

International Boundary and Water Commission United States Section

For immediate release August 6, 2025
TIME CHNAGE

USIBWC Southeast Arizona Citizens Forum Public Meeting in Tubac on August 12

The U.S. Section of the International Boundary and Water Commission (USIBWC) Southeast Arizona Citizens Forum board will host an in-person and virtual public meeting on:

Tuesday, August 12, 2025, from 3-5 p.m. MST.

- Francisco Morales, Project Manager, North American Development Bank, will present on his agency's wastewater projects aimed at preventing transboundary flows in the Nogales, Arizona, area.
- Joaquin Marruffo Ruiz, Border Programs Administrator, Arizona Department of Environmental Quality, will provide an update on progress, challenges, and plans for the Oso Wash and Brickwood Canyon projects in Arizona.

The public meeting will be held in person at:

Tubac Community Center Santa Cruz County, North Facility 50 Bridge Road, Tubac, AZ 85646

The public meeting will also be held virtually. <u>Click here to join the meeting</u>. If possible, it may be helpful for you to test connectivity on your own prior to the meeting by clicking on the "Join" link and ensuring your camera and microphone are functioning. Or join by phone: +1 915-320-4718,,604116403# Phone conference ID: 604 116 403#

For those connecting via phone, the presentations will be available before the start of the meeting. Go to the USIBWC Citizens Forum page at https://www.ibwc.gov/citizens-forums-past-meetings/ and look for the Southeast Arizona Citizen Forum meeting.

If you would like to speak during the public comment period, please sign up by contacting Frankie Pinon at frankie.pinon@ibwc.gov or 915-832-4716 by noon on August 8, 2025.

Media Contact:

Frankie Pinon <u>frankie.pinon@ibwc.gov</u> 915-832-4716

The USIBWC is dedicated to protecting Americans from exposure to Mexican sewage, maintaining and operating critical infrastructure, and ensuring the U.S. gets its fair share of water. We are committed to working with our federal, state, and local partners and our Mexican colleagues to spearhead these issues.

SOUTHEAST ARIZONA CITIZENS FORUM

TIME CHANGE

Tuesday, August 12, 2025, from 3-5 p.m. MST

Tubac Community Center

Santa Cruz County, North Facility 50 Bridge Road, Tubac, AZ 85646 And Via Teams

Agenda

• Welcome and Introductions – USIBWC Citizens Forum Board

Francisco Morales, Project Manager, North American Development Bank: Agency projects aimed at preventing transboundary flows in the Nogales, Arizona, area.

- Joaquin Marruffo Ruiz, Border Programs Administrator, Arizona Department of Environmental Quality: Update on progress, challenges, and plans for the Oso Wash and Brickwood Canyon projects in Arizona.
- Public Comment
- Board Discussion
- Suggested Future Agenda Items

If you have a disability that you wish to self-identify confidentially that requires accommodation, please advise us ahead of time. For more information call 915-832-4716 or email frankie.pinon@ibwc.gov

Microsoft Teams meeting

Join on your computer, mobile app or room device: Click here to join the meeting.

Meeting ID: 294 983 852 575 3 Passcode: CH7Ui7SQ

Download Teams | Join on the web

Or call in (audio only)

+1 915-320-4718,,604116403#

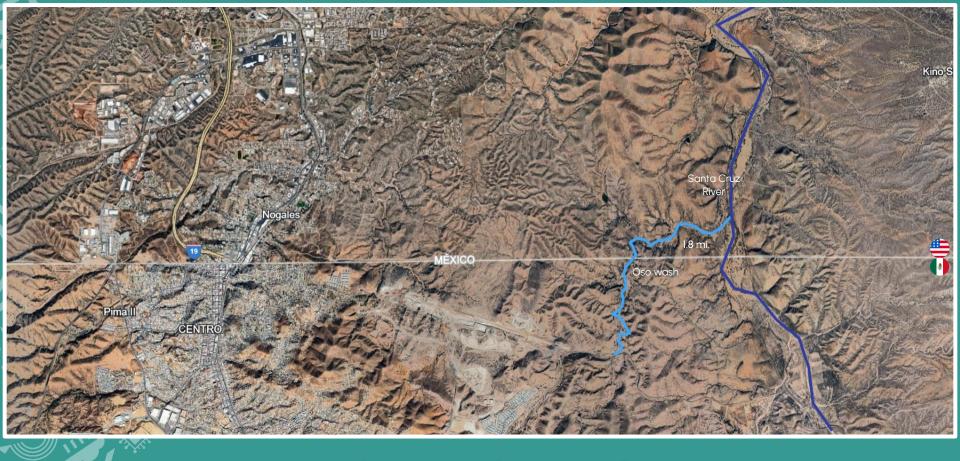
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Oso Wash / Brickwood Canyon

08.12.25







Treated wastewater flows across border east of Nogales

By Nick Phillips + Nogales International

Feb. 13, 2020



Treated wastewater from Nogales, Sonora has reportedly been flowing across the border at the location seen here for several years. Photo courtery of ADEQ

A federal environmental team was dispatched to Santa Cruz County this week in response to a report of wastewater flowing across the border from Mexico in an area several miles east of Nogales.

Sally Spener, spokeswoman for the International Boundary and Water Commission, said the investigators found bacteria in treated effluent flowing across the border at a rate of 80 liters per second, but determined that it wasn't raw sewage.

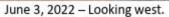








October 19, 2023 - Looking west.





