#### **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
p	<ul> <li>Results</li> </ul>
	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

# 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



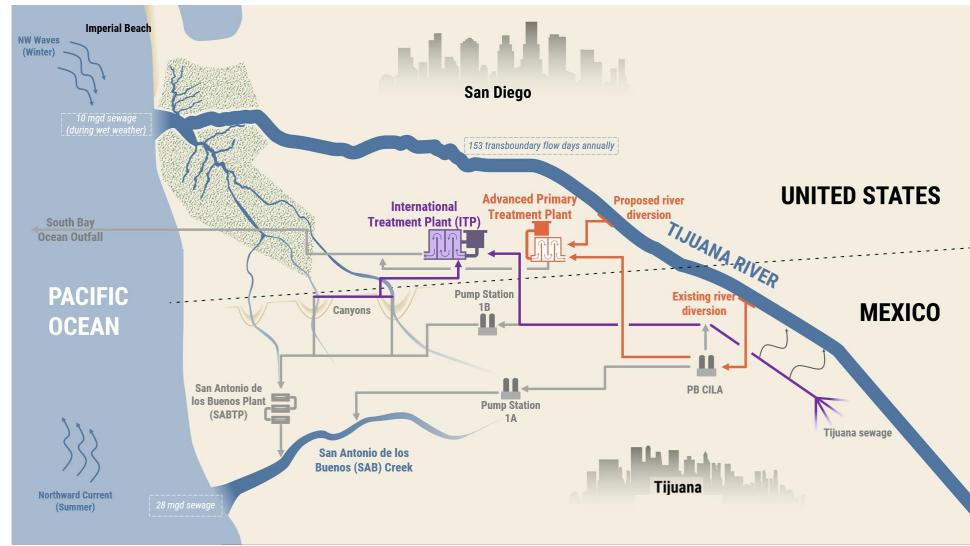
## **Today's Agenda**

- 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
    - 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

Protection

System Resiliency

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**Ranking Based on Score** 

#### **% Reduction**

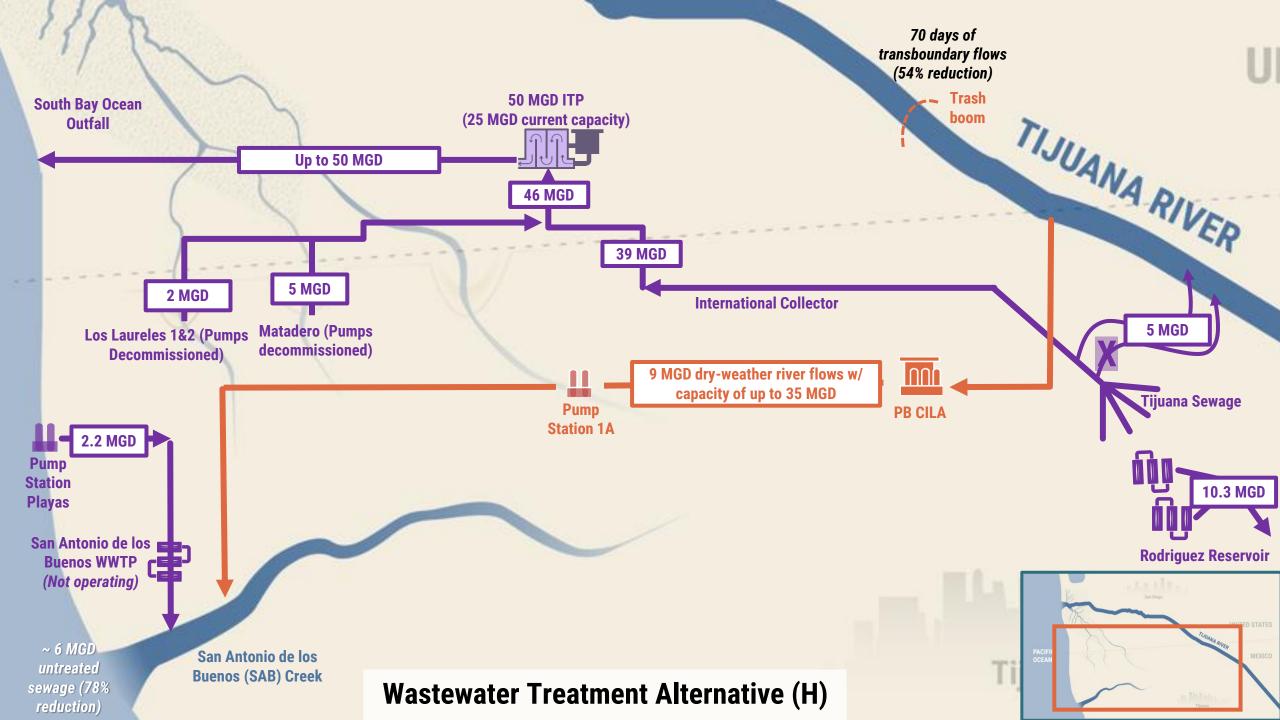
(higher is better)

