AGENDA HIGHLIGHTS

- INTERNATIONAL BOUNDARY AND WATER COMMISSION: MINUTE 323 COLORADO RIVER AGREEMENT

- BORDER WAIT TIME DETECTION PILOT PROGRAM

- UPDATE ON THE CROSS BORDER XPRESS

PLEASE SILENCE ALL ELECTRONIC DEVICES DURING THE MEETING

YOU CAN LISTEN TO THE BORDERS COMMITTEE MEETING BY VISITING OUR WEBSITE AT SANDAG.ORG

MISSION STATEMENT

The Borders Committee provides oversight for planning activities that impact the borders of the San Diego region (Orange, Riverside, Imperial, and the Republic of Mexico) as well as government-to-government relations with tribal nations in San Diego County. The preparation and implementation of SANDAG’s Binational, Interregional, and Tribal Liaison Planning programs are included under this purview. It advises the SANDAG Board of Directors on major interregional planning policy-level matters. Recommendations of the Committee are forwarded to the Board of Directors for action.
Welcome to SANDAG. Members of the public may speak to the Borders Committee (Committee) on any item at the time the Committee is considering the item. Please complete a Request to Comment form, which is located in the rear of the room, and then present the form to the Committee Clerk seated at the front table. Members of the public may address the Committee on any issue under the agenda item entitled Public Comments/Communications/Member Comments. Public speakers are limited to three minutes or less per person. The Committee may take action on any item appearing on the agenda.

Both agenda and non-agenda comments should be sent to SANDAG via comment@sandag.org. Please include the committee name and meeting date, agenda item, your name, and your organization. Any comments, handouts, presentations, or other materials from the public intended for distribution at the Committee meeting should be received by the Committee Clerk no later than 12 noon, two working days prior to the meeting. All public comments and materials received by the deadline become part of the official project record, will be provided to the members for their review at the meeting, and will be posted to the agenda file as a part of the handouts following each meeting.

In order to keep the public informed in an efficient manner and facilitate public participation, SANDAG also provides access to all agenda and meeting materials online at www.sandag.org/meetings. Additionally, interested persons can sign up for e-notifications via our e-distribution list either at the SANDAG website or by sending an email request to webmaster@sandag.org.

SANDAG operates its programs without regard to race, color, and national origin in compliance with Title VI of the Civil Rights Act. SANDAG has developed procedures for investigating and tracking Title VI complaints, and the procedures for filing a complaint are available to the public upon request. Questions concerning SANDAG nondiscrimination obligations or complaint procedures should be directed to the SANDAG General Counsel, John Kirk, at (619) 699-1997 or john.kirk@sandag.org. Any person who believes himself or herself or any specific class of persons to be subjected to discrimination prohibited by Title VI also may file a written complaint with the Federal Transit Administration.

In compliance with the Americans with Disabilities Act (ADA), SANDAG will accommodate persons who require assistance in order to participate in SANDAG meetings. If such assistance is required, please contact SANDAG at (619) 699-1900 at least 72 hours in advance of the meeting. To request this document or related reports in an alternative format, please call (619) 699-1900 or (619) 699-1904 (TTY), or fax (619) 699-1905.

SANDAG agenda materials can be made available in alternative languages. To make a request, call (619) 699-1900 at least 72 hours in advance of the meeting.

Los materiales de la agenda de SANDAG están disponibles en otros idiomas. Para hacer una solicitud, llame al (619) 699-1900 al menos 72 horas antes de la reunión。

如有需要，我们可以把SANDAG议程材料翻译成其他语言。

请在会议前至少 72 小时打电话 (619) 699-1900 提出请求。

SANDAG offices are accessible by public transit. Phone 511 or visit 511sd.com for route information.
Bicycle parking is available in the parking garage of the SANDAG offices.
## BORDERS COMMITTEE
Friday, January 26, 2018

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>RECOMMENDATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>+1.</td>
<td>APPROVE</td>
</tr>
<tr>
<td>APPROVAL OF MEETING MINUTES</td>
<td></td>
</tr>
<tr>
<td>The Borders Committee is asked to review and approve the minutes from its October 27, 2017, meeting.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>PUBLIC COMMENTS/COMMUNICATIONS/MEMBER COMMENTS</td>
</tr>
<tr>
<td>Members of the public shall have the opportunity to address the Borders Committee on any issue within the jurisdiction of the Committee that is not on this agenda. Anyone desiring to speak shall reserve time by completing a “Request to Speak” form and giving it to the Borders Committee coordinator prior to speaking. Public speakers should notify the Borders Committee coordinator if they have a handout for distribution to Committee members. Public speakers are limited to three minutes or less per person. Committee members also may provide information and announcements under this agenda item.</td>
<td></td>
</tr>
</tbody>
</table>

### CONSENT

| +3. | BORDERS COMMITTEE: FY 2018 WORK ELEMENTS AND CALENDAR OF MEETINGS (Héctor Vanegas) | INFORMATION |
|     | This report provides an overview of FY 2018 work elements and proposed meetings related to the Borders Committee. |  |

