

# New River Improvement Project

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## Strategic Plan - Project Status January 12, 2016

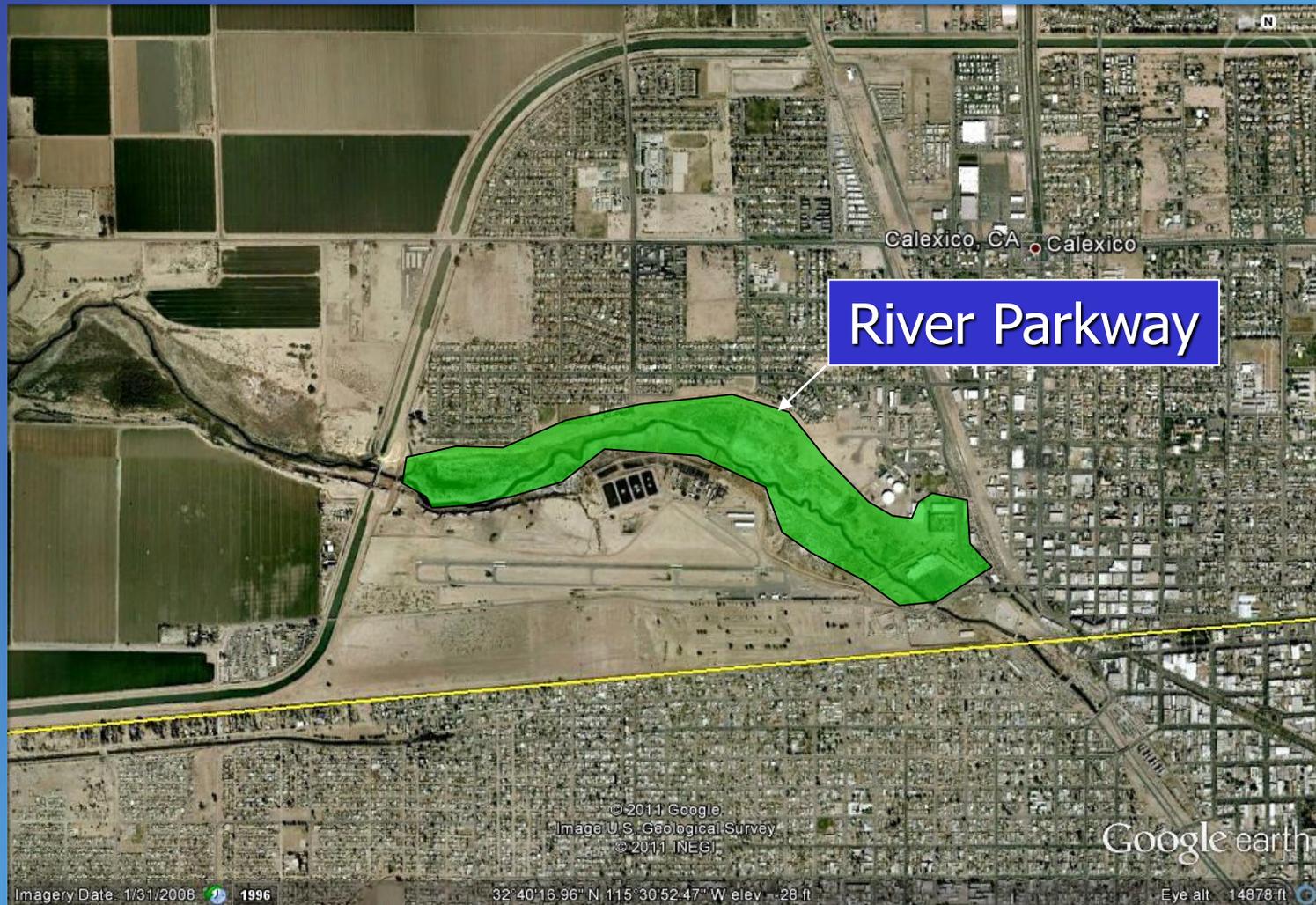


# Background

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- AB 1079 (Pub. Resources Code Section 71103.5) required the Strategic Plan
- CalEPA appoints Technical Advisory Committee
- California-Mexico Border Relations Council releases Strategic Plan Dec. 2011
  - Plan envision River Parkway in Calexico
  - Plan's remedies/strategies
    - Structural
    - Non-structural

# New River in Calexico



# Strategic Plan



Key Components

- \* River Reaches
- \* Structural Controls
- \* Non-structural Controls

Figure 1. Strategic plan Recommended Solutions

# Non-structural Recommendations

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- Implement Total Maximum Daily Loads
  - Ongoing
- Implement comprehensive regulatory program for ag runoff
  - Conditional Waiver of WDRs adopted in 1/2015
- Address feedlots in the floodplain
  - Audited all 31 feedlots in Imperial Valley
  - 16 formal enforcement actions, \$60k fine
- Integrated water quality monitoring

# New River Projects in USA

Project	Location	Projected Cost	O&M Costs/ year
Trash Screen	Calexico, immediately downstream of US-Mexico Border	\$4,000,000	\$100,000
New River Conveyance System	Calexico, from the Border to approximately City of Calexico WWTP	\$17,000,000	\$50,000
New River Disinfection Facility	Calexico, at or near City of Calexico WWTP	\$86,400,000	\$4,500,000
New River Aeration structures	Various locations, downstream from Calexico	\$250,000	<\$10,000
Constructed wetlands (11 sites, totaling 1523 acres)	Various locations, downstream from Seeley	\$50,000/ acre	\$20,000/ acre
<b>TOTAL</b>		<b>\$183,950,000</b>	<b>\$35,120,000</b>

# Current Recommendations for Calexico



# Implementation Constraints

## ■ Fiduciary

- Price tag for disinfection facility \$86M, plus \$4.5M in annual O&M
  - \$220M over 30-years

## ■ Hydrological

- Rapid decline in flows at the Border
  - 2014 flows average 106 cfs (57 mgd = 76,600 AFY)

## ■ Policy

- Alternatives exist to address public health and maximize environmental benefit (i.e., bang for the buck)

# Alternative Approach



# Alternative Approach (cont'd)

Project	Location	Projected Cost	O&M Costs/year
Trash Screen	Calexico, immediately downstream of US-Mexico Border	\$4,000,000	\$100,000
New River Conveyance System	Calexico, from the Border to approximately City of Calexico WWTP	\$17,000,000	\$50,000
Calexico WWTP Pump-back system	City of Calexico WWTP	\$1,100,000	\$10,000
New River Aeration structures	Various locations, downstream from Calexico	\$250,000	<\$10,000
Constructed wetlands (11 sites, totaling 1523 acres)	Various locations, downstream from Seeley	\$50,000/acre	\$20,000/acre
<b>TOTAL</b>		<b>\$98,650,000</b>	<b>\$30,720,000</b>

# Summary

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- Non-structural measures
  - On-going implementation
- Structural measures
  - No progress
- Consider alternate approach for Calexico
  - Substantial cost-savings (~\$221M)
  - Alternate approach addresses other COCs
  - Benefits downstream uses and Salton Sea
  - Allows River Parkway to materialize