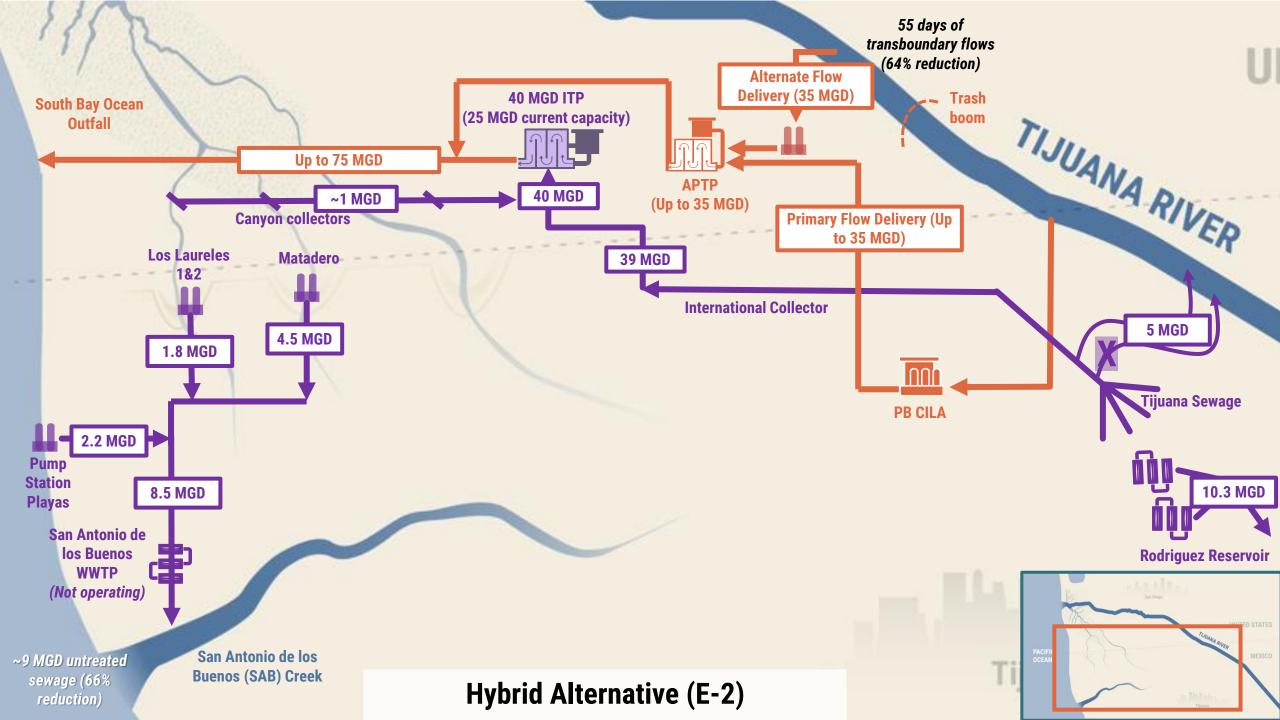
ALT <sup>1</sup>	P1	P2	Р3	P4	P5	P6	Р7	P8	Score	Cost Effectiveness <sup>2</sup>	Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	US Capital Contribution (\$M) <sup>3</sup>	
I	60 mgd	conveyance to APTP	35 mgd	8 mgd	5 mgd	✓	10 mgd	10 mgd	287	15	76%	95%	566	
Н			25 mgd	8 mgd	5 mgd	✓	10 mgd		264	28	54%	74%	336	
F-2		35 mgd	20 mgd		5 mgd	✓	10 mgd		242	22	64%	66%	363	
E	35 mgd	conveyance to APTP	15 mgd		5 mgd	✓			220	22	56%	63%	334	
E-2	35 mgd	conveyance to APTP	15 mgd		5 mgd	✓	10 mgd		220	21	64%	63%	344	
F		35 mgd	20 mgd			✓	10 mgd		219	20	60%	66%	356	
G		35 mgd	15 mgd			✓		10 mgd	204	17	53%	94%	343	
В	100 mgd	conveyance to APTP			5 mgd	✓	10 mgd	10 mgd	200	20	83%	50%	258	
А	163 mgd	conveyance to APTP				✓	10 mgd		190	21	88%	34%	264	
D	60 mgd		15 mgd			✓			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	