### REPORTS

| 4. | REPORT FROM THE CONSUL GENERAL OF MEXICO (Hon. Marcela Celorio, Consul General of Mexico in San Diego) | INFORMATION |
|    | Hon. Marcela Celorio, Consul General of Mexico in San Diego, will report on binational activities within the purview of the Borders Committee. |  |
| +5. | INTERNATIONAL BOUNDARY AND WATER COMMISSION: MINUTE 323 COLORADO RIVER AGREEMENT (Elsa Saxod and Dan Deham, San Diego County Water Authority) | INFORMATION |
|    | San Diego County Water Authority staff will provide an update on the Minute 323 Colorado River Agreement, which includes cooperative measures between the United States and Mexico related to water scarcity in the Colorado River Basin. |  |
+6. BORDER WAIT TIME DETECTION PILOT PROGRAM
(Mario Orso and Donaldo Martinez, Caltrans District 11)

Caltrans staff will provide an update on efforts to implement Intelligent Transportation Systems technology to monitor and disseminate information on southbound wait times along the border.

7. UPDATE ON THE CROSS BORDER XPRESS
(Luis Palacios, Cross Border Xpress)

Luis Palacios, Cross Border Xpress (CBX), will provide an update on the CBX, an enclosed pedestrian bridge for Tijuana International Airport passengers crossing the U.S.-Mexico border, and plans to meet future demand.

8. CONTINUED PUBLIC COMMENTS

If the five-speaker limit for public comments was exceeded at the beginning of this agenda, other public comments will be taken at this time. Subjects of previous agenda items may not again be addressed under public comment.

9. UPCOMING MEETINGS

The next meeting of the Borders Committee is scheduled for Friday, February 23, 2018, at 12:30 p.m.

10. ADJOURNMENT

+ next to an agenda item indicates an attachment
The meeting of the Borders Committee was called to order by Chair Serge Dedina, South County, at 12:35 p.m.

Chair Dedina welcomed and introduced new Borders Committee members and guests.

1. APPROVAL OF MEETING MINUTES (APPROVE)

Action: Upon a motion by Councilmember David Alvarez (City of San Diego), and a second by Vice Chair Ed Gallo (North County Inland), the Borders Committee approved the minutes from its September 22, 2017, meeting. Yes: Chair Dedina, Vice Chair Gallo, Councilmember Alvarez, Mayor Racquel Vasquez (East County), Supervisor Luis Plancarte (Imperial County Councilmember), and Tasha Boerner-Horvath (North County Coastal). No: None. Abstain: None. Absent: County of San Diego

2. PUBLIC COMMENTS/COMMUNICATIONS

Katheryn Rhodes, a member of the public, spoke about various transportation matters.

REPORTS

3. DRAFT INTRAREGIONAL TRIBAL TRANSPORTATION STRATEGY (DISCUSSION)

Chairwoman Erica Pinto, Jamul Indian Village of California, Southern California Tribal Chairmen’s Association (SCTCA) and Jane Clough, Senior Regional Planner, presented the Draft Intraregional Tribal Transportation Strategy developed by SANDAG and SCTCA. The Borders Committee was asked to provide feedback on the Strategy.

Action: This item was presented for discussion.

4. STATE ROUTE 11 / OTAY MESA EAST PORT OF ENTRY UPDATE (INFORMATION)

Mario Orso, Caltrans District 11, provided an update on progress made to advance the State Route 11 / Otay Mesa East Port of Entry and connecting roads on both sides of the border.

Action: This item was presented for information.
5. SAN DIEGO-TIJUANA EARTHQUAKE SCENARIO (INFORMATION)

Roberto Ruiz-Salas, San Diego Chapter, Earthquake Engineering Research Institute, provided an overview of a San Diego-Tijuana earthquake scenario, including building and infrastructure assessments tasks and potential socio-economic impacts on the region.

Ms. Rhodes spoke in support of the earthquake scenario item.

Action: This item was presented for information.

6. IMPERIAL VALLEY BORDER ECONOMIC IMPACT STUDY (INFORMATION)

Esperanza Colio Warren, Imperial County, presented findings from the Imperial Valley Border Economic Impact Study.

Action: This item was presented for information.

7. BORDER REGION MARINE RESCUE COORDINATION (INFORMATION)

Sergeant Jason Lindquist, Imperial Beach Marine Safety, provided an overview of the coordination between agencies responsible for lifeguard patrolling and first-response rescue teams in the border region.

Action: This item was presented for information.

8. CONTINUED PUBLIC COMMENTS

There were no additional public comments.

9. UPCOMING MEETINGS (INFORMATION)

The next meeting of the Borders Committee is scheduled for Friday, November 17, 2017, at 12:30 p.m.

