

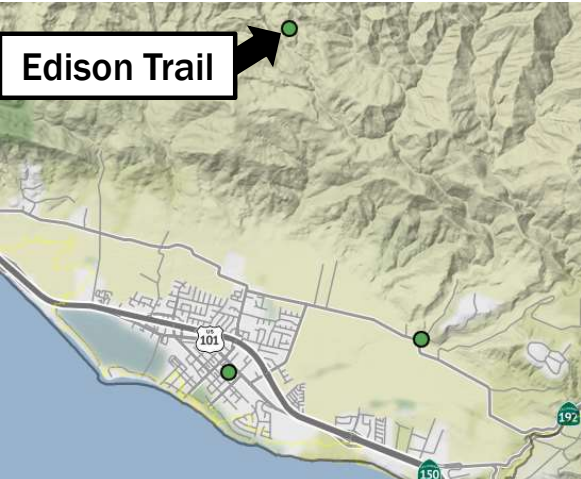
SANTA BARBARA COUNTY FLOOD CONTROL DISTRICT

Emergency Beach Operations



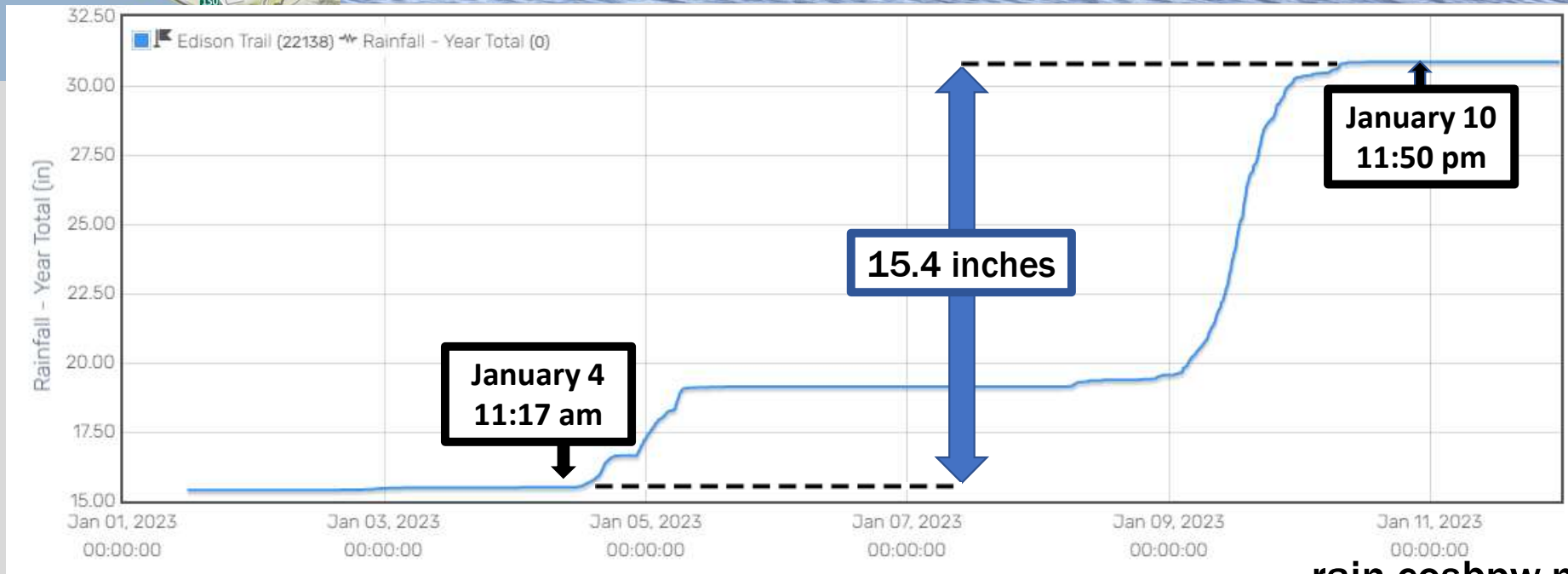
BEACON MEETING
MARCH 17, 2023





JANUARY 2023

Intense Storms: resulted in 15+ inches of rainfall in the foothills



GOBERNADOR BASIN



Pre
January 2023
storms



GOBERNADOR BASIN



Post
January 2023
storms



SANTA MONICA BASIN



Pre
January 2023
storms

SANTA MONICA BASIN



Post
January 2023
storms

SANTA MONICA BASIN



During
January 2023
storms

ATASCADERO CHANNEL

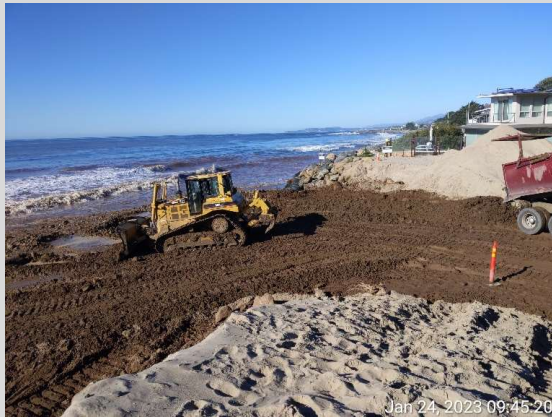


**Post
January 2023
storms**



Jan 5, 2023 15:32:54

EMERGENCY BEACH OPERATIONS



- Goleta Beach (SB County Parks) and Ash Ave Beach (City of Carpinteria)
- Sediment samples at source-locations
 - Grain size
 - Chemical constituents
- Sediment sorting at source-location
 - Remove logs, boulders, incompatible material



ENVIRONMENTAL CONTROLS

- Onsite beach-monitoring
- Truck inspectors at source and destination
- Beach composite sediment samples
 - Grain size – lab
 - Chemical constituents – lab
 - VOC (volatile organic compounds) – at beach
