

The Mitsubishi Cement
Port of Long Beach
Pier F Cement Import Facility
Modernization Project

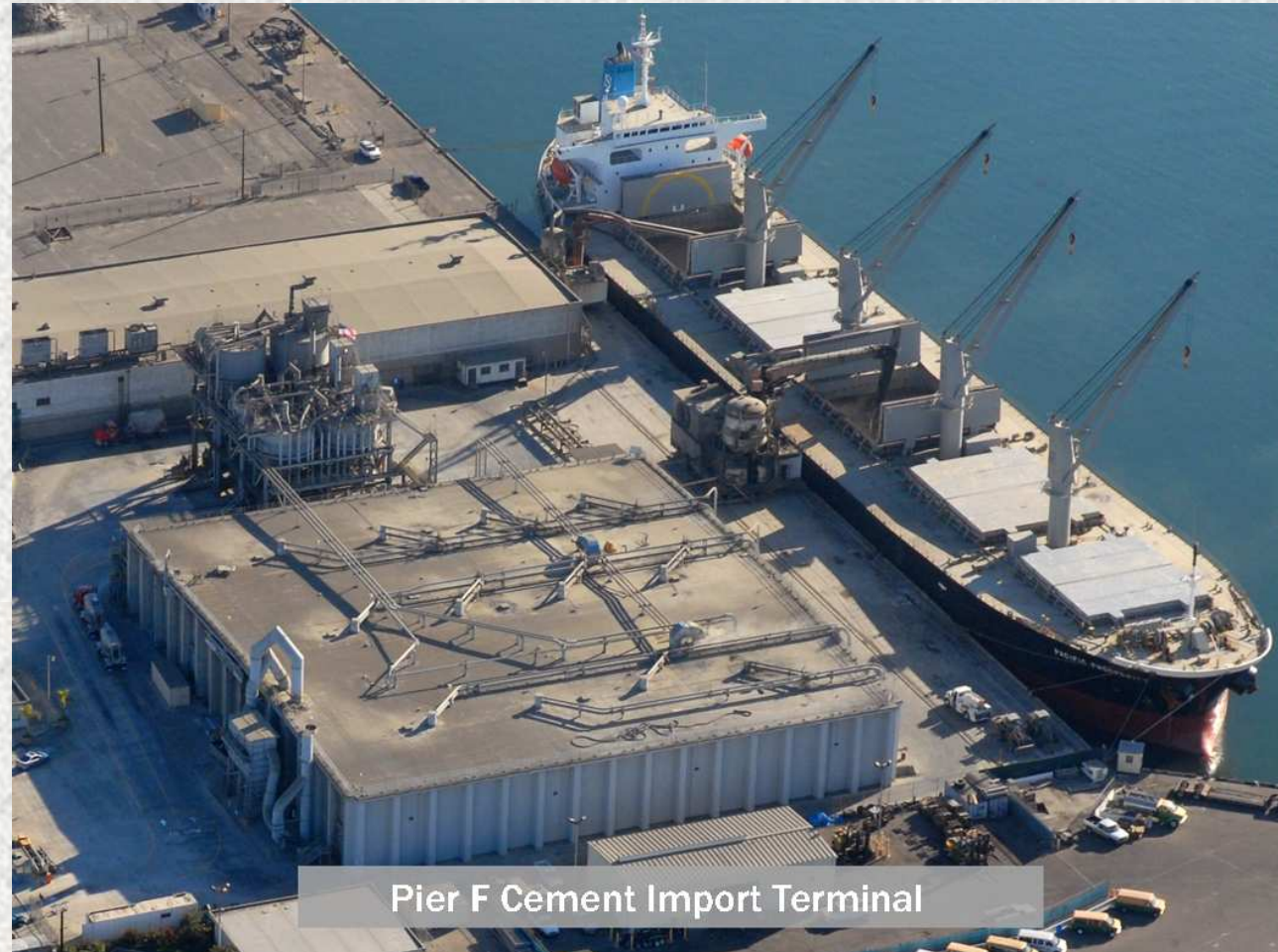
July 14, 2015

- 1 -

POLB Pier F Import Terminal

Existing Facility

- 4.21 acres
- Two vacuum unloaders
- Cold-ironing infrastructure
- Storage Building
 - 52,500 MT
- Truck loading
 - 3 lanes



July 14, 2015

The Modernization Project



Port of Long Beach/Mitsubishi Cement Corporation Terminal

July 14, 2015

Efficiency Improvements

Storage:

