



2012

San Diego County Infrastructure Report Card

ASCE
AMERICAN SOCIETY
OF CIVIL ENGINEERS

Report Card Team Members

Working Team

Aviation

Eric Nelson - Co. of San Diego

Bridges

Jim Frost - Simon Wong Engineering

Land and Sea Ports of Entry

Bill Wood - Transystems

Christina Casgar - SANDAG

Levees/Flood Control/Urban Drainage

Cid Tesoro - Co. of San Diego

Parks/Recreation/Environment

Bill Saumier - Co. of San Diego

K-12 School Facilities

Bob Kiesling - Grossmont UHSD

Solid Waste

Donna Turbyfill - Co. of San Diego

Surface Transportation

Gordon Lutes - Dokken Engineering

Patricia McColl - David Evans & Assoc.

Wastewater/Collection System

Paul Bushee - Leucadia Wastewater Dist.

Wastewater/Treatment

Kevin Hardy - Encina Wastewater Auth.

Water Supply

Mike Hogan - San Diego County Water Authority



Report Card Team Members

Executive Team

Section Past President Patricia McColl, David Evans & Assocs.
Section President Dean Gipson, HDR Engineering
Report Card Chair Lawrence Pierce, San Diego Hope Church
Report Card Secretary. Cathy Riley, ASCE
Public Relations Chair Noelle Afualo, Simon Wong Engineering
Public Relations Assistant Evelyn French, Simon Wong Engineering
Graphic Design & Report Layout . Marylou Flanders, Atkins



Report Card Process

- Patricia McColl initiated updating Section's 2005 Infrastructure Report Card for San Diego County
- 11 working teams employed by public agencies and consulting firms
- Each working team selected Peer Reviewer(s)
- 3 new categories added – Aviation, Solid Waste & Bridges
- Wastewater Systems was divided into 2 categories - Collection System and Treatment



How do we compare?

- How is our region doing?
 - 2012 Report Card earned an overall grade of “C” as compared to the 2005 overall grade of “C+”
- How did our region compare to California?
 - Overall grade for 2012 State of California was a “C”
- How did San Diego Compare to the Nation?
 - San Diego County grade is higher than the National ASCE 2009 Report Card grade “D”



2005 & 2012 Comparison Grades By Section

2012 San Diego County Report Card		
	2005	2012
Aviation	-	C+
Bridges	-	C+
Land and Sea Ports of Entry	C	C-
Levees/Flood Control/Urban Drainage	C-	C-
Parks/Recreation/Environment	B-	C
School Facilities	C+	C
Solid Waste	-	B
Surface Transportation	C	D+
Wastewater/Collection Systems	C+	B
Wastewater/Treatment	B	B+
Water	B	B



Aviation

2005

-

2012

C+



Aviation

2005

-

2012

C+

- San Diego County Airports are facing:
 - Funding Challenges
 - Future Capacity constraints
 - Community Encroachments
 - Environmental and Regulatory Requirements
 - Political Pressures & Community Encroachments

Bridges

2005

-

2012

C+



Bridges

2005

-

2012

C+

- 1,432 bridges throughout San Diego County, not including Rail Transit bridges
- Average age of a local bridge is 41 years
- 19% of those bridges are considered to be deficient
- 5% a year funding increase is needed for next 20 yrs.



Land and Sea Ports of Entry

2005
C

2012
C-



Land Ports of Entry

2005	2012
C	C-

- San Diego's border crossings accommodate more than 18.9 million vehicles carrying 42 million people
- Existing border crossings are beyond capacity
- Costs to our economies is about \$7.2 Billion in gross output and more than 62,000 jobs
- New border crossing is critical



Sea Ports of Entry

2005	2012
C	C-

- 3 - Sea Port Terminals providing deep water berths
- Condition of Sea Port Terminals is generally adequate
- Sea Port Terminals impacted by other competing uses
- Sea Port Terminals will require upgrades to meet future demands

