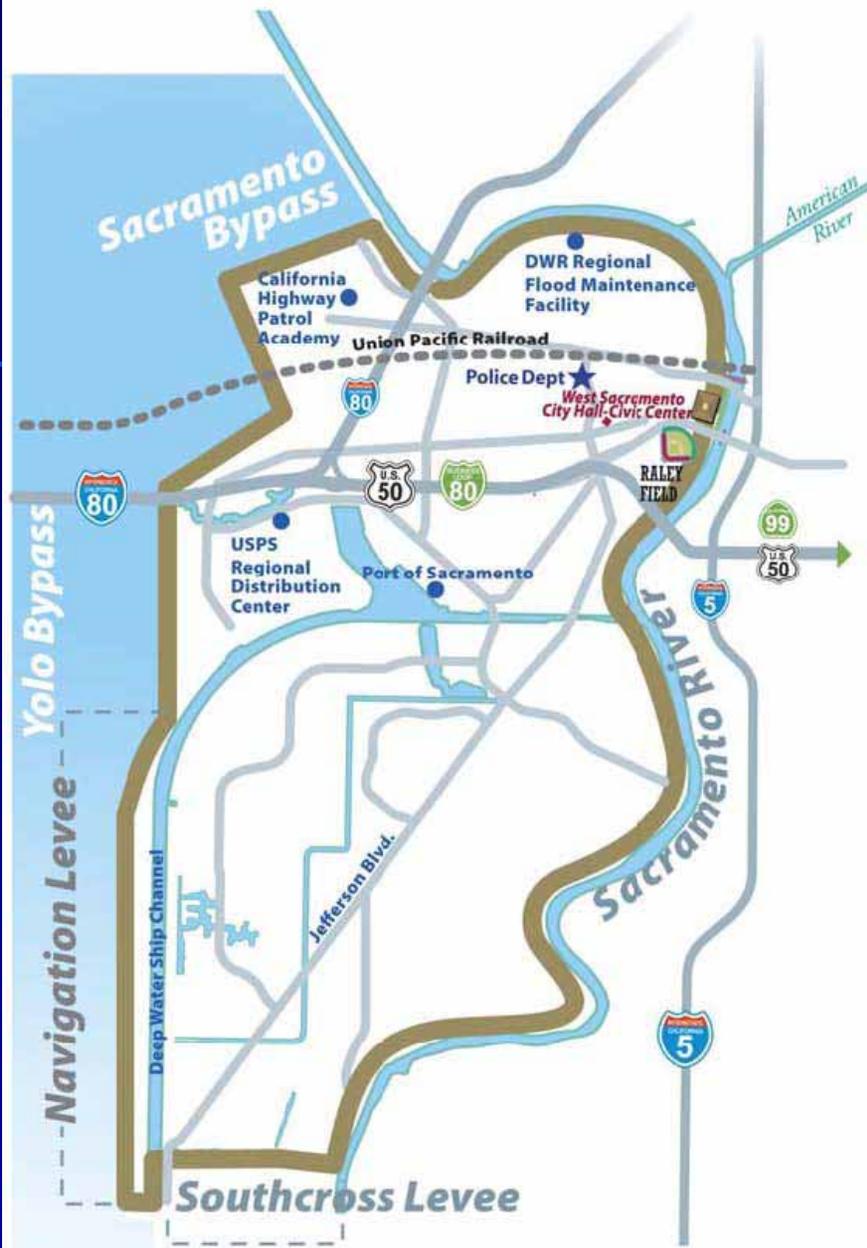


# Port of Sacramento Channel Deepening Discussion



**Mike Luken, Port Manager  
Port of Sacramento**

**Delta Vision Blue Ribbon Task Force  
January 31, 2008**



**West Sacramento:**  
*Surrounded on all sides by levees*



# History



- 1920's: the "visioning" period
- 1937: State authorizes port
- 1946: Congress approves channel
- 1947: Citizens vote 6/1 to fund
- 1949: Groundbreaking
- 1962: Port facilities constructed
- 1963: Port opens with first ship

•75,000 citizens attend dedication and the arrival of the first ship, M/V Taipei Victory



