

Goleta Beach Emergency Actions & Cost Analysis Fiscal Years 2015-2017

Community Services Department
Parks Division
April 11, 2017



Introduction

- Goleta Beach Park welcomes 1.5 million visitors annually
- Amenities include:
 - Picnic Areas and Group Areas w/BBQ's
 - Public Restrooms
 - Restaurant
 - Kayak and Paddleboard Rentals
 - Pier w/Boat Launching Facility and Tackle Shop
 - Fishing
 - Bird Watching Platform
 - Horseshoes
 - Free Parking (520 spaces)

Goleta Beach Park - 2003



Goleta Beach Park - 2007



October 2007 Storm Event

Goleta Beach Park - 2011



Looking West From Pier



Looking East Towards Pier

Storms

Major storm events occurred between 2014 to 2017 removing more than 100,000 cubic yards of sand from Goleta Beach, eroding 53,000 square feet of parkland and damaging park facilities



March 2014 - 25 year storm event

2015-16 El Niño: “One of the Most Powerful Climate Events of the Past 145 Years...”

- “New research conducted by U.S. Geological Survey (USGS) scientists and their colleagues at UC Santa Barbara and six other institutions found that **during the 2015-16 El Niño winter beach erosion on the Pacific coast was 76 percent above normal, and that most beaches in California eroded beyond historical extremes**” (UCSB The Current 2017).

<http://www.news.ucsb.edu/2017/017603/beach-bashing>

Storms - 2015



December 11, 2015 – El Niño

Storms - 2016



February 2016 - El Niño

Storms - 2016



Installation of Geotextile April 2016
Cost \$350,000

Storms - 2016



May 2016

Storms - 2016



Geotextile Exposed From High Swells
November 25, 2016

Storms - 2017



February 2017
Geotextile Damage

Storms – 2017: Sewer Vault Exposed



Goleta Sanitary District
4 Million Gallons Daily of Secondary Treated Wastewater
Sewer Vault Exposed – February 2017

Storms – 2017: Sewer Vault Cover

GSD Vault



Sewer Vault Rock Protection Installed by Goleta Sanitary District
February 2017

Storms - 2017



March 6, 2017
\$725,000 approximate cost for
rock installation and monitoring

Goleta Beach Park



© Sylvester 2016

May 2016

Goleta Beach Park



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Added 948 foot Revetment
March 2017

Goleta Beach Park

3 Emergency Permits 2017

1. Emergency Permit (Jan 27)
 - Sand Berm
 - *Cost \$75,000
2. Emergency Permit (Feb 14)
 - Rock Revetment in front of Restroom and Parking Lot 3
 - *Cost \$451,000
3. Emergency Permit (Feb 22)
 - Rock Revetment for Geotextile and Pier Base Area
 - Included Goleta Sanitary District major sewer vault and outfall additional rock protection
 - *Cost \$424,000

