

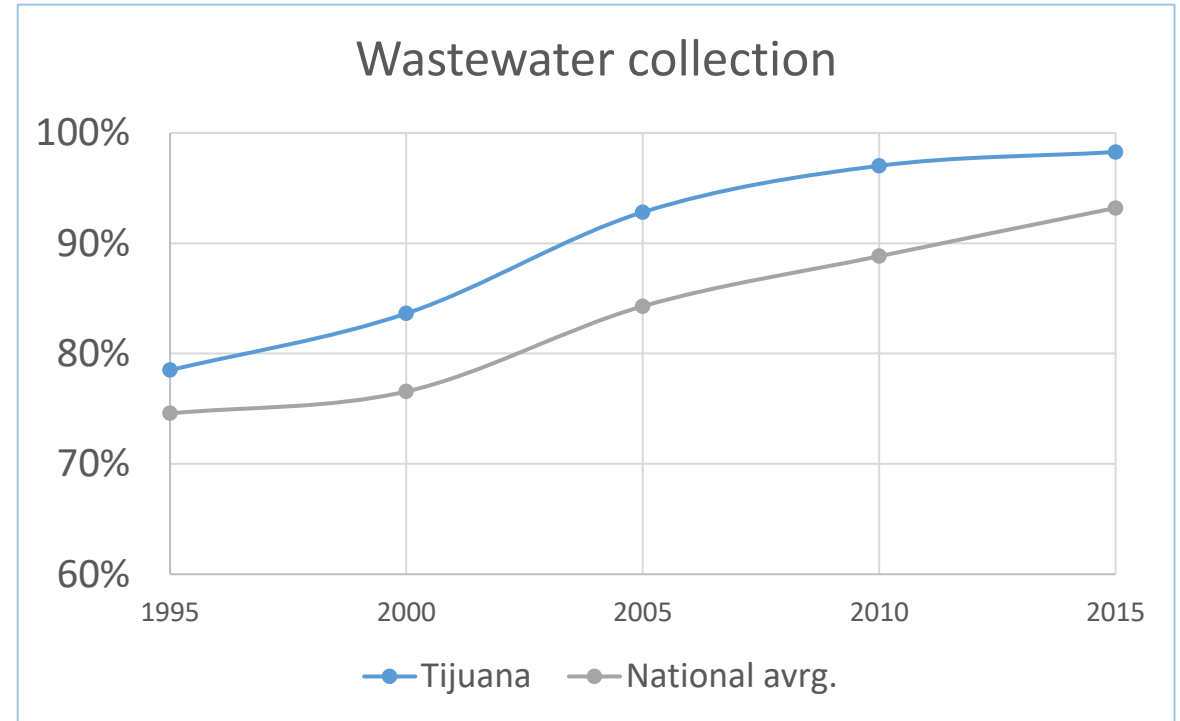
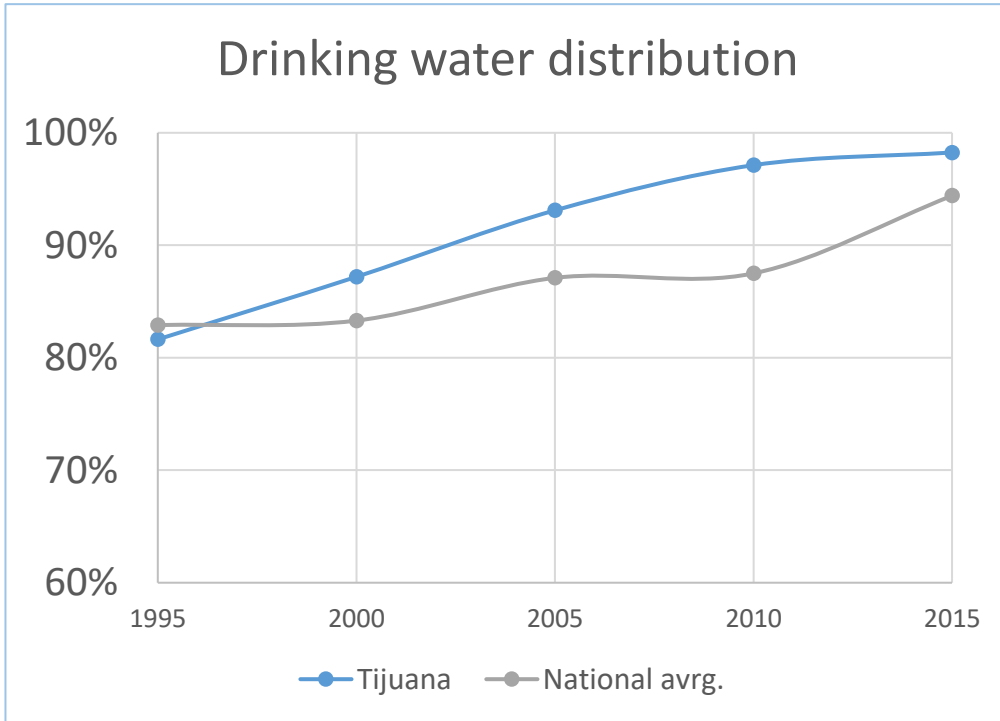


