



# Naco Sonora Wastewater Discharges to Naco Arizona Emergency Repairs

Southeast Arizona Citizens Forum  
VTC February 11, 2021

## Fundamental Objective:

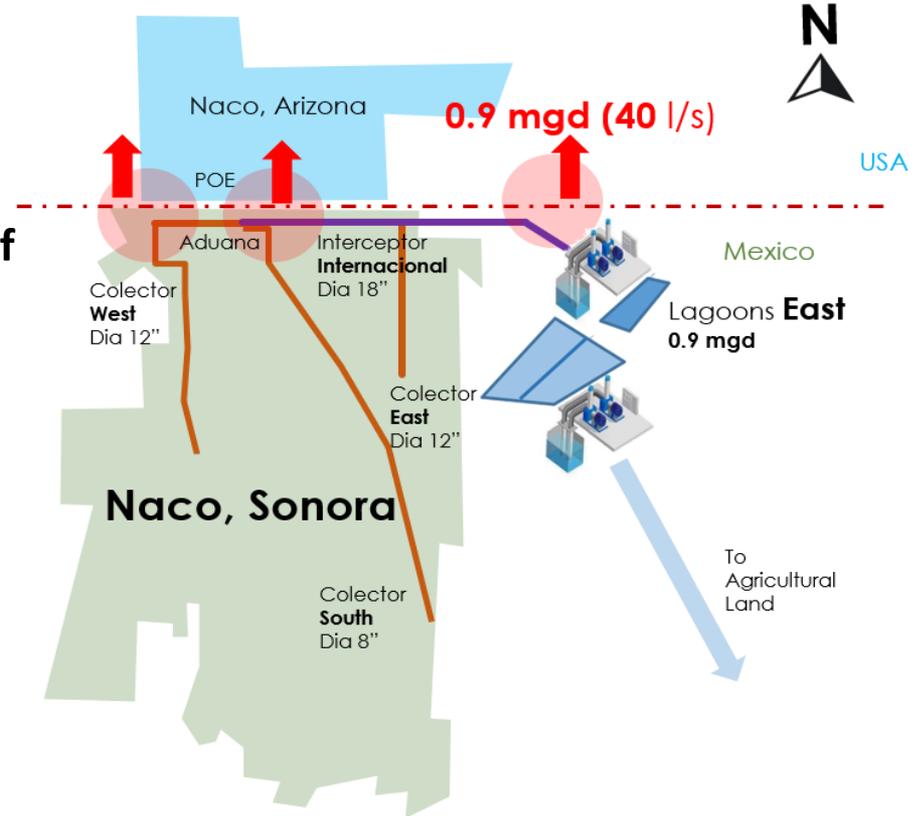
To address a sanitary sewer overflow (SSO) estimated at 20 liters per second (lps) or 450,000 gallons per day (gpd) from the city of Naco, Sonora to the Naco, Arizona.

## Outcomes:

Temporarily eliminated (0.9 mgd) 20 lps of SSOs. It was later found that the backflows were generated by collapses of the western portion of border collector.