*Total Cost \$950,000 inclusive of construction and monitoring

1. Emergency CDP G-4-17-0004 January 27, 2017 Sand Berm



Eroded Central Park - Berm
West of Restaurant
January 2017



Eroded Central Park – Berm
January 2017

Cost \$75,000

2. Emergency CDP G-4-17-0013 February 14, 2017 Rock Revetment – Central Park Area



Rock fronting restroom
February 2017



Rock protecting Parking Lot 3
Beachside Cafe – February 2017

Cost \$451,000

3. Emergency CDP G-4-17-0015 February 22, 2017 Rock Revetment – Geotextile



Revetment installation in front of Geotextile

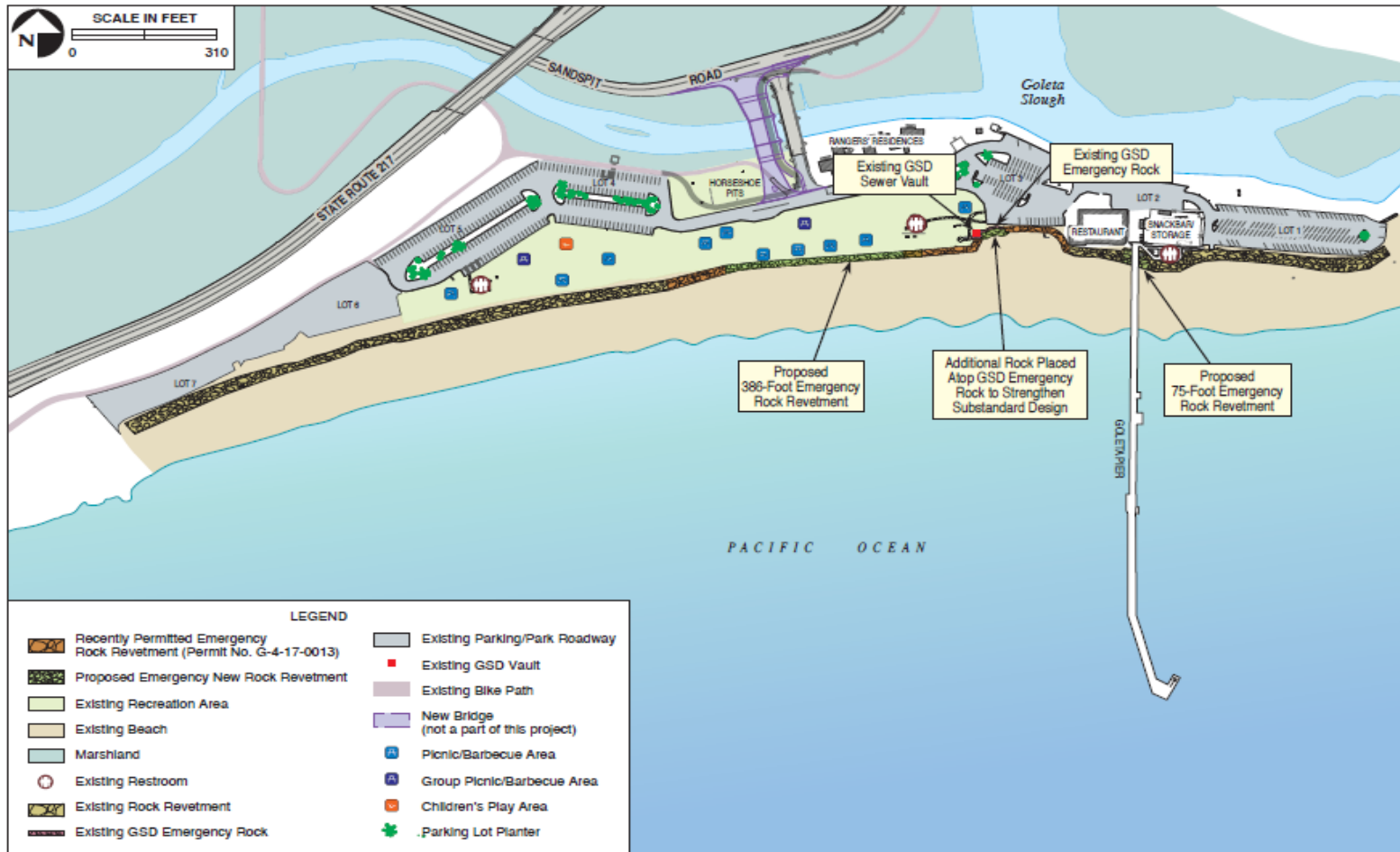
Cost \$424,000 (Geotextile & Pier)