# Smart Border Coalition's Stakeholders Working Committee Meeting

July 9, 2020



# Important gains in basic infrastructure, reaching 98% coverage



## REMAINING NEEDS

- Gaps in basic service coverage
- Keep up with city's growth
- Aging infrastructure

# Plus significant progress in wastewater management

**1987** - San Antonio de los Buenos WWTP (750 lps)

**1991** – River diversion at PBCILA

**1997** – South Bay International WWTP (25 MGD, Advanced primary)

**2001** – Rehab and expansion SAB WWTP (25 MGD)

**2008** – Arturo Herrera WWTP (10.5 MGD)

**2010** – La Morita WWTP (6 MGD)

**2010** – Rehab and expansion of river diversion system SAAS

**2012** – Upgrade of South Bay IWWTP to Secondary treatment

## REMAINING NEEDS

- Rehabilitation SAB WWTP
- Rehabilitation/expansion river diversion system
- Water reuse
- Stormwater management and non-point source pollution control



# Since 1997, NADB has supported sanitation projects in Tijuana

## Implemented through 2019

Projects – COMPLETED TO DATE	Total Cost	NADB Financing (US Millions)
<b>Wastewater Treatment</b>	<b>39.19</b>	<b>27.08</b>
San Antonio de los Buenos	27.43	21.95
Rosarito I WWTP	5.35	4.58
La Morita WWTP	6.41	0.55
<b>Wastewater Collection</b>	<b>93.34</b>	<b>45.33</b>
Tijuana (SANA)	42.01	22.42
Tijuana (Coastal)	1.24	0.4
Tijuana (River Basin)	9.14	3.61
Col. Alcatraces	1.25	0.34
La Cuesta/SEDUE-SAAS	2.63	1.56
Tijuana WW 2014	7.05	4.04
Playas de Rosarito	10.02	3.73
Ejido Plan Libertador	1.49	1.17
Lucio Blanco	1.49	0.76

Projects – COMPLETED TO DATE	Total Cost	NADB Financing (US Millions)
<b>Wastewater Collection (cont)</b>		
Main Lines Rehabilitation	6.70	3.4
Colector Poniente Rehabilitation	4.16	1.5
Colector Poniente 1A Rehabilitation*	6.46	2.4
<b>TOTAL</b>	<b>132.53</b>	<b>72.41</b>



On-going construction at Colector 1A  
\*90% complete

Supported by BEIF Resources

# Projects are under development or construction in Tijuana



## TIJUANA PDAP/BEIF PROJECTS

Community	Project Type	Certification Date	Project Cost (USD)	%	BEIF Amount
Collector Poniente	Replacement of 4,500 m 42-inch diameter	2017 Q4	\$4,160,000	37%	\$1,520,000
Collector Poniente 1A	Replacement of 1,860 m 42-inch diameter	2019 Q3	\$6,460,000	37%	\$2,420,000
Collector Oriente	Replacement of 1,100 m 42-inch diameter	<b>2020 Q3</b>	\$1,790,576	50%	\$895,129
International Collector	Replacement/Rehab of 2,747 m 72-inch diameter	2021 Q1	\$17,840,000		
River Diversion System Improvements	Improvements PBCILA, PB1, Intake, pumps, SCADA	2021 Q1	\$13,609,000		
<b>TOTAL</b>			<b>\$43,859,576</b>		