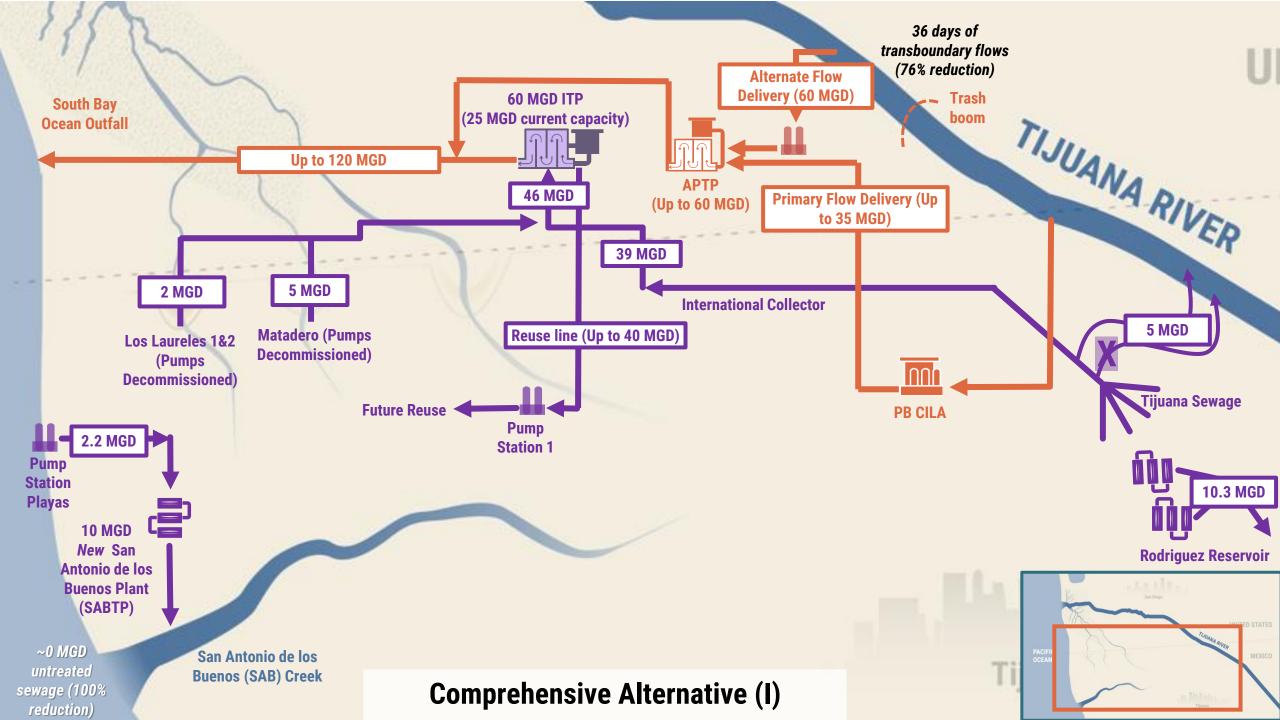
<sup>&</sup>lt;sup>1</sup> All alternatives contain canyon regrading