3. Emergency CDP G-4-17-0015 February 22, 2017 Rock Revetment – Pier



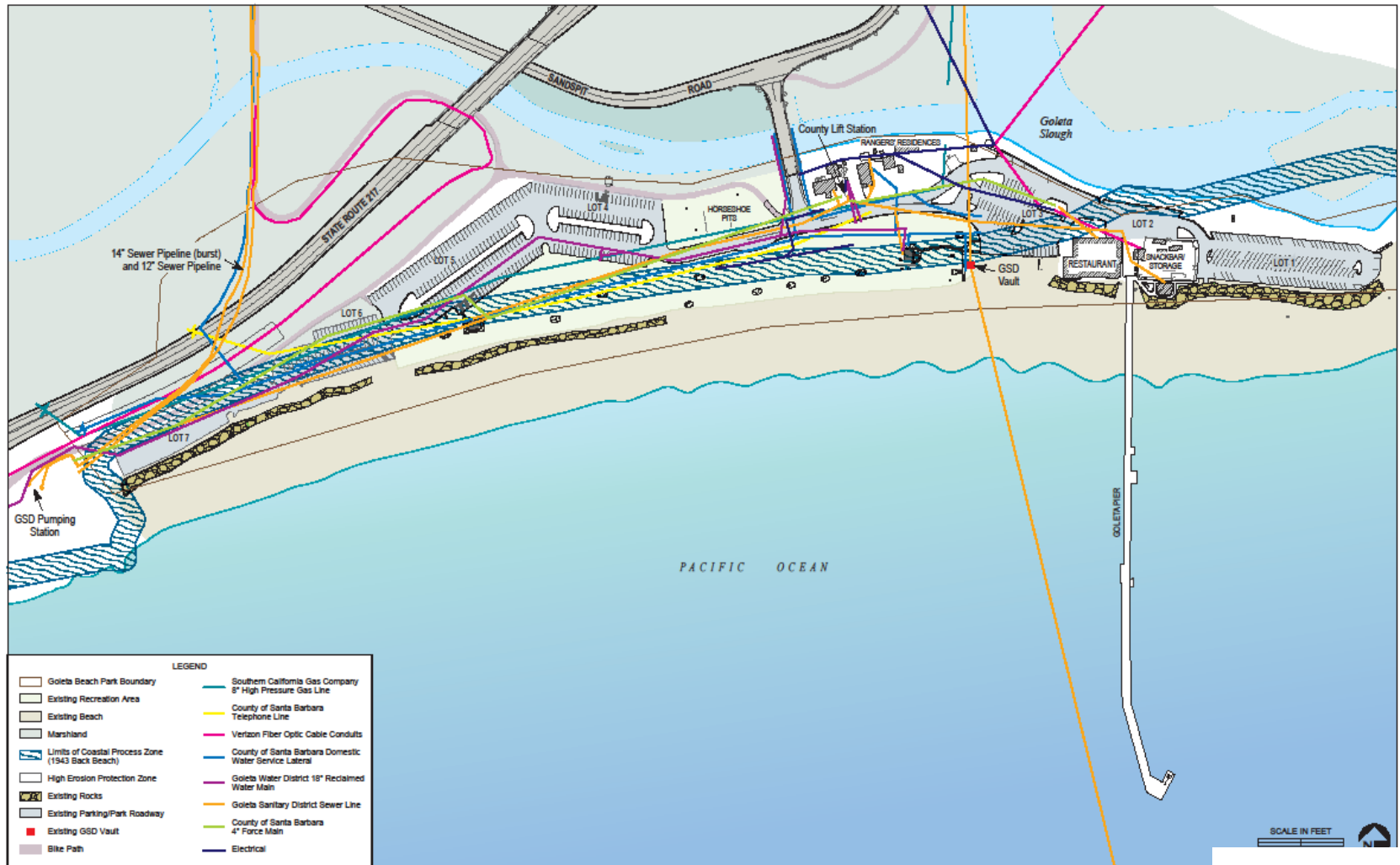
Cost \$424,000 (Geotextile & Pier)

Revetment Map



Shows permanent and new emergency rock
March 2017

Utilities Map



Existing Locations of Utilities at Goleta Beach County Park



Goleta Beach Park



Goleta Beach Park - 2011



Added 948 foot Revetment - 2017

Staff to Address Beach Access

Goleta Beach Costs: Fiscal Years 2015-2017

Costs		Fiscal Year
Emergency	\$ 725,000	2015-2016
Required CDP Work	\$ 377,000	2016-2017
Emergency	\$ 950,000*	2016-2017
TOTAL:	\$ 2,052,000	