Under Construction

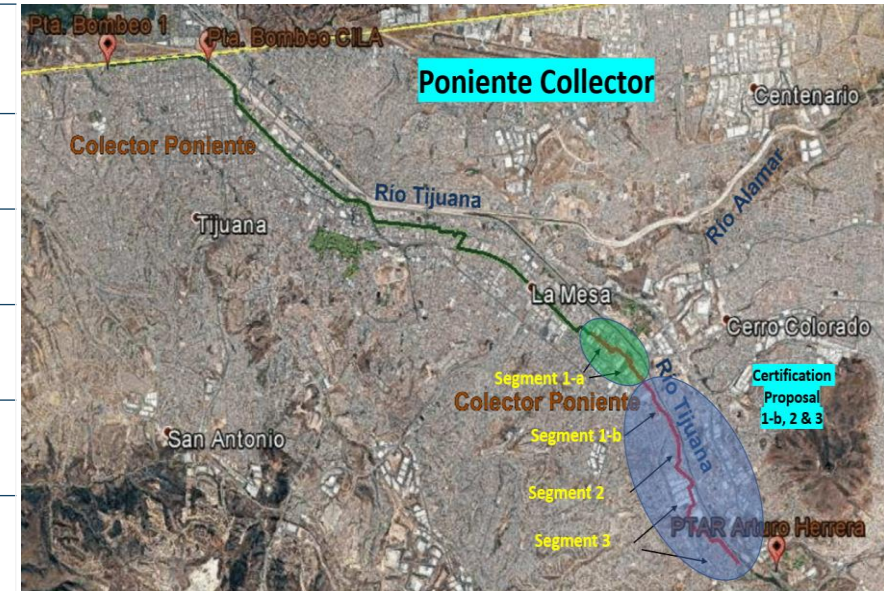
In Certification Process

Under Development

# Collector Poniente

## Project Summary (Amounts in Dollars US)

<b>Sponsor:</b>	CESPT
<b>Estimated Cost:</b>	\$ 4.2 M
<b>BEIF Funding:</b>	\$ 1.5 M
<b>Funding Partners:</b>	\$ 1.8 m CESPT and \$ 0.9 m CONAGUA
<b>Benefitted Population:</b>	87,000
<b>Results:</b>	23,500 improved connections, eliminated risk for WW discharges - 4 mgd capacity



<b>Status:</b>	<ul style="list-style-type: none"> <li>✓ Substantial completion June 2019 – 4,503 m installed</li> <li>✓ Final payment in review, expected final disbursement in June 2020</li> <li>✓ Mexican components 100% completed – 2.79 M</li> </ul>
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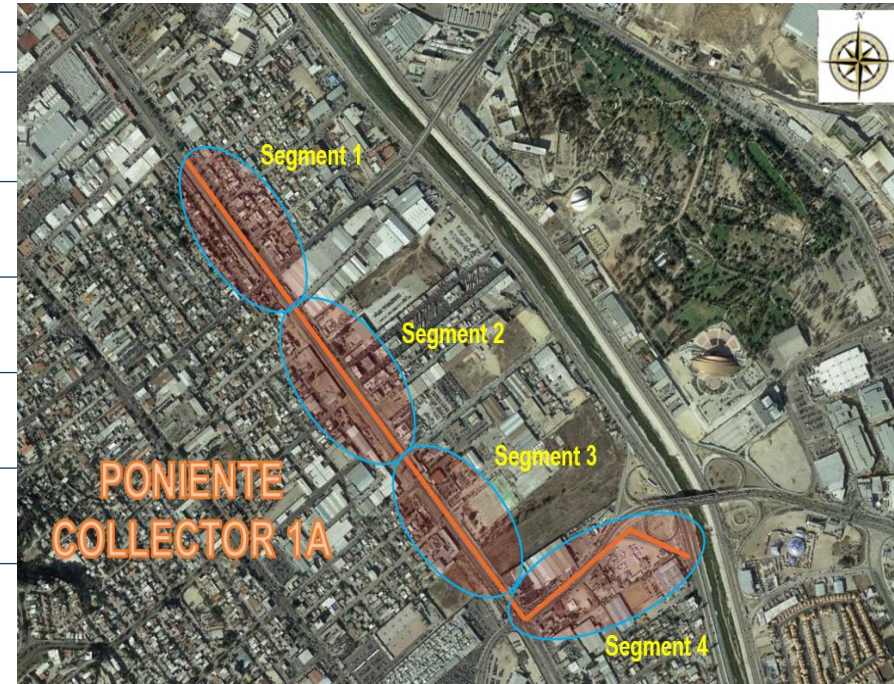
**COMPLETE**



