Update on Recent Transboundary Flows

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Morgan Rogers, P.E.
Area Operations Manager, San Diego Field Office
IBWC - U.S. Section
Discoveries and Challenges

• Design flow of 25 MGD was not reaching the SBIWTP
• Transboundary flows at Stewart’s Drain occurred when PB-CILA online
• Possible obstruction in wastewater pipeline restricting flow into SBIWTP and creating back pressure into the International Collector
• JB-1 gate valves inoperable and unable to regulate flow into SBIWTP
• Back pressure into the International Collector pipeline caused leakage in deteriorated section of MX International Collector pipeline and transboundary flows at Stewart’s Drain
**Events & Timeline**

12/23  
- PB-CILA shut down due to rain event  
- SBIWTP flows reduced from 25 MGD to less than 15 MGD (typical with PB-CILA shutdown)

1/7  
- PB-CILA back online  
- Daily transboundary flows at Stewart’s Drain through 1/15  
- SBIWTP flows do not return to normal and remain at less than 15 MGD

1/15  
- PB-CILA shut down, daily transboundary flows stop

1/17  
- Second pump installed at Stewart’s Drain to mitigate future transboundary flows
Events & Timeline

1/19 - Veolia inspects 96” outlet at JB-1 with probe and finds no definitive evidence of obstruction

1/20 - USIBWC, CILA, CESPT, and Veolia inspect JB-1 for obstructions using CCTV and probe, find no definitive evidence of obstruction
Events & Timeline

1/21-25  - Veolia prepares to lift 96” gate in JB-1

1/28    - PB-CILA online with one pump to reduce transboundary flows in river
Events & Responses Timeline

2/7 - Mitigation measures installed for bypass of JB-1 if gate raising failed and resulted in further reduced flow to SBIWTP
Events & Responses Timeline

2/9
- Raised 96” gate by crane from 16” open to 54”
- Re-evaluated JB-1 to SBIWTP pipeline for obstruction
- Determined no CCTV inspection necessary
- Monitored status of MX infrastructure
Events & Responses Timeline
Events & Responses Timeline

Flow Before

Flow After
Conclusions

• Proper flow restored through JB-1
• Flow volumes 25 MGD restored to SBIWTP
• Transboundary flows at Stewart’s Drain stopped
• PB-CILA back online
• Wastewater system returned to normal
Next Steps

Intermediate Term:
- Repair JB-1 to restore gates and flow control
  - Design complete Apr 2022
  - Procurement May 2022
  - Construction Start Jun 2022
  - Construction End Mar 2023
- $1.5M FY22 Funds have been allocated to complete repairs at JB-1
- Rehabilitate International Collector
  - NAD Bank funding

Long Term:
- Plant Expansion through USMCA Priority Projects
FOR ADDITIONAL INFORMATION, CONTACT:

MORGAN ROGERS, P.E.
AREA OPERATIONS MANAGER
SAN DIEGO FIELD OFFICE
IBWC - U.S. SECTION

(619) 662-7601
MORGAN.ROGERS@IBWC.GOV