# Port Update

- Existing and New Business Development
- Channel Deepening
- Looking forward



North Terminal

Seaway  
Property

grium

# Existing Cargo Business & New Business Development

# Bagged Rice Export - 2006/2007

## US Shippers

- ADM
- Farmers Rice

Annual Tonnage –180,000MT

13 shipments to Japan  
2 shipments to Korea



# Bulk Fertilizer Import 2006/2007

## Port of Sacramento

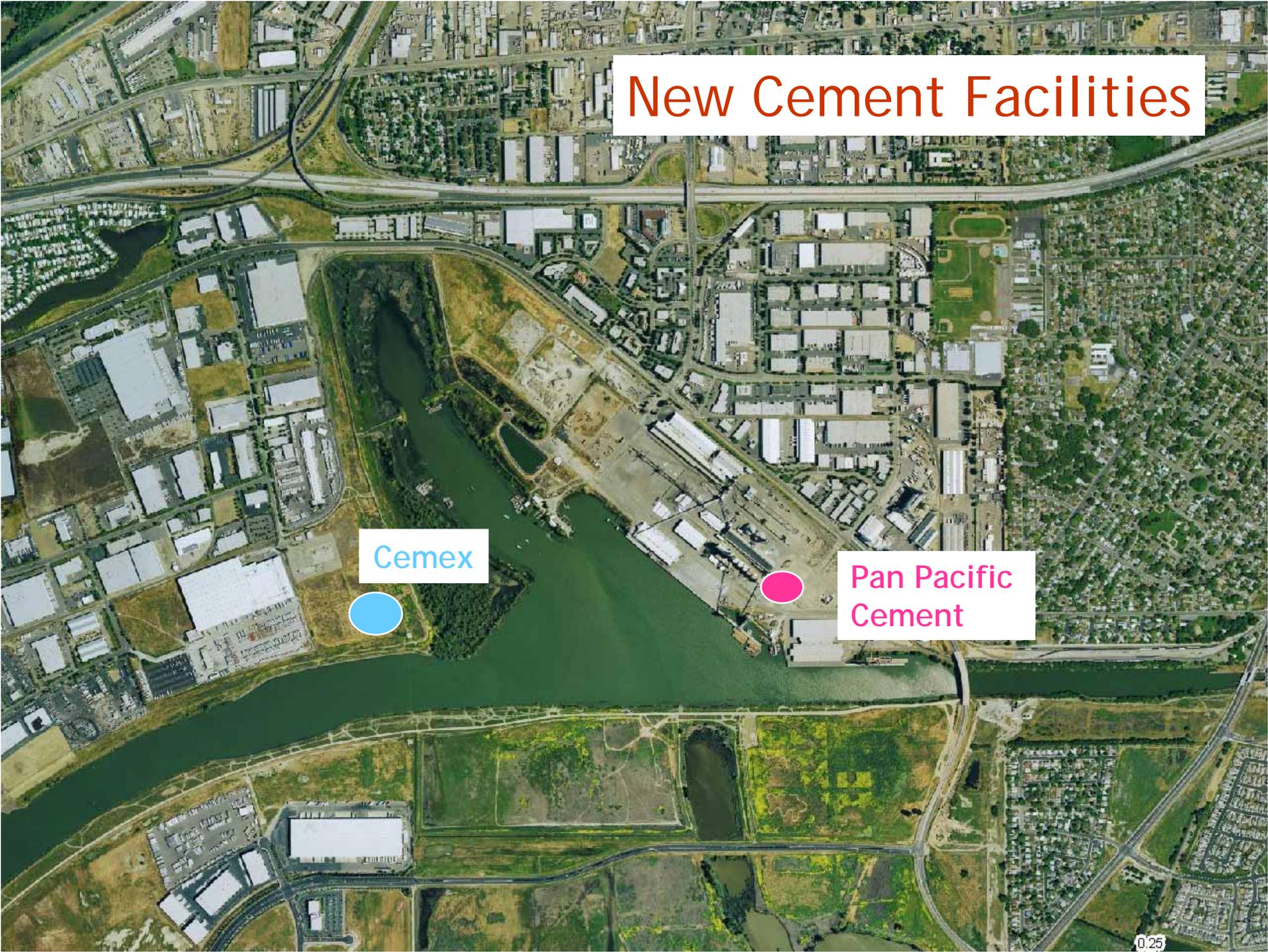
- Yara North America
- Misc Small Shippers
- Annual Tonnage –100,000MT

