### **USMCA Tijuana River Watershed**

### **Public Information Meeting**

Date & Time: February 26, 2021, 10:00 am to 12:00 pm PT (1:00 -3:00 pm ET)

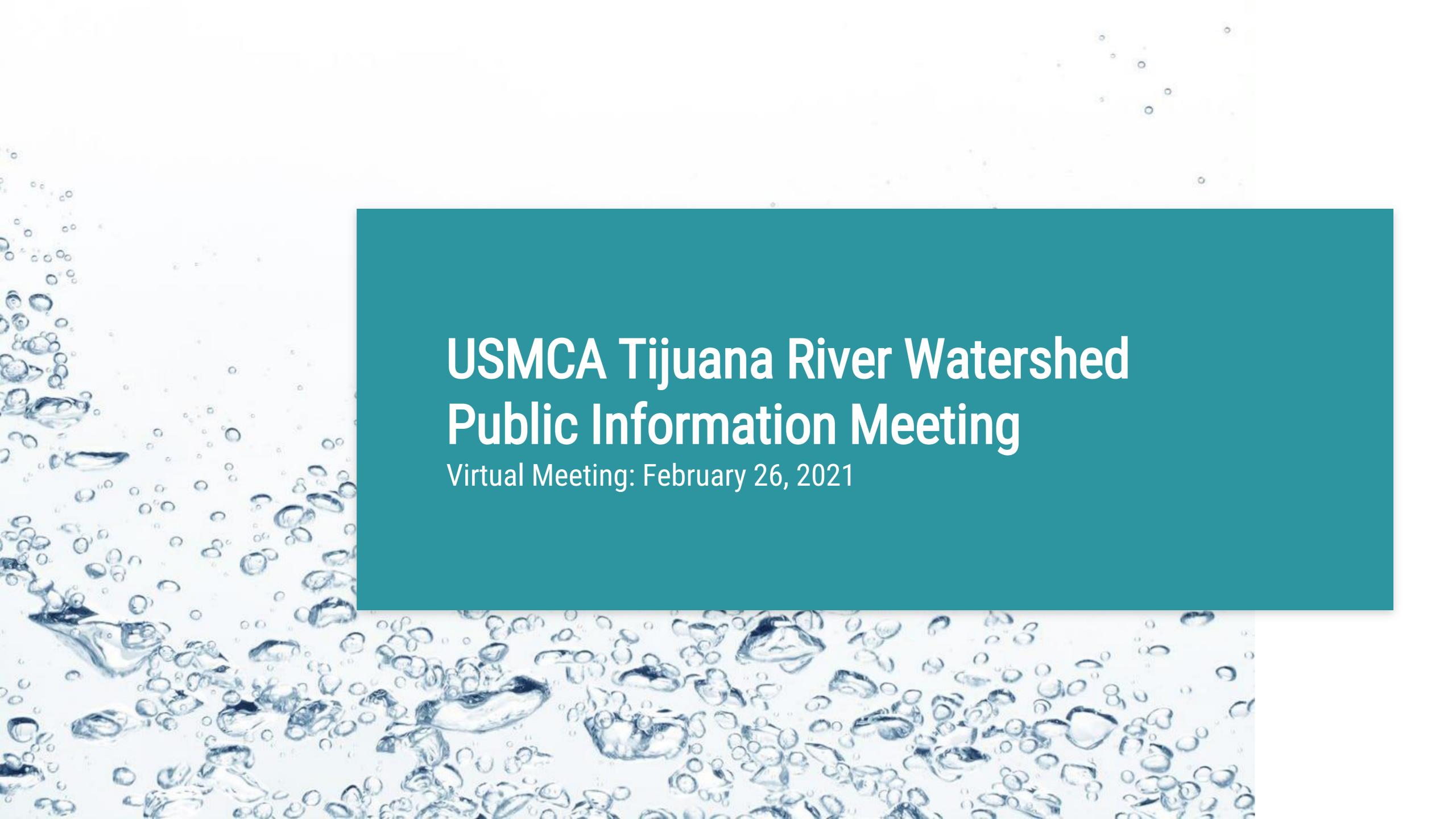
Virtual Meeting Link: Click here to join the meeting

**Goal:** Provide an overview of transboundary pollution issues facing the Tijuana River Valley, status of short- and long-term treatment projects being evaluated, and forthcoming NEPA process.

Time	Agenda Topic	Lead	
10:00- 10:10am	Welcome and Overview	Andrew Sawyers, Director of the EPA Office of Wastewater Management	
		Dave Smith, Water Division Assistant Director, EPA Region 9	
10:10-	Update on Short Term Impact Projects	Dave Smith, Water Division	
10:20am	Objective: Report on development of short-term impact projects.	Assistant Director, EPA Region 9	
10:20- 10:35am	Technical Analysis Overview	Doug Liden, Environmental Engineer, EPA Region 9	
	Objective: Provide a knowledge foundation and a general overview of the process and projects.	g,g	
	Overview of key terms and impacts to the Tijuana River Valley     Overview of projects		
	Overview of projects		
10:35- 11:10am	Technical Analysis Overview: Treatment Projects & Evaluation Approach	James Hollibaugh and Tom Rowlett, PG Environmental	
	Objective: Review the technical analysis approach and the projects identified for inclusion in the evaluation.		

• Description of ongoing technical assessment

11:10- 11:20am	NEPA Public Scoping	Tom Konner, Environmental	
	Objective: Provide an overview of the Environmental Review process and timeline.	Engineer, EPA Region 9	
11:20- 11:55am	Question and Answer Session	Jake Strickler, EPA Office of General Counsel's	
11.000		Conflict Prevention and	
		Resolution Center	
11:55 am-		Andrew Sawyers, Director	
12:00pm		of the EPA Office of	
	EPA Closing Remarks	Wastewater Management	
		Dave Smith, Water Division	
		Assistant Director, EPA	
		Region 9	
		Region 9	





## Welcome & Overview

## **Andrew Sawyers**

Director of EPA Office of Wastewater Management

## **Dave Smith**

Water Division Assistant Director, EPA Region 9

# Short Term Projects - Update Dave Smith, Water Division Assistant Director, EPA Region 9



## Short Term River Diversion

- Planned to capture dry weather transboundary flows, treat at International Treatment Plant (ITP)
- Dry weather transboundary flows largely ceased Summer-Fall 2020
- ITP regularly treated more sewage from MX than its 25 MGD rated capacity
- Stressed treatment plant systems
- Deferring planning for this project for time being

## - Smugglers Gulch Sediment and Trash Capture Facility

- Would address trash and sediment crossing border
- County lead with support from City of San Diego, Regional Water Board
- EPA provided technical assistance to help grant application
- County applied in January for CA Coastal Conservancy grant to fund design and construction
- Awaiting CCC decision on grant application
- Confer with CBP, other agencies, and stakeholders







## What pollutants are in this flow?

- Untreated wastewater, often referred to as sewage, enters the flow due to insufficient capture and treatment, aging wastewater collectors, trash-blocked manholes and canyon collectors, lack of a stormwater drainage system, and unserved homes.
- Trash produced by the urban area in and surrounding the city of Tijuana in Mexico, when not properly disposed, enters the flow.
- Sediment loading increases with wet-weather events, conveying eroded soil from the canyons and upstream of the Tijuana River.





## What are the negative impacts of these pollutants?

- Public Health & Beach Water Quality:
  - Untreated wastewater contains harmful pathogens that pose significant risk to human health.
  - Local governments mandate beach closures to minimize human contact with untreated wastewater.

## - Wildlife & Habitat:

Wildlife impacted by the degradation of their riparian, marine, and estuarian habitats.

## Government Activities:

 U.S. Navy and Customs and Border Protection personnel are occasionally exposed to untreated wastewater as part of their job duties





10 Projects that address treatment, conveyance, and/or source control

## Project Title

- 1. New Tijuana River Diversion System in the U.S. and Treatment in the U.S.
- 2. Expand and Upgrade Tijuana River Diversion System in Mexico and Provide Treatment in the U.S.
- 3. Treat Wastewater from the International Collector at the ITP
- Shift Wastewater Treatment of Canyon Flows to U.S. (via Expanded ITP or SBWRP) to Reduce Flows to SAB (Complements Projects 3 and 9)
- 5. Enhance Mexico Wastewater Collection System to Reduce Flows into Tijuana River
- 6. Construct New Infrastructure to Address Trash and Sediment During Wet Weather Flows
- 7. Divert or Reuse Treated Wastewater from Existing Wastewater Treatment Plants in Mexico to Reduce Flows into the Tijuana River
- 8. Upgrade SAB Wastewater Treatment Plant to Reduce Untreated Wastewater to Coast
- 9. Treat Wastewater from the International Collector at the SBWRP
- 10. Sediment and Trash Source Control





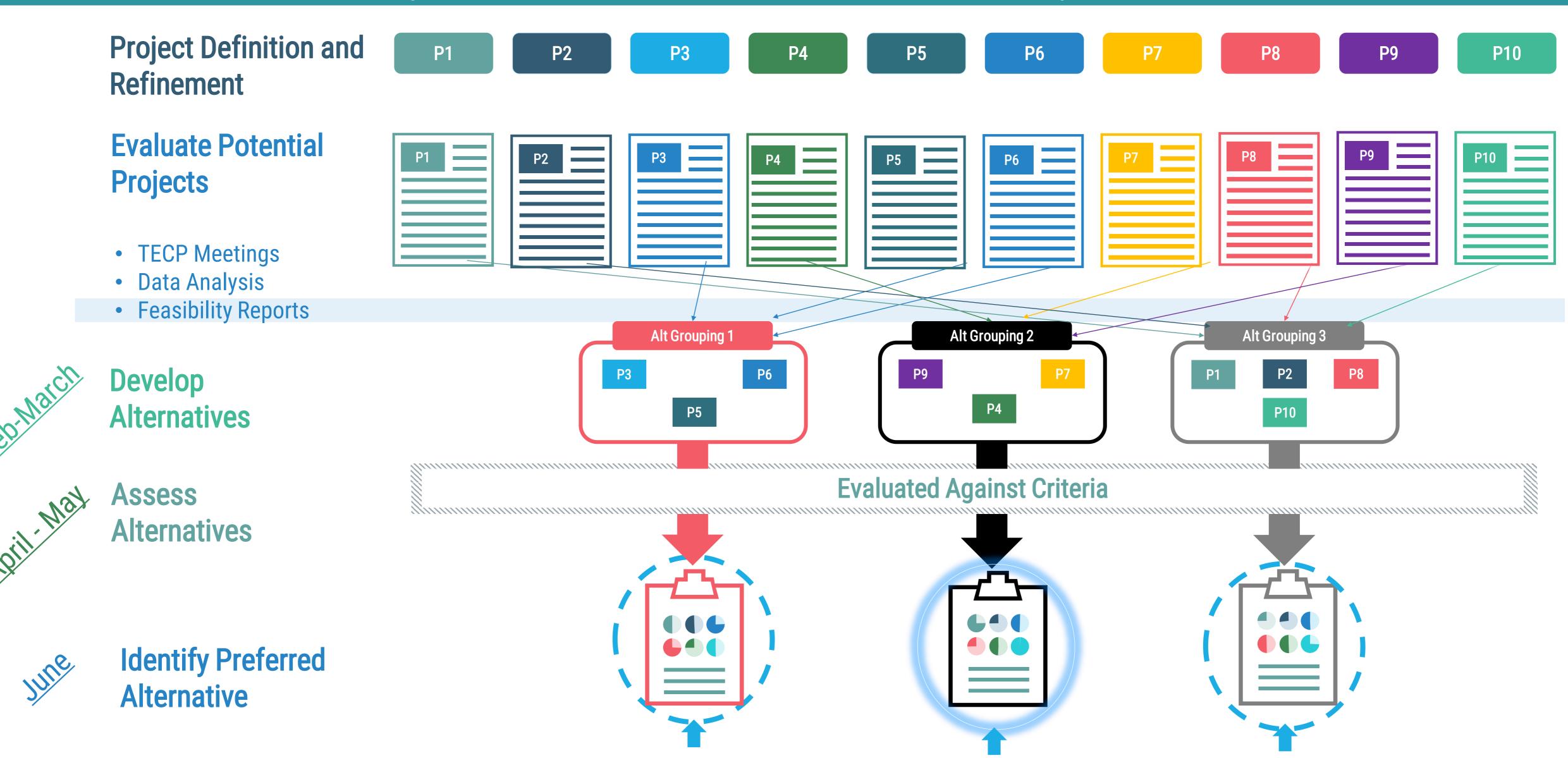
- Focus primarily on solutions that have the highest potential to:
  - Mitigate transboundary wastewater flows
  - Protect public health
- Focus on Tijuana River and coastal flows