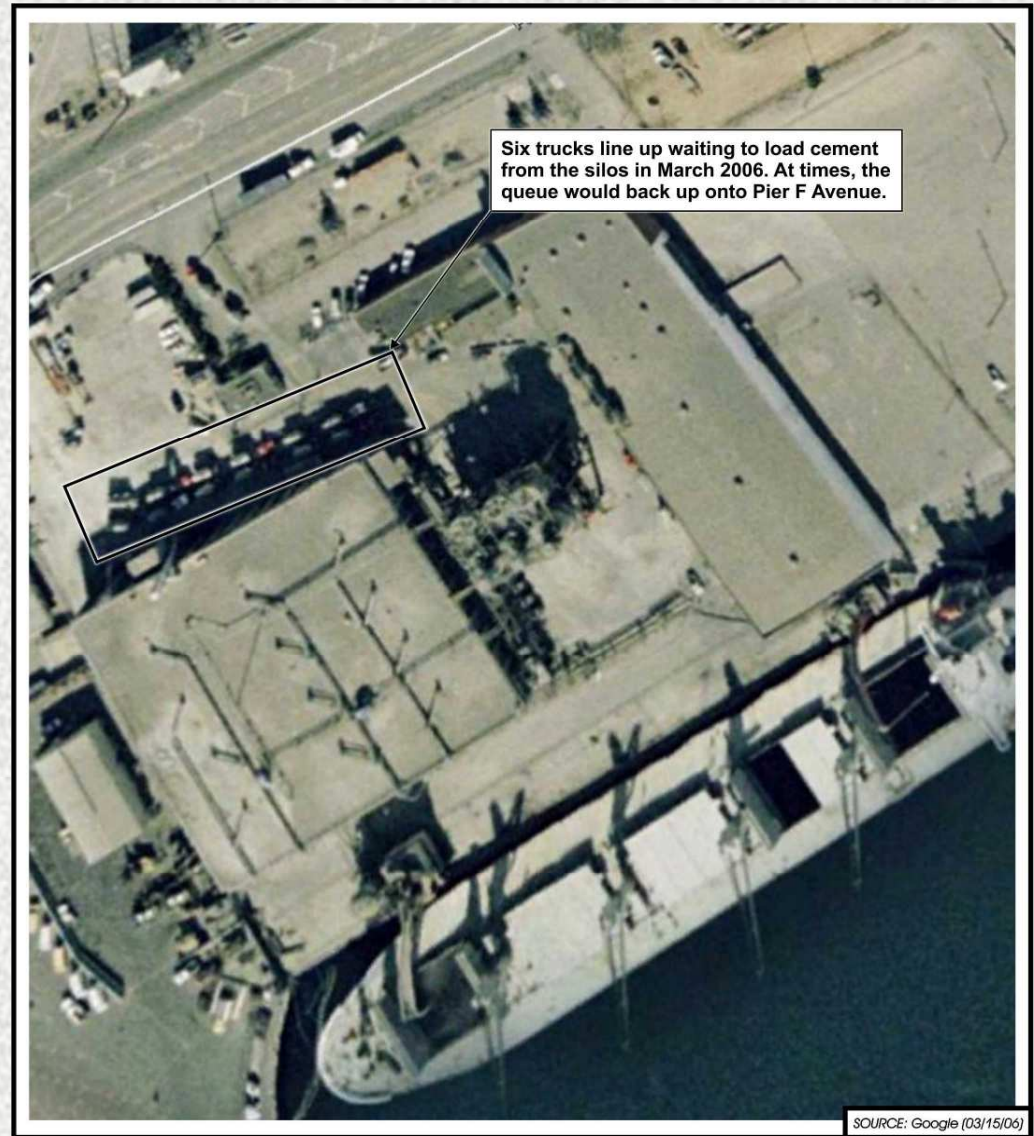
- Added silo capacity

Unloading

- Upgraded vacuums cut unloading time

Avoid delays from mismatch of supply & demand:

- Ships waiting to unload
- Trucks queuing to load



Environmental Audit, Inc.