## Agrium Facility

- 7 to 8 shipments per year
- Annual Tonnage-350,000 MT



# New Cement Facilities



Cemex



Pan Pacific  
Cement



# New Cement Facilities

## Pan Pacific Cement (A&A)

First Vessel March 8, 2007

88,000 MT Facility

800,000 MT Max Throughput

36 vessel per year

Environmental Benefit - Every  
Cement Ship takes 950 trucks  
off the road



# New Cement Facilities

## Cemex Sacramento Terminal

First vessel Summer 2008

1,000,000 MT Cement

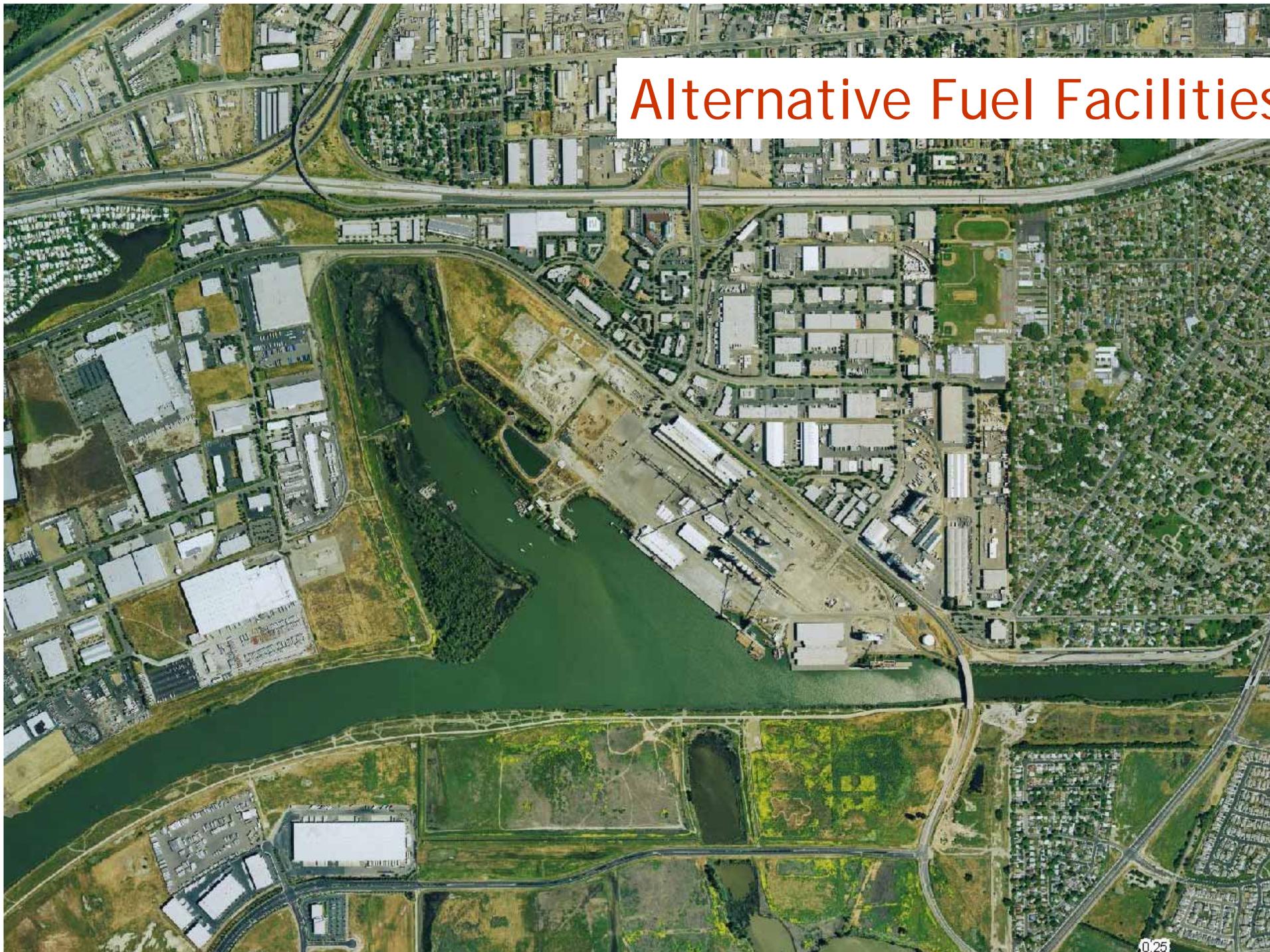
1,200,000 MT Aggregate

48+ vessels per year

Ready mix plant



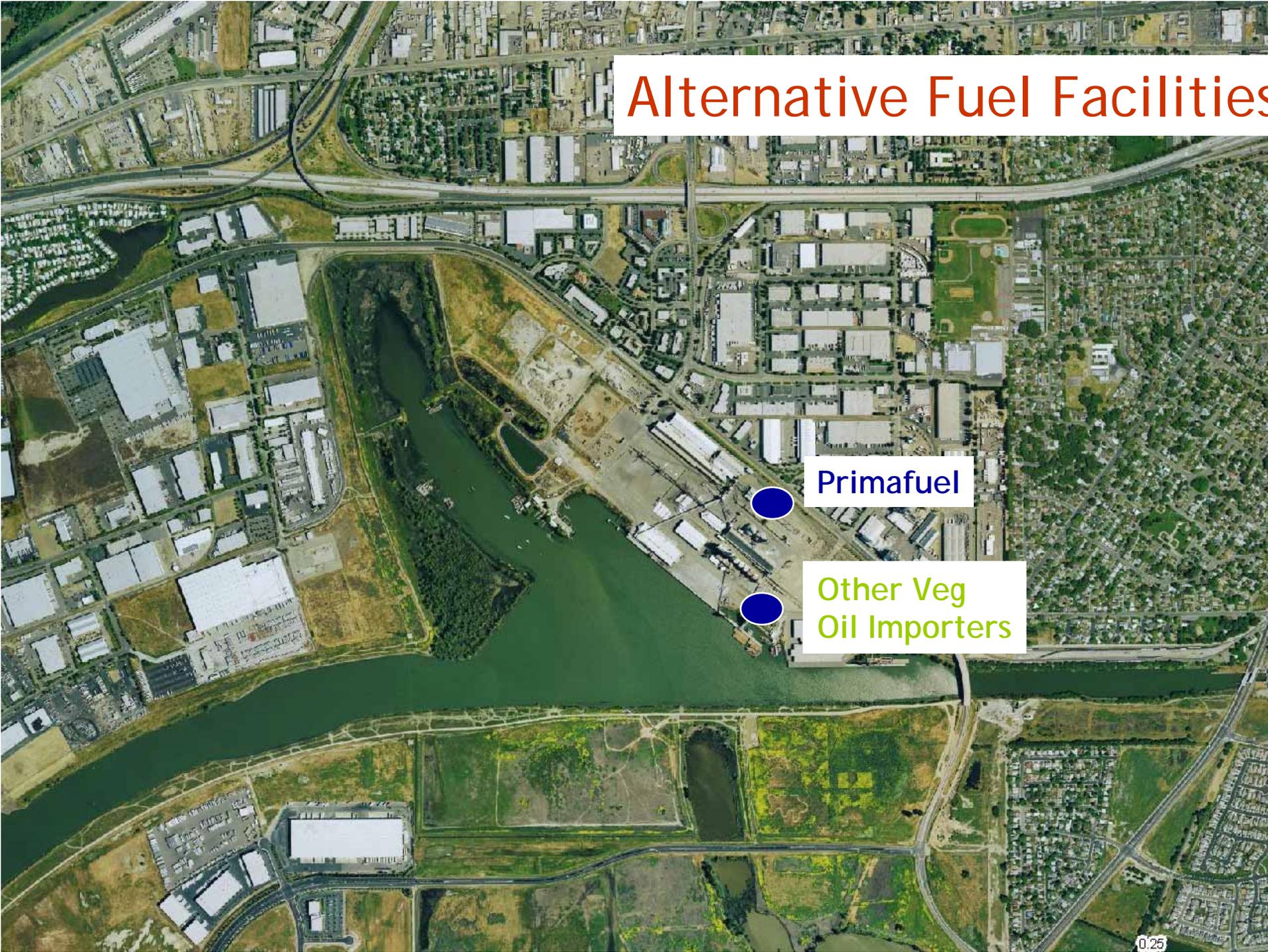
# Alternative Fuel Facilities



# Alternative Fuel Facilities

Primafuel

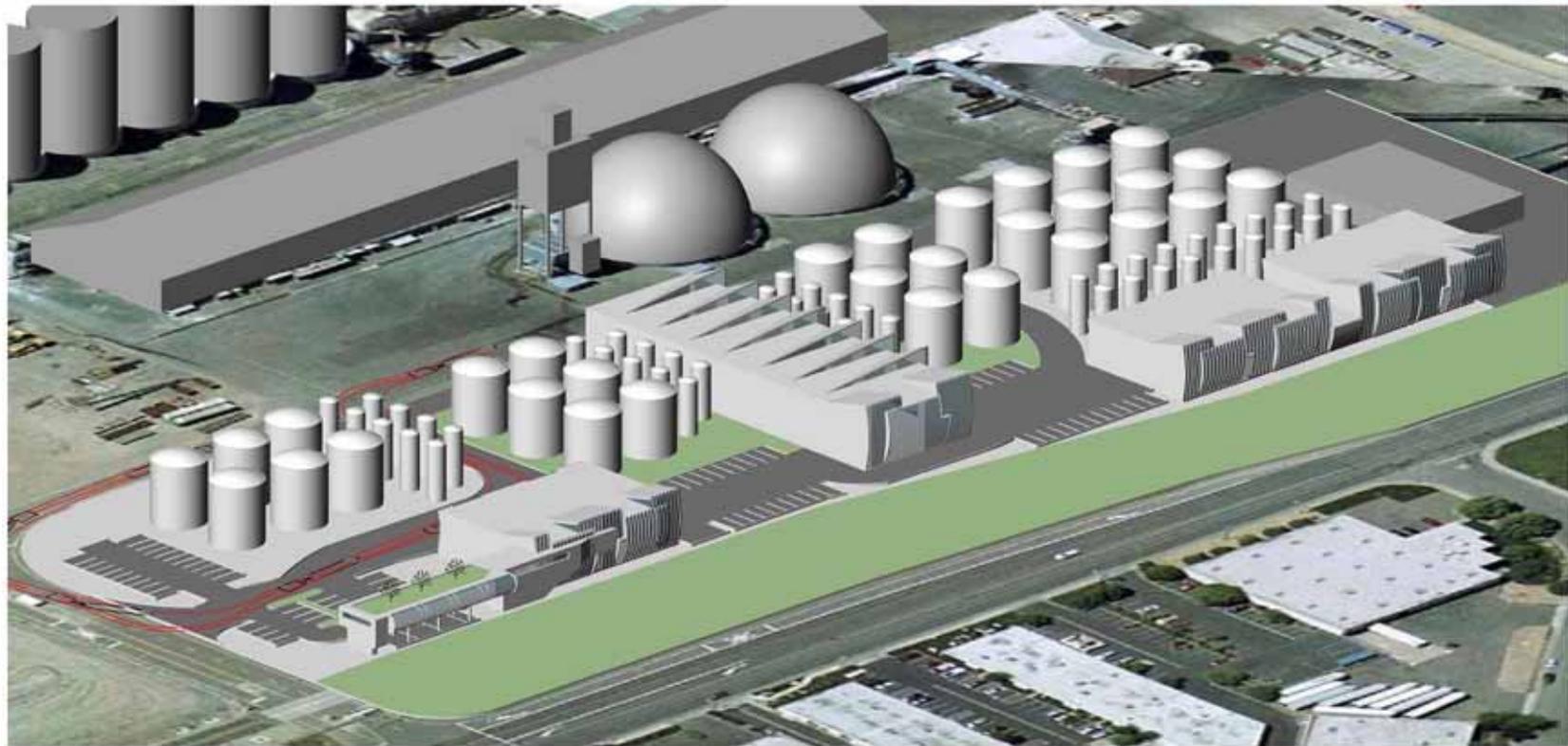
# Alternative Fuel Facilities



Primafuel

Other Veg  
Oil Importers

# Primafuel Biodiesel



PROPOSED: BIOFUELS PRODUCTION FACILITY  
**PRIMAFUEL**  
ONE WORLD TRADE CENTER 8TH FLOOR  
LONG BEACH, CALIFORNIA 90831  
03-07-07