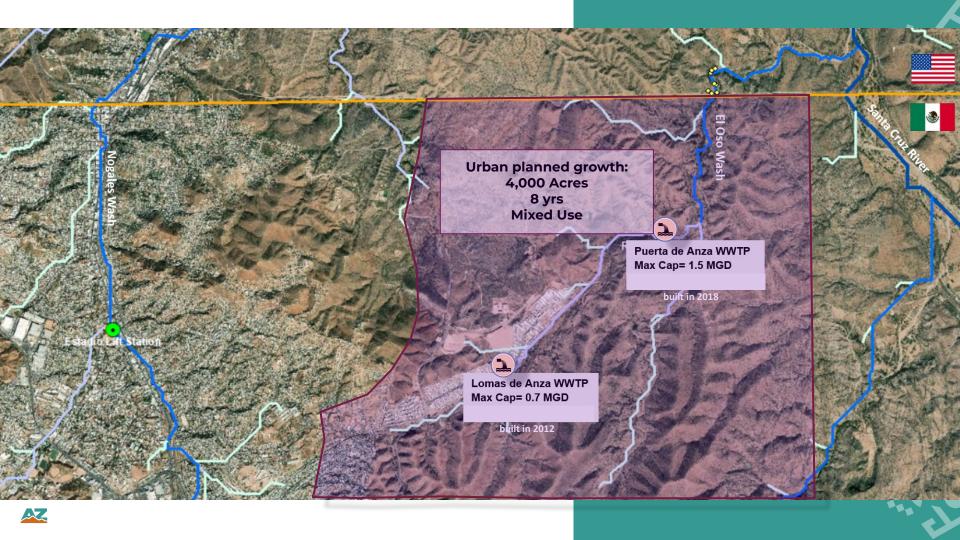
Shotcrete coated riprap provides erosion protection for concrete apron and border metal wall.







Video provided by NADBank







DNA-based microbial source tracking analysis (Jun 2020)



. Concentrations of the fecal genetic markers in Oso wash

Volume filtered	250	mL	Fecal marker	GC/mL	GC/100 mL	Fecal source
Ext. Volume	0.1	mL	C.coccoides	1.11E+04	1.11E+06	
Vol Examined	0.015	mL	BacHum	8.33E+00	8.33E+02	Human
fraction	0.15		Lachno	1.08E+02	1.08E+04	
Equiv. Vol.	37.5	mL	BacR	1.92E+02	1.92E+04	Ruminant

Interpretation of results: Fluorescence growth curves typical of qPCR assays were observed for each fecal genetic marker in the sample from Oso wash indicating the presence of the specific fecal anaerobic bacteria associated with human and ruminant hosts. The field blank did not yield any fluorescent growth curve indicating that the markers were not present in the field blank. Table 1 shows the relative concentrations of each marker expressed as genome copies per volume of water analyzed in milliliters (GC/mL and GC/100 mL) from Oso wash. These results indicate high levels of human and ruminant fecal source contibution to the creek. For comparison purposes, Table 2 shows the relative concentration of each marker in urban sewage and the specificity of each assay to distinguish sources of human and ruminant fecal contamination in environmental waters.



International Boundary & Water Commission United States Section Oso Wash Monitoring Report												
Month	Date	Temp	pH	<u>C12</u>	Turbidity	NH4 mg/L	NO3 mg/L	TKN mg/L	ORP mg/L	TN mg/L	COD mg/L	E-coli MP
March 2020												
	3/6/2020	14.4	7.49		4.17	2	1.35	2.62	164.7	8.26	15	>2419.6
	3/13/2020	14.6	7.52	0.05	3.12	1.9	8.87	8.42	171.2	14.6	164	>2419.6
	3/16/2020	23.5	7.51		31.9	1.42	1.77	2.07	-0.3	10.3	127	>2419.6
	3/20/2020	17.4	7.43		12.12	1.57	1.62	29.7	190.1	7.53	0	>2419.6
	3/27/2020		7.85	0.02		3.74	1.83	4.76	173.8	7.45	28	81
April 2020												
	4/3/2020	22.4	7.35	0.2	4.07	1.71	1.75	4.85	182.3	6.64	22	1553.1
	4/10/2020	20.2	7.59	0.15	5.44	2.19	3.04	3.59	226.7	6.64	33	
	4/17/2020	18.4	7.76	0.1	4.74	2.05	0.382	2.83	203.3	6.84	25	>2419.6
	4/24/2020	22.3	7.51	0.14	10.4	2.62	3.1	3.96	181.9	7.03	3	>2419.6
May 2020												
	5/1/2020	21.6	7.52	0.16	5.76	1.81	3.24	3.23	225.7	6.43	20	>2419.6
	5/8/2020	21.2	7.64	0.12						12.3	66	>2419.6
	5/10/2020	25.2	8.2	0.15			E-c	oli <u>N</u>	/lost	13.8	99	>2419.6
	5/15/2020	22.6	7.71	0.04	9121					9.96	72	>2419.6
	5/22/2020	23.9	7.94	0.25	Pr	roba	ble	Nun	nber	31	135	>2419.6
June 2020	5/29/2020	26.4	7.76	0.16	_			2,4:		8.03	41	980.6
	6/5/2020	23.7	7.44	0.2		-			414.4	7	132	>2419.6
	6/13/2020	23.7	7.51	0.03	6.12	2.26	1.76	5.32	150.1	7.08	14	2419.6



WWTP equipment purchase (2022)







Oso Wash Hydrological Model (2024)

