USMCA Tijuana River Watershed Eligible Public Entities Coordinating Group (EPECG)

February 25, 2021

11:00 a.m. – 1:00 p.m. <u>Pacific</u> (2:00 p.m. – 4:00 p.m. <u>Eastern</u>)

Agenda

11:00 am	Welcome and Overview
11:10 am	Short-Term Impact Projects – Update
11:15 am	EPECG Interviews Interview Highlights
11:20 am	 Technical Analysis - Project Evaluation Process - Update on Status Existing System Overview Diverting & Treating River Water (Projects 1 & 2) Conveying Sewage to US for Treatment (Project 4) Treating Conveyed Sewage (Projects 3 & 9) Considerations - Ownership, O&M, and Cost
12:40 pm	 NEPA Public Scoping Process and Timeline Questions
12:50 pm	 Next Steps & Upcoming Milestones February 26 Public Information Meeting USMCA Web Page NEPA Public Scoping Alternatives Analysis
1:00 pm	Closing Remarks & Adjourn

USMCA Tijuana River Watershed Eligible Public Entities Coordinating Group (EPECG) Virtual Meeting: February 25, 2021









Eligible Public Entities Coordinating Group (EPECG) - Principals and Delegates

- CalEPA
- California Natural Resource Agency
- City of Chula Vista
- City of Coronado
- City of Imperial Beach
- City of San Diego
- North American Development Bank
- Port of San Diego
- San Diego County

- San Diego Regional Board
- US Army Corps of Engineers
- US Customs & Border Protection
- US Department of Commerce
- US Department of State
- US Fish and Wildlife
- US International Boundary and Water
 Commission
- US Navy





Welcome & Overview





Agenda

- Short Term Impact Projects Update
- **EPECG Interviews Highlights** 2
 - **Technical Analysis Project Evaluation**
- **A** NEPA Public Scoping
- Next Steps & Upcoming Milestones 5







Short Term Impact Projects Dave Smith, EPA Region 9





Short Term Projects - Update

Short Term River Diversion

- Dry weather transboundary flows largely ceased Summer-Fall 2020
- ITP regularly treated more sewage from MX than its 25 MGD rated capacity
- Stressed treatment plant systems
- Deferring planning for this project for time being

Smugglers Gulch Sediment and Trash Capture Facility

- Would address trash and sediment crossing border
- County lead with support from City of San Diego, Regional Water Board
- EPA provided technical assistance to help grant application
- County applied in January for CA Coastal Conservancy grant to fund design and construction Awaiting CCC decision on grant application
- Confer with CBP, other agencies, and stakeholders

Planned to capture dry weather transboundary flows, treat at International Treatment Plant (ITP)





EPECG Interviews – Highlights Rob Willis, Ross Strategic





EPECG Interviews – Key Discussion Topics (Slide 1 of 2)

- Completed 18/18 Interviews January 15 February 11
- Ross Strategic is developing an EPECG Member Interview Synthesis for EPA
- As part of our preparation, we identified important discussion topics for today's call to:
 - Provide additional details on project specifics
 - Explore areas where EPECG members expressed an interest or had questions





EPECG Interviews – Key Discussion Topics (Slide 2 of 2)

Key Takeaways from the Interviews Driving Discussion Topics:

- Detailed information about projects
- **Treatment Capacity**
- Location of Treatment
- **Ownership of Infrastructure**
- Operations & Management (0&M)
- **Diverting & Treating River Water**



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Technical Analysis -**Project Evaluation**



USMCA Tijuana River Infrastructure Technical Analysis Milestones



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Existing System Overview Tom Rowlett and James Hollibaugh, PG Environmental









Existing System – Tijuana River





Existing System - PB CILA





Existing System – Pump Stations







Existing System – Canyons









Existing System – South Bay Water Reclamation Facility San Diego **UNITED STATES** TIJUANA RIVER Pump Station 1B **MEXICO** International Collector **PB CILA** Pump Station 1A Tijuana













Diverting & Treating River Water (**Projects 1 & 2**) Tom Rowlett and James Hollibaugh, PG Environmental









Project 1: New Tijuana River Diversion System in the U.S. and Treatment in the U.S.

35 MGD	100 MGD	163 N
COST E	ESTIMATES	
\$110M	\$220M	\$295
\$9M	\$34M	\$53
\$392M	\$1.3B	\$2.1
ANA RIV	'ER (2016-20	019)
80 Days 52%	126 Days 82%	133 Da 87
1,700 MGD	3,500 MGD	4,400 N
871 Tons 55%	1,257 Tons 79%	1,351 T 859
	35 MGD COST E \$110M \$9M \$9M \$392M \$392M ANA RIV 80 Days 52% 1,700 MGD 1,700 MGD 1,700 MGD 1,700 MGD	35 MGD 100 MGD COST ESTMATES \$110M \$220M \$9M \$34M \$9M \$34M \$392M \$1.3B ANA RIVER (2016-20) \$32% \$0 Days 126 Days \$22% \$3,500 MGD \$71 Tons 1,257 Tons \$79% 1,257 Tons \$79% \$79%



Based on flow data from 2016 to 2019

*These values reflect the estimated sediment production on days which the APTP is operating: 107 days per year for the 35 MGD design, 126 days per year for the 100 MGD, and 133 days per year for the 163 MGD.











