USMCA Tijuana River Watershed Eligible Public Entities Coordinating Group (EPECG)

August 4, 2021

12:00 p.m. - 2:00 p.m. <u>Pacific</u> (3:00 p.m. - 5:00 p.m. <u>Eastern</u>)

Agenda

Objective: Provide results from the alternatives analysis and allow EPECG members to reflect on the package of three alternatives to address transboundary flows in the Tijuana River watershed

12:00 pm	Welcome and Overview
	Technical Analysis Results and Updates
12:10 pm	 Review alternatives analysis process Results
	Three alternatives optimization
	Clarifying Questions
1:30 pm	Next Steps & Upcoming Milestones
	Clarifying Questions
1:50 pm	North American Development Bank Updates
2:00 pm	Closing Remarks & Adjourn



USMCA Tijuana River Watershed

EPECG Meeting

Virtual Meeting: August 4th, 2021

Photo: Nick Statom & Stephen Hollemar

Welcome & Overview

Federal, State, and Local Stakeholder Engagement Eligible Public Entities Coordinating Group

- US Army Corps of Engineers
- North American Development Bank
- DOS Consulate General of Tijuana
- US Customs & Border Protection
- US Navy
- US DOI/FWS
- US International Boundary and Water Commission
- US Department of Commerce/NOAA

- State of CA EPA
- State of CA Natural Resources Agency
- San Diego County
- San Diego Port Authority
- San Diego Regional Board
- City of Chula Vista
- City of Coronado
- City of Imperial Beach
- City of San Diego

Congressional staff also participating

Today's Agenda

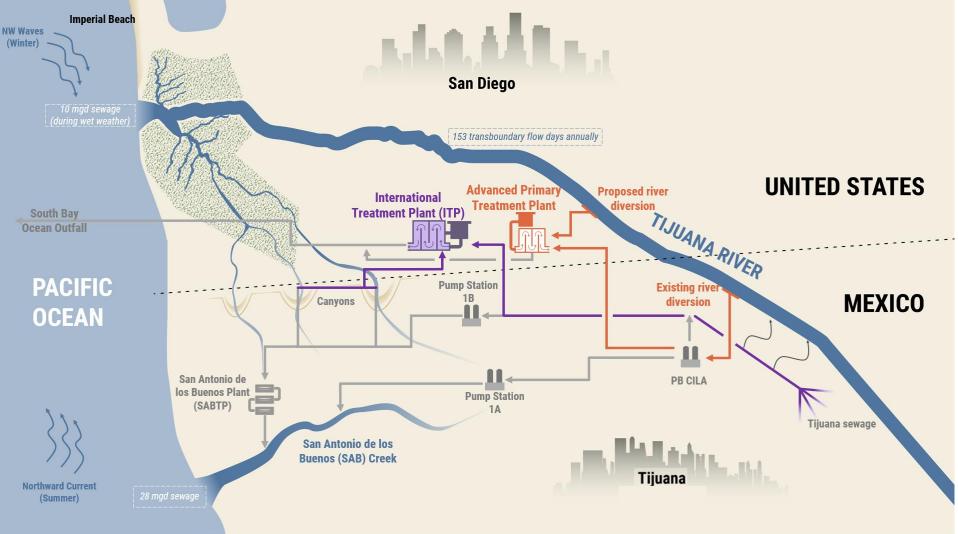
Technical Analysis Results

- Review alternatives analysis process
- Results
- Three Alternatives for Optimization
- Next Steps & Upcoming Milestones
- NADB Updates

Technical Analysis Results

Ami Cobb, Environmental Engineer EPA Headquarters

Two Approaches in US: Treat Contaminated Flow Before or After it Reaches the River/Coast



Alternatives Analysis

- Individual infrastructure <u>projects</u> were grouped into <u>alternatives</u> based on:
 - Ability to reduce sewage in the river and/or ocean
 - Capital cost
 - Some Border Water Infrastructure Program (BWIP) funds can be used for Mexico-side solutions