# Collector Poniente 1A

## Project Summary (Amounts in Dollars US)

<b>Sponsor:</b>	CESPT
<b>Estimated Cost:</b>	\$ 6.5 m
<b>BEIF Funding:</b>	\$ 2.4 m
<b>Funding Partners:</b>	\$ 2.0 CESPT and \$ 2.0 CONAGUA
<b>Benefitted Population:</b>	87,000
<b>Results:</b>	23,500 improved connections, eliminated risk for WW discharges - 4 mgd capacity



### Status:

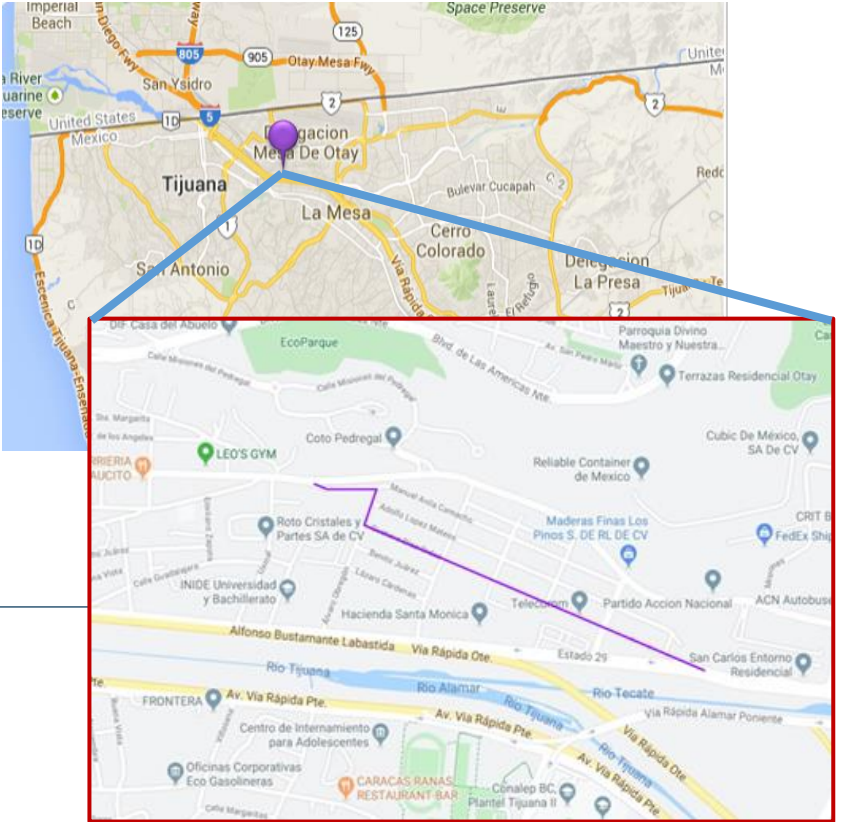
- ✓ 88% (1,632 m) completed pipe installation – 60% financial progress
- ✓ BEIF components 87% completed
- ✓ Mexican components 88% completed
- ✓ Pipe installation completion expected July 2020.
- ✓ Project completion expected August 2020.