<sup>&</sup>lt;sup>2</sup> Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost

<sup>&</sup>lt;sup>3</sup> US contribution to US and MX side projects. Cost estimates include 1.5 contingency factor.







## **Three Alternatives for Optimization**

				ion of	cion <sup>®</sup> ent	ion	rentat	enta.				— Ranking	Based on			
16	Js inter time state the state of the state o						innt skill			% Reduction (higher is better)		US Contribution				
		ALT <sup>1</sup>	P1	P2	Р3	P4	Р5	Р6	Р7	Р8	Score	Cost Effectiveness <sup>2</sup>	Transboundary flow days in TJR (annual)	Days with impaired water quality at IB (summer)	Capital (\$M) <sup>3</sup>	Annual O&M (\$M)
	orehensive Alternative	ı	<b>60 mgd</b> (\$119M)	conveyance to APTP (\$6M)	<b>35 mgd</b> (\$372M)		<b>5 mgd</b> (\$7M)	✓ (\$4M)	<b>10 mgd</b> (\$10M)	<b>10 mgd</b> (\$33M)	287	15	76%	95%	566	22
	/astewater Treatment Alternative	Н			<b>25 mgd</b> (\$299M)	_	<b>5 mgd</b> (\$7M)	✓ (\$4M)	<b>10 mgd</b> (\$10M)		264	28	54%	74%	336	12
	Hybrid Alternative	E-2	<b>35 mgd</b> (\$90M)	conveyance to APTP (\$6M)	<b>15 mgd</b> (\$227M)		<b>5 mgd</b> (\$7M)	✓ (\$4M)	<b>10 mgd</b> (\$10M)		220	21	64%	63%	344	14

<sup>&</sup>lt;sup>1</sup> All alternatives contain canyon regrading

<sup>&</sup>lt;sup>2</sup> Cost effectiveness is calculated by Score/40y-yr Lifecycle Cost

<sup>&</sup>lt;sup>3</sup> US contribution to US and MX side projects. Cost estimates include 1.5 contingency factor.