PROPOSED SITE PLAN 'A'  
VIEW 1

  
**DAVID EVANS  
AND ASSOCIATES INC.**  
800 North Haven Avenue, Suite 300  
Ontario California 91704  
Phone: 909.481.8700

# Wind Equipment



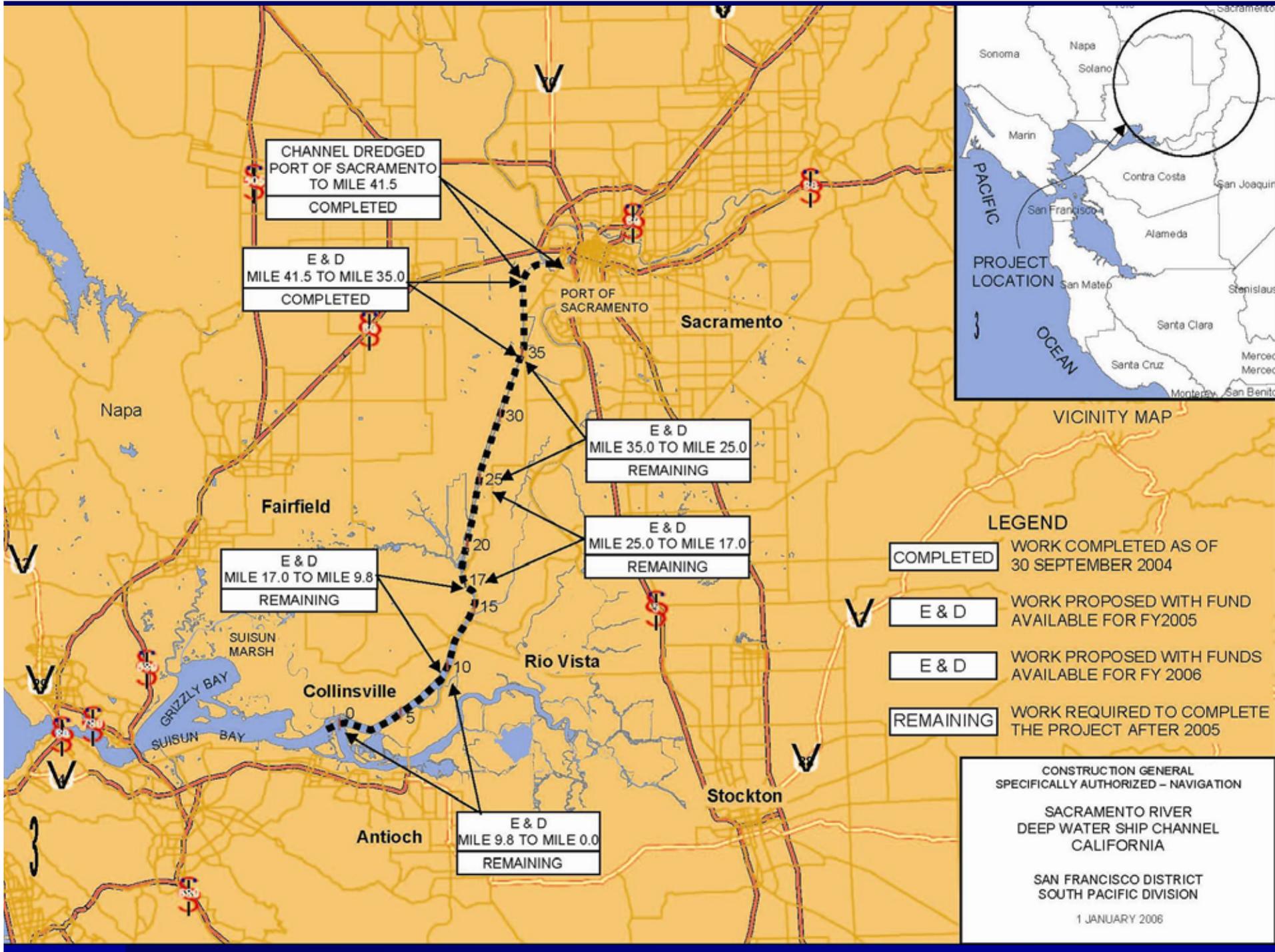
# Cargo on the Horizon

- Mineral Export
- Grain Export
- Metals
- Building Materials
- Autos

# Sacramento/Stockton/Oakland Container Ferry Project



# Channel Deepening



**LEGEND**

- COMPLETED** WORK COMPLETED AS OF 30 SEPTEMBER 2004
- E & D** WORK PROPOSED WITH FUND AVAILABLE FOR FY2005
- E & D** WORK PROPOSED WITH FUNDS AVAILABLE FOR FY 2006
- REMAINING** WORK REQUIRED TO COMPLETE THE PROJECT AFTER 2005