El Oso Wash Watershed and Ecohydrological Study of Restoration

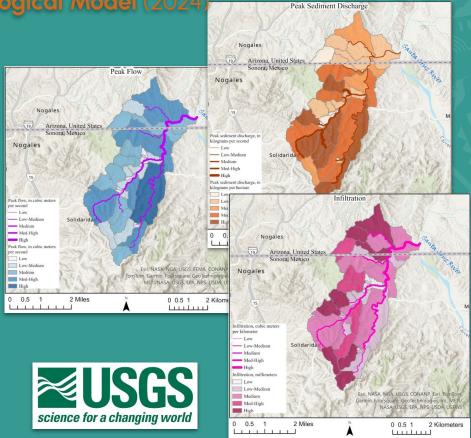
By Laura M. Norman¹, Claudia Gil Anaya², Joaquín Marruffo², and Iván E. López-Castrillo¹

Introduction

A Collaborative Agreement between the U.S. Geological Survey (USGS) and the Arizona Department of Environmental Quality (ADEQ), dated May 26, 2023, was created with goals to (1) assess the current conditions of the El Oso Wash/Brickwood Canyon, located east of the City of Nogales, Arizona, draining from Sonora, Mexico, into the United States, and (2) develop at least three nature-based alternatives to reduce Escherichia coli levels.

The USGS has a long history of providing technical assistance for the purposes of assessing and documenting land-use change. Research conducted by the USGS' Aridlands Water Harvesting Study documented the generation of soil-water-carbon sponges created when structures made of earth, wood, debris, or rock are installed in dryland arroyos (Norman, 2021). In the Madrean Archipelago Ecoregion in southwest Arizona and parts of New Mexico, the USGS documented that riparian detention structures can support the development of freshwater, wetland-like sponges that facilitate adaptation of water-limited environments to mitigate climate change (Norman, 2020). Such structures help to restore and regulate stream temperature because of their ability to detain water, sequester carbon, and extend the longevity and area of green growth in riparian areas-with empirical science mimicking these same results in Oregon, Idaho, Wyoming, California, Nevada, Utah, and Colorado (Norman et al., 2022b). The model described below was used to provide estimates of rainfall distribution, stream discharge, sediment, and percolation/infiltration that can be used to identify where Natural Infrastructure in Dryland Streams (NIDS) will be most appropriately located. Various data sources were used to develop scenarios and impacts of proposed strategies to control stormwater and reduce pollution. The resulting model scenarios are described in this report.

This study focuses on methodologies to reduce or remove the *E. coli* to levels permitted by State and Federal authorities. A natural or low area impact (footprint) is desirable. Various data sources were used to develop scenarios and impacts of proposed strategies to control stormwater and reduce pollution. USGS developed a baseline scenario using the Kinematic Runoff and Erosion (KINEROS) within the Automated Geospatial Watershed Assessment (AGWA) tool to provide estimates of rainfall distribution, stream discharge, sediment, and percolation/infiltration that can be used to identify where best management practices can be most beneficial (Burns et al., 2004; Goodrich et al., 2012). The sediment transport could be considered an indicator of how *E. coli* might be conveved through the system.





¹ U.S. Geological Survey, Western Geographic Science Center, Tucson, AZ 85719

² Arizona Department of Environmental Quality, Tucson, AZ 85701



Water Use Alternative Analysis in advance of future flows from Oso Wash

One of the objectives of this study is to identify and propose concrete actions that allow to improve the operational efficiency of the wastewater treatment plants in Nogales, Sonora to have the effluent comply with the standards.

Binational Taskforce





































Current Situation

- Additional connections to the planned ones (2020-2025)
 have exceeded the wwtp capacity for treatment.
- Nogales Sonora water utilities (OOMAPAS) has expressed their inability to address the current situation with the existing conditions.



Solutions

- 1. For the US side of the Oso Wash, continue advancing in the development of a nature-based contingency system to restore the riparian ecosystem of the SCR.
- 2. Nogales Sonora needs to expand the treatment capacity for this area:
 - Expanding the existing wwtp capacity
 - Require the construction of wwtp to the new developments as the area grows.
- 3. Implement nature based solutions in the Mexican portion of the Oso Wash.



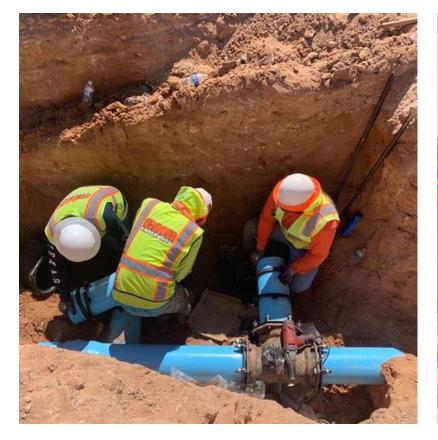


Thank you

Joaquin Marruffo Ruiz marruffo.joaquin@azdeq.gov 520.628.6744



Second Presentation







Addressing Environmental Issues on the U.S.-Mexico Border



July 15, 2025

NADBank



Established in 1994

- Mandate: Develop and finance environmental infrastructure along the U.S.-Mexico border to improve the well-being of the population:
 - Projects located within 100 km north and 300 km south of the border that
 - Provide loans and grants for their implementation
 - Offer technical assistance for project development
- Structure: Owned and governed equally by the Governments of the United States and Mexico
- ◆ Offices: San Antonio, TX and Ciudad Juarez, CHIH
- ◆ Ratings: Aa1 Moody's; AA Fitch

Governance



Board of Directors

 NADBank has a ten-member, binational Board of Directors, with an equal number of representatives from each country.