10. ADJOURNMENT

Chair Dedina adjourned the meeting at 2:28 p.m.
**CONFIRMED ATTENDANCE**  
**SANDAG BORDERS COMMITTEE MEETING**  
**OCTOBER 27, 2017**

<table>
<thead>
<tr>
<th>JURISDICTION</th>
<th>NAME</th>
<th>MEMBER/ALTERNATE</th>
<th>ATTENDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of San Diego</td>
<td>David Alvarez</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Mark Kersey</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>County of San Diego</td>
<td>Greg Cox</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Dianne Jacob</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>East County</td>
<td>Ronn Hall</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Racquel Vasquez</td>
<td>Alternate</td>
<td>Yes</td>
</tr>
<tr>
<td>Imperial County</td>
<td>John Renison</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Luis Plancarte</td>
<td>Alternate</td>
<td>Yes</td>
</tr>
<tr>
<td>North County Coastal</td>
<td>Chuck Lowery</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Tasha Boerner Horvath</td>
<td>Alternate</td>
<td>Yes</td>
</tr>
<tr>
<td>North County Inland</td>
<td>Ed Gallo (Vice Chair)</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Jim Cunningham</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>South County</td>
<td>Serge Dedina (Chair)</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Bill Sandke</td>
<td>Alternate</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADVISORY MEMBERS</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>County of Riverside</td>
<td>Marsha Swanson</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Jeffrey Giba</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>Republic of Mexico</td>
<td>Marcela Celorio</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Gaspar Orozco</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>Southern California Tribal</td>
<td>Chairman</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td>Chairmen's Association</td>
<td>Edwin &quot;Thorpe&quot; Romero</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cody Martinez</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>Caltrans</td>
<td>Cory Binns</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Ann Fox</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>San Diego County Water</td>
<td>Gary Croucher</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td>Authority</td>
<td>David Barnum</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>SCAG</td>
<td>Naresh Amatya</td>
<td>Member</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>David C. Salgado</td>
<td>Alternate</td>
<td>No</td>
</tr>
<tr>
<td>County of Orange</td>
<td>Jim Ferryman</td>
<td>Member</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Jim Dahl</td>
<td>Alternate</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Introduction

This report presents the work elements and tasks included in the FY 2018 Overall Work Program (OWP), which are related to the responsibilities and purview of the Borders Committee. As in previous years, the proposed calendar of meetings includes themes that reflect the three perspectives distinctive to the function of the Committee: binational, interregional, and tribal. The FY 2019 OWP is currently under development and is anticipated for Board approval in May 2018. Highlights of that budget will be brought forward to the Committee after its adoption.

Discussion

The FY 2018 OWP is organized by Strategic Goals and Areas of Emphasis. The following are the Strategic Goals: Implement the regional vision and guiding principles; Improve mobility; Develop and implement strategies to improve the quality of life in the region; Enhance organizational effectiveness; and Pursue new funding and innovative solutions. Areas of Emphasis include: Modeling and Research; Sustainable Development – Planning and Funding Strategies; Sustainable Mobility Programs and Services; External Support and Communications; and Regional Operations and Services. Additionally, the OWP lists the following major projects and work efforts for 2018: San Diego Forward: The Regional Plan; Mid-Coast Corridor Transit Project; Interstate 5 North Coast Corridor (NCC) Program/Build NCC; Otay Mesa East Port of Entry and State Route 11 (SR 11); South Bay Rapid; Regional Bike Plan Early Action Program; State Route 125 Operations; Regional Modeling and Data Management; Advancing 21st Century Mobility; and iCommute.

Below are work element objectives (as written in the FY 2018 OWP) and capital improvement project descriptions that pertain directly to the work of the Committee.

Overall Work Program Elements

31020.00 San Diego Forward: The Regional Plan – The objective for this work element is to continue work on the update of San Diego Forward: The Regional Plan and its Sustainable Communities Strategy for adoption in 2019.

34001.00 Interregional Planning: Imperial, Orange, and Riverside Counties – The objective of this work element is to oversee and coordinate the planning activities that impact the San Diego region's borders with Imperial, Orange, and Riverside counties.
34002.00 Interregional Planning: Binational Planning and Coordination – The objective of this work element is to oversee and coordinate binational collaboration and coordination activities. This includes coordination of the Borders Committee and the Committee on Binational Regional Opportunities as well as collaboration with Mexico, including the municipalities and the State of Baja California, border stakeholders, and tribal governments.

34005.00 Interregional Planning: Tribal Liaison Program – The objectives of this work element are to: (1) continue the government-to-government framework for engaging the 18 federally-recognized sovereign tribal nations in the region in the regional transportation planning process as mandated by federal and state regulations; (2) coordinate and consult with tribal governments and intertribal organizations on major transportation, land use, and other regional planning initiatives to ensure timely and meaningful input into the decision-making process; (3) facilitate the meaningful involvement of the Southern California Tribal Chairmen’s Association (SCTCA) in the SANDAG policy-making structure; and (4) provide a technical forum for discussing tribal transportation issues through the Interagency Technical Working Group on Tribal Transportation Issues.

34010.00 Interregional Tribal Transportation Strategy – The objective of this work element is to develop an Intra-regional Tribal Transportation Strategy in partnership with the tribal nations and other agencies that influence tribal transportation in the region. SANDAG, in partnership with the Southern California Tribal Chairmen’s Association, Reservation Transportation Authority, County of San Diego, North County Transit District, Metropolitan Transit System, Caltrans, and Bureau of Indian Affairs, will work together to develop a strategy that identifies key multimodal projects that will improve tribal mobility while meeting regional, state, and federal goals.