## Partnerships:

CILA/IBWC, CONAGUA, ADEQ, CEA Sonora, OOMAPAS Naco,



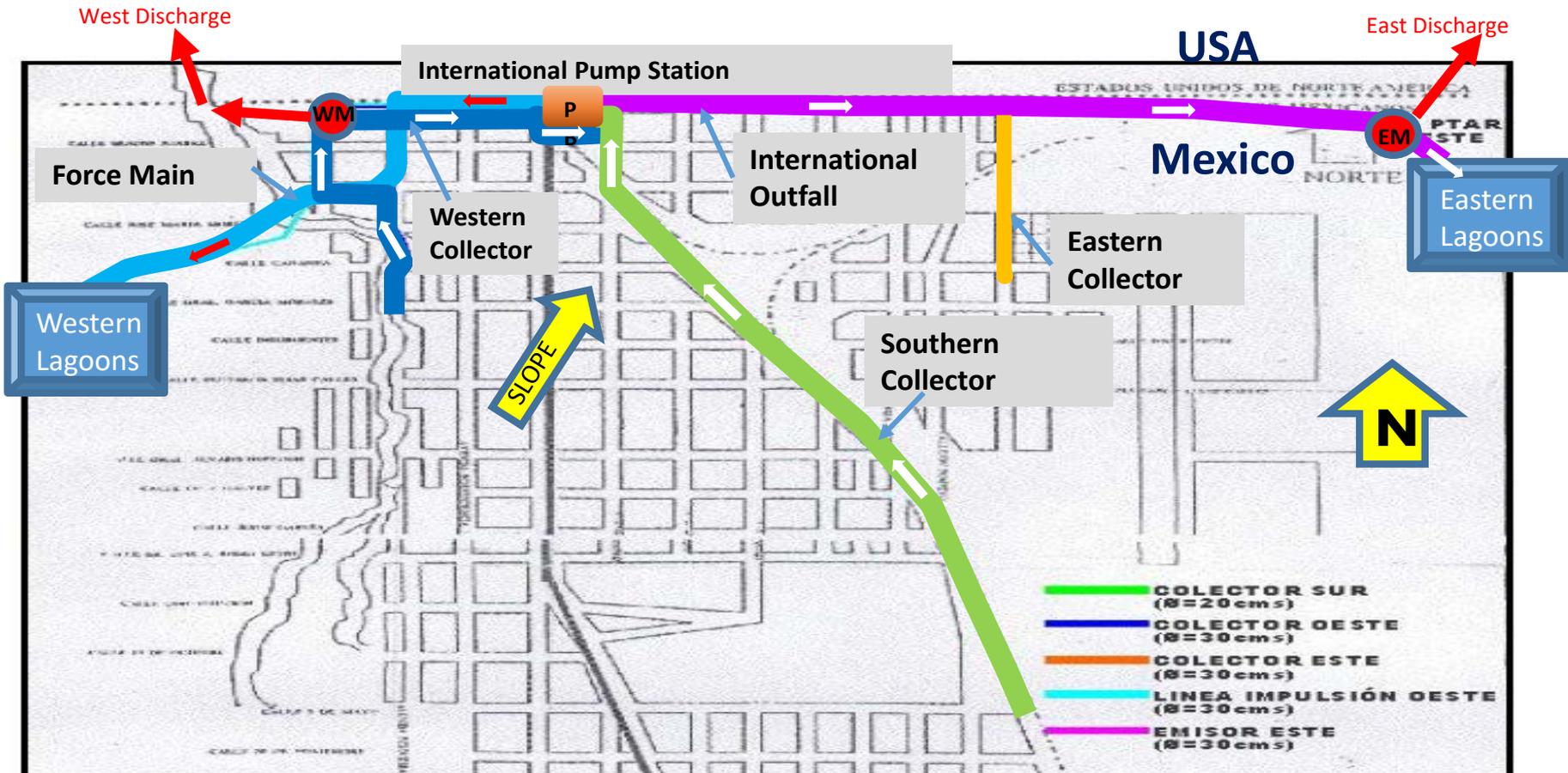
## Photos

**7/18 In coordination with ADEQ, NADB installs submersible pump and transformer in International Pump Station**



**8/18 CILA installs a second submersible pump in International Pump Station**

# SON Naco Emergency Technical Assistance - Sanitary Sewer Overflows (SSO's)



## Photos

### 9/17 IBWCs pump in East Lagoon



### 9/17 Materials provided by NADB, Pump by CEA



## Photos

10/17 NADB hires cleaning equipment and CEA donates pump

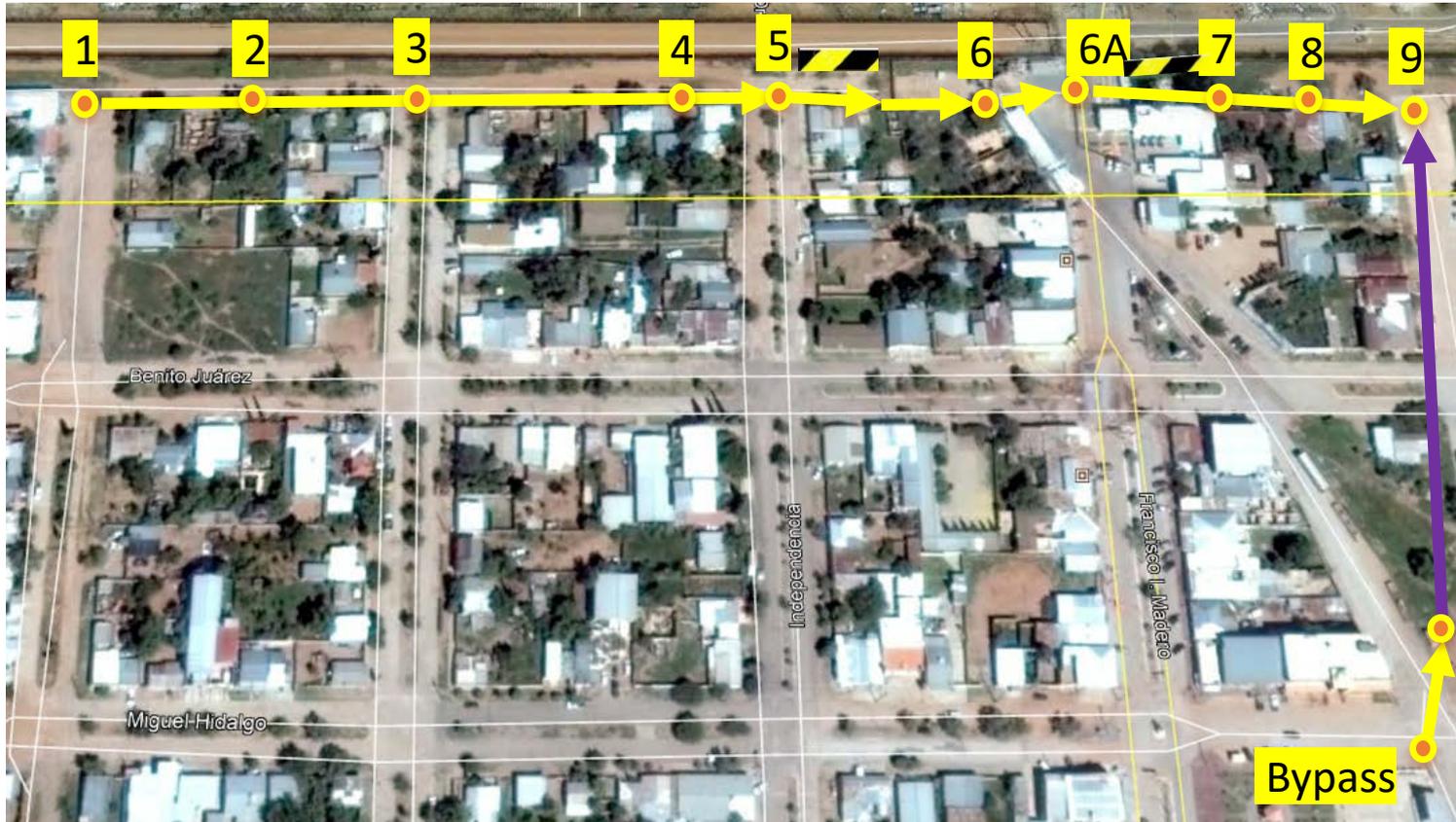


## Outcomes:

In 2019, the West Section of the Outfall Interceptor was later replaced eliminating most SSO's (completed in September 2019), and the long-term solution is currently under development by NADB/EPA.



## West Portion Outfall Interceptor Replacement



530 meters of 12-inch pipe installed (100%) and in operation

# SON Naco Emergency Technical Assistance - Sanitary Sewer Overflows (SSO's)



**Main Interceptor TESTING 493 meters**  
NADB borrowed 2-inflatable plugs from  
Nogales and Douglas, AZ  