## **Project Title**

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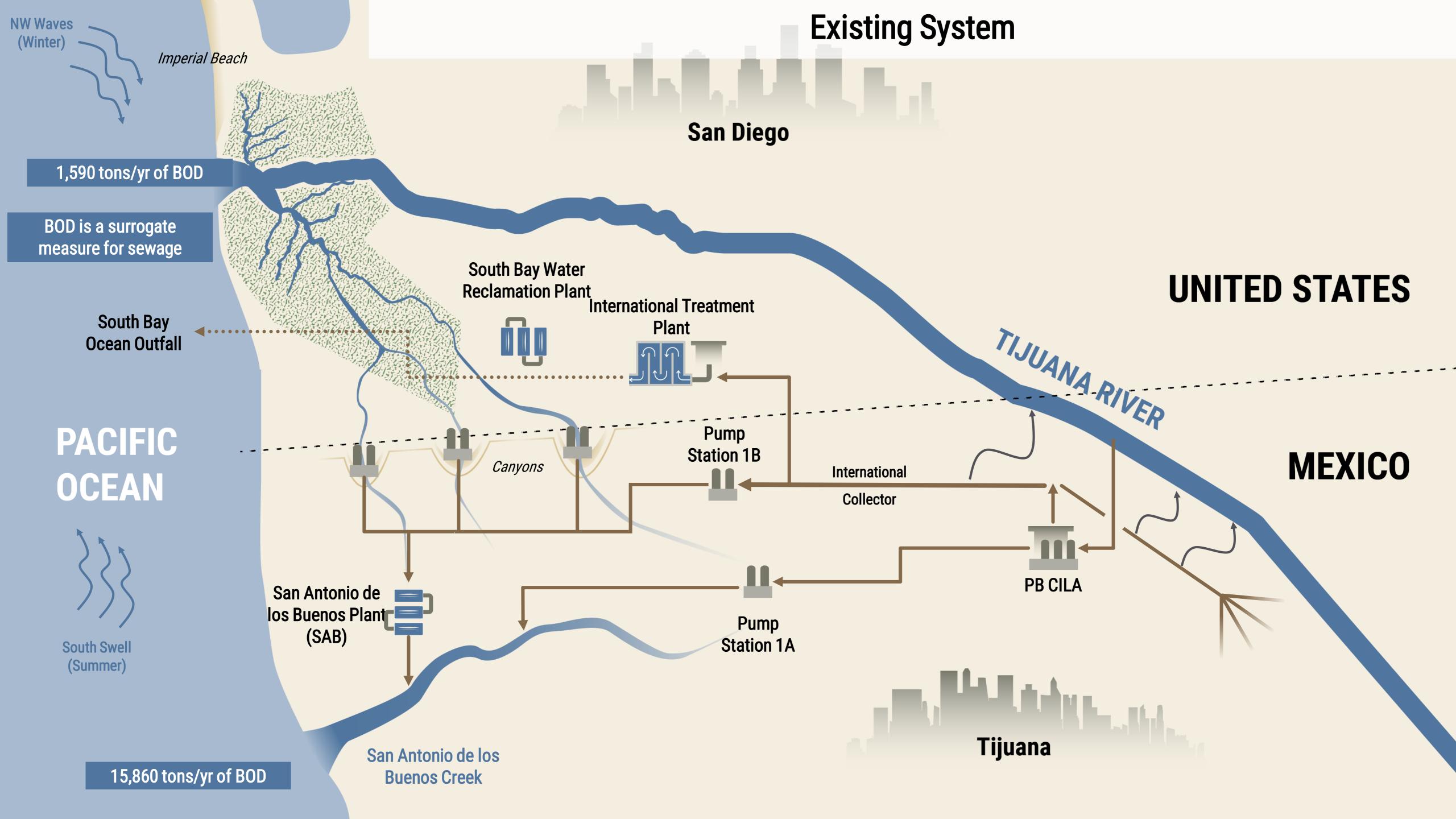


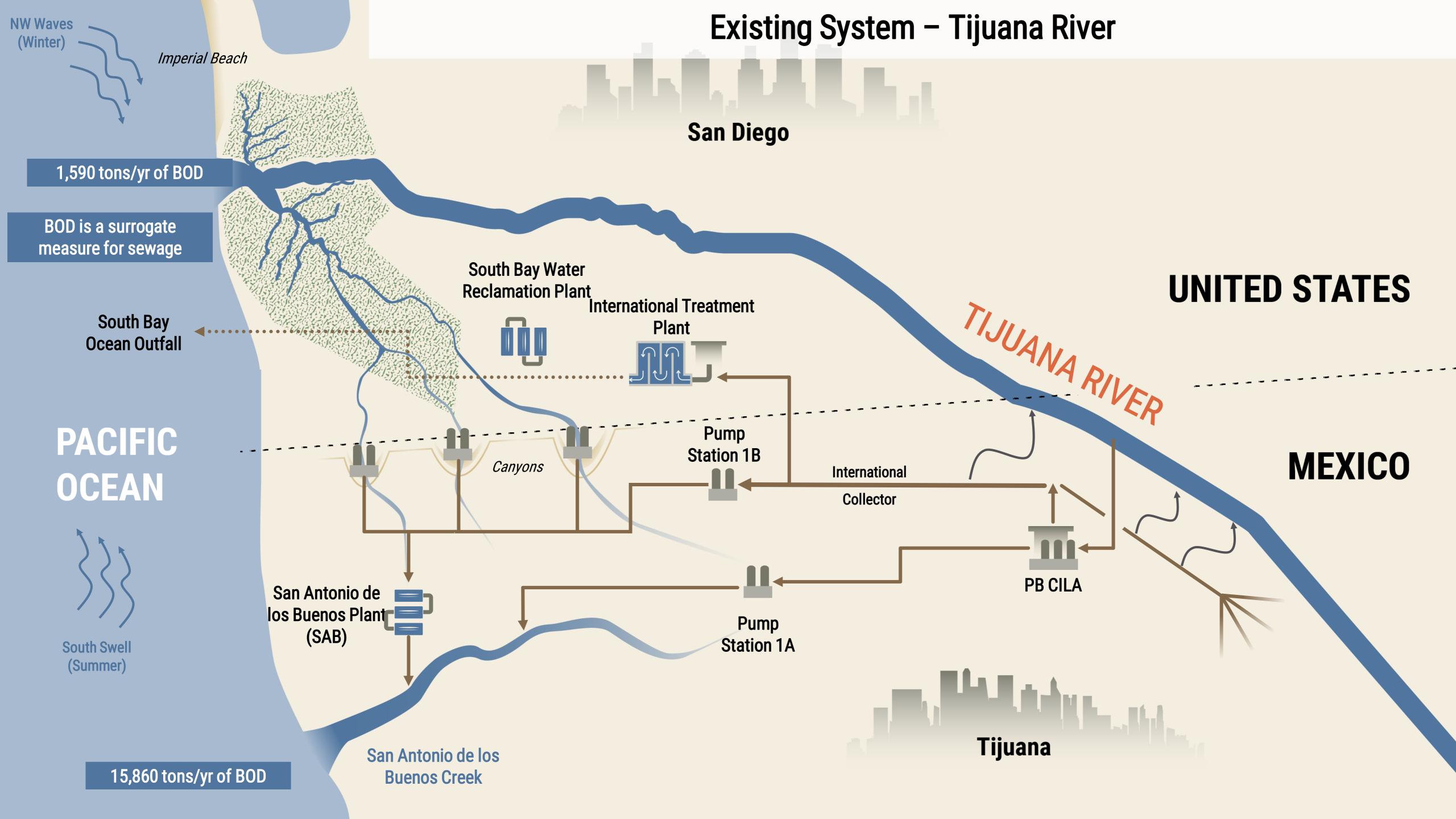
## USMCA Tijuana River Infrastructure Technical Analysis Milestones