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- Most of USMCA funding being used for US-side solutions
- Contractors and EPA created 12 alternatives for scoring with the Augmented Alternatives Analysis (AAA)
 - Evaluation tool used to score and rank alternatives using a systematic and replicable process
 - Operationalized evaluation criteria with input from EPECG members

USMCA Project Investment Goals

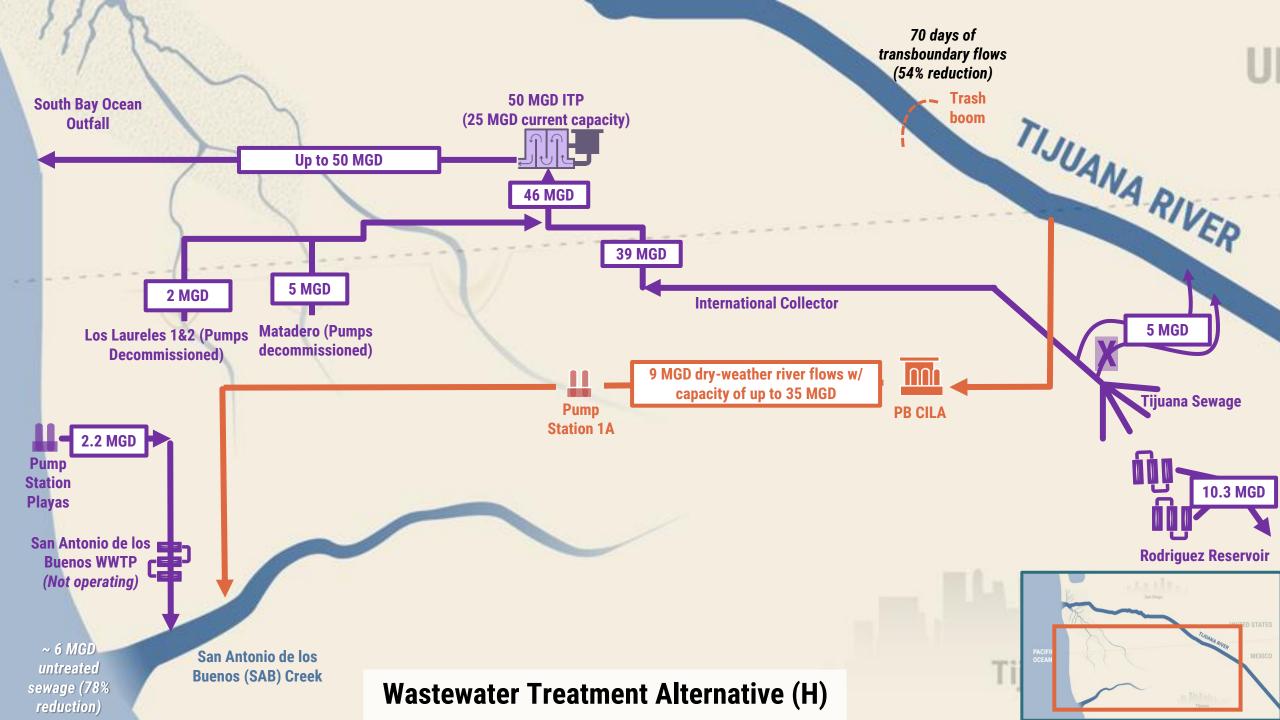
Public Health & Community Livability

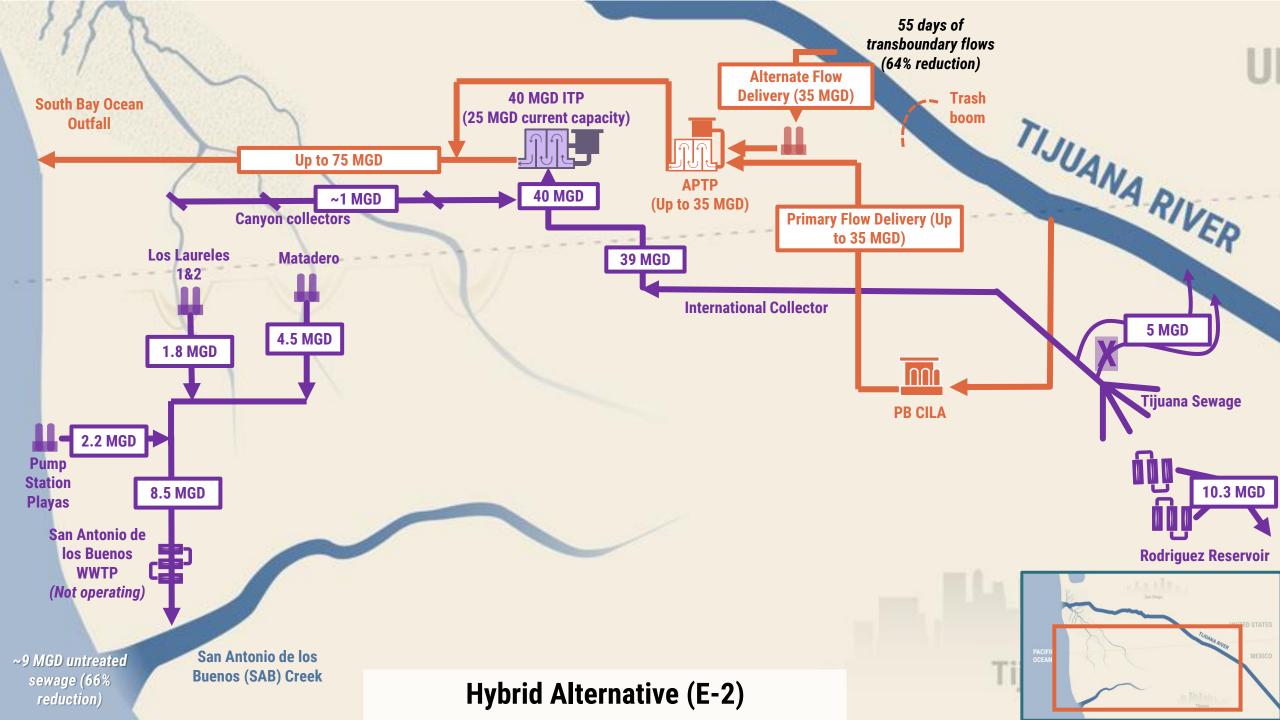
Stewardship of Public Resources

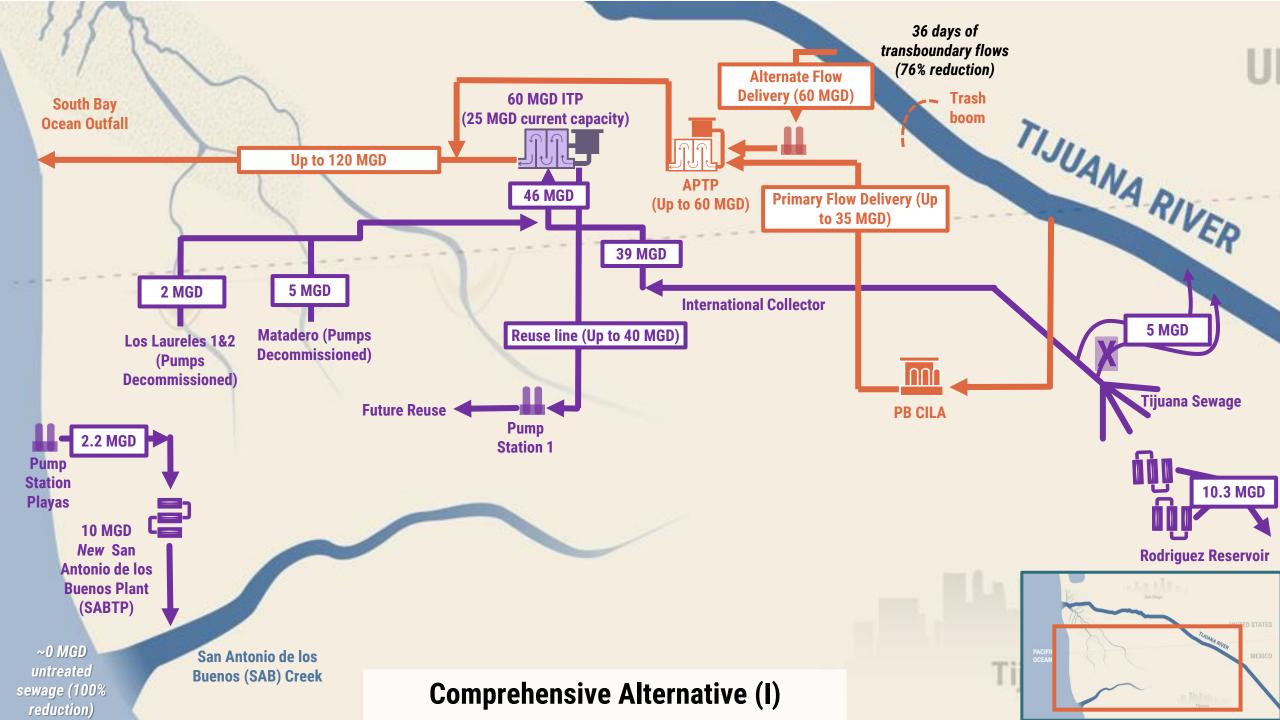
Ecological Protection System Resiliency

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ALT ¹	P1	Р2	Р3	P4	Р5	Р6	P7	P8	Score	Cost Effectiveness ²	Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	US Capital Contribution(\$M) ³
T	60 mgd	conveyance to APTP	35 mgd	8 mgd	5 mgd	\checkmark	10 mgd	10 mgd	287	15	76%	95%	566