- Beach water quality samples
 - Bacteria, Ammonia
- Wildlife (including grunion) surveys



CHALLENGES

- Emergency urgency
- Pending storms
- Lab delays
- Public outreach
- Neighborhood impacts
- Street cleanliness
- Beach access
- Work hours
- Truck tracking



OEC Report Header:

Client	Project	Location	Start Date	End Date
City of San Diego	San Diego Bay	San Diego, CA	01/01/2023	01/31/2023

Table with 5 columns: Date, Time, Location, Status, and Temperature. The table contains data for various dates and times, including 01/01/2023, 01/02/2023, 01/03/2023, 01/04/2023, 01/05/2023, 01/06/2023, 01/07/2023, 01/08/2023, 01/09/2023, 01/10/2023, 01/11/2023, 01/12/2023, 01/13/2023, 01/14/2023, 01/15/2023, 01/16/2023, 01/17/2023, 01/18/2023, 01/19/2023, 01/20/2023, 01/21/2023, 01/22/2023, 01/23/2023, 01/24/2023, 01/25/2023, 01/26/2023, 01/27/2023, 01/28/2023, 01/29/2023, 01/30/2023, 01/31/2023.



There is always potential for flooding even when basins and creeks are fully maintained.

CARPINTERIA BEACH (ASH AVE)



GOLETA BEACH



TURBIDITY MONITORING



Carpinteria Post-Project



Goleta Post-Project

CARPINTERIA BEACH (ASH AVE)