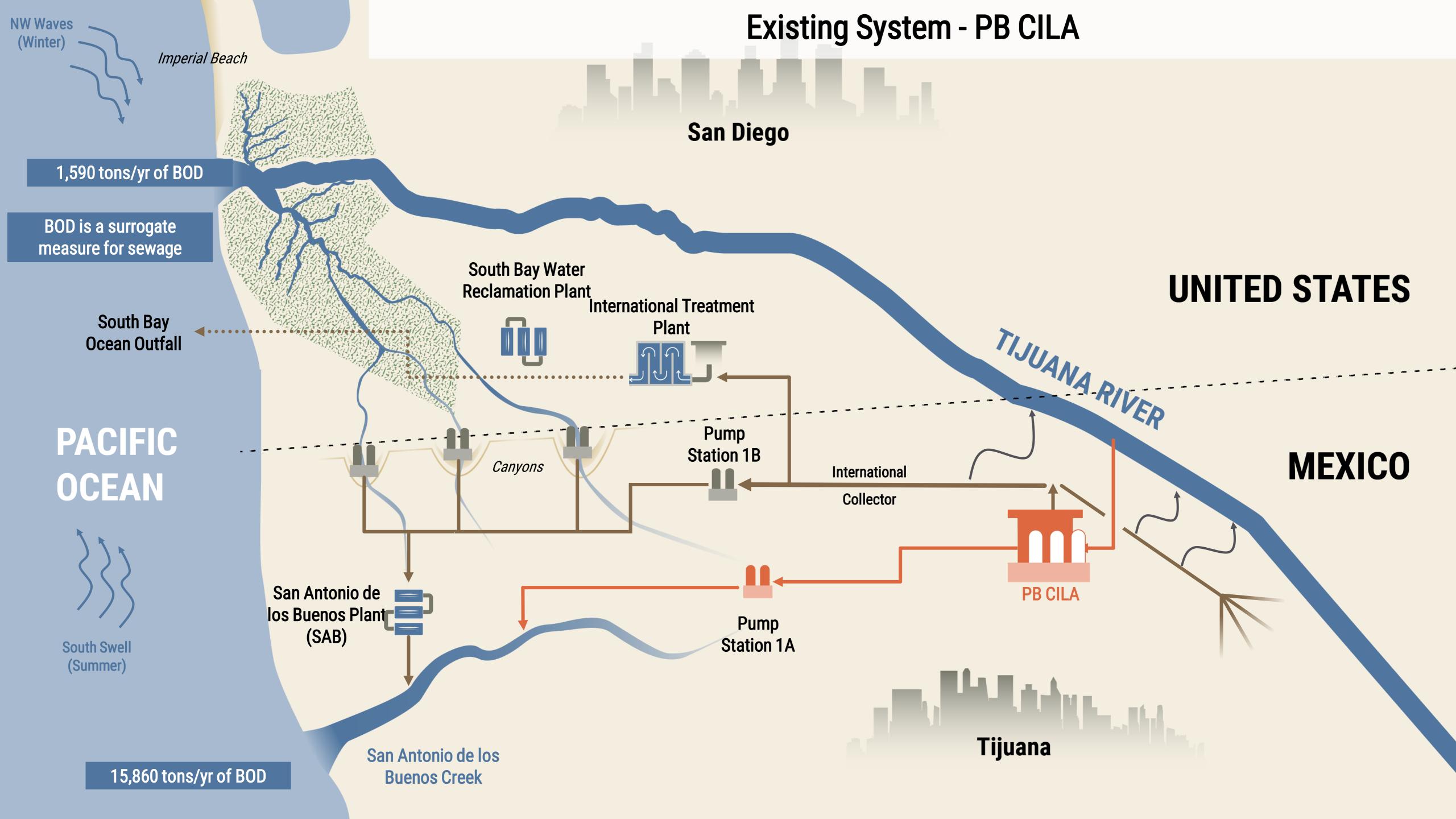


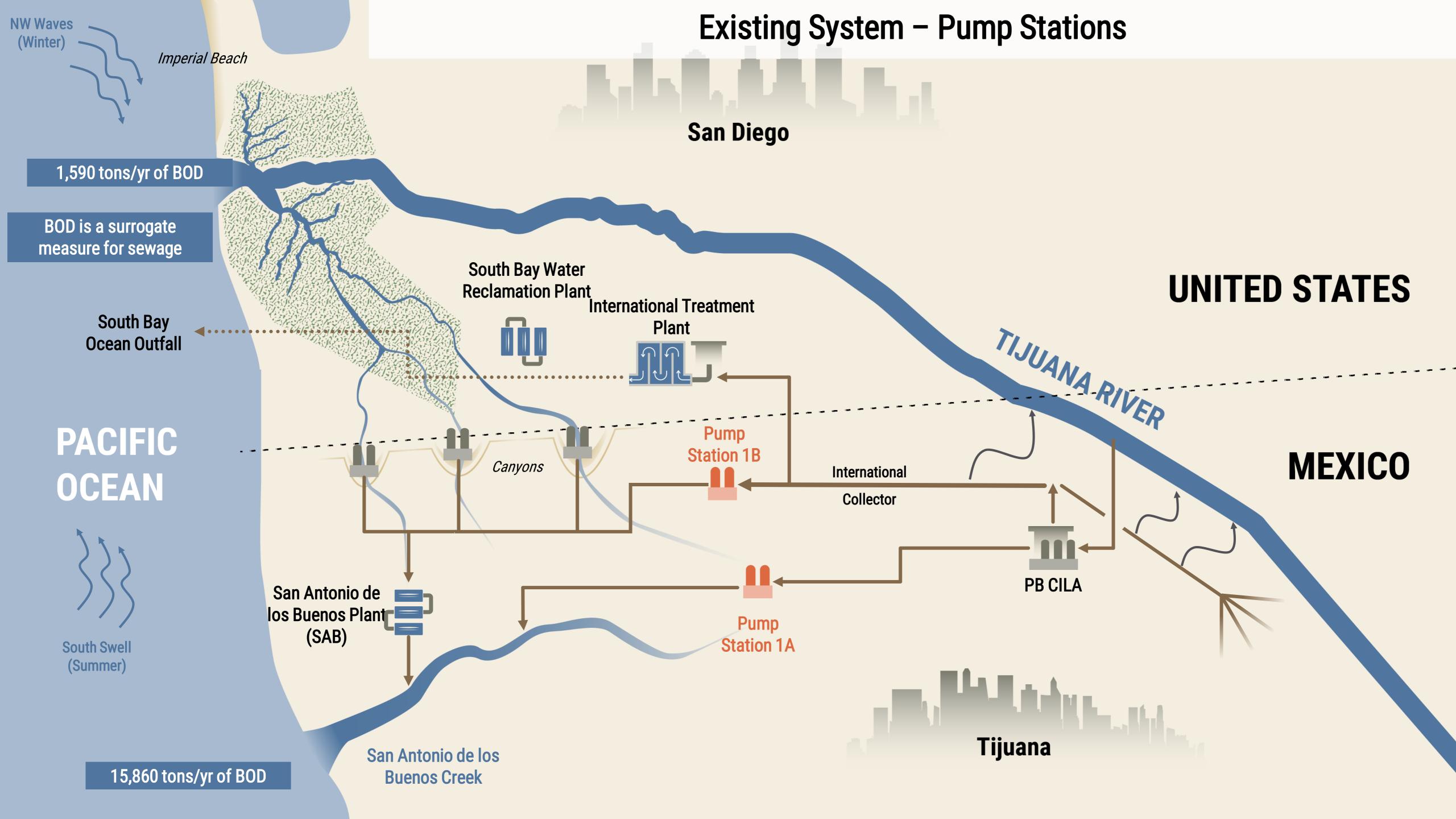
## Existing System Overview

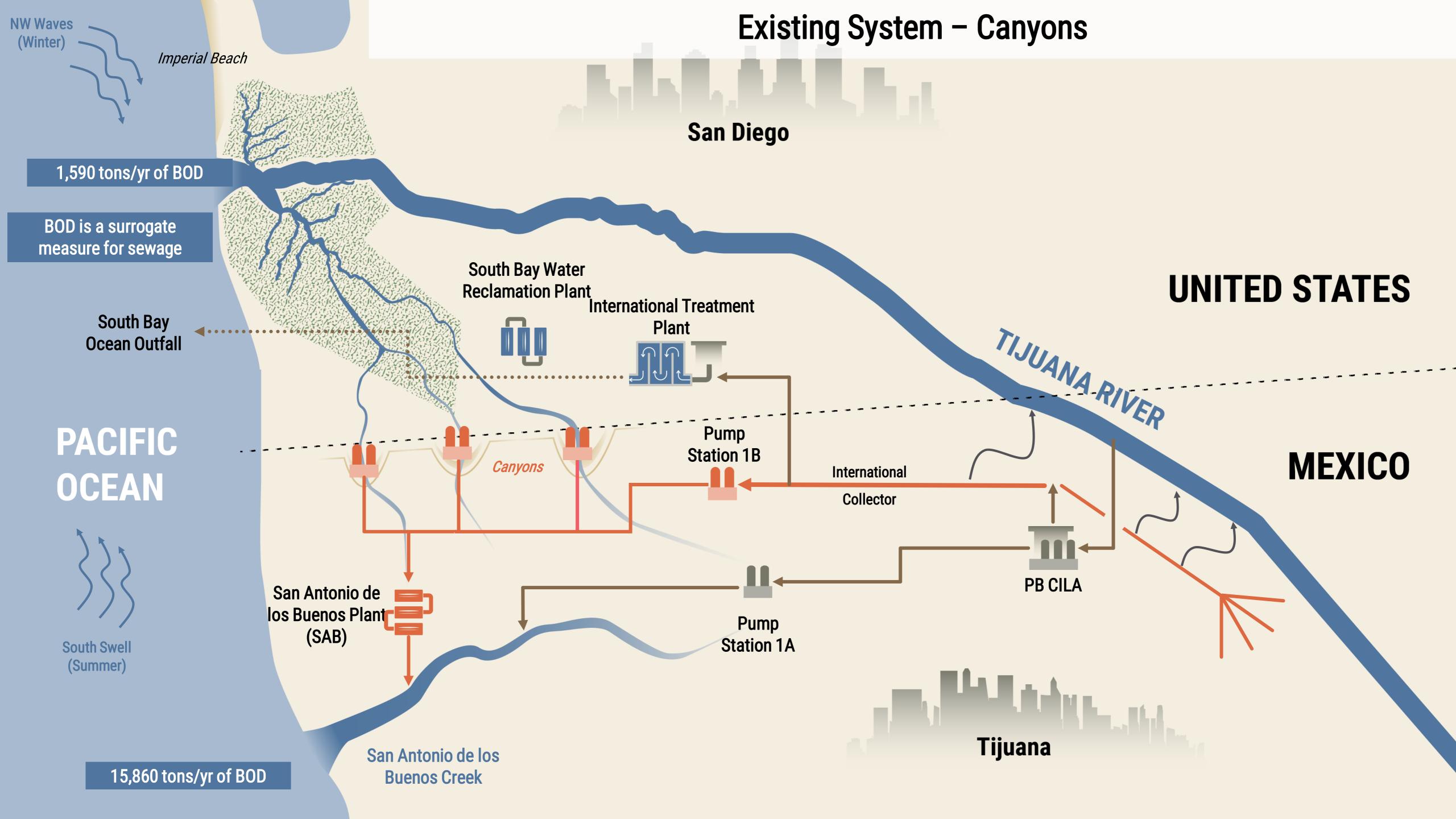
James Hollibaugh and Tom Rowlett, PG Environmental