U.S. Members	Mexico Members
Secretary of the Treasury	Secretary of Finance and Public Credit (SHCP)
Secretary of State	Secretary of Foreign Affairs (SRE)
Administrator of the Environmental Protection Agency	Secretary of the Environment and Natural Resources (SEMARNAT)
U.S. Border State Representative	Mexican Border State Representative
U.S. Border Public Representative	Mexican Border Public Representative



















Jurisdiction



U.S.- Mexico Border Region

- Eligible projects must be located within 100 km north and 300 km south of the U.S.-Mexico border
 - ♦ U.S. Border
 - 41 counties in four states
 - Population: 6.34 million (2.05% of U.S. population)

Geographic Jurisdiction

Mexican Border

- 220 municipalities in six states
- Population: 16.41 million (14.61% of Mexican population)

United States State Population Arizona 912,519 California 3,197,461 New Mexico 179,579 Texas 2,049,360 Total 6,338,919 Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745 Total 16,410,322	Population witl	Population within Jurisdiction				
Arizona 912,519 California 3,197,461 New Mexico 179,579 Texas 2,049,360 Total 6,338,919 Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	United	States				
California 3,197,461 New Mexico 179,579 Texas 2,049,360 Total 6,338,919 Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	State	Population				
New Mexico 179,579 Texas 2,049,360 Total 6,338,919 Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Arizona	912,519				
Texas 2,049,360 Total Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	California	3,197,461				
Total 6,338,919 Mexico State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	New Mexico	179,579				
State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Texas	<u>2,049,360</u>				
State Population Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Total	6,338,919				
Baja California 3,151,135 Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Mexico					
Chihuahua 2,974,318 Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	State	Population				
Coahuila 1,774,565 Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Baja California	3,151,135				
Nuevo León 4,614,869 Sonora 1,646,690 Tamaulipas 2,248,745	Chihuahua	2,974,318				
Sonora 1,646,690 Tamaulipas 2,248,745	Coahuila	1,774,565				
Tamaulipas <u>2,248,745</u>	Nuevo León	4,614,869				
•						
Total 16,410,322	Tamaulipas					
	Total	16,410,322				

Eligible Sectors



Project Types



WATER

- » Drinking
- » Wastewater
- » Conservation
- » Stormwater



SOLID WASTE

- » Municipal
- » Industrial
- » Recycling



AIR QUALITY

- » Mobility
- » Paving
- » Border crossings
- » Industrial emissions



SUSTAINABLE ENERGY

- » Generation
- » Storage
- » Efficient use



SUSTAINABLE CITIES

- » Urban development
- » Sustainable buildings
- » Industrial parks



SUSTAINABLE PRODUCTION

- » Green manufacturing and products
- » Food value chains



CLIMATE CHANGE

- » Mitigation
- » Adaptation

Certified Projects with Financing

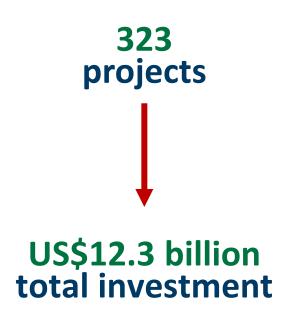


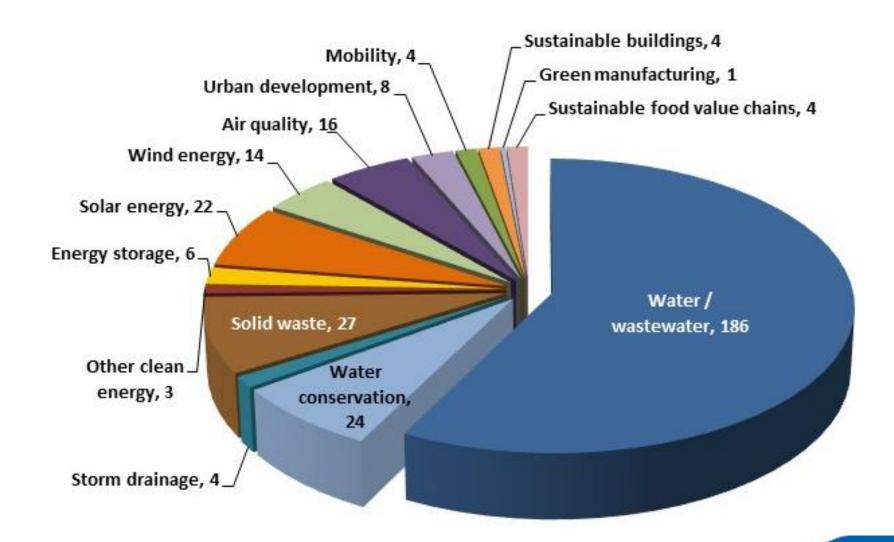


Projects Funded by Project Type



December 31, 2024



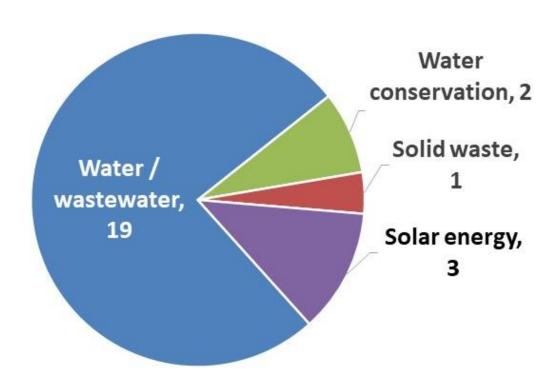


Arizona



December 31, 2024

25 projects certified and financed
25 projects completed and in operation



◆ U\$\$209.1 million in financing contracted U\$\$209.1 million disbursed (100%)

