA grant:

- ❏ **Total Project Cost: \$3,566,102**
- ❏ **Matching Funds: \$1,566,202**
- ❏ **This represents a 44% local contribution**
- ❏ **Total Economic Impact estimated at \$6.6 million**
- ❏ **Will create a total of 37 new jobs**
- ❏ **Project overall will reduce:**
 - ❏ **Total Annual NOx emissions by 176.25 tons**
 - ❏ **Total Annual PM emissions by 9.88 tons**
 - ❏ **Total Annual CO emissions by 29.31 tons**

To give you some numbers overall:

 For these two grant projects alone, total emissions reductions over the life of the projects will be:



 **2,135.68 tons of NO_x**

 **97.8 tons of PM**

 **52.28 tons of HC**

 **309.56 tons of CO**

Our overall strategy:

-  Continue to maintain and further cultivate excellent working relationships with environmental regulators
-  Proactively work with the regulators, the business community and other non-profit groups to find programs and solutions that make sense both from a financial and an environmental standpoint

Another example: Our Environmental Management System (EMS)

- ❏ We are currently in the process of developing an EMS for the Wando Welch Terminal
- ❏ Once it is implemented, we expect to replicate it for our other terminals
- ❏ The significant aspects we are addressing have been identified, and they include:
 - ❏ Air Emissions (further voluntary reduction programs)
 - ❏ Stormwater/water quality
 - ❏ Spills from cargo

Our Environmental Management System (EMS)

As a first step in implementing the EMS we developed an Environmental Stewardship Policy which states as our vision:

“It is our environmental stewardship vision that fiscally sound environmental practices enhance our primary function of promoting economic development.”

www.PledgeForGrowth.com



land

air

water

people



There's more to the Port of Charleston than just cargo, ships, trucks and trains. In fact, the Port has taken on one of the state's largest environmental efforts to date – and was one of the first in the nation to consider "people" impacts. Among its efforts, the Port is restoring and adding 22 acres of tidal marshes, reducing port-related air emissions and funding an air monitoring station, partnering with Wildlife Trust to protect the Northern Right Whale and much more.

Take a look for yourself.

PORTCHARLESTON



Please press play.

people One of our most important resources. Of their own accord, the Port is working hand in hand with North Charleston leadership and the Lowcountry Alliance for Model Communities (LAMC) to benefit those communities in the long term - through greater access to affordable housing, job opportunities, community resources and more. The partnership is one of the only port-related mitigation plans nationwide to include these "people" impacts. The Port also has committed \$250,000 to address traffic issues within those communities and additional funds to study and improve air quality.

How is the Port thinking beyond its own growth? [click here.](#)

home gallery

land

air

water

people

TAKE the
PLEDGE

TAKE the PLEDGE

Please complete the form below and Take the Pledge for Growth!

Contact Name

Company

E-Mail

Our Pledge

Take the Pledge

Reset

Responsible growth. That's the Port's pledge. Why?

Because the Port understands that growth can mean even greater things for the entire community, Opportunities for better jobs along with a cleaner, healthier environment.

But the Port can't do it alone. To truly enhance our communities, it needs responsible executives and companies each willing to do their own part.

How about committing to a company-wide recycling program, or switching to cleaner fuel? Or offering incentives for taking mass transit, riding a bike or car-pooling to work?

You could commit to switching company vehicles to hybrid or higher gas mileage per gallon...conduct energy audits in your company's buildings or convert all light bulbs to CFLs...support local conservation groups in their efforts—by volunteering or committing critical funds for projects...and much more.

The Port challenges you, as individuals and as company leaders, to make your own Pledge for Growth.

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PORTCHARLESTON

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Thank You