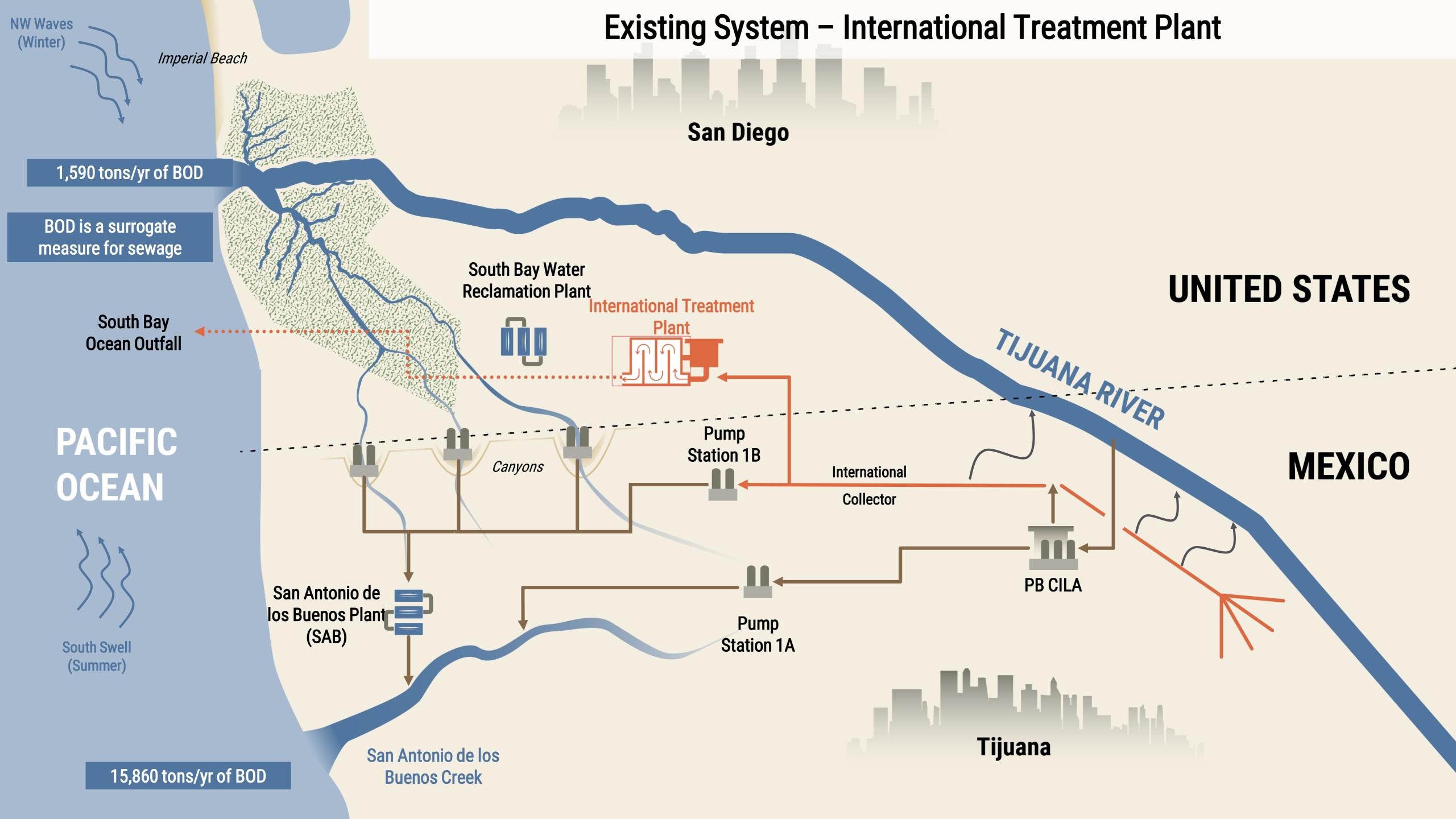


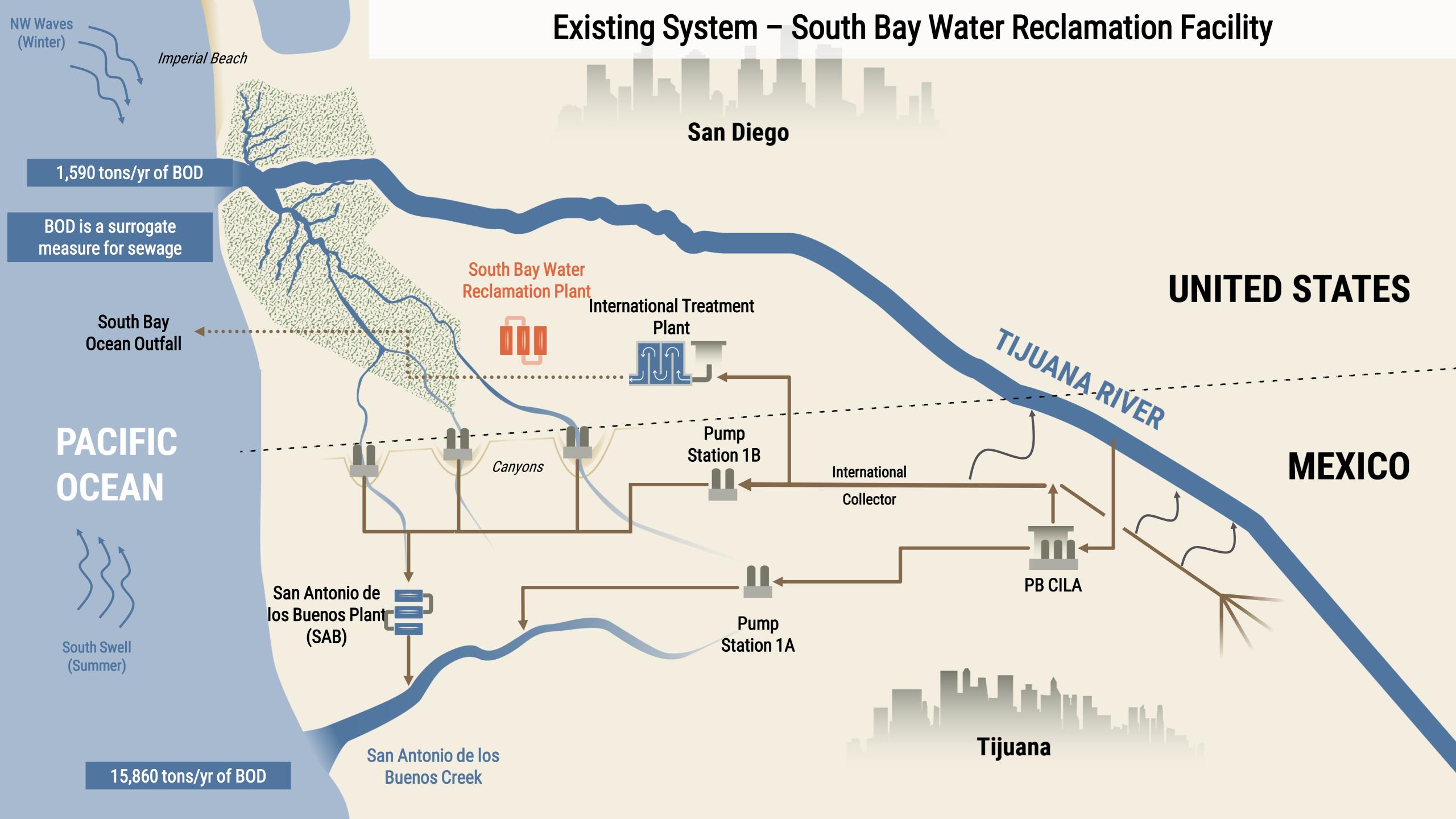


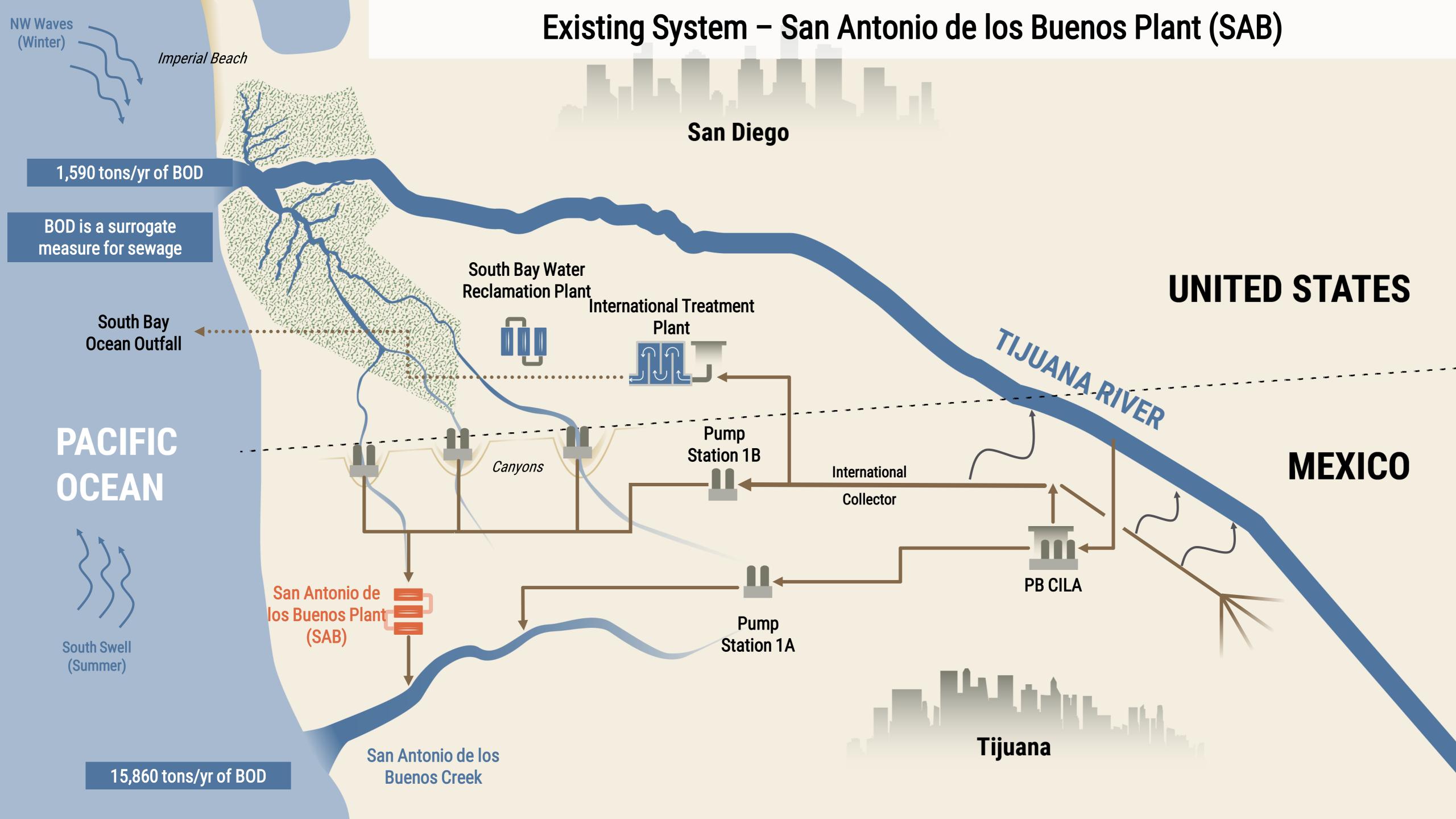




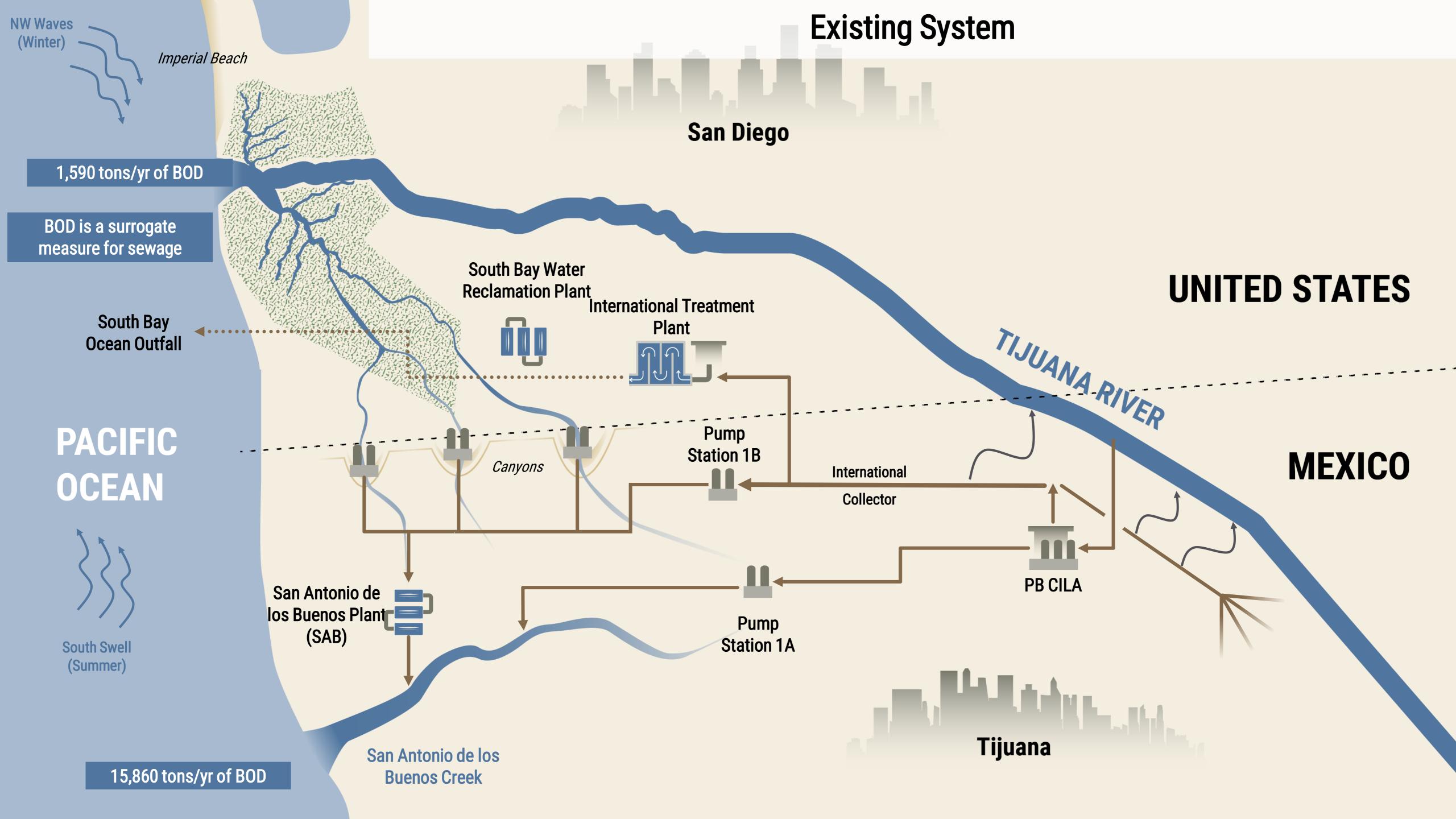


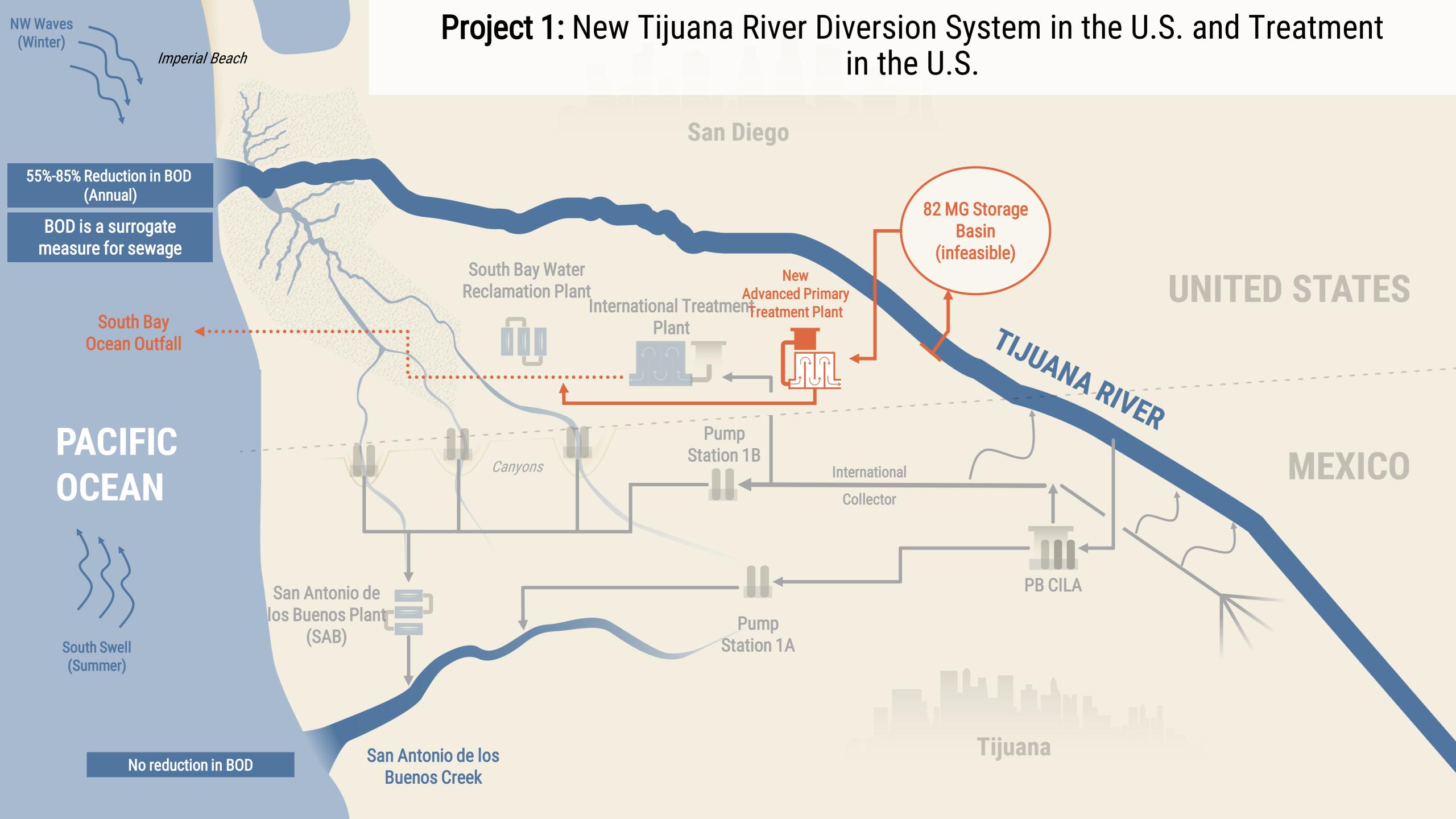






# Diverting & Treating River Water (Projects 1 & 2) James Hollibaugh and Tom Rowlett, PG Environmental

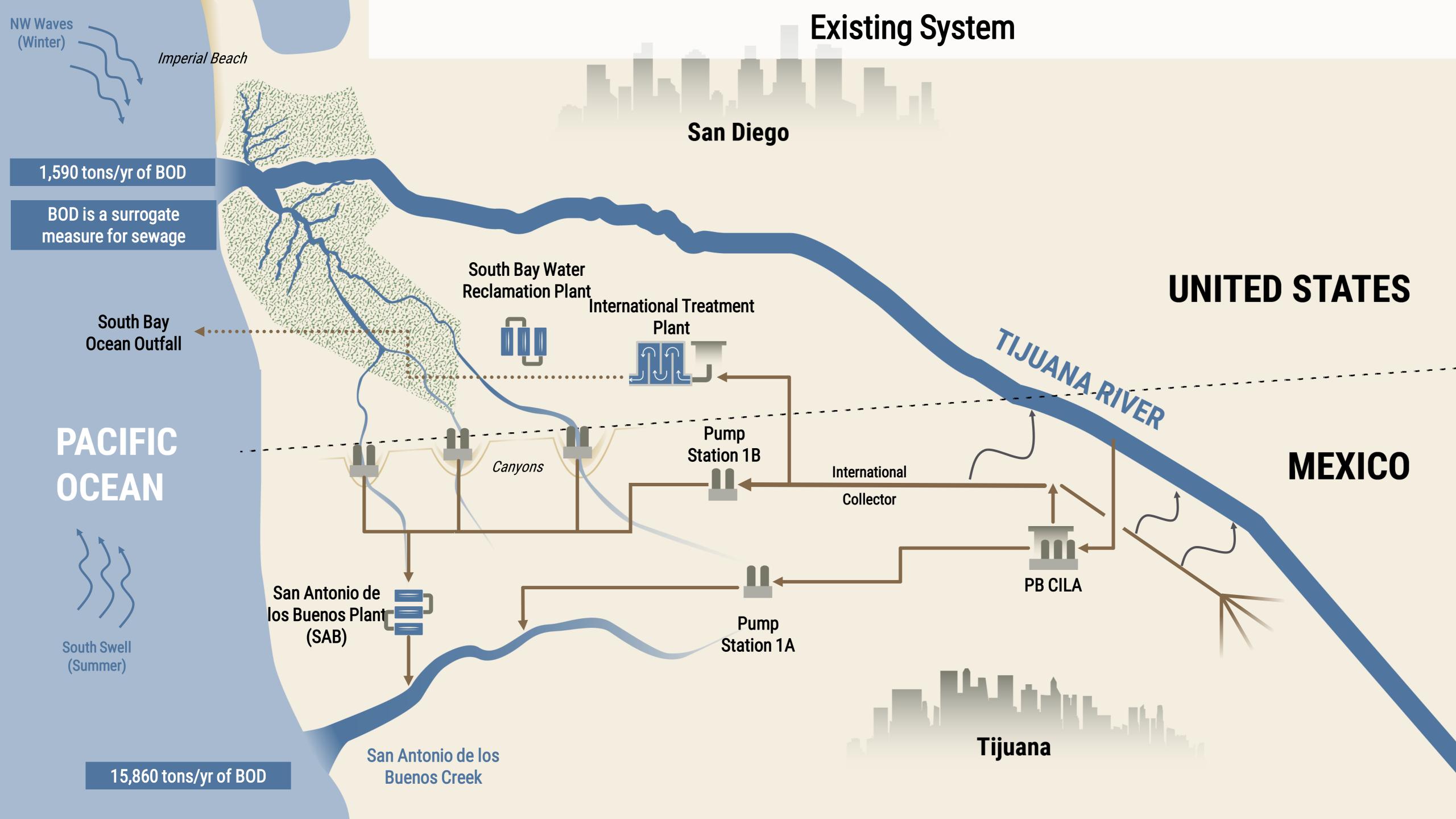


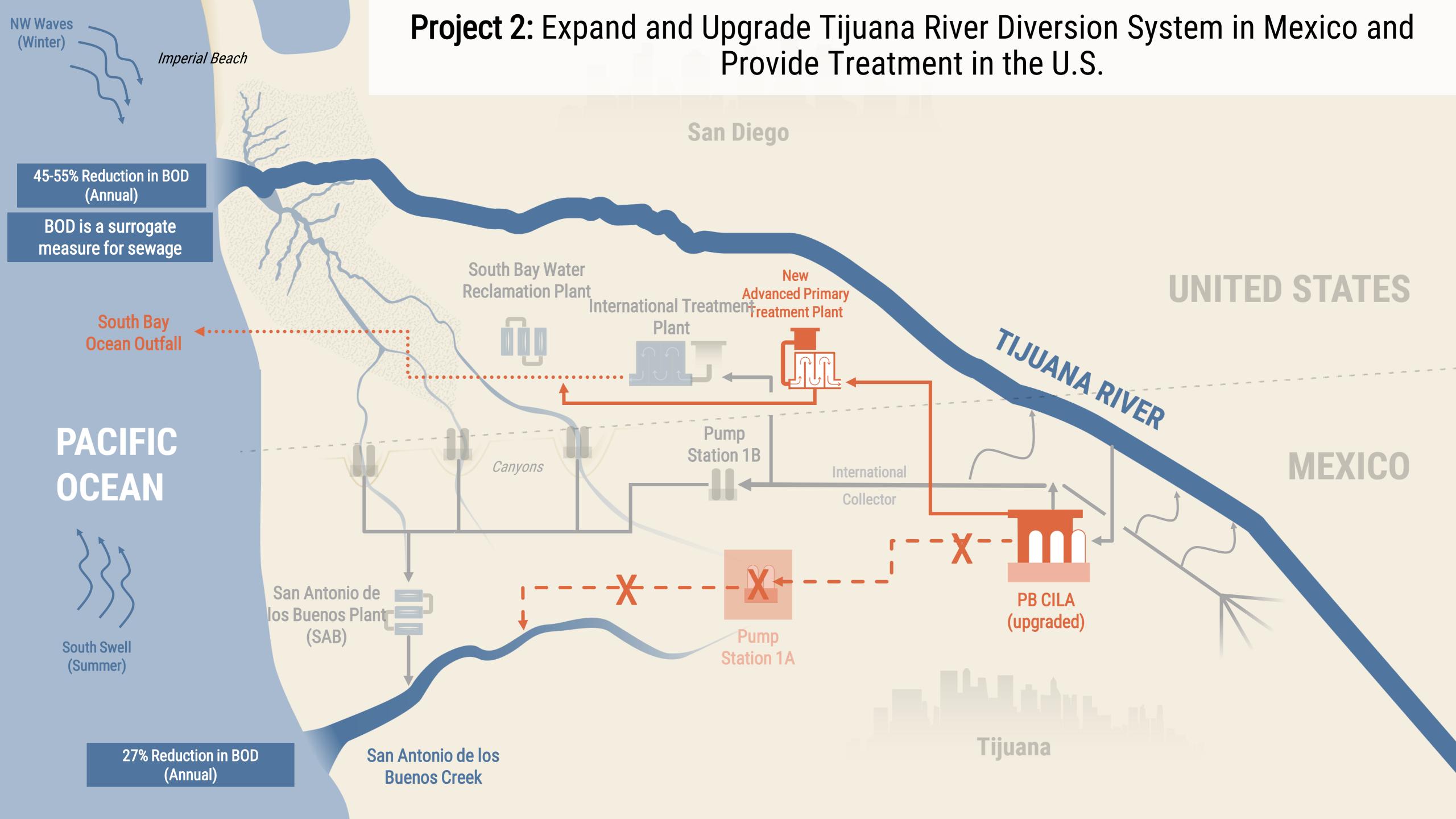


Project 1: New Tijuana River Diversion System in the U.S. and Treatment in the U.S.

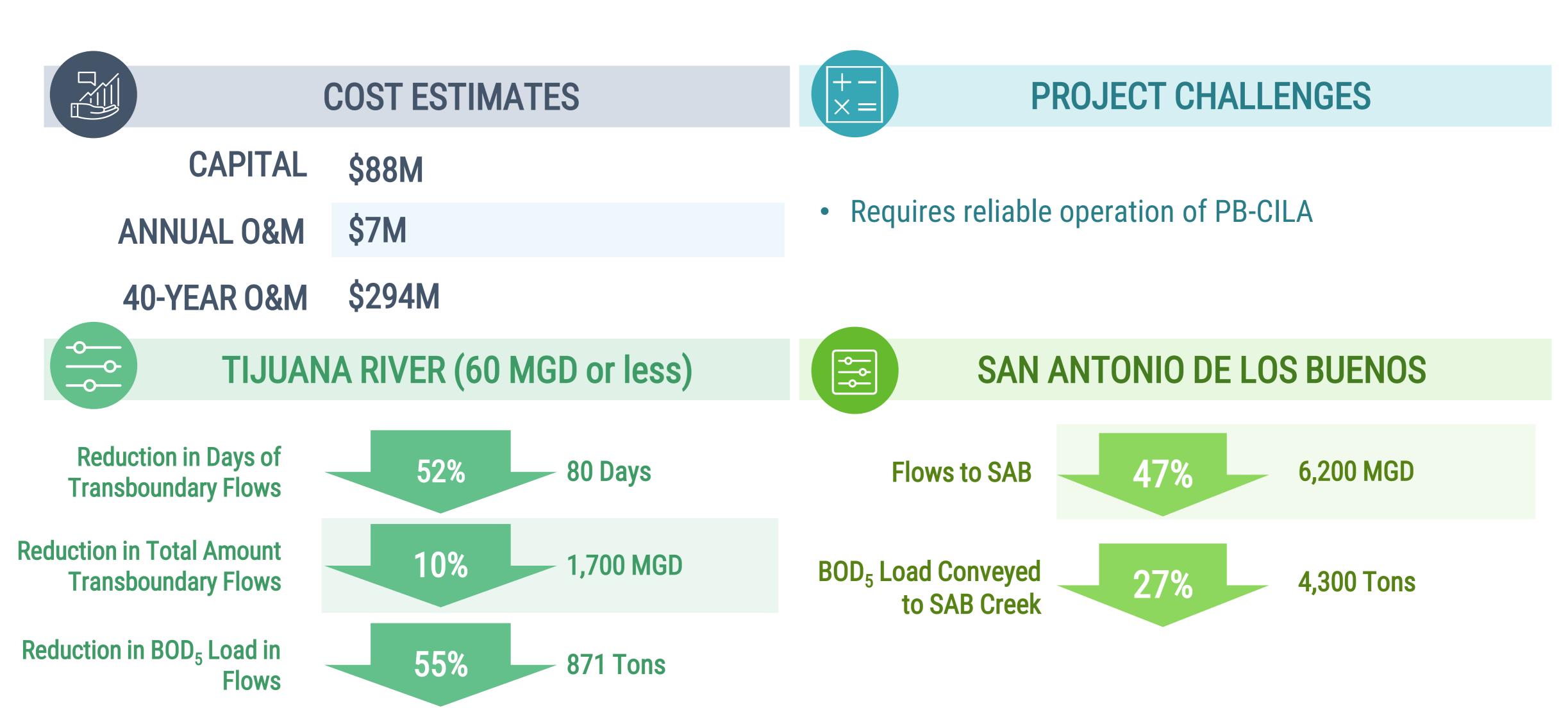
	35 MGD	100 MGD	163 MGD	
	COST ES	TIMATES		PROJECT CHALLENGES
CAPITAL	\$110M	\$220M	\$295M	Sediment Removal* would result in:  • 15 truckloads of sediment per day (35 MGD)
ANNUAL O&M	\$9M	\$34M	\$53M	<ul> <li>107 truckloads of sediment per day (100 MGD)</li> </ul>
40-YEAR O&M	\$392M	\$1.3B	\$2.1B	<ul> <li>165 truckloads of sediment per day (163 MGD)</li> <li>Lack of sufficient data (both trash and sediment) to begin design</li> </ul>
TIJU	JANA RIVE	R (2016-201	19)	SAN ANTONIO DE LOS BUENOS
Reduction in Days of Transboundary Flows	80 Days  52%	126 Days 82%	133 Days 87%	Flows to SAB 7 % Days
Reduction in Total Amount Transboundary Flows	1,700 MGD 10%	3,500 MGD 20%	4,400 MGD 25%	BOD <sub>5</sub> Load Conveyed to
Reduction in BOD <sub>5</sub> Load in Flows	871 Tons  55%	1,257 Tons 79%	1,351 Tons 85%	SAB Creek  SAB Creek

<sup>\*</sup>These values reflect the estimated sediment production on days which the APTP is operating: 107 days per year for the 35 MGD design, 126 days per year for the 100 MGD, and 133 days per year for the 163 MGD.