33217.00 Inter-Regional Park & Ride Strategy – The objective of this work element is to develop regional management strategies for existing and future Park & Ride facilities in San Diego and Western Riverside counties. The proposed scope will develop a Park & Ride Demand Analysis and Siting Tool using a Geographic Information System framework in order to evaluate and prioritize sites. Additionally, a Park & Ride Management Framework will be developed, which will identify best practices from around the country for Park & Ride management strategies that accommodate carpoolers, vanpoolers, and transit riders, while deterring abuse of Park & Ride lots.

31007.00 Goods Movement Planning – The objectives of this work element are to: (1) collaborate with interregional, state, federal agencies, and goods movement organizations to coordinate the development, operations, funding, and legislative and regulatory changes for a goods movement transportation system; and (2) coordinate with the region’s freight agencies to continue development and implementation of the regional freight strategy as outlined in San Diego Forward: The Regional Plan.

31021.00 Understanding Regional Truck Flows – The objective of this work element is to develop a planning tool to better visualize the demand characteristics of freight flows using real-time data. This effort will involve collaboration with Caltrans and other partner agencies and stakeholders in the San Diego region as well as coordination with other metropolitan planning organizations in Southern California, private carriers, real-time data vendors, and local communities.
The objective of this study is to assess the economic and air quality/climate impacts caused by border delays at the California-Baja California ports of entry (POEs). The economic impact analysis will estimate the influence of border delays on the regional, statewide, and national economies of the United States and Mexico and the air quality/climate impact analysis will estimate the related air pollution and greenhouse gas emissions due to border delays. This study will develop recommendations and strategies to reduce border delays and emissions.

**Capital Improvement Projects**

12011.01 SR 11 and Otay Mesa East Port of Entry – The SR 11/Otay Mesa East Port of Entry effort is a flagship border infrastructure project led by SANDAG and Caltrans in cooperation with key partner agencies on both sides of the border. The project will feature a 2.5 mile, four-lane tolled road connecting directly to a state-of-the-art Customs & Border Protection Land POE and a California Highway Patrol Commercial Vehicle Enforcement Facility.

12805.04 South Bay Rapid – The South Bay Rapid transit service help to further expand the Rapid network in the region to provide better connections between residential areas and major employment center by connecting the Otay Mesa border crossing with Downtown San Diego via Otay Ranch. Rapid services run more frequently, feature limited stops, and offer increased reliability and customer convenience. Transit riders enjoy new, uniquely branded vehicles, as well as stations with next arrival signs.

12230.56 Border to Bayshore Bikeway – The Border to Bayshore Bikeway is an approximately 8.5-mile route that will provide safe biking connections within and between Imperial Beach, the San Ysidro community of San Diego, and the world’s busiest land border crossing at the San Ysidro Port of Entry. It also will make it safer and easier for people of all ages and comfort levels to bike to local shops, parks, schools, transit stations, and other community destinations within San Ysidro and Imperial Beach, including the Imperial Beach Pier and the Bayshore Bikeway.

The proposed calendar through the end of FY 2018 is intended as a resource for Committee members as well as a tool to encourage proper representation by stakeholders at future meetings. Regularly scheduled Committee meetings and special meetings are listed chronologically with a list of proposed meeting topics, activities, and actionable items that are included in the SANDAG OWP. Other items of interest will be added as they become available.

The calendar of meetings also reflects recurring reports from the Consul General of Mexico and the Southern California Tribal Chairmen’s Association on issues and activities affecting the binational border and tribal nations in the region that are within the purview of the Committee.

CHARLES “MUGGS” STOLL
Director of Land Use and Transportation Planning

Attachment: 1. Borders Committee – Proposed Calendar of Meetings for Remaining FY 2018

Key Staff Contact: Héctor Vanegas, (619) 699-1972, hector.vanegas@sandag.org
<table>
<thead>
<tr>
<th>Date</th>
<th>Theme</th>
<th>Tentative Topics/Items</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 26, 2018</td>
<td>Binational</td>
<td>Agenda • Reports from the Consul General of Mexico in San Diego • International Boundary and Water Commission Minute 323 • Caltrans Southbound Border Wait Times Pilot Program • Update on Cross Border Xpress</td>
<td>Information</td>
</tr>
</tbody>
</table>
| February 23, 2018 | Binational/Interregional      | Agenda • Reports from the Consul General of Mexico in San Diego • Proposed Theme and Date of the 2018 SANDAG Annual Binational Event • Update on Tribal Policy Issues | Information  
|                |                                |                                                                                       | Accept     |
| March 23, 2018  | Binational                    | Agenda This is planned to be a joint meeting of the Borders Committee, Committee on Binational Regional Opportunities, and the municipalities of Tijuana, Tecate, Playas de Rosarito, and State of Baja California • Reports from the Consul General of Mexico in San Diego • A Fresh Look at Impacts of Border Delays: Project Update • Binational Strategy Report: Michal Camuñez (Monarch Global Strategies) • Placeholder for potential border metropolitan planning effort report | Information  
| April 27, 2018  | Binational/Tribal             | Agenda This could be modified as a special session to join the SANDAG Board of Directors for the 2018 Tribal Summit • Reports for this agenda will be developed in conjunction with the Southern California Tribal Chairmen's Association (SCTCA) | Information  
| April 13, 2018  |                                |                                                                                       |            |
| May 25, 2018    | Binational/Interregional/Tribal| Agenda • Reports from the Consul General of Mexico in San Diego • Report from the SCTCA • Border to Bayshore Bikeway: Project Update • Update from the San Diego Forward: The 2019-2050 Regional Plan development • Status Report on SANDAG, Caltrans, Orange County Transportation Authority, and Southern California Association of Governments collaboration on long-range planning | Information  
| June 22, 2018   | Binational/Interregional/Tribal| Agenda • Reports from the Consul General of Mexico in San Diego • Report from the SCTCA • Update on State Route 11 and Otay Mesa Port of Entry Project • Update on the San Diego and Western Riverside Inter-Regional Park & Ride Strategy • A Fresh Look at Impacts of Border Delays: Final Report | Information  


