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,
SON Naco Emergency Technical Assistance - Sanitary Sewer Overflows (SSO’s)

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)
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Photos

9/17 IBWCs pump in East Lagoon

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

10/17 NADB hires cleaning equipment and CEA donates pump
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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.
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West Portion Outfall Interceptor Replacement

530 meters of 12-inch pipe installed (100%) and in operation
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Main Interceptor TESTING 493 meters
NADB borrowed 2-inflatable plugs from Nogales and Douglas, AZ
Test expected on Monday 8/3/2019
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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
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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