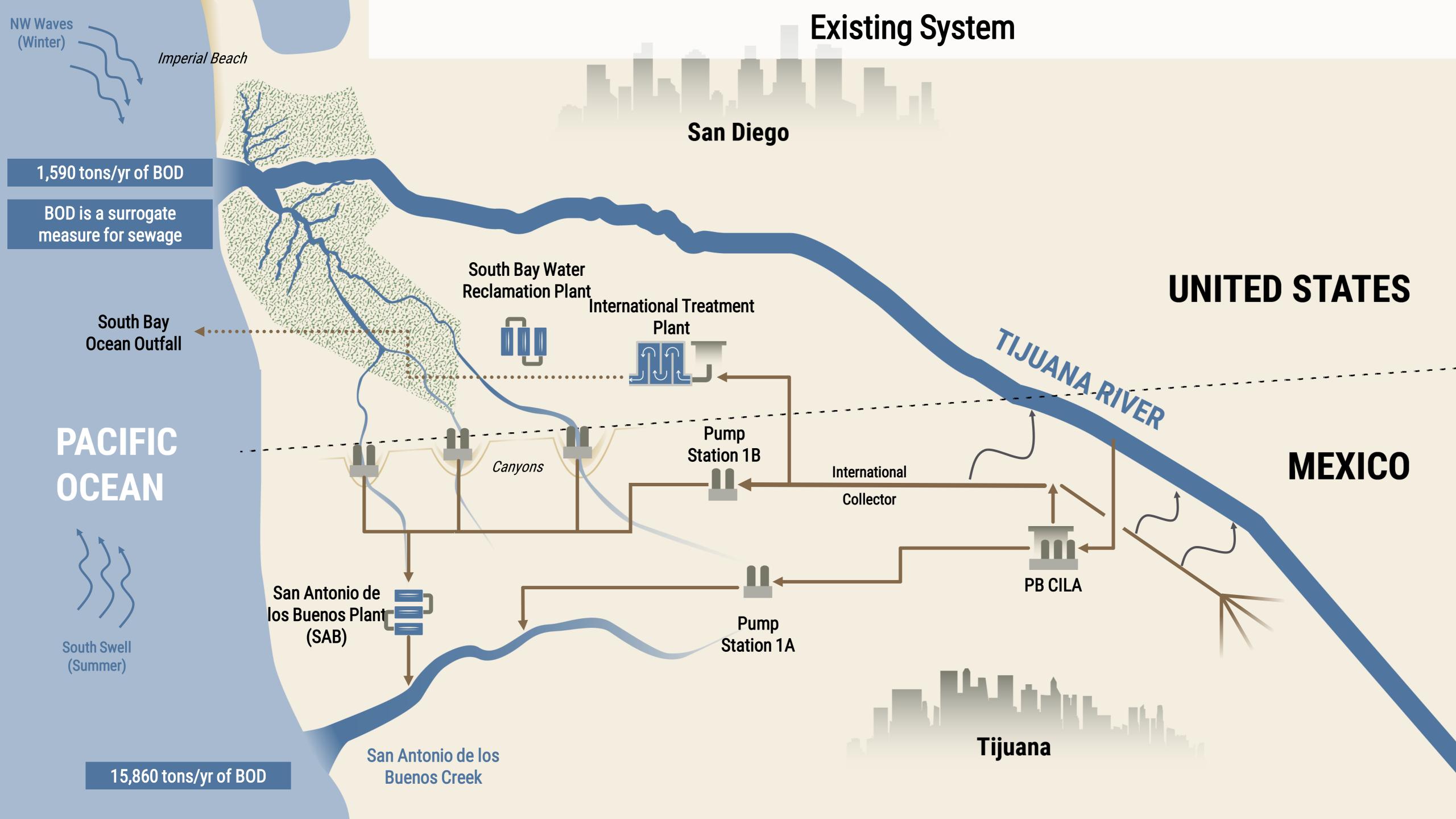


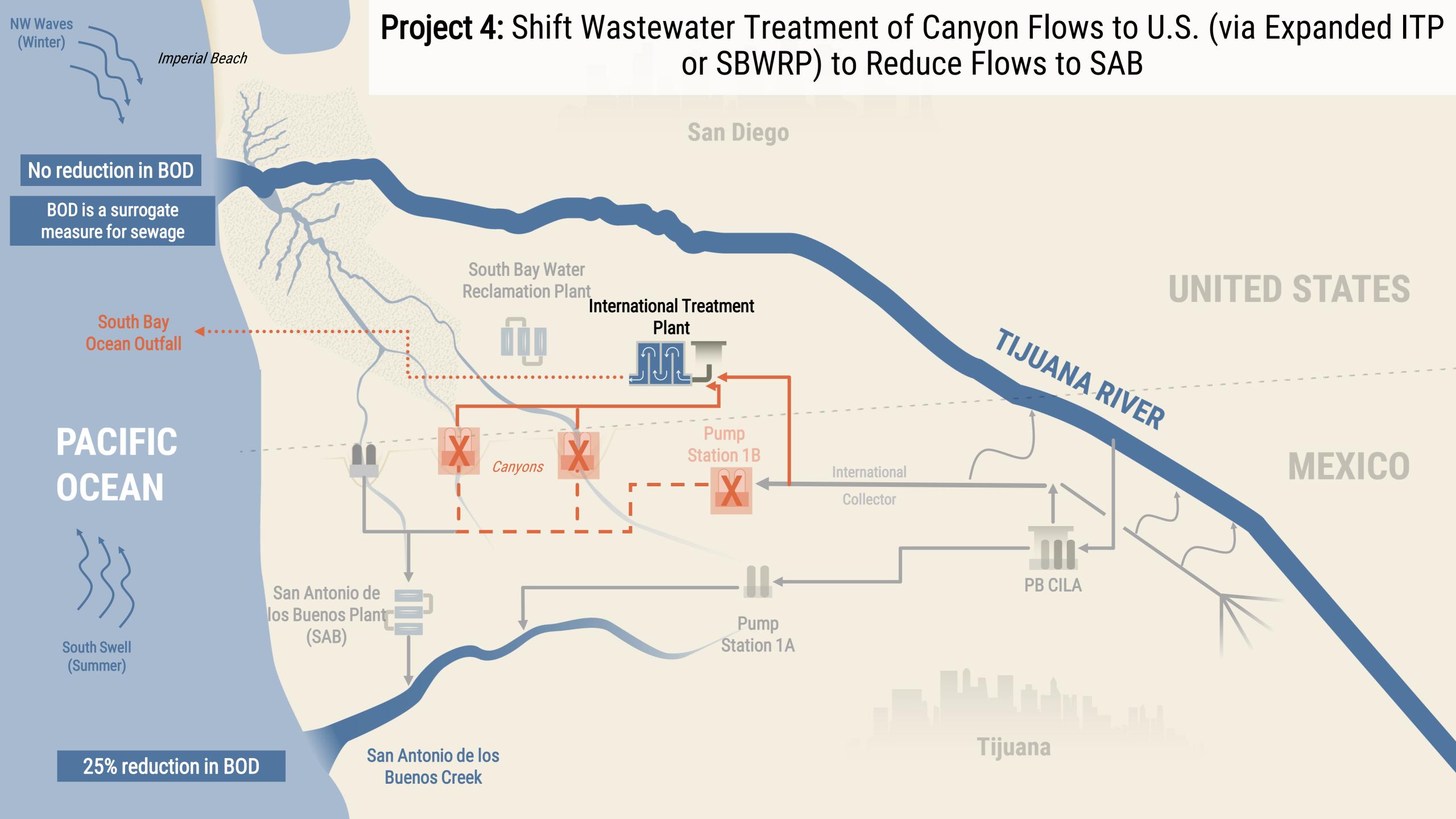


**Project 2:** Expand and Upgrade Tijuana River Diversion System in Mexico and Provide Treatment in the U.S.



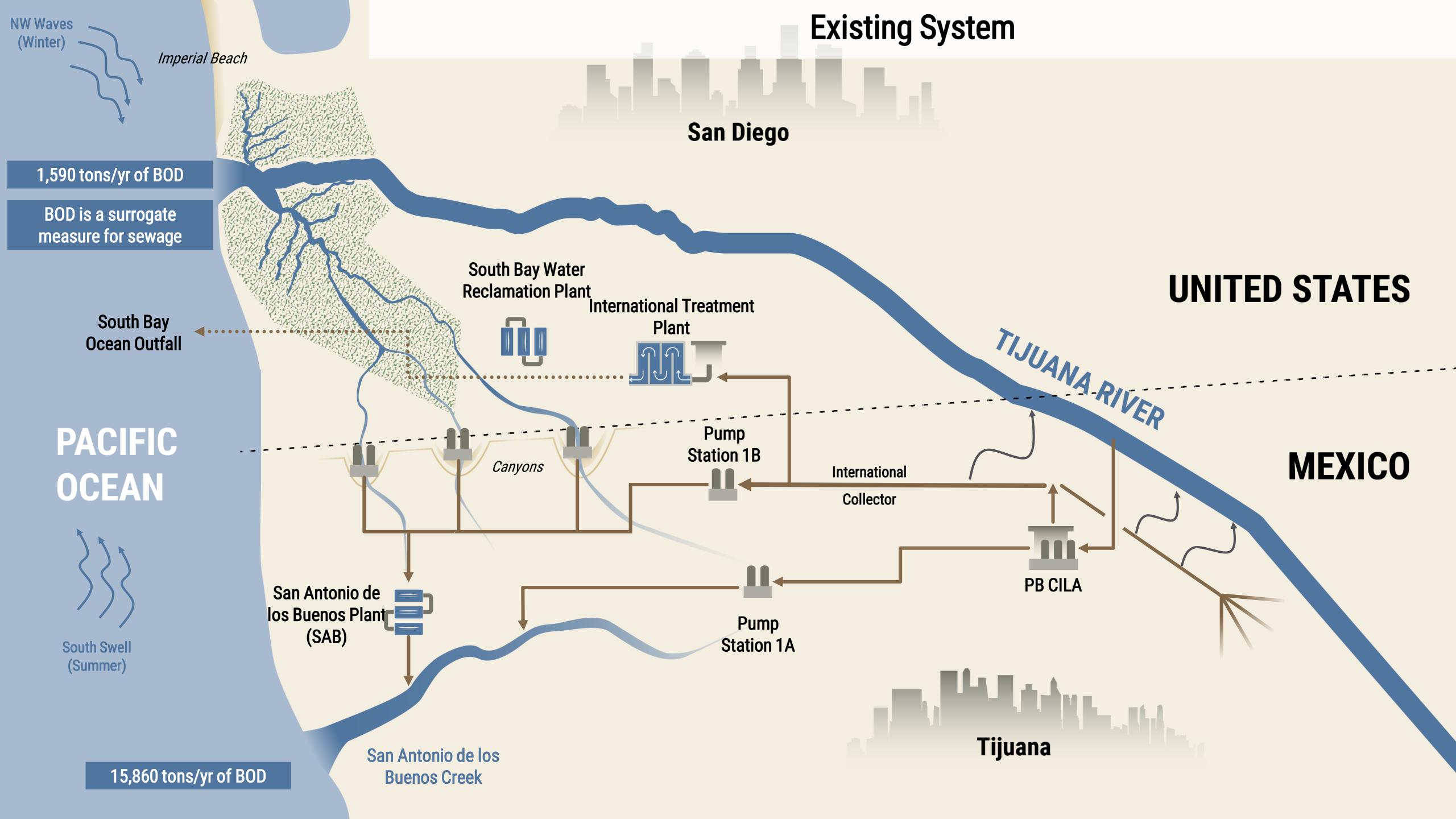
## Conveying Sewage to US for Treatment (Project 4) James Hollibaugh and Tom Rowlett, PG Environmental