Project 2: Expand and Upgrade Tijuana River Diversion System in Mexico and Provide Treatment in the U.S.



Conveying Sewage to US for Treatment (Project 4)

Tom Rowlett and James Hollibaugh, PG Environmental













Treating Conveyed Sewage (Projects 3 & 9)









	50 MGD		60 MGD
CO	ST ESTI	MATES	5
CAPITAL	\$299M		\$372M
ANNUAL O&M	\$10M		\$14M
40-YEAR O&M	\$401M		\$568M
SAN ANT	ONIO DE	LOSE	BUENOS
Reduction in Flows to SAB	3,430 MGD 26%		5,740 MGD
Reduction in BOD ₅ Load Conveyed to SAB Creek	7,890 Tons		11,760 Tons 74%

Project 3: Treat Wastewater from the International Collector at the ITP











	15 MGD	15 MGD · Solids	► 30 MG Solid
	COST ES	STIMATES	
CAPITAL	\$51M	\$105M	\$274
ANNUAL O&M	\$15M	\$16M	\$23
40-YEAR 0&M	\$629M	\$654M	\$926
SAN A	NTONIO	DE LOS BI	JENOS
Reduction in Flows to SAB	3,430 MGD	3,430 MGD	5,740 N 44
Reduction in BOD₅ Load Conveyed to SAB Creek	7,890 Tons	7,890 Tons	11,760 ⁻⁷

Project 9: Treat Wastewater from the International Collector at the SBWRP

	Project	Cost		Tijuana River Discharges			Discharges	to SAB Creek
		Capital	40 Year Lifecycle	Reduction in Days of Transboundary Flows	Reduction in Amount of Transboundary Flows	Reduction in BOD5 Load in Flows	Reduction in Flows to SAB Creek	Reduction in BOD5 L Conveyed to SAB CI
	35MGD	\$110M	\$503M	52%	10%	55%		
1	100MGD	\$220M	\$1.6B	82%	20%	79%	NO ANTICIPATEO Discl	Reduction to SA
	163MGD	\$295M	\$2.4B	87%	25%	85%		
2		\$88M	\$382M	52%	4-10%	45-55%	47%	27%
2	50MGD	\$299M	\$700M			26%	50%	
J	60MGD	\$372M	\$940M				56%	74%
	15MGD	\$51M	\$681M	This project benefits the Tijuana River when Mexican facilities are not operational		26%	50%	
9	15MGD + Solids	\$105M	\$759M			26%	50%	
	30MGD + Solids	\$274M	\$1.2B				44%	74%

Questions?

Dave Smith, EPA Region 9

Considerations - Ownership, O&M, and Cost

Considerations - Ownership, O&M, and Cost

- What are potential roles with regard to ownership and O/M for US side infrastructure for: EPA, IBWC, NADBank, State Jurisdictions, and local jurisdictions?
- What options for ownership and O/M are being considered for infrastructure projects in Mexico?
- What assumptions are being made about O/M cost and responsible parties in the feasibility assessments?

Questions?

NEPA Public Scoping

Public Scoping - Overview

- Purpose: An early and open process to inform the scope of the EIS
 - Identify significant environmental issues deserving of study
 - Eliminate non-significant issues from further study
 - Invite comments on the scope of the EIS, including alternatives to be evaluated (see next slide)

• When to initiate public scoping?

meaningful public comment and requires an environmental impact statement

Major components of public scoping process

- Notice of Intent (NOI) published in *Federal Register*
- Public scoping period (at least 30 days after issuance of NOI)
- Public scoping meeting(s) optional, but typical for projects affecting specific sites

Sources: EPA NEPA regulations [40 CFR 6.203(c)]; 2020 CEQ NEPA regulations [40 CFR 1501.9]; pre-2020 CEQ NEPA regulations [40 CFR 1501.7]

- As soon as practicable after determining that a proposal is sufficiently developed to allow for

Anticipated Schedule

NEPA Activity

NOI published in Federal Register - initiate Hold virtual scoping meeting, 6-8p.m. PDT End of Public Comment Period

- <u>Tijuana-Transboundary-EIS@epa.gov</u>
- the draft EIS

	Dates
e 45-day scoping period	Late March 2021
-	April 20, 2021
	May 20, 2021

Instructions for Participation in the Public Scoping Meeting will be made available at:

Public Scoping Meeting will be Advertised in the Federal Register, Local Newspapers, the North American Development Bank's List Serve and the EPA webpage cited above.

Comments received during the public scoping process will be considered during the preparation of

Questions?

Next Steps & Upcoming Milestones

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Next Steps & Upcoming Milestones

- February 26 Public Information Meeting
- USMCA Web Page

- **NEPA Public Scoping**
- **Alternatives Analysis**

USMCA Tijuana River Infrastructure Technical Analysis Milestones

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Questions?