Н			25 mgd	8 mgd	5 mgd	\checkmark	10 mgd		264	28	54%	74%	336
F-2		35 mgd	20 mgd		5 mgd	\checkmark	10 mgd		242	22	64%	66%	363
E	35 mgd	conveyance to APTP	15 mgd		5 mgd	\checkmark			220	22	56%	63%	334
E-2	35 mgd	conveyance to APTP	15 mgd		5 mgd	\checkmark	10 mgd		220	21	64%	63%	344
F		35 mgd	20 mgd			√	10 mgd		219	20	60%	66%	356
G		35 mgd	15 mgd			\checkmark		10 mgd	204	17	53%	94%	343
В	100 mgd	conveyance to APTP			5 mgd	\checkmark	10 mgd	10 mgd	200	20	83%	50%	258
А	163 mgd	conveyance to APTP				\checkmark	10 mgd		190	21	88%	34%	264
D	60 mgd		15 mgd			\checkmark			188	17	70%	40%	350
С	100 mgd		5 mgd			✓			179	19	82%	25%	332
B-2	100 mgd	conveyance to APTP			5 mgd	✓	10 mgd		163	21	83%	17%	225

¹ All alternatives contain canyon regrading
 ² Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost
 ³ US contribution to US and MX side projects. Cost estimates include 1.5 contingency factor.







Three Alternatives for Optimization

	Ranking Based on								Score						
US medine sone in the inestination of the anon the treatment of the treatm							mMAT SABP			% Reduction (higher is better)		US Contribution			
	ALT ¹	P1	P2	Р3	Р4	Р5	Р6	Р7	Р8	Score	Cost Effectiveness ²	Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	Capital (\$M) ³	Annual O&M (\$M)
orehensive Alternative	I.	60 mgd (\$119M)	conveyance to APTP (\$6M)	35 mgd (\$372M)		5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)	10 mgd (\$33M)	287	15	76%	95%	566	22
/astewater Treatment Alternative	н			25 mgd (\$299M)		5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)		264	28	54%	74%	336	12
Hybrid Alternative	E-2	35 mgd (\$90M)	LU AF IF	15 mgd (\$227M)		5 mgd (\$7M)	✓ (\$4M)	10 mgd (\$10M)		220	21	64%	63%	344	14

¹ All alternatives contain canyon regrading

² Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost

³ US contribution to US and MX side projects. Cost estimates include 1.5 contingency factor.