**CONSTRUCTION GENERAL SPECIFICALLY AUTHORIZED - NAVIGATION**

**SACRAMENTO RIVER DEEP WATER SHIP CHANNEL CALIFORNIA**

**SAN FRANCISCO DISTRICT SOUTH PACIFIC DIVISION**

1 JANUARY 2006

# Channel Deepening

- Channel Deepening (30 to 35 feet)
  - Continuing Construction-Deepened 1st eight miles
  - \$900,000 in Presidents Budget to finish studies
  - 2010 Startup - 2013 completion
  - Environmental Enhancement Project to Start
  - Regional priority of Metro chamber/Cap to Cap
  - Regional priority for I-Bond funding
    - Norcal Councils of Government
    - Port of Oakland
    - Northern CA Trade Coalition

# Environmental Benefits

- Trip Reduction/Congestion Relief
  - Every Cement Ship = Approx. 30,000 tons
  - 950 to 1300 truck trips off congested freeways per ship
  - Pan Pacific Only = 34,200 to 46,800 trucks
- Emissions Reduction (Pan Pacific Only Example)
  - NOx: 42.5-74.5 tons per year
  - ROG: 1.9-3.5 tons per year (savings)
  - CO: 9.2-18.4 tons per year (savings)
  - PM10: 1.4-2.8 tons per year (savings)
- Flood Control
  - Joint Flood Control/Channel Deepening Project
  - Channel Deepening Material Reuse
- Habitat Creation & Conservation
  - Channel Deepening
  - Delta Island Habitat Restoration

# Environmental Commitment

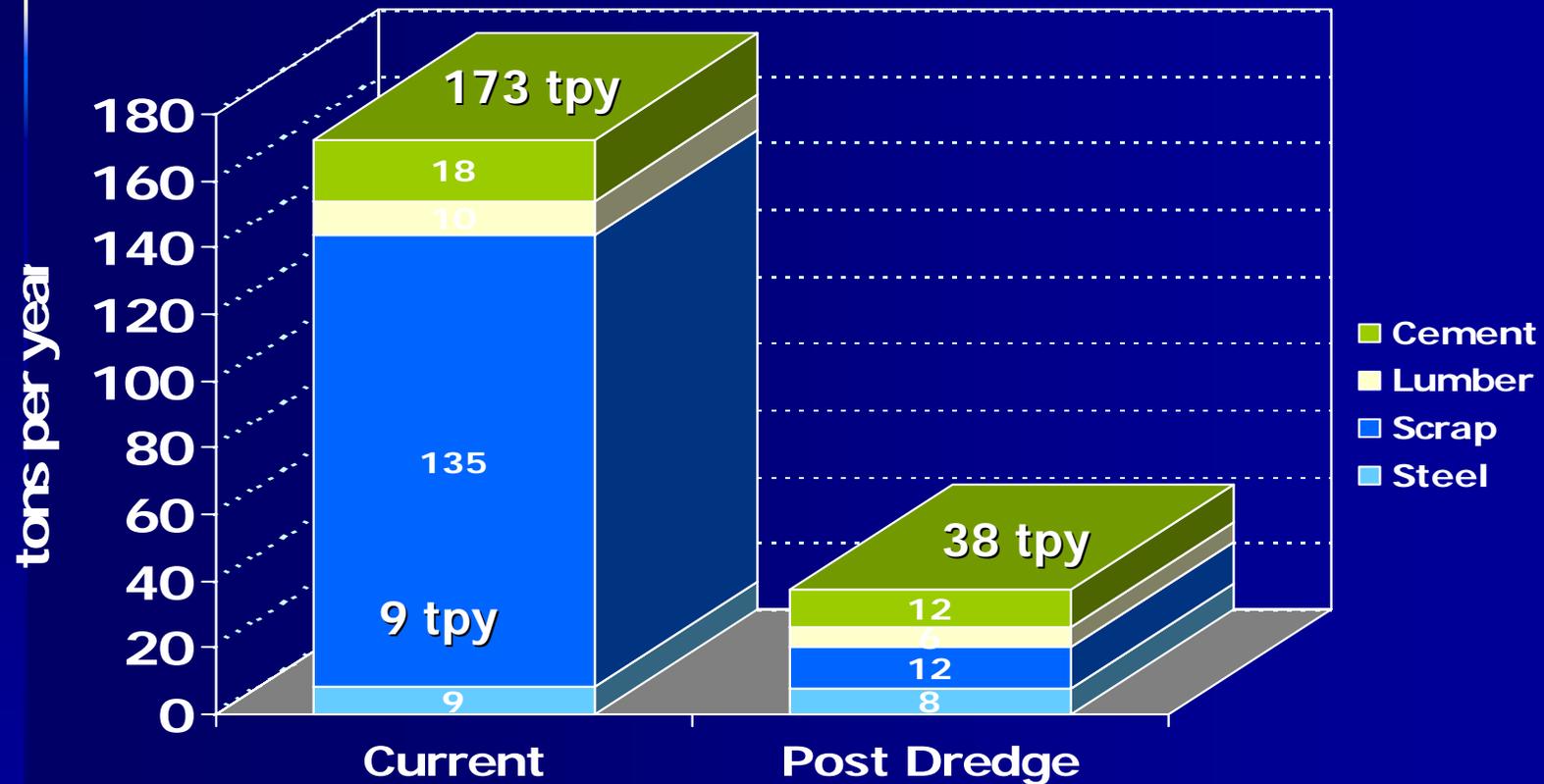
- New Port Cargo - Best Available Technology
  - Cement - unloading equipment
  - Biodiesel - LEED certification
- SSA & Port Upgrade of Terminal Equipment
- Improved Maintenance
- Solar Power
- PG&E Partnership-Energy Efficiency, Alt Technology
- Planning for future environmental upgrades
- Fertilizer Handling
- Upcoming Green City/Port Program