UNITED STATES AND MEXICO CONCLUDE COLORADO RIVER AGREEMENT

Officials with the International Boundary and Water Commission, United States and Mexico, today announced the conclusion of a new Colorado River agreement, Minute 323, "Extension of Cooperative Measures and Adoption of a Binational Water Scarcity Contingency Plan in the Colorado River Basin." Commission officials signed the Minute on September 21 in Ciudad Juarez, Chihuahua and both governments approved it on September 27. The Minute’s entry into force was announced during a ceremony held at the Water Education Foundation’s Colorado River Symposium in Santa Fe, New Mexico. The Minute follows more than two years of negotiations among federal and state authorities from both countries, taking into consideration recommendations from the works groups, which included water users, scientists, academics, and nongovernmental organizations.

The agreement, which will remain in effect through 2026, extends or replaces key elements of Minute 319, a previous agreement that expires at the end of 2017. Minute 323 contains the following provisions:

- Allows Mexico to defer delivery of a portion of its Colorado River allotment in the event of potential emergencies, such as earthquakes, or as a result of water conservation projects in Mexico. This water, known as Mexico’s Water Reserve, will be available for subsequent delivery to Mexico as determined through its planning processes. This gives Mexico greater flexibility in how it manages its Colorado River allotment while also boosting Lake Mead elevation to the benefit of all users.
- Provides additional quantities of Colorado River water to Mexico during certain high elevation reservoir conditions at Lake Mead when additional water is available to users in the United States, providing benefits to both countries.

- Establishes proactive basin operations during certain low elevation reservoir conditions at Lake Mead by applying water delivery reductions in order to deter more severe reductions in the future, giving certainty in both countries’ operations when these conditions occur.

- Establishes a Binational Water Scarcity Contingency Plan so that, should a Lower Basin Drought Contingency Plan be put into effect in the United States, then Mexico will also undertake water savings in parity with U.S. savings. These savings will be recoverable when reservoir conditions improve.

- Implements measures to address salinity impacts stemming from the joint cooperative actions, in conformance with the provisions of Minute 242, entitled, “Permanent and Definitive Solution to the International Problem of the Salinity of the Colorado River,” dated August 30, 1973.

- Identifies measures to address daily flow variability in Colorado River water deliveries to Mexico.

- Through a cooperative effort among the Governments of the United State and Mexico and nongovernmental organizations, provides water for the environment and funding for environmental monitoring and habitat restoration.

- Provides greater U.S. investment in water infrastructure and environmental projects in Mexico than Minute 319 in order to modernize and improve Irrigation District 014 in the Mexicali Valley in areas that wish to participate. This will generate additional volumes of water that will be shared between both countries and the environment, in accordance with the Minute’s provisions.

- Notes the ongoing efforts of the binational All-American Canal Turnout Project Work Group to examine resources associated with a potential binational connection between the All-American Canal in the United States and Mexico’s Colorado River Tijuana Aqueduct Pump Station PB 0.

"Minute 323 is the result of many rounds of technical discussions involving a broad group of stakeholders from both countries. This agreement puts us on a path of cooperation rather than conflict as
we work with Mexico to address the Colorado River Basin’s many challenges,” said U.S. Commissioner Edward Drusina of the International Boundary and Water Commission.

Mexican Commissioner Roberto Salmon said, “This agreement provides certainty for water operations in both countries and mainly establishes a planning tool that allows Mexico to define the most suitable actions for managing its Colorado River waters allotted by the 1944 Water Treaty.”

Joining the Commissioners at the ceremony were David Bernhardt, United States Deputy Secretary of the Interior; Thomas Buschatzke, Director of the Arizona Department of Water Resources; Hillary Quam, Border Affairs Coordinator, U.S. Department of State Office of Mexican Affairs; and, from Mexico, Director General for North America Mauricio Ibarra of the Ministry of Foreign Relations.

The International Boundary and Water Commission, United States and Mexico, is responsible for applying the boundary and water treaties between the two countries. Under the 1944 Water Treaty, Mexico is allotted 1.5 million acre-feet (1850 million cubic meters) per year of water from the Colorado River.