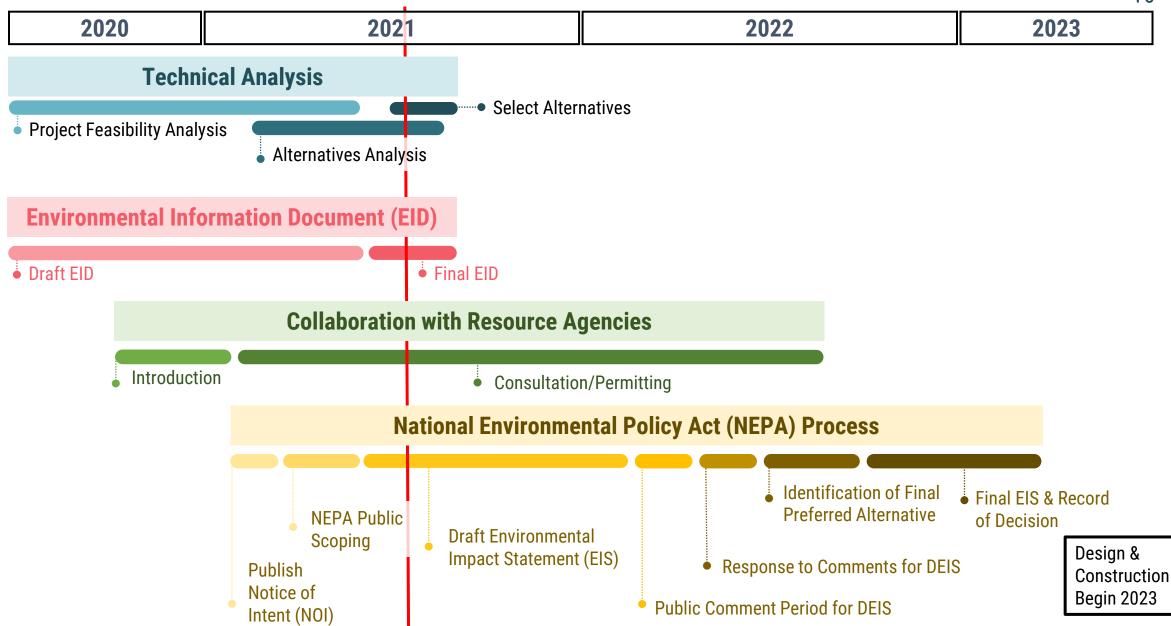
Technical Analysis Results

Discussion & Questions?

Next Steps & Upcoming Milestones

Doug Eberhardt, Environmental Engineer EPA Region 9

USMCA Process: Overview

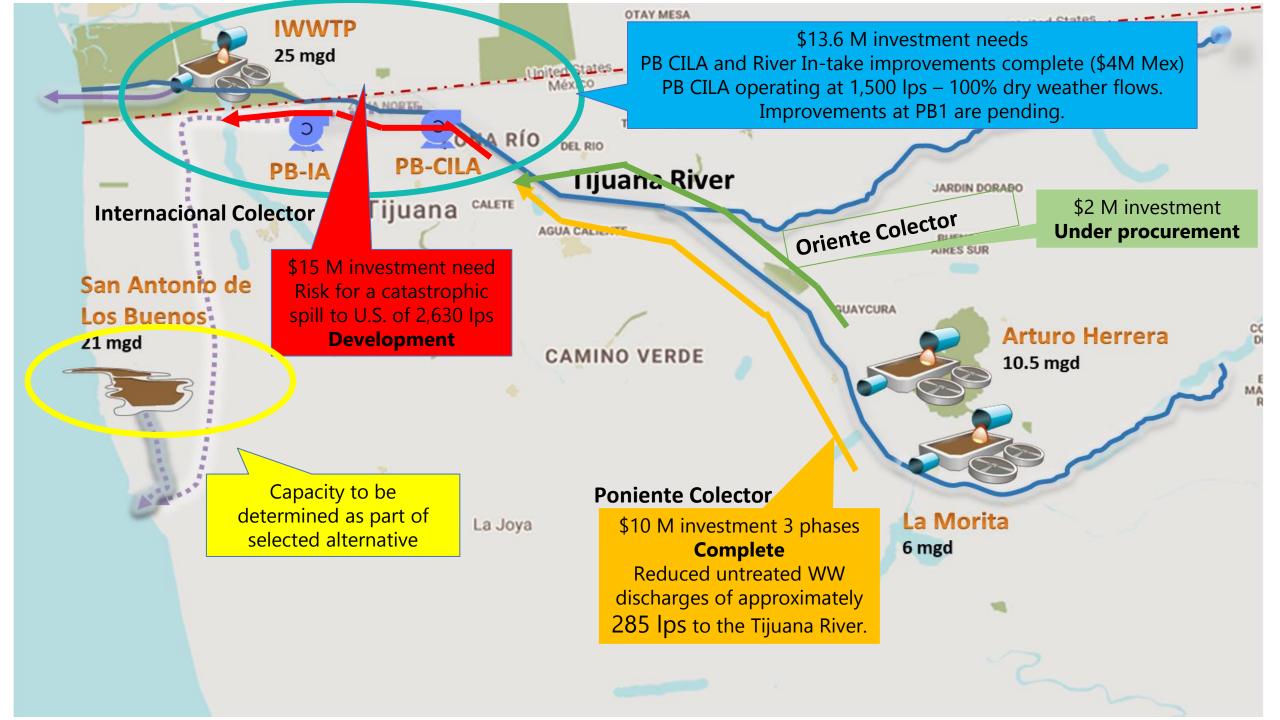


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Upcoming Milestones

- Near-Term
 - Public Information Meeting (8/6)
 - Alternatives analysis and report
 - Initiate NEPA EIS (Summer/Fall 2021)
 - Negotiations with Mexico
- Long-Term
 - Agreement(s) with Mexico
 - Identify Project Sponsor
 - Likely IBWC but currently cannot accept funds or initiate a project until legislative fix
 - Operation and Maintenance
 - USMCA-funded project(s) will need O&M appropriations for long-term operation

Updates from NADB



BC Tijuana Collector Poniente 1A



Project Summary (Amounts in Dollars US) Sponsor: CESPT Estimated Cost: \$ 6.46 m BEIF Funding: \$ 2.42 m Funding Partners: \$ 2.02 CESPT and \$ 2.02 CONAGUA Benefitted Population: 87,000 Results: 23,506 improved connections, eliminated risk for WW discharges - 6 mgd capacity

- Status: V Certified on May 30, 2019
 - Construction included 1,928 meters of pipelines installation and the Canon del Sainz-Los Reyes connection, 43 meters to Collector Poniente (80 lps)
 - ✓ BEIF disbursed to date \$2.18M Mexican funds disbursed \$3.60 M
 - ✓ Project complete June 2021.
 - ✓ 6.0 mgd of untreated WW eliminated of the Tijuana River

BC Tijuana Collector Poniente 1A





North American Development Bank

BC Tijuana Collector Poniente 1A



BEFORE: 2 mgd discharge to TJ river

ACTUAL: 0 mgd discharge to TJ river





MAY 2021

DECEMBER 2020

BC Tijuana Oriente Collector Rehabilitation



Project Summary (Amounts in Dollars US)