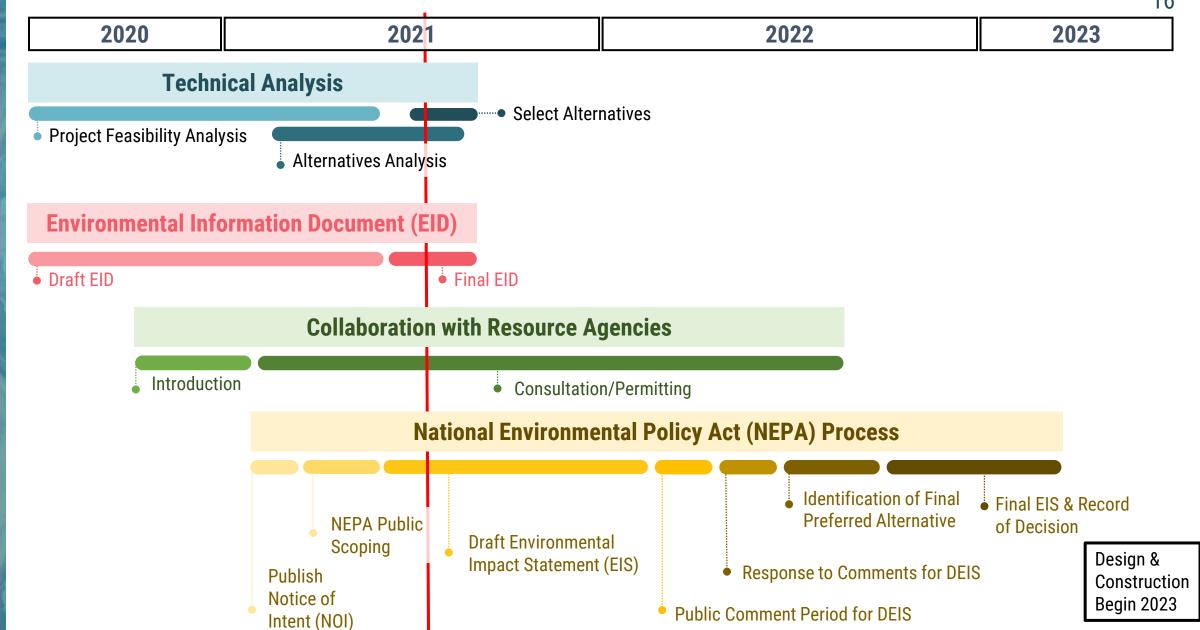
## **Technical Analysis Results**

**Discussion & Questions?** 

## **Next Steps & Upcoming Milestones**

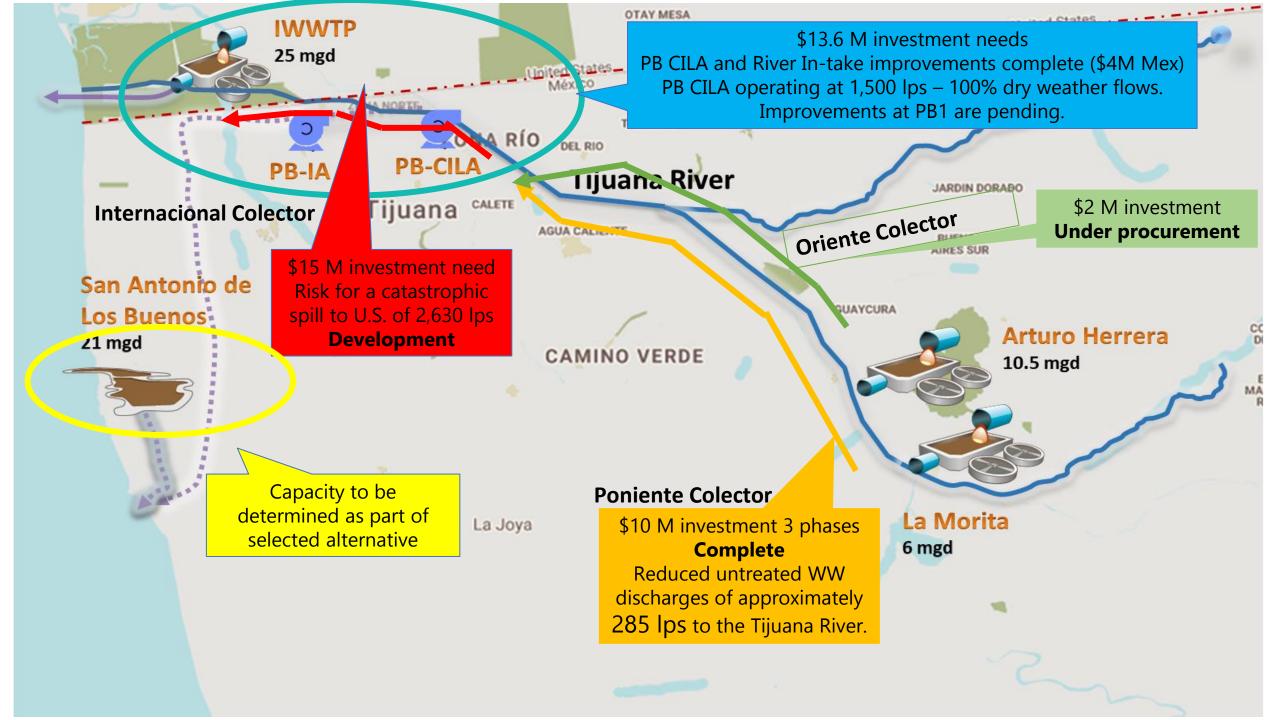
Doug Eberhardt, Environmental Engineer EPA Region 9