James Hollibaugh and Tom Rowlett, PG Environmental





## Project 3: Treat Wastewater from the International Collector at the ITP

50 MGD 60 MGD

## **COST ESTIMATES**

**CAPITAL** \$299M \$372M

ANNUAL 0&M \$10M \$14M

40-YEAR O&M \$401M \$568M



## **PROJECT CHALLENGES**

 Challenges around air permitting and regulations for anaerobic digestion



## SAN ANTONIO DE LOS BUENOS

Reduction in Flows to SAB

Reduction in BOD<sub>5</sub> Load Conveyed to SAB Creek

3,430 MGD

26%

7,890 Tons
50%

5,740 MGD
56%
11,760 Tons
74%



## **TIJUANA RIVER**

Days of Transboardary

Total Aritist
Transboundary Flows

BOD<sub>5</sub> Load in Flows

Days

Days

Days

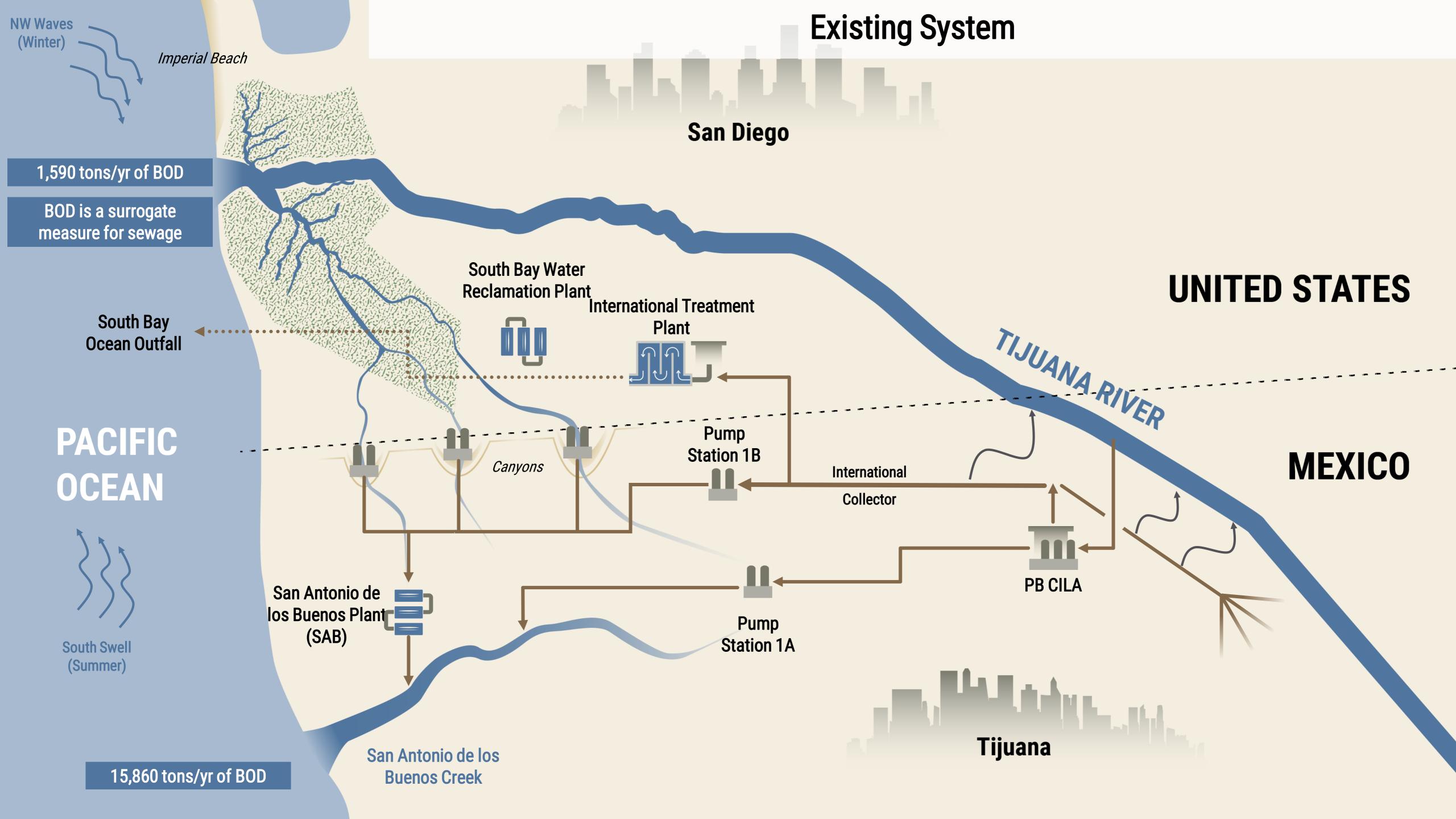
Days

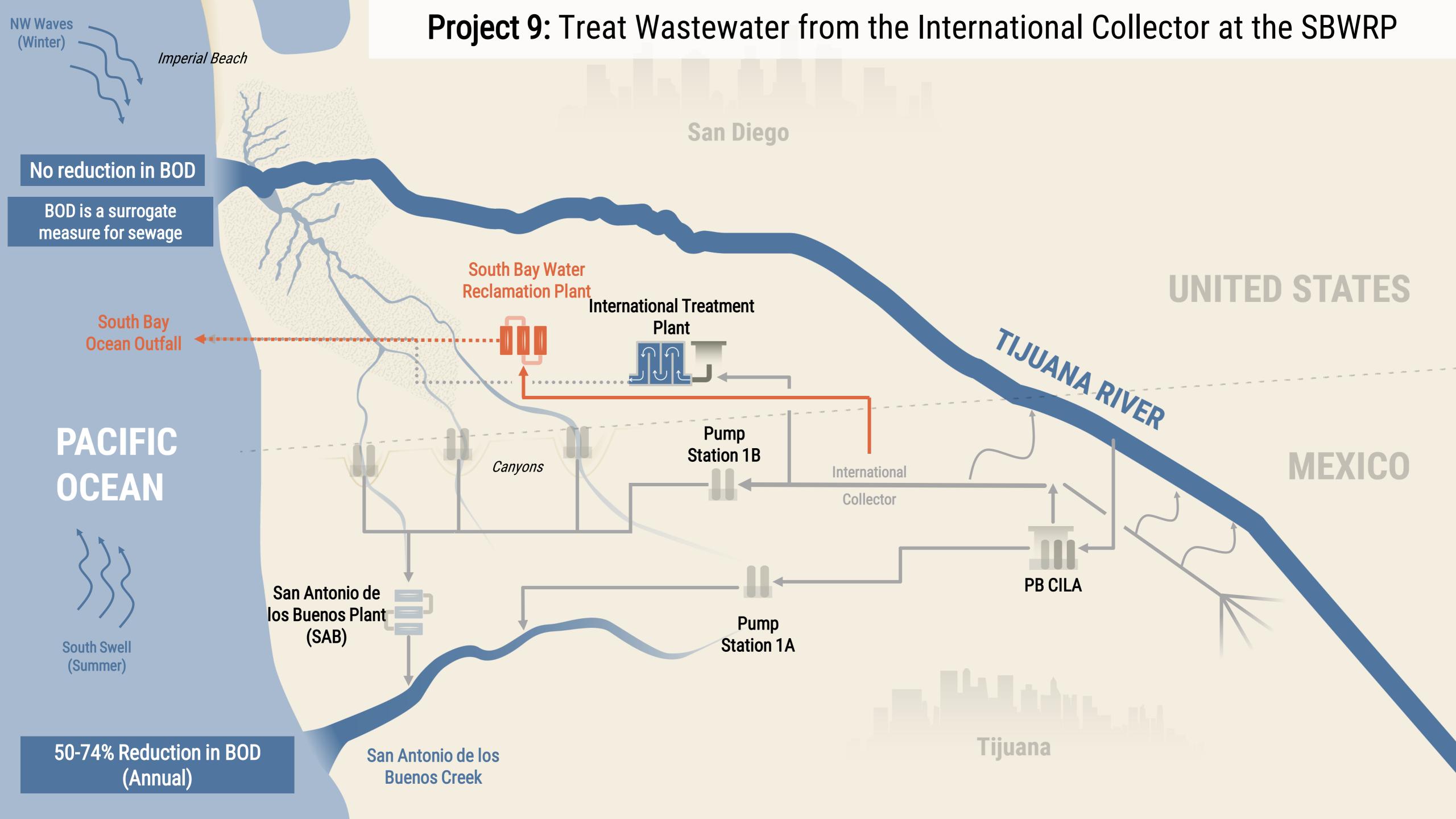
Days

Days

Days

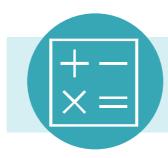
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## Project 9: Treat Wastewater from the International Collector at the SBWRP

	15 MGD		MGD + Solids		30 MGD + Solids	
	COST ESTIMATES					
CAPITAL	\$51M	\$	3105M		\$274M	
ANNUAL O&M	\$15M		\$16M		\$23M	
40-YEAR O&M	\$629M	\$	654M		\$926M	
SAN A	NTONIO	DE L	OS BUE	ENC	OS	
Reduction in Flows to SAB	3,430 MGD 26%		,430 MGD 26%		5,740 MGD 44%	
Reduction in BOD <sub>5</sub> Load Conveyed to SAB Creek	7,890 Tons 50%		,890 Tons 50%		11,760 Tons 74%	-



## **PROJECT CHALLENGES**

- Requires City to sell SBWRP and SBOO.
- Base 15 MGD requires City to accept solids.
- Air permitting/regulations for anaerobic digestion.



## NEPA Public Scoping Tom Konner, EPA Region 9



- Purpose: An early and open process to inform the scope of the EIS
  - Identify significant environmental issues deserving of study
  - Eliminate non-significant issues from further study
  - Invite comments on the scope of the EIS, including alternatives to be evaluated (see next slide)
- When to initiate public scoping?
  - As soon as practicable after determining that a proposal is sufficiently developed to allow for meaningful public comment and requires an environmental impact statement
- Major components of public scoping process
  - Notice of Intent (NOI) published in Federal Register
  - Public scoping period (at least 30 days after issuance of NOI)
  - Public scoping meeting(s) optional, but typical for projects affecting specific sites

Sources: EPA NEPA regulations [40 CFR 6.203(c)]; 2020 CEQ NEPA regulations [40 CFR 1501.9]; pre-2020 CEQ NEPA regulations [40 CFR 1501.7]

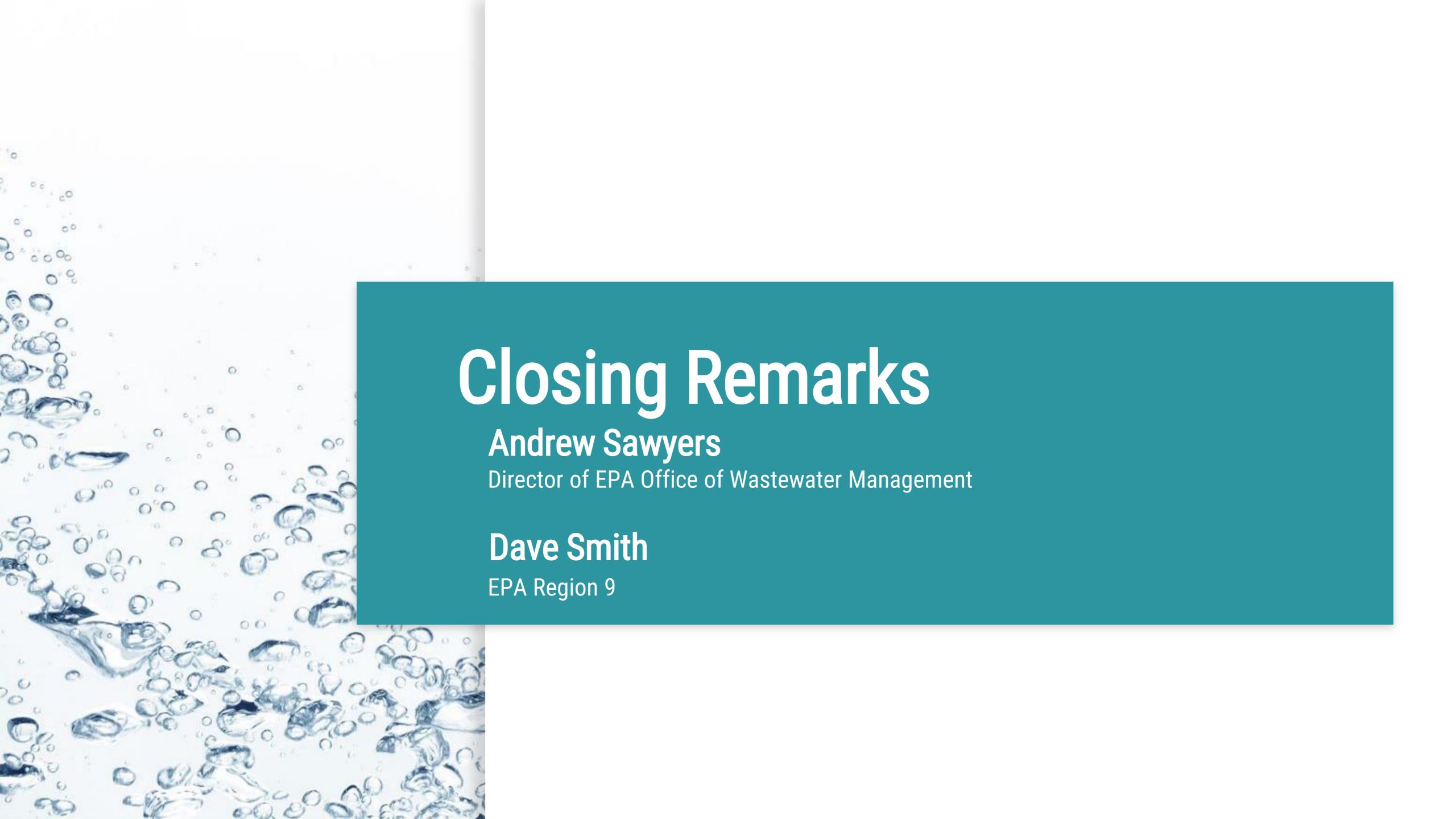


## **Anticipated Schedule**

NEPA Activity	Dates
NOI published in Federal Register – initiate 45-day scoping period	Late March, 2021
Hold virtual scoping meeting, 6-8p.m. PDT	April 20, 2021
End of Public Comment Period	May 20, 2021

- Public Scoping Meeting will be Advertised in the Federal Register, Local Newspapers, the North American Development Bank's List Serve and the EPA webpage (going live in March).
- Comments received during the public scoping process will be considered during the preparation of the draft EIS

## Question and Answer Session



## Thankyou