**90% COMPLETE**

# Collector Oriente

## Project Summary (Amounts in Dollars US)

<b>Sponsor:</b>	CESPT
<b>Estimated Cost:</b>	\$ 1.8 M
<b>NADB Funding:</b>	\$ 0.9 M
<b>Funding Partners:</b>	CONAGUA \$ 0.3 M and CESPT \$ 0.6 M
<b>Benefitted Population:</b>	154,000
<b>Results:</b>	41,000 improved connection, eliminated risk for WW discharges 7 mgd capacity



<b>Status:</b>	<ul style="list-style-type: none"> <li>✓ US and Mexican environmental 100% completed.</li> <li>✓ Final design completed - Replacement of 1,100 m of 42-inch diameter</li> <li>✓ Financial Structure submitted by CONAGUA</li> <li>✓ Deal Sheet pending</li> <li>✓ Estimated certification Q3 2020</li> </ul>
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**CERTIFICATION PROCESS**



# International Collector

## Project Summary (Amounts in Dollars US)

<b>Sponsor:</b>	CESPT
<b>Estimated Cost:</b>	\$ 16 m
<b>NADB Funding:</b>	\$ 5.6 m
<b>Funding Partners:</b>	CONAGUA \$ 5.2 m and CESPT \$ 5.2 m
<b>Benefitted Population:</b>	906,295
<b>Results:</b>	244,944 improved connections, eliminated risk for WW discharges 60 mgd capacity



### Status:

- ✓ EID 100% complete.
- ✓ Construction Procedures and Sizing Analysis under development – 60% review May 5th – Video conference call proposed 2<sup>nd</sup> week of May
- ✓ Pending items:
  - Mexican and US environmental clearance
  - Final design - Replacement/Rehab of 2,747 m of 72-inch diameter
  - Financial Structure
  - Estimated Certification 1Q 2021

UNDER DEVELOPMENT

# Tijuana River Diversion System Improvements



## Project Summary (Amounts in Dollars US)

<b>Sponsor:</b>	CESPT
<b>Estimated Cost:</b>	\$ 15.0 m
<b>NADB Funding:</b>	\$ 6.0 m
<b>Funding Partners:</b>	CONAGUA \$ 4.5 m and CESPT \$ 4.5 m
<b>Benefitted Population:</b>	1,170,000
<b>Results:</b>	316,715 improved connection, eliminated risk for TRV transboundary flows 34 mgd capacity



### Status:

- ✓ **Tijuana River Intake re-design** trash and debris removal, and more efficient flow capture. New pipeline capacity of 1,500 lps, replacement of the 36" control valve, gate system, automatic screen system.
- ✓ **PBCILA Pump Station:** new trash rack, Vortex type to eliminate sand, installation of a 3 + 1 system with non-plug 125 HP motor-pump equipment, valves and appurtenances, replacing electrical conduits, new SCADA system, addition of new transformers of 350 kVA, installation of coarse and fine bar mechanical screens, improvements of the pump station wet well, 2 flow meters. *CILA initiated procurement in early June with CONAGUA's funds – EPA approved match credit*
- ✓ **PB1A and B Pump Stations:** new trash rack, replacing pumps, replacing piping, valves and appurtenances, replacing electrical conduits, new SCADA system, addition of new transformers of 500 kVA, installation of fine bar mechanical screens, new flow meters, improvements to electrical substation and an overhead crane, an emergency generator.

*\*This application was supported by the Tijuana Diversion Study funded by EPA, specifically Alternative 2b of the study*

# Moving forward...

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- ◆ Mexico is implementing improvements to river diversion system
- ◆ NADB continues development of BEIF projects
- ◆ USMCA implementation law:
  - Requires EPA to carry out planning, design, construction and operation and maintenance of treatment works in the Tijuana River watershed, in coordination with eligible entities
  - Appropriates \$300 million for planning, design and construction of high-priority wastewater facilities in the US-Mexico Border