# Criteria Emissions - Combined

*(tons per year)*

	<b>NO<sub>x</sub></b>	<b>ROG</b>	<b>CO</b>	<b>PM<sub>10</sub></b>	<b>PM<sub>2.5</sub></b>
Current	129.2	5.9	29.2	4.4	3.8
Post Dredge	32.8	1.2	2.9	0.4	0.4
% Change	-75%	-80%	-90%	-90%	-90%

# Total Criteria Emissions (tons per year)



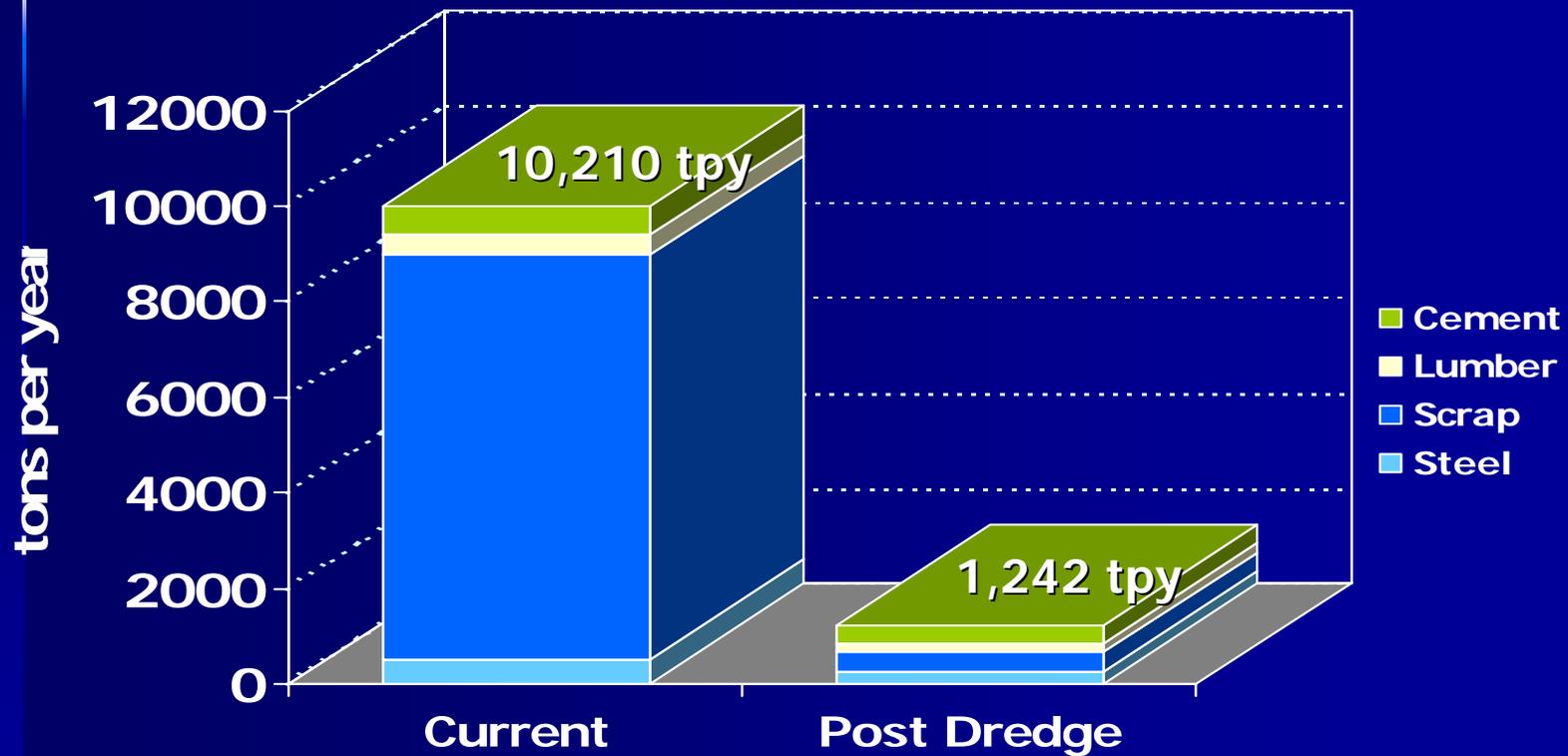
# Greenhouse Gas Emissions

*(carbon dioxide equivalent in tons per year)*

	Steel	Scrap	Lumber	Cement
Current	528	8,446	422	608
Post Dredge	253	406	203	380
% Change	-52%	-95%	-52%	-60%