US\$ Million

Community	No. of Projects	Financing Contracted		
Bisbee	2	\$ 12.3		
Douglas	2	11.3		
Gadsden	1	1.3		
Nogales	4	63.3		
Patagonia	3	2.0		
Picture Rocks	1	58.9		
San Luis	1	0.5		
Sierra Vista	1	2.3		
Somerton	2	4.7		
Tombstone	1	0.5		
Tucson	2	40.7		
Whetstone	1	0.5		
Willcox	1	4.7		
Yuma County	3	6.1		

Impact in Arizona



December 31, 2024







- ◆ 5.44 million gallons a day of new or improved wastewater treatment capacity
- 52,583 acre-feet/year in water savings in irrigation districts
- ◆ 37.6 MW of installed solar generation capacity, which is helping prevent the emission of approximately 49,477 metric tons/year of CO₂, equivalent to removing 10,661 passenger vehicles from the roadways
- 1 sanitary landfill expanded

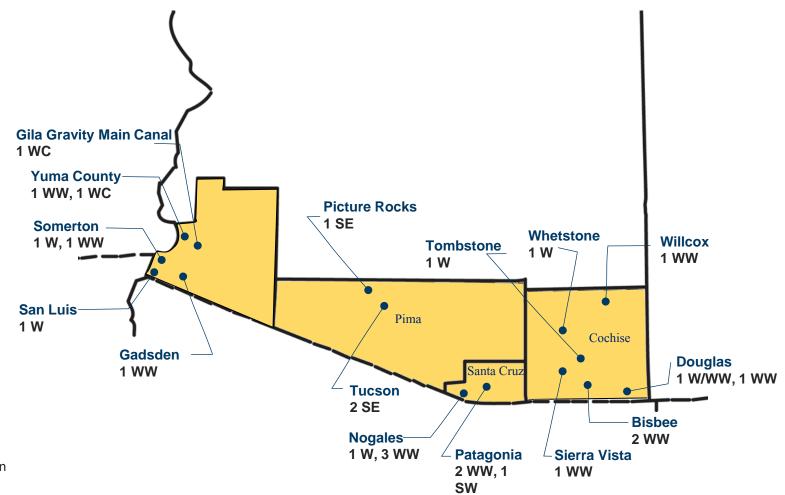
Participation in Arizona



December 31, 2024

25 projects financed

◆ US\$209.1 million in financing contracted



WC = Water conservation WW = Wastewater

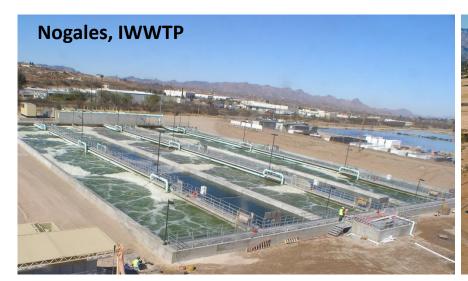
SE = Solar energy

SW = Solid waste

W = Water

Projects in Arizona

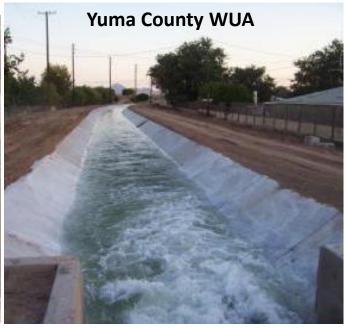










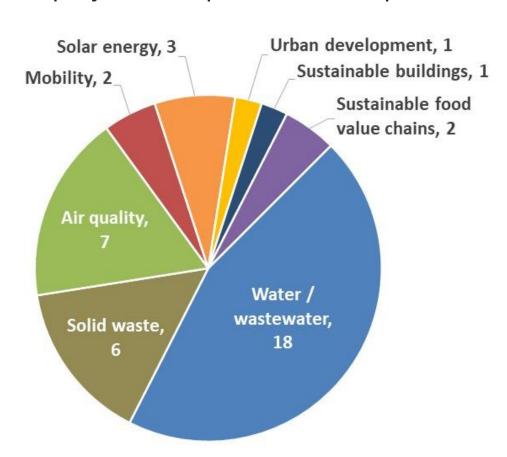


Sonora



December 31, 2024

40 projects certified and financed
 33 projects completed and in operation



◆ US\$435.9 million in financing contracted* US\$424.4 million disbursed (97.4%)

US\$ Million

Community	No. of Projects	Financing Contracted
Agua Prieta	4	\$ 4.8
Benjamín Hill	1	100.0
El Sásabe	1	0.4
Hermosillo*	8	127.0
Ímuris	1	0.5
Magdalena de Kino	1	0.5
Naco	4	2.3
Nogales	7	58.1
Pitiquito	1	66.0
Puerto Peñasco	2	4.4
San Luis Río Colorado	9	69.5
Sonoyta	1	2.3

^{*} Includes the participation of public transportation companies in 2 border-wide low-emission bus programs.

North American Development Bank

Impact in Sonora



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December 31, 2024







- ◆ 82 million gallons a day of new or improved wastewater treatment capacity
- 5 sanitary landfills constructed, 1 sanitary landfill expanded, and 1 open-air dumpsite closed
- Approximately 3 million square meters of streets paved or rehabilitated to reduce vehicular dust (PM₁₀)
- ◆ 1 new border crossing, relocating commercial traffic outside a densely-populated urban area, thus expediting traffic flows at both bridges and reducing idling times, fuel consumption and exhaust emissions
- ◆ 567.5 MW of installed solar generation capacity, which is helping prevent the emission of approximately 742,992 metric tons/year of CO₂, equivalent to removing 160,092 passenger vehicles from the roadways
- ◆ 70 low-emission buses in circulation

North American Development Bank

Participation in Sonora



December 31, 2024

- ◆ 40 projects certified and financed
- ◆ US\$435.9 million in financing contracted