For more information:

Lori Kuczmanski
915-494-6027
Lori.Kuczmanski@ibwc.gov
BORDER WAIT TIME DETECTION PILOT PROGRAM

Introduction

Caltrans, in partnership with SANDAG and federal agencies, is working to implement a border wait time detection pilot program as part of a broader effort to build a next-generation system to efficiently manage border crossings. This project uses advanced technology to calculate how long vehicles wait in line to cross the border. The pilot is deployed along the southbound approach roads to the San Ysidro Port of Entry and has been operating since December 2017, reporting live wait times on Caltrans’ Quickmap site. This presentation will describe efforts to implement the technology to monitor and disseminate information on southbound wait times.

CHARLES “MUGGS” STOLL
Director of Land Use and Transportation Planning

Attachment: 1. Border Wait Time Detection Pilot Program Fact Sheet

Key Staff Contacts: Christina Casgar, (619) 699-1982, christina.casgar@sandag.org,
Hector Vanegas, (619) 699-1972, hector.vanegas@sandag.org
Overview

Billions of dollars in economic output are lost each year due to long border wait times for goods and people traveling across the U.S.–Mexico border. In an effort to gather data that can be used to increase the efficiency of the border crossings in the California–Baja California region, SANDAG and Caltrans, in partnership with federal agencies, are working to implement a pilot border wait time detection system. This is a part of a broader effort to build a next-generation system to efficiently manage border crossings.

If the pilot is successful, the technology could be deployed to other crossings and in both directions. In addition, lessons learned from this pilot may assist in the development of a state-of-the-art intelligent transportation system for the future Otay Mesa East Port of Entry (POE), which SANDAG and Caltrans are planning in partnership with federal agencies and their Mexican counterparts.

The two-year pilot uses advanced technology to calculate how long vehicles wait in line to cross the border. The pilot is being deployed along the southbound route to the San Ysidro Port of Entry—the busiest international land border crossing in the Western Hemisphere. As part of the pilot, SANDAG and Caltrans are leveraging the region’s existing network of solar-powered, freeway call boxes as detection points. These call boxes have been retrofitted to include sensors to gather anonymous data as vehicles drive by them in order to calculate border wait times.

The anonymous data collected from multiple detection points will provide the basis for calculating accurate travel times for vehicles headed southbound into Mexico. Eventually, this technology could be used to provide wait time information to the public and key local, state, and federal agencies via multiple platforms, including the region’s 511 advanced traveler information system and smart phone applications.

The ultimate goal of this pilot project is to provide travelers with decision-quality information so they can make educated choices on when and how to travel. At the same time, more accurate border wait time predictions will benefit local, state, and federal agencies that are involved in border operations and traffic management. With better information at their disposal, they can be more proactive in alleviating border congestion.

The Need

Due to inadequate infrastructure and increased crossborder trade and traffic, all ports of entry between California and Baja California suffer from chronic traffic congestion. A SANDAG study indicates that the U.S. and Mexican economies lose $7.2 billion in gross output and more than 62,000 jobs annually due to long border wait times. SANDAG projects that by 2035, traffic would grow nearly 30 percent between the San Diego region and Baja California POEs.

Currently, about 28 million people using various modes of travel and 11.4 million vehicles head northbound through the San Ysidro POE each year. This border crossing provides a good pilot location, as wait-time detection devices can be placed along the approach road to the POE.

(Continued on reverse)
The Technology

Existing call boxes have been retrofitted with sensors, along with bigger solar panels and extra batteries to power the border wait time detection system. The current call box pole and mounting are retained, and a multi-function antenna is mounted on top of the 14-foot pole. The data, which is collected in a manner that does not use any personally identifiable information, is transmitted to a central system for aggregation and processing.

After the data is processed, the central system could disseminate the wait time calculations to the region’s 511 traveler information system and other platforms. The real-time capture of border wait times and the development of a historical database over time could be further leveraged to predict travel times—similar to what SANDAG has accomplished along the Interstate 15 (I-15) corridor through its Integrated Corridor Management (ICM) initiative. The I-15 ICM served as the foundation for the launch of the 511 San Diego mobile application.

The SANDAG-Caltrans border wait time pilot is similar to efforts undertaken in recent years by the Federal Highway Administration (FHWA) in partnership U.S. Customs and Border Protection (CBP) and the Texas Department of Transportation to measure border delays and crossing times along the U.S.–Mexico border.

Partnerships

In addition to collaborating with Caltrans, SANDAG is coordinating the pilot with the U.S. Department of Transportation (USDOT), CBP, the General Services Administration (GSA), and other stakeholders to ensure smooth implementation.

Funding

The border wait time pilot is funded by $370,000 from the USDOT, with support from its two subsidiary agencies: the Intelligent Transportation Systems Joint Program Office and the FHWA.

Project Status

The pilot is scheduled to conclude in 2017.

