

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 1: – REDUCE AIR POLLUTION						
Objective 1: Establish reliable and sustainably operated air monitