

Arizona/Sonora Commission

Meeting

June 3, 2011



Status of Ongoing Sanitation Projects in Ambos Nogales

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International Boundary & Water Commission

United States and Mexican Sections

Agenda

Current Issues

- Nogales IWTP
- Nogales Wash and IOI
- Nogales Sonora Sanitation
- * Next steps
- * Questions

NIWTP

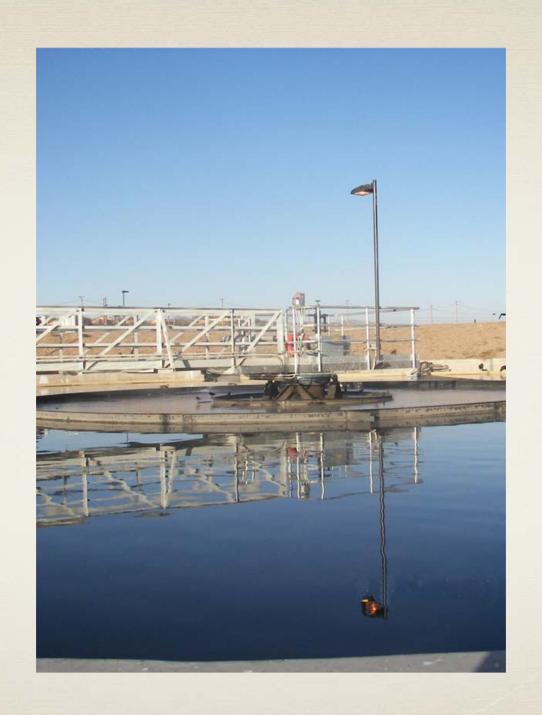
- * 1992 Upgrade
- * 2009 Upgrade
- * Results

2009 Upgrade

- Technology upgrade online June 23, 2009
- Upgraded to Biological Nutrient Removal System (BNR)
- Treatment capacity of 14.74 MGD
- Influent flows originate from Nogales Sonora, Nogales Arizona and Rio Rico Arizona.
- Aerobic Digestion added for biosolids treatment
- Disinfection accomplished with ultraviolet light replacing previous chlorine gas system



Nogales International Wastewater Treatment Plant (NIWTP) 865 East Frontage Rd., Rio Rico AZ 85648



Contamination Issues with Biosolids



Next Steps

- * Increase monitoring
- Continue coordination of Binational Pretreatment efforts

Nogales Wash/IOI

Nogales Issues International Outfall Interceptor (IOI)

IOI Repair

20 Linear Feet

of fiberglass pipe

was ruptured by erosion at its invert

The repair consisted of replaced of the pipe with a 24" Concrete Coated Ductile Iron Pipe lined with Cured In Place (CIP)

The repair took three weeks to complete at a cost of 1.2 million dollars

IOI Repair

20 LF Ductile Iron Pipe

10-28-10





New Nogales Wash Staircase

> Nogales, Arizona

5-11-11

Nogales Issues Nogales Wash/IOI Issues

Nogales Wash/IOI

- The Wash concrete channel requires replacement
- The International Outfall Interceptor (IOI) could be compromised by the weak concrete



Nogales Wash

Nogales, Arizona

Nogales Issues International Outfall Interceptor (IOI)

IOI Bypass

IOI bypassed with 3-18 inch

Conduits from Pozo Principal in Mexico to Manhole No. 1 in the U.S.

10 MGD conveyed around damaged IOI

IOI Bypass

Nogales, Arizona

10-27-10





Damaged IOI

Nogales, Arizona

10-27-10

Next Steps

Nogales, Sonora Sanitation

- Background of Los Alisos Project
- Status
- Milestones

Questions