AQ = Air quality

MO = Mobility

SB = Sustainable buildings

SE = Solar energy

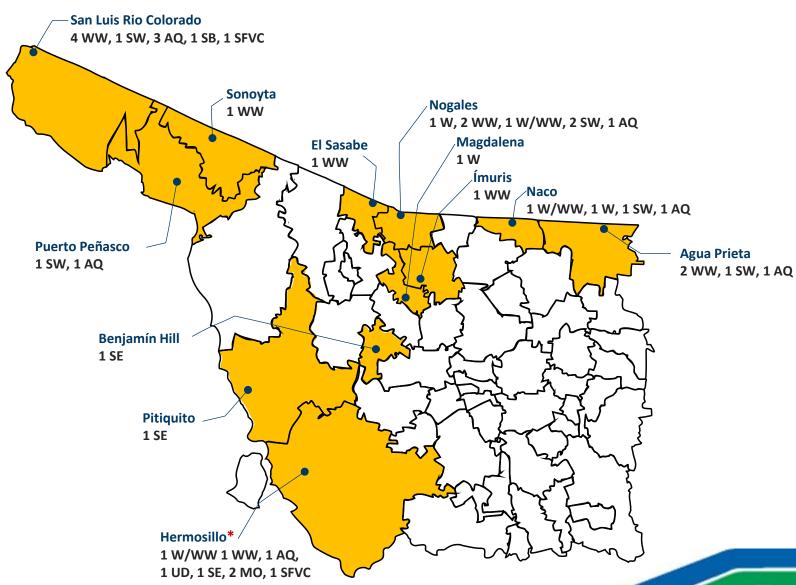
SFVC = Sustainable food value chain

SW = Solid waste

UD = Urban development

W = Water

WW = Wastewater



^{*} Includes participation in two borderwide public transportation projects

Projects in Sonora





















NOGALES Projects Under Development



Technical
Services
&
Grants

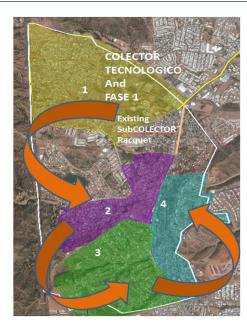


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SN Nogales DW & WWC Southwest Colonias Expansion

Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 10.5 M
NADB Funding:	BEIF US\$ 5.3 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: US\$ 5.2 M
Expected Results:	Mitigate risk untreated WW discharges into the Arroyo Los Nogales



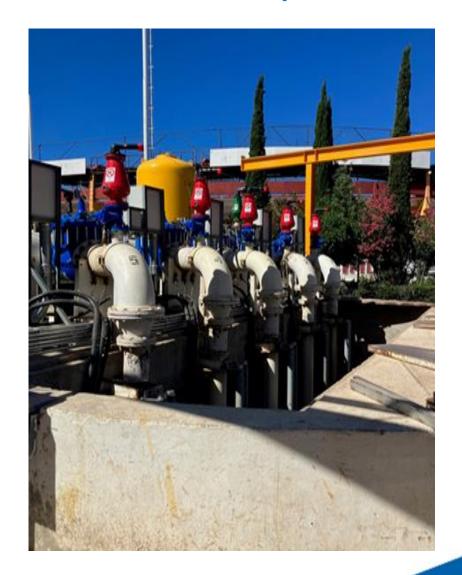


Metric	Unit	Value
Population benefited	population	16,701
New residential DW hookups installed	connections	2,350
New access to WWC services	connections	3,506
Drinking water distribution lines installed	miles	19.11
New WWC lines installed	miles	23.45
Improved WW lift stations	number	1
Improved WW lift station capacity	mgd	12.6
WW discharges eliminated	mgd	0.93



SN Nogales DW & WWC Southwest Colonias Expansion







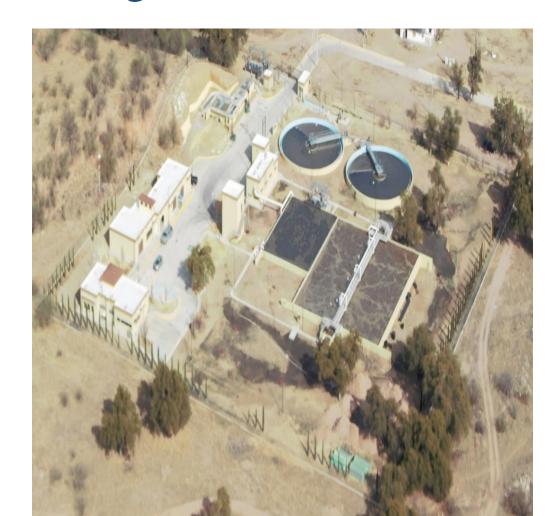
SN Nogales Los Alisos WWTP Expansion - Module 3

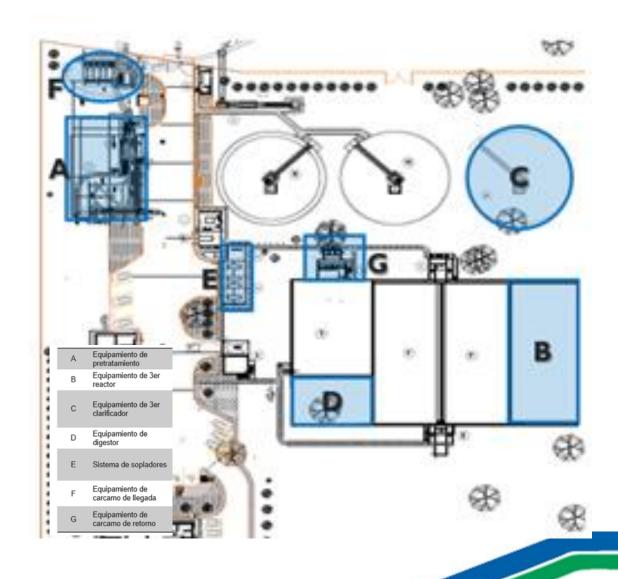
Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 2.5 M
NADB Funding:	BEIF US\$ 1.25 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: US\$ 1.25 M
Expected Results:	Reduce transboundary untreated WW discharges into the U.S.

