

# Improving Water Quality in the Tijuana River Valley

## Project #6: Construct New Infrastructure to Address Trash and Sediment

### Overview

This project involves the construction of infrastructure along the Tijuana River, Smuggler’s Gulch, and Yogurt Canyon to reduce sediment and trash deposition into the Tijuana River Estuary. Trash booms and sediment basins adjacent to or within the main channel of the Tijuana River and Smuggler’s Gulch (U.S.- or Mexico-side) are being considered along with flood mitigation infrastructure in Yogurt Canyon.

### Project at a Glance

<b>Location of Operations</b>	United States and possibly Mexico
<b>Entry Points Addressed</b>	Tijuana River, Cross-Border Canyons
<b>Targeted Pollutant(s)</b>	Trash, Sediment

### Will this project increase public health and beach water quality?

This project will reduce trash and sediment but is not expected to reduce sewage.

### Does this project improve work conditions for government activities?

Expected improvements to U.S. Navy personnel training conditions and U.S. Border Patrol activities are unquantifiable.

	Trash <sup>1</sup>	Sediment <sup>2</sup>	Yogurt Canyon <sup>3</sup>
<b>COST ESTIMATES</b>			
Capital	\$ 0.5M – 4M	\$ 1M – 50M	\$ 3M
Annual O&M <sup>4</sup>	\$ 0.03M – 6M	\$ 0.2M – 49M	\$ 5K
40-year lifecycle	\$ 1M – 156M	\$ 9M – 1.7B	\$ 3.5M

<b>TRANSBOUNDARY TIJUANA RIVER IMPACT<sup>5</sup> (Annual Benefit)</b>			
Flow day reduction	–	–	–
Flow rate reduction	–	–	–
Sewage reduction <sup>6</sup>	–	–	–

<b>SAB CREEK IMPACT<sup>5</sup> (Annual Benefit)</b>			
Reduction in flow rate	–	–	–
Sewage reduction	–	–	–

<b>BEACH CLOSURE IMPACTS<sup>5</sup> (Annual Benefit)</b>			
Closure reduction <sup>7</sup>	–	–	–

<b>LEGEND</b>			
<sup>1</sup> Trash: Installation of trash booms in the Tijuana River Main Channel and Smuggler’s Gulch			
<sup>2</sup> Sediment: Strategically placed sediment basins in the US and Mexico			
<sup>3</sup> Yogurt Canyon: Pilot channel in Yogurt canyon or modification to Monument Road			
<sup>4</sup> O&M: Operations and maintenance			
<sup>5</sup> Impacts are unquantifiable			
<sup>6</sup> Estimates of sewage reduction are based on the reduction of BOD (biochemical oxygen demand), a standard surrogate for sewage			
<sup>7</sup> Beach closure reduction estimates are based on Scripps Institution of Oceanography models			

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