Sponsor:	CESPT	Imperial Beach Be
Estimated Cost:	\$ 1.8 m	Mexico Mexico Mexico Mexico Pede Tijuana pulevar Cucapah (*2) Redc La Mesa Cerro
NADB Funding:	\$ 0.90 m	Colorado Delegacion La Presa Timora Te Der Cata del Abuelo Creato
Funding Partners:	CONAGUA \$ 0.27 m and CESPT \$ 0.63 m	Coto Pedregal Q Sh Morganie This Assame DLEOS GYM
Benefitted Popula	ion: 154,000	Reliable Container Q de Mexico Partes SA de CV Partes SA de CV Prince S, DE RL, DE CV
Results:	41,435 improved connection, eliminated risk for WW discharges 7.1 mgd capacity	Or NIDE Urbrenidad Organization Partido Accion Nacional ACN Autobury Michael Bustamante Labastida Via Rápida Ote Rio Tijuana Terromo Partido Accion Nacional ACN Autobury Na Rápida Ote FRONTERA A AV. Via Rápida Pte AV. Via Rápida Pte AV. Via Rápida Pte AV. Via Rápida Pte AV. Via Rápida Pte
\checkmark	Certified on August 21, 2020. ncludes the installation of 1,346 meters of 42-in Mexican segments 2 & 3 completed in Decembe Mexican disbursements to date \$764,801 (MX\$ CM procurement complete and construction of	r 2020. 17,402,962)

procurement.

BC Tijuana Oriente Collector Rehabilitation



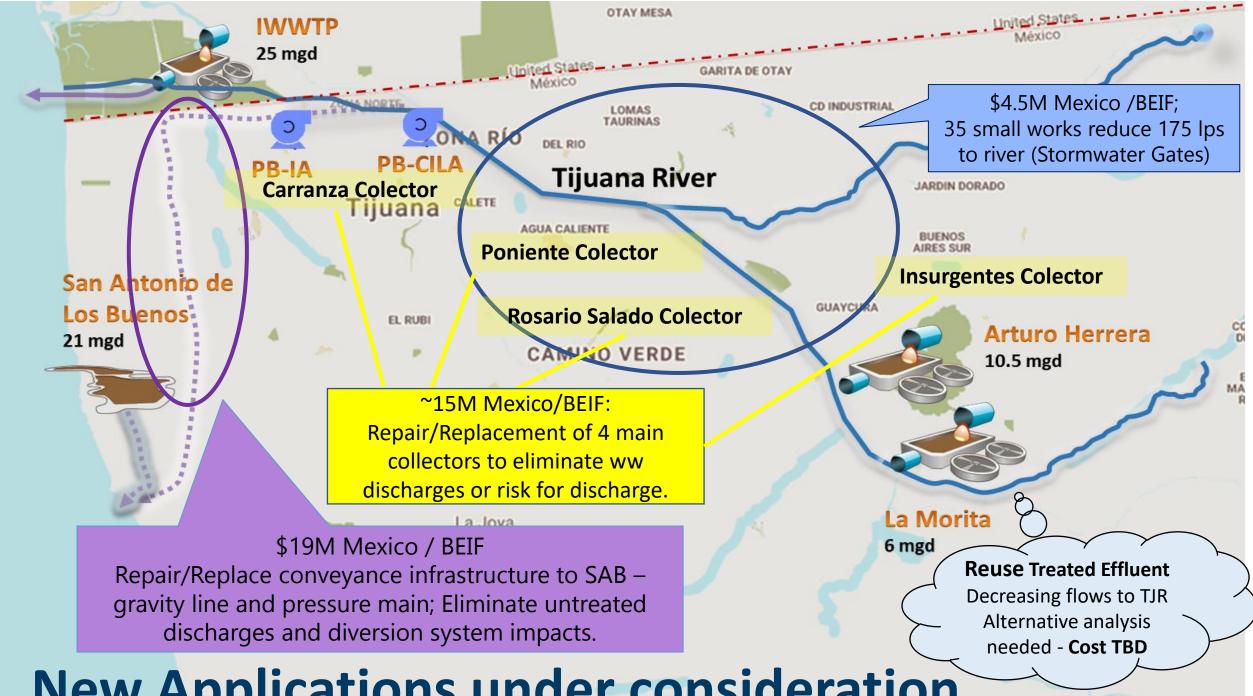
Project location detail



Project Components

- Installation of 1,346
 linear meters (4,415 ft)
 of 42-inch diameter
 pipe:
- 1. Segment-1 1,611 ft
- 2. Segment-2 1,539 ft
- 3. Segment-3 1,266 ft

Location of the overflow of Feb-2017



New Applications under consideration

Closing Remarks

Thank you!