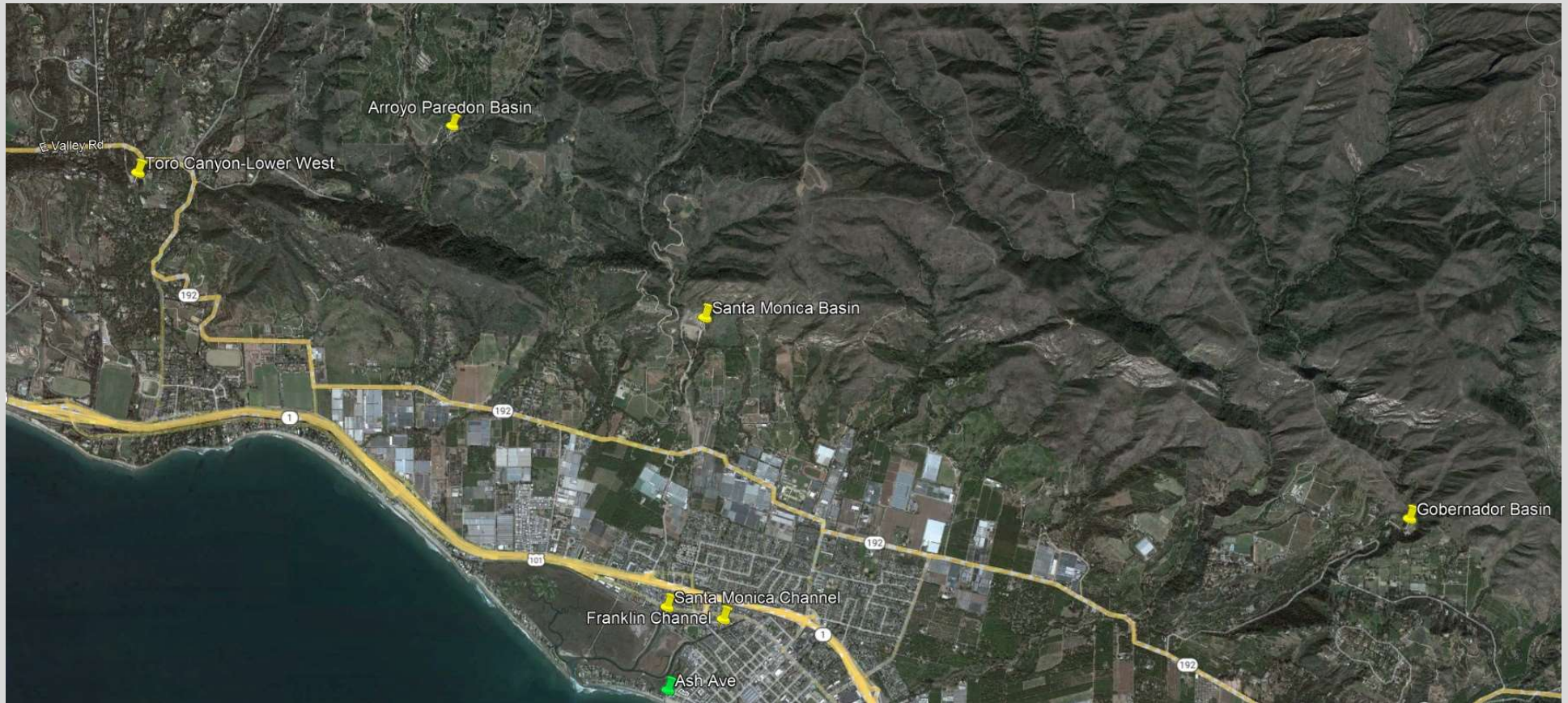
Sediment Source Locations and Volumes

Source	Sediment Volume (Cubic Yards)
Arroyo Paredon Basin	4,104
Franklin Channel	6,311
Gobernador Basin	6,764
Toro Canyon-Lower West	3,501
Romero Basin	90
Santa Monica Basin	25,541
Santa Monica Channel	356

TOTAL 46,667 Cubic Yards

CARPINTERIA BEACH (ASH AVE)

Sediment Source Locations (1/4 to 4 miles)