Test expected on Monday 8/3/2019

**East View**

**Manhole #1**

**Manhole #5**

**Aduana**

## Main Interceptor – Aduana Area Construction / Incidentals



Downstream of MH#5

Aduana

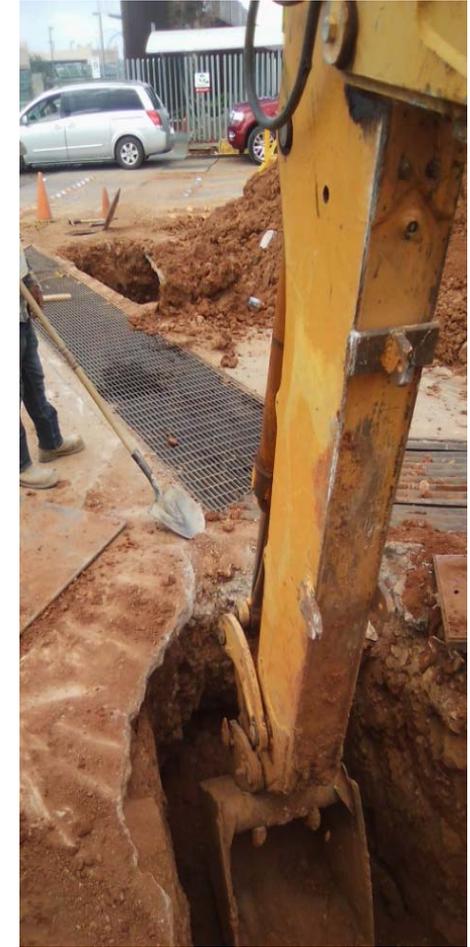
Landscaping details

## Incidentals and conflict resolution



Down stream of MH#5: Construction of concrete box to solve intersection of new and old pipe

## Incidentals and conflict resolution



Aduana area

## Incidentals and conflict resolution



Landscape area

## SOW Naco Diagnostic Study Tasks (PDAP/BEIF)

Notification Letter: August 9, 2019

- 1) Collect Background and Technical Information**
- 2) Video Inspection of Sewer Mains (5 km)**
- 3) Evaluation of Existing Infrastructure**
  - a) Sewer Lines and Mains (DW loss, DW and Stormwater I&I)*
  - b) East Lagoon WWTP (Configurations, US, Pump Stations, etc )*
  - c) Operation and Maintenance Programs (O&M recommendation checklists)*
- 4) Alternative Analysis**
- 5) Evaluation of Alternatives**
- 6) Project Delivery Options: Preliminary Design (Conventional) or Basic Engineering (Design-Build)**

**Thank you for your Attention**