*Funds encumbered January 27-March 2017

Fiscal Year 2015-2016: Emergency Costs

Description	Cost	Fund Source
Emergency Sand Berm	\$ 230,000	CIAP* Grant
Emergency Geotextiles	\$ 280,000	CIAP Grant
Revetment Repair	\$ 120,000	CIAP Grant
Consultant & Permit Fees	\$ 95,000	CIAP Grant
TOTAL:	\$ 725,000	

*CIAP – Coastal Impact Assistance Program (Federal)

Fiscal Year 2016-2017: Permit* Required Work

Description	Cost	Fund Source
Permit Amendment	\$ 50,000	CIAP Grant
Annual Surveys/Reports	\$ 60,000	Project Funds
State and Federal Agency Permits/Studies	\$ 35,000	Project Funds
Revetment Coverage (Consultants & Permits)	\$ 65,000	Project Funds
Revetment Coverage (6,000cy excavated / 2,000cy hauled / 1,000cy placed)	\$ 127,000	Def Maintenance**
Revetment Sand Haul/Storage (3,000cy - from Santa Barbara Harbor)	\$ 40,000	Def Maintenance**
TOTAL:	\$ 377,000	

*Coastal Development Permit (CDP) 4-14-0687

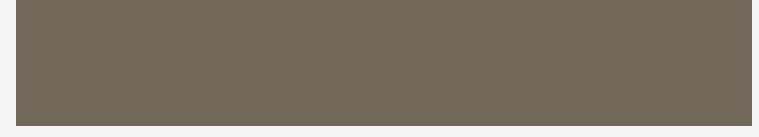
**Affects implementation of planned deferred maintenance projects

Fiscal Year 2016-2017: Emergency Costs

Description	Cost
Sand Berm / Facility Repairs	\$ 65,000
Emergency Rock Placement	\$ 662,000
Emergency Pier Area Repairs	\$ 138,000
Bio & Construction Monitoring, Engineering & Emergency Permits (for rock revetment and pier area repairs)	\$ 85,000
TOTAL ENCUMBERED**:	\$ 950,000

*Affects implementation of planned deferred maintenance projects

**Potential reimbursement from FEMA (75%) and CalEMA (18.75%): 93.75% (\$890,625)



Fiscal Year 2016-2017: Emergency Funding Sources

Emergency Funding Source	Cost
Department (CSD) Deferred Maintenance	\$ 180,000
Department (CSD) Savings	\$ 120,000
Department (CSD) Fund Balance	\$ 300,000
Committed General Fund - Contingencies	\$ 350,000
TOTAL ENCUMBERED**:	\$ 950,000

*Affects implementation of planned deferred maintenance projects

**Potential reimbursement from FEMA (75%) and CalEMA (18.75%): 93.75% (\$890,625)

Possible Additional Cost Fiscal Years 2017-2018

- Park Re-Build (2017 storm)
 - \$600,000 estimate (parking lot 3, turf, irrigation, pier)
 - Unfunded and not included in Emergency Work
- Community engagement workshops
 - \$75,000 estimate
- CDP Amendment (2017 Emergency Permits)
 - \$50,000 estimate
 - Not included in Emergency Work noted in previous slides
- Removal of Emergency Work from Jan/Feb 2017
 - \$500,000 estimate
 - Location of rock disposal unknown

Next Steps

- Staff seeking a time extension for emergency permits with CCC to September 30, 2017
- Coastal Engineer to review and evaluate
 - Existing data
 - Effects of the emergency revetments on beach width and beach access
- Continue to coordinate efforts with Goleta Sanitary District regarding sewer vault protection emergency permit and possible relocation
- Analyze and evaluate all possible future beach and park adaptive management options
- Coordinate community engagement workshops
- Staff to return to Board August or September to present adaptive management options and seek direction