#### **USMCA Process: Overview**



## **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



#### 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:**

- ✓ 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

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## BC Tijuana Collector Poniente 1A











## BC Tijuana Collector Poniente 1A



**BEFORE:** 2 mgd discharge to TJ river

**ACTUAL:** 0 mgd discharge to TJ river





**DECEMBER 2020** 

**MAY 2021** 

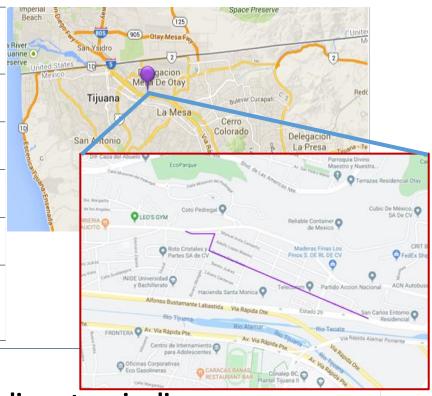
North American Development Bank

### BC Tijuana Oriente Collector Rehabilitation



#### **Project Summary** (Amounts in Dollars US)

Sponsor:	CESPT	Riv uarii eser
Estimated Cost:	\$ 1.8 m	
NADB Funding:	\$ 0.90 m	(
Funding Partners:	CONAGUA \$ 0.27 m and CESPT \$ 0.63 m	
Benefitted Population:	154,000	
Results:	41,435 improved connection, eliminated risk for WW discharges 7.1 mgd capacity	



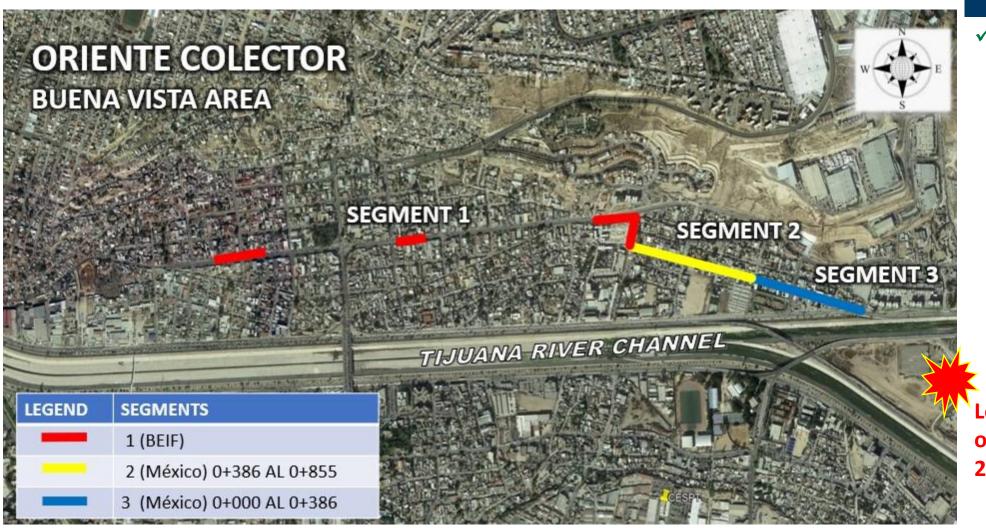
#### **Status:**

- ✓ Certified on August 21, 2020.
- ✓ Includes the installation of 1,346 meters of 42-inch diameter pipeline.
- ✓ Mexican segments 2 & 3 completed in December 2020.
- **✓** Mexican disbursements to date \$764,801 (MX\$ 17,402,962)
- ✓ CM procurement complete and construction of BEIF component under 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

North American Development Bank