Metric	Unit	Value
Population benefited	population	47,520
Improved access to WWC services	connections	12,500
WW discharges eliminated	mgd	2.5
Additional WW treatment capacity	mgd	2.5



SN Nogales Los Alisos WWTP Expansion - Module 3





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Development



SN Nogales Colinas del Sol & Colonia B Vista WWC & WWTP

Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 5.5 M
NADB Funding:	BEIF US\$ 2.75 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: Pending
Expected Results:	Eliminate untreated WW discharges into a transboundary watershed

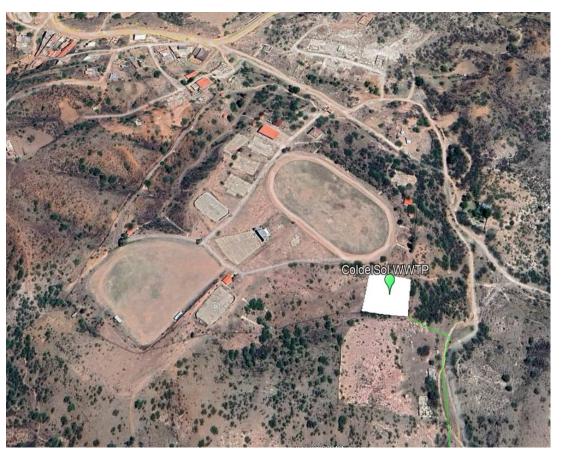
Metric	Unit	Value
Population benefited	population	6,500
Improved access to WWC services	connections	812
New access to WWC services	connections	813
New WWC lines installed	miles	2.53
WW discharges eliminated	mgd	0.41
New WW treatment capacity	mgd	0.47





Development SN Nogales Colinas del Sol & Colonia B Vista WWC & WWTP







SN Nogales Mascareñas WWC & WWTP

Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 2 M
NADB Funding:	BEIF US\$ 1 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: US\$ 1 M
Expected Results:	Eliminate untreated WW discharges into a transboundary watershed

Metric	Unit	Value
Population benefited	population	1,140
New access to WWC services	connections	285
New WWC lines installed	miles	3.26
WW discharges eliminated	mgd	0.11
New WW treatment capacity	mgd	0.19













SN Nogales LAnza & PAnza WWTPs Rehabilitation

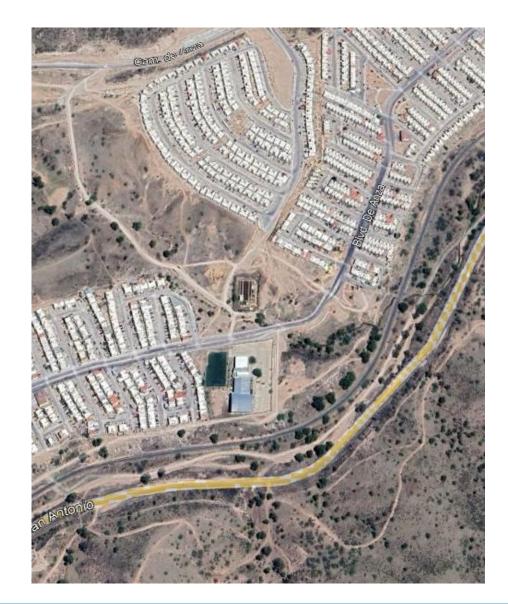
Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 3 M
NADB Funding:	BEIF US\$ 1.5 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: Pending
Expected Results:	Eliminate inadequately treated WW into the Oso Wash

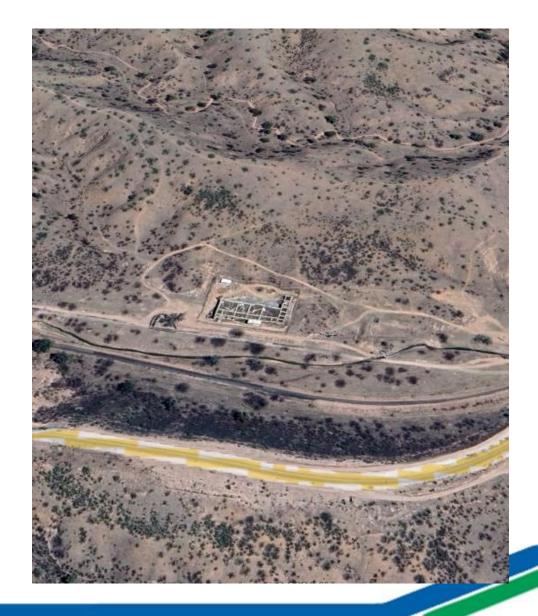
Metric	Unit	Value
Population Benefited	population	33,565
Improved access to WW services	connections	9,072
Improved WW Treatment	mgd	1.7
Risk of potential WW discharges eliminated	mgd	1.7