For More Information

Contact Christina Casgar, SANDAG Goods Movement Policy Manager, at (619) 699-1982 or christina.casgar@sandag.org; or Mario Orso, Caltrans Corridor Director, at (619) 688-2561 or mario.orso@dot.ca.gov
Dan Denham, Assistant General Manager
San Diego County Water Authority

1944 INTERNATIONAL WATER TREATY

- U.S.-Mexico Treaty on Binational Rivers including Colorado, Tijuana, and Rio Grande
- Regulates the use and delivery of water to both nations
  - Quantity of water to each country
  - Salinity regulations for deliveries to Mexico
- Established current structure of Commission
BINA\NL\OC\SSION

- Commissioners appointed by respective president
- Responsible for applying U.S.-Mexico boundary and water treaties and settling differences that arise in their application
- Decisions recorded in the form of Minutes

RECENT COLORADO RIVER MINUTES

Minute 317
- Explore opportunities for binational projects involving conservation and new supply development

Minute 318
- Storage in Mead for effects of 2010 earthquake infrastructure damage

Minute 319
- Predecessor to Minute 323

A “Minute” is an addendum to the International Treaty
Established 5-Year Pilot Programs through 2017

- Pilot program for deferred deliveries
- U.S. contractors fund projects to rebuild infrastructure in exchange for deferred water

Cooperative Measures in the Colorado River Basin

- Pilot program for environmental releases
- Pilot program for Shortage and Surplus sharing based on hydrology/availability

River reached the Sea of Cortez during 2014 Pulse Flow

Extended drought conditions since 2000

- Declining towards a shortage declaration
- 2013 Basin Study shows discrepancy between future supply and demand
- Development of Drought Contingency Plan
Lower Basin users take voluntary cuts beyond current shortages
- California cuts from 200,000-350,000 Acre Feet starting at Lake Mead elevation 1,045’ in proportion to average annual diversions
- Water recoverable with limitations
- Expiration in 2026
- Negotiations ongoing

Signed September 2017
- Builds upon and extends Minute 319
  - Continues shortage sharing
  - Updated environmental component
  - Additional U.S. funded projects
- Includes Water Scarcity Contingency Plan contingent on implementation of fully effective U.S. DCP
- Expires in 2026
REDUCTIONS UNDER DCP & MINUTE 323

- Finalize Lower Basin DCP
- Implementation of Minute 323
- Negotiation of future guidelines to operate and maintain the Colorado River system

NEXT STEPS
**QUESTIONS?**

Dan Denham  
Assistant General Manager  
ddenham@sdcwa.org

---

### DROUGHT CONTINGENCY PLAN & MINUTE 323

2007 Interim Guidelines + Drought Contingency Plan + Minute 323 Binational Water Scarcity Contingency Plan  
(numbers in thousand acre feet)

<table>
<thead>
<tr>
<th>Lake Mead Elevation</th>
<th>2007 Interim Guidelines</th>
<th>Drought Contingency Plan</th>
<th>Minute 323</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CA</td>
<td>AZ</td>
<td>NV</td>
<td>CA</td>
</tr>
<tr>
<td>1050'</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1075'</td>
<td>0</td>
<td>320</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>1050'</td>
<td>0</td>
<td>400</td>
<td>17</td>
<td>0</td>
</tr>
<tr>
<td>1045'</td>
<td>0</td>
<td>400</td>
<td>17</td>
<td>200</td>
</tr>
<tr>
<td>1040'</td>
<td>0</td>
<td>400</td>
<td>17</td>
<td>250</td>
</tr>
<tr>
<td>1035'</td>
<td>0</td>
<td>400</td>
<td>17</td>
<td>300</td>
</tr>
<tr>
<td>1030'</td>
<td>0</td>
<td>400</td>
<td>17</td>
<td>350</td>
</tr>
<tr>
<td>1025'</td>
<td>0</td>
<td>480</td>
<td>20</td>
<td>350</td>
</tr>
</tbody>
</table>
Finalized based on August 2017 projections by Bureau of Reclamation

Above average release from Lake Powell (9 MAF)

Full allocations to Lower Basin users in 2018 (No shortage)

2019 projection falls just above shortage trigger of 1,075’
San Ysidro Border Wait Time Pilot Program
January 2018

Intelligent Transportation Systems Study
Benefits of Border Wait Time System

• Provides information to border crossers allowing them to make educated decisions.

• Enables the systematic management of the approach roads to the regional border crossings.

• Provides information to law enforcement for a more efficient management of the Ports of Entry and the approach roads.

• Will support the ability to set and adjust toll rates for future Otay Mesa East Port of Entry.

Goals of Border Wait Time System

• For Southbound traffic install at all California/Mexico ports of entry by 2019.

• Measure wait times for commercial and private vehicles at each border crossing for both northbound and southbound traffic.

• Disseminate data to the traveling public and partner agencies at both sides of the border.
What are Border Wait Times?

Time between a vehicle’s entry into the border queue and its arrival at a Primary Inspection booth.

San Ysidro Border Wait Time Pilot

- WiFi READER
- Encrypted/Hashed MAC Addresses
- Comm Network
- Hashed MAC Addresses
- TMC/Velcity Server
  - Wait Times
  - Historical Trends
  - Reports

Variable Message Signs (VMS)
- S11 Travel Info
- Smartphone Apps
- Web

Borders Committee Item 6 | January 26, 2018
Data Collection Method

- Modified Roadside Callbox Sites
- Stand Alone Sites

Data Collection

- Basic travel time data collected
  - WiFi signature detection at each site
  - Average travel times between pre-set segments
    - Outlier detection
    - Average travel time via minimum number of matches
Wait Time Predictions

- **Uses for Actual Border Wait Times**
  - Minimum number of detected signature matches
  - Historical trends

- **Uses for Expected Border Wait Times**
  - 15-min and 30-min look ahead predictions
  - Information for travelers entering queues

Business Rules

1. Update Border Wait Times (BWT) every 15 minutes.

2. Round up to the nearest 1 minute for wait times between 5 and 30 minutes and round to the nearest 5 minutes for wait times > 30 minutes.