0 ~90'



AERIAL VIEW OF MITSUBISHI CEMENT CORPORATION
LONG BEACH TERMINAL

Project No. 2387

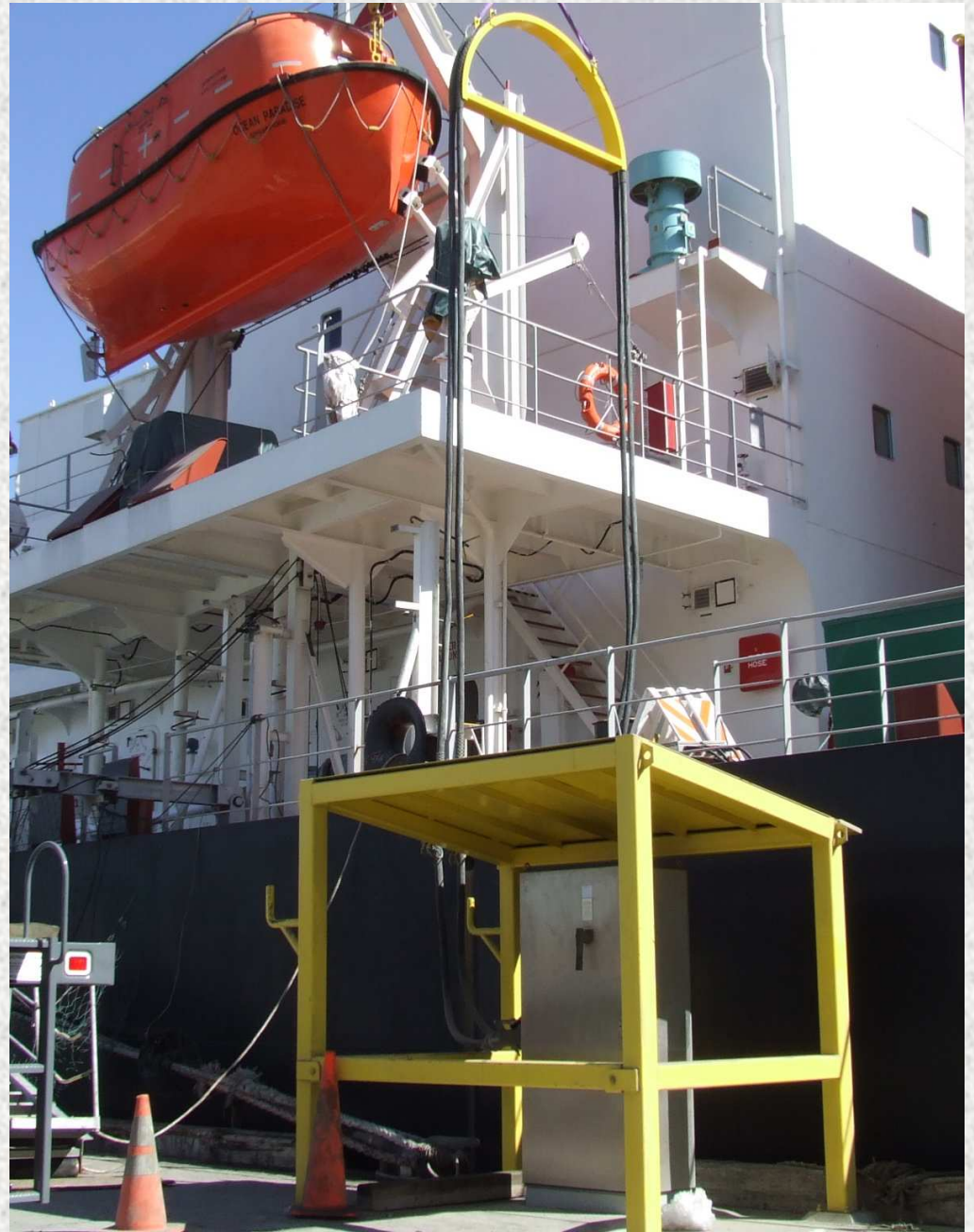
N:\2387\City Council Hearing Pictures\Truck Queuing Revised (rev.1).cdr

Figure 1

Shore Power

History of innovation:

- Cold-ironing since 2005
- 2007: Achieved 80% plug-in
- 2009: CAAP award



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Unloading Process



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Payloader



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Unloading the Hold

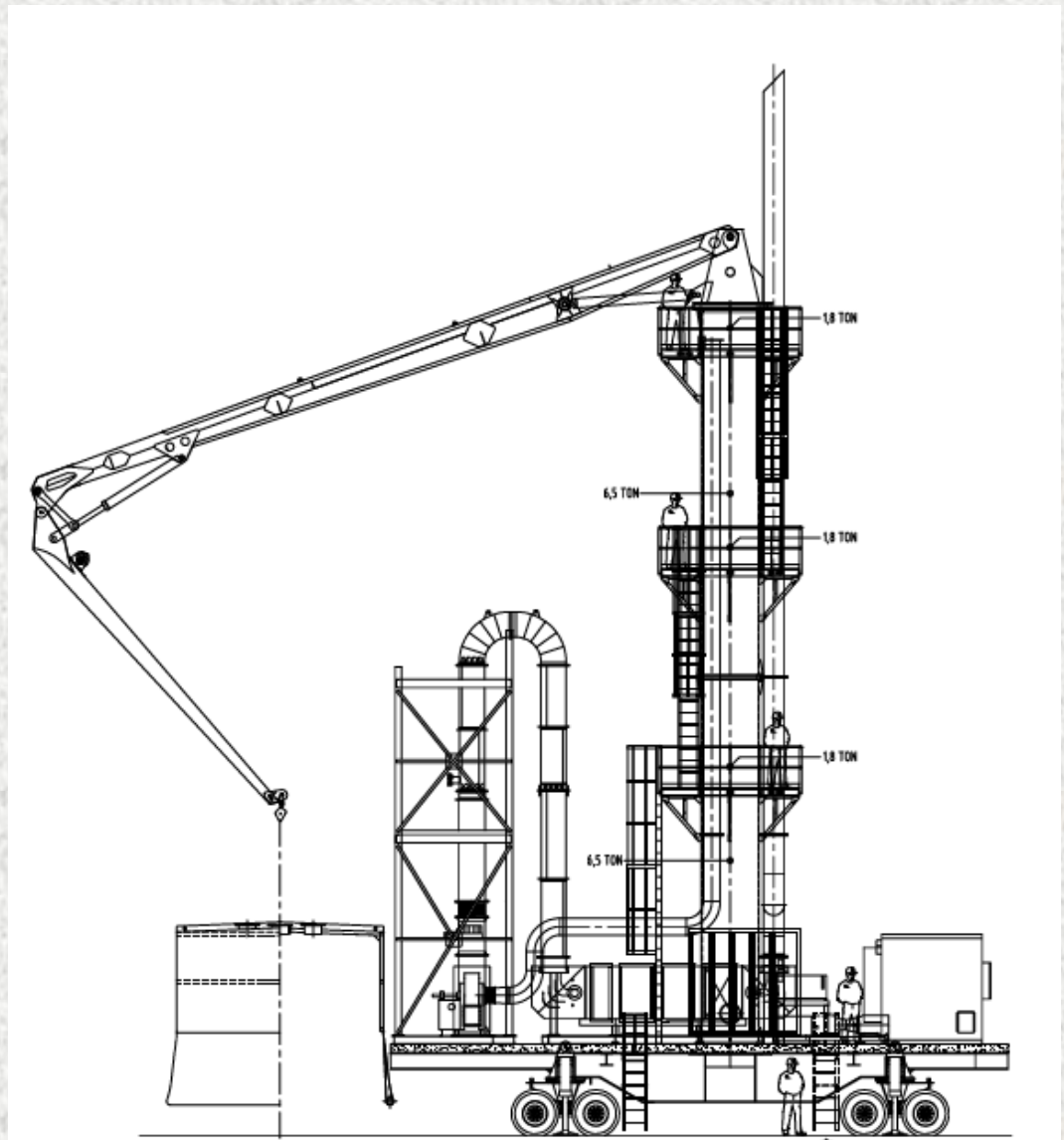


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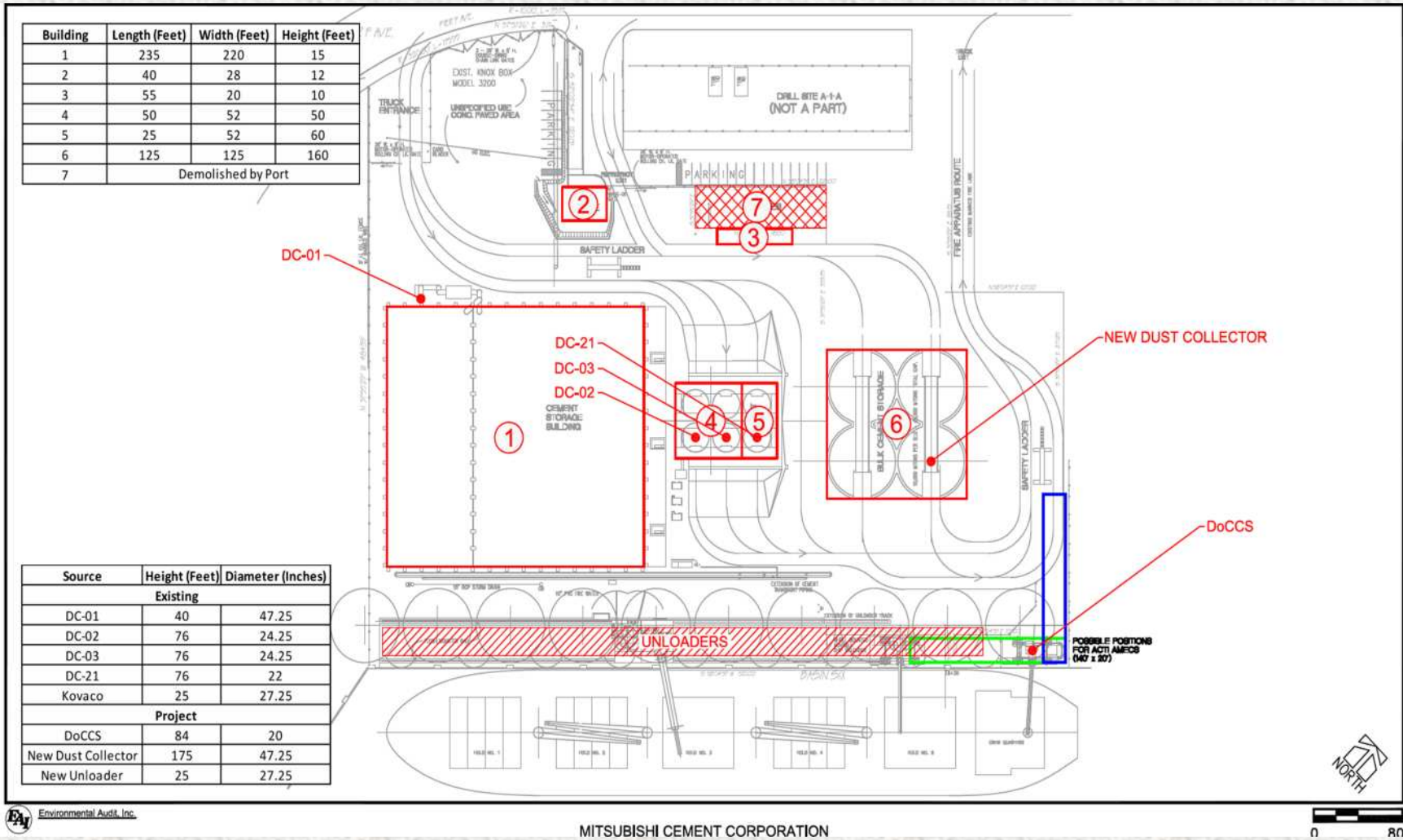