Levees/Flood Control/Urban Drainage

2005
C-

2012
C-



	2005	2012
Levees/Flood Control/Urban Drainage	C-	C-

- Region's drainage facilities approaching service life
- Over 50% of existing facilities are under capacity
- Increasing environmental regulations impact annual maintenance
- Region facing a deficiency in excess of \$1 Billion over the next 20 years

Parks/Recreation/Environment

2005
B-

2012
C



Parks/Recreation/Environment

2005
B-

2012
C

- Many park facilities have outlived their economic useful life
- \$500 million annual deficit for operating, maintaining and repairing parks
- The backlog of park repairs is in excess of \$1 Billion
- Depressed economy at Federal, State and Local levels have severely impacted our Parks



School Facilities

2005
C+

2012
C



School Facilities

2005	2012
C+	C

- Positives:
 - K-12 funding increased significantly with School Bond Programs
- Negatives:
 - K-12 funding decreased substantially for maintenance and future projections are bleak
- Summary:
 - K-12 school facilities are better off for short term
 - Lack of maintenance funding is a long term issue

Solid Waste

2005

-

2012

B



Solid Waste

2005

-

2012

B

- Integrated Solid Waste system includes reduction, reuse & recycling of all solid waste
- Most Solid Waste facilities - primarily privately owned
- City of San Diego, Miramar Landfill - only exception
- Solid Waste system sustainability is regulatory & market driven
- State's goal is now 75% recycled diversion by 2020



Surface Transportation

2005
C

2012
D+



	2005	2012
Surface Transportation (Roads)	C	D+

- Positives:

- Decline in highway congestion since 2005
- Establishment of the TransNet Program

- Negatives:

- Reduced & uncertain Federal & State funding
- Deterioration of our regional roads & highways:
 - ✓ 50% of region's roads are substandard or poor condition

	2005	2012
Surface Transportation (Bus & Rail)	C	D+

- Positives:

- Increased ridership since 2005
- Increased role in 2050 RTP
- Federal funding for maintenance
- TransNet Program funding

- Negatives:

- Reduced & Uncertain Federal/State Funding
- Commuter Rail Corridor
 - ✓ 50% single tracked & bridges at service life

Wastewater/Collection System

2005
C+

2012
B



	2005	2012
Wastewater/Collection System	C+	B

- Collection System & Treatment are distinct sections for 2012
- Condition of wastewater collection system showed a marked improvement over the 2005
- Marked improvement attributed to sweeping State Waste Discharge Requirements mandating every wastewater collection system to establish:
 - Proactive maintenance & replacement programs
 - Funding for maintenance & replacement programs

Wastewater Treatment

2005
B

2012
B+



Wastewater Treatment

2005
B

2012
B+

- Major improvements in Treatment facilities were:
 - Infrastructure Investments
 - Management System Improvements
 - Rigorous Regulatory Oversight
- Evidence of improvements are reflected in:
 - Decreased ocean discharge permit violations
 - Significantly fewer sewer spills
 - Reduction in the number of beach closures
 - Increased volume of recycled water produced



Water

2005
B

2012
B



Water

2005
B

2012
B

- Recent major investments in the Water system were:
 - Water Infrastructure Rehabilitation
 - Emergency Storage Projects
 - Water Supply Diversification
- Major challenges are:
 - Managing water rates
 - Balancing capital project funding needs against rapidly increasing water supply costs



Understanding Public Infrastructure Politics

- Infrastructure is a interwoven network of facilities
- Infrastructure is a political topic
- Thinking long-term community solutions
- Considering all factors influencing decisions
- Looking at the big picture
- Doing more with less
- Considering importance of our environment
- Continuing to demand timely maintenance

Next Steps – What Can You Do?

- Become an informed citizen
- Stay informed and regularly express your opinion
- Take advantage of the printed & electronic media
- Subscribe to online media and your local newspaper
- Support well thought out fee increases and bond programs that are proposed for public infrastructure



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