# Greenhouse Gas Emissions

*(carbon dioxide equivalent in tons per year)*



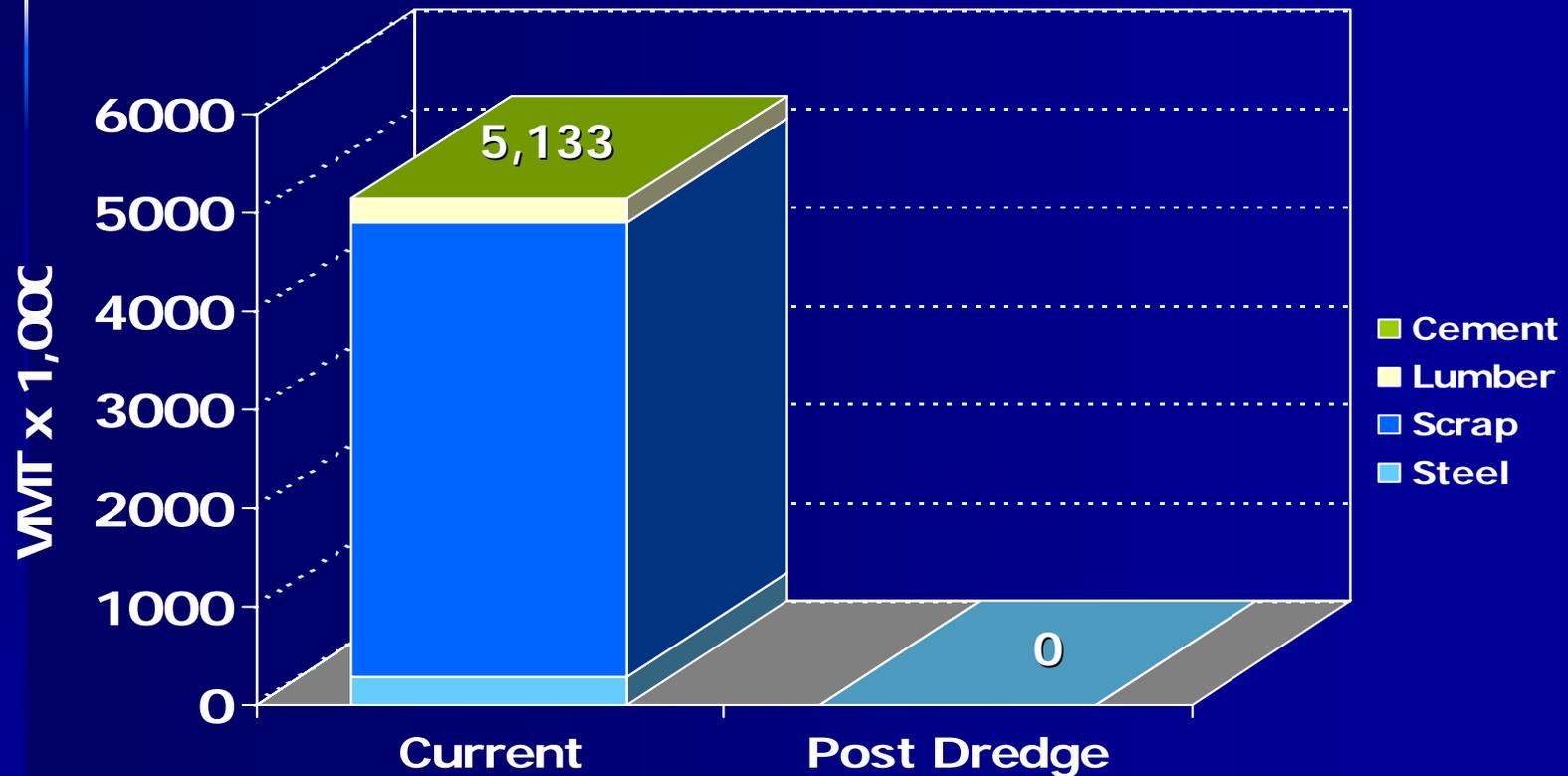
# Diesel Truck Activity

*(10<sup>3</sup> vehicle miles travelled)*

	Steel	Scrap	Lumber	Cement
Current	288	4,614	231	0
Post Dredge	0	0	0	0
% Change	-100%	-100%	-100%	N/A

# Diesel Truck Activity

( $10^3$  vehicle miles travelled)



## *Copy of Presentation (three choices)*

1. Please bring me a business card
2. Email me at [mikel@cityofwestsacramento.org](mailto:mikel@cityofwestsacramento.org)
3. Phone: (916)371-8000

Mike Luken  
Port Manager  
Port of  
**West** Sacramento

Delta Vision Blue Ribbon Commission  
January 31, 2008