SN Nogales LAnza & PAnza WWTPs Rehabilitation





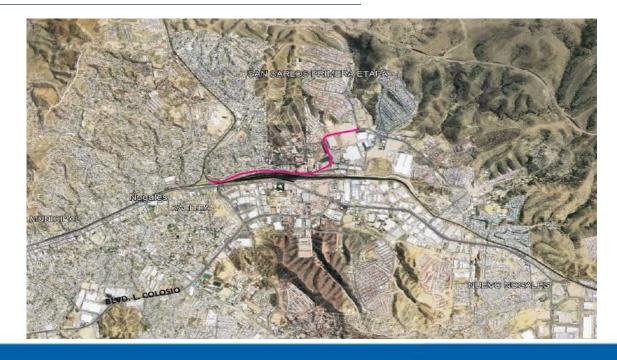




SN Nogales Relocation of Arroyo Los Nogales Collector

Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 1.5 M
NADB Funding:	BEIF US\$ 1.5 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: US\$ 0 M
Expected Results:	Mitigate risk of untreated WW discharges into Arroyo Los Nogales

Metric	Unit	Value
Population benefited	population	50,000
Improved access to WWC services	connections	25,000
Improved WWC lines installed	miles	1.39
Risk of potential WW discharges	mgd	2.64
eliminated		



Development



SN Nogales Relocation of Arroyo Los Nogales Collector

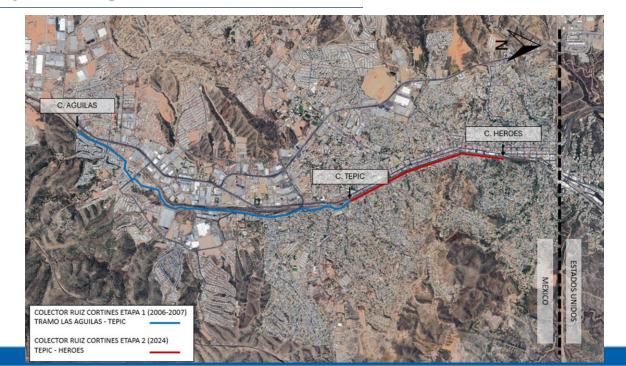




SN Nogales Ruíz Cortines Collector Rehabilitation

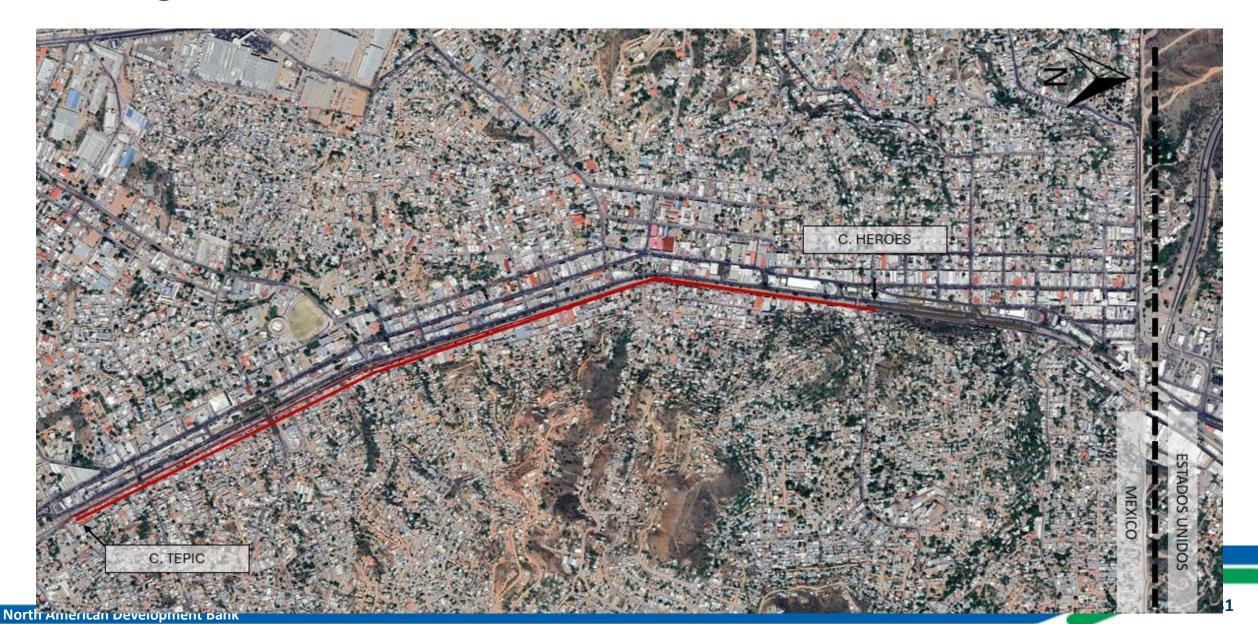
Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 2.5 M
NADB Funding:	BEIF US\$ 0 M
Funding Partners:	SIDUR: US\$ 2.5 M
Expected Results:	Mitigate risk of untreated WW discharges into Arroyo Los Nogales

Metric	Unit	Value
Population benefited	population	95,000
Improved access to WWC services	connections	12,126
Improved WWC lines installed	miles	3.53
Risk of potential WW discharges	mgd	5.02
eliminated		





SN Nogales Ruíz Cortines Collector Rehabilitation





SN Nogales Downtown WWC Rehabilitation

Sponsor:	OOMAPAS Nogales
Estimated Cost:	US\$ 2 M
NADB Funding:	BEIF US\$ 1.5 M
Funding Partners:	CONAGUA; CEA; OOMAPAS: Pending
Expected Results:	Mitigate risk of untreated WW discharges into Arroyo Los Nogales

Metric	Unit	Value
Population benefited	population	15,000
Improved access to WWC services	connections	5,500
Improved WWC lines installed	miles	4.43
Risk of potential WW discharges eliminated	mgd	0.79