DoCCS

DoCCS is the technology best suited to our facility:

- Small footprint
- Mobile
- Familiar components



Why the DoCCS?



Pier F

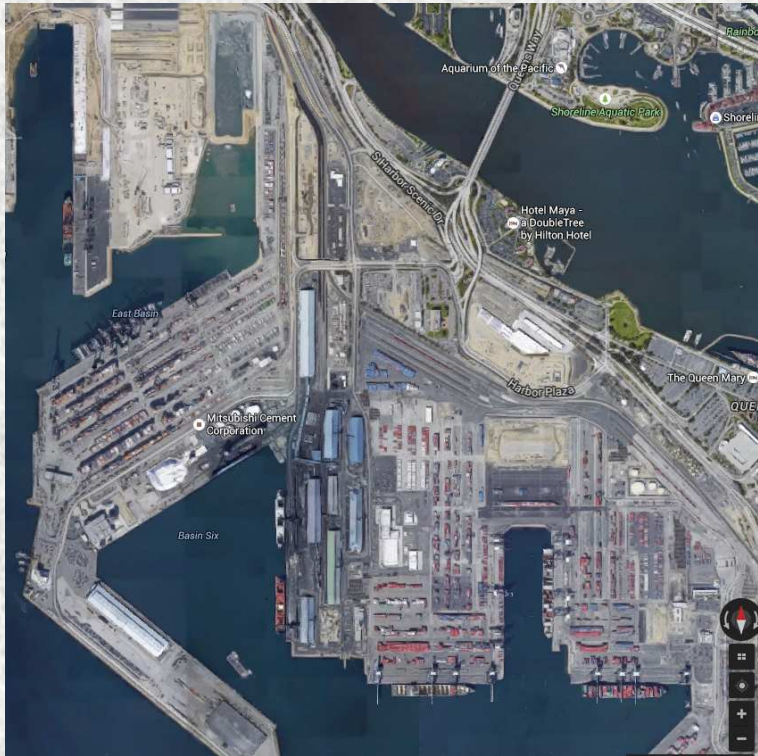


Figure A-2-6. Maximum 24-Hr PM10 Mitigated Project minus CEQA Baseline Impacts (ug/m3).

Bulk Cement Trucks



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