GOLETA BEACH

Sediment Source Locations and Volumes

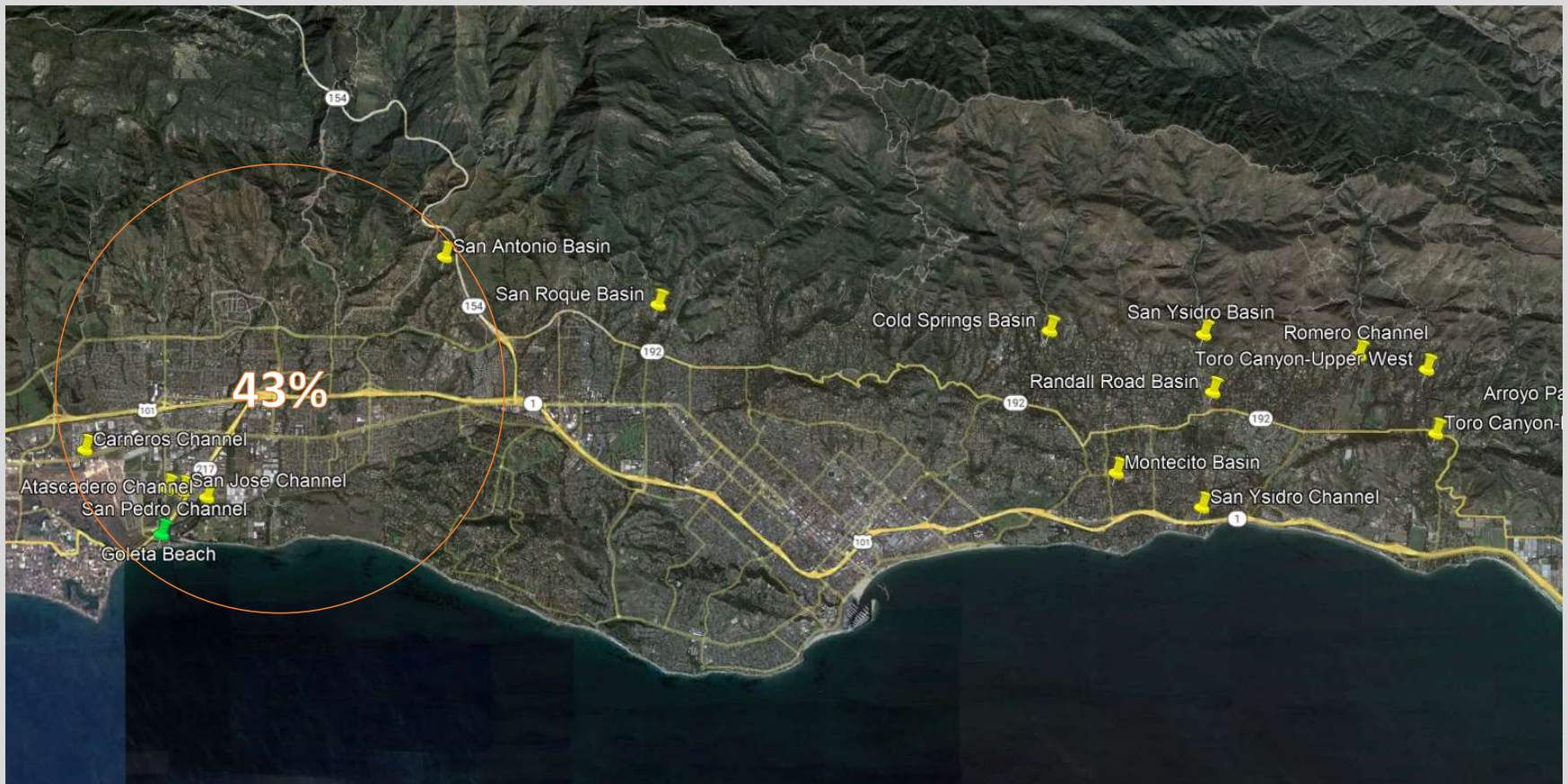
Source	Sediment Volume (Cubic Yards)
Arroyo Paredon Basin	18
Atascadero Channel	4,626
Carneros Channel	1,145
Cold Springs Basin	16,457
Montecito Basin	3,267
Randall Road Basin	15,291
Romero Channel	1,773
San Antonio Basin	6,462

Source	Sediment Volume (Cubic Yards)
San Jose Channel	21,213
San Pedro Channel	15,767
San Roque Basin	13,756
San Ysidro Basin	5,058
San Ysidro Channel	3,816
Santa Monica Basin	117
Toro Canyon-Lower West	4,005
Toro Canyon-Upper West	657

TOTAL 113,427 Cubic Yards

GOLETA BEACH

Sediment Source Locations (1/4 to 10 miles)



WORKING DAYS

Carpinteria Beach

- Hauling: Jan 17 – Mar 5
- Total hauling days: 37
- Final cleanup estimated 3/17/23
- Total: 59 days

Goleta Beach

- Hauling: Jan 11 – Mar 9
- Total hauling days: 38
- Final cleanup estimated 3/20/23
- Total: 68 days

ALTERNATE LOCATION?

- **Tajiguas Landfill**
 - Equipped for municipal waste and recycling, not sediment
 - Sediment from January 2023 storms = approximately 160,000 cubic yards
 - 40% of the annual landfill capacity
 - Truck traffic, emissions, haul time
 - 18 - 34 miles vs 1/4 to 10 miles

FUTURE

- Spring beach grooming
- Living shoreline
- Receiver beach sediment samples and monitoring
- Biological monitoring transects
- Permit updates
- Continue annual Flood Control maintenance

GOALS

- Programmatic sediment delivery
- There will always be emergency events
- Preparedness – through annual routine maintenance and as-needed maintenance

www.countyofsb.org/emergencybeachops