3. For Border Wait Times less than 5 minutes, report, “NO WAIT,” or “< 5 Minutes.”

4. For Border Wait Times more than 2 hours, report, “> 120 Minutes.”

5. Color-coded:
   - BWT ≤ 15 Mins Green
   - 15 Mins < BWT < 30 Mins Yellow
   - BWT ≥ 30 Mins Red
Reporting Platform

Information is available at the Caltrans QuickMap on the Internet at [http://quickmap.dot.ca.gov](http://quickmap.dot.ca.gov). Or, on the Caltrans QuickMap mobile application.

Need for Binational Collaboration

- **Additional Ports of Entry**
  - Final reader located optimally at Mexico Primary Inspection Booth.
  - Requires binational collaboration with border authorities.
Need for Bi-National Collaboration

- **Northbound Direction**
  - Requires close collaboration with Mexico for equipment installation, data processing, and reporting.

Questions?
What is Cross Border Xpress?

- An airport check-in terminal in San Diego with a runway in Mexico.
- An easy access point to Southern California for Mexicans.
- An economic stimulator for business travel to Mexico and from Mexico.
  - A ‘one-of-a-kind’ border crossing.
- A ‘state of the art’ U.S. CBP port of entry.
- A binational symbol of cooperation.
What is and how does Cross Border Xpress (CBX) operate?

- A 390 ft. closed pedestrian bridge located at the border between Mexico and the United States connected to a new Terminal building in San Diego with the Airport of Tijuana.
- Currently serves more than 7 million passengers of Tijuana airport (2017).
- It attracts new users to Tijuana serving as an International Terminal on U.S. and Mexican soil.

NEW PRICING STRUCTURE FOR CBX – ONLINE / POS PRICE ADJUSTMENT

<table>
<thead>
<tr>
<th></th>
<th>SINGLE TICKET</th>
<th>ROUND TRIP</th>
<th>FAMILY PACKAGES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINGLE TICKET</td>
<td>$16 USD</td>
<td>$29 USD</td>
<td>$55 USD</td>
</tr>
<tr>
<td>per persona</td>
<td>por persona</td>
<td>por persona</td>
<td>por familia</td>
</tr>
<tr>
<td>(Save on family packages for 4,5 or 6)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CBX / TIJ is strategically connected with the rest of Mexico.

Tijuana airport offers direct flights to more than 30 destinations in Mexico including: beach destinations, colonial, and also to international destinations like Guatemala, Salvador, Shanghai and Beijing in China.

Expected Growth

<table>
<thead>
<tr>
<th>TIJ Passengers</th>
<th>CBX Users</th>
<th>Penetration</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,377,160</td>
<td>1,359,456</td>
<td>21.3%</td>
</tr>
<tr>
<td>7,253,451</td>
<td>1,922,010</td>
<td>26.9%</td>
</tr>
<tr>
<td>7,701,161</td>
<td>2,305,115</td>
<td>29.9%</td>
</tr>
</tbody>
</table>

2017/2016 Year Over Year (YOY) Results and 2018 Forecast
NEW PROJECTS IN TIJUANA AIRPORT AND CBX

Drop-off Area – Exclusive for CBX passengers

Parking Lot – May 2018

Paved Lots

<table>
<thead>
<tr>
<th>Lot</th>
<th>September ’17</th>
<th>November ’17</th>
<th>March ’18</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>629</td>
<td>629</td>
<td>629</td>
</tr>
<tr>
<td>B</td>
<td>496</td>
<td>496</td>
<td>496</td>
</tr>
<tr>
<td>C</td>
<td>569</td>
<td>569</td>
<td>569</td>
</tr>
<tr>
<td>D</td>
<td>372</td>
<td>372</td>
<td>372</td>
</tr>
<tr>
<td>Car Rental</td>
<td>195</td>
<td>195</td>
<td>290</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,264</strong></td>
<td><strong>1,764</strong></td>
<td><strong>2,357</strong></td>
</tr>
</tbody>
</table>

Non-paved Lots

<table>
<thead>
<tr>
<th>Lot</th>
<th>September ’17</th>
<th>November ’17</th>
<th>March ’18</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>320</td>
<td>320</td>
<td>500</td>
</tr>
<tr>
<td>2</td>
<td>500</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>3</td>
<td>300</td>
<td>300</td>
<td>500</td>
</tr>
<tr>
<td>4</td>
<td>700</td>
<td>700</td>
<td>700</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,820</strong></td>
<td><strong>1,820</strong></td>
<td><strong>1,820</strong></td>
</tr>
</tbody>
</table>

Grand Total

<table>
<thead>
<tr>
<th></th>
<th>September ’17</th>
<th>November ’17</th>
<th>March ’18</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>3,084</strong></td>
<td><strong>3,584</strong></td>
<td><strong>2,357</strong></td>
</tr>
</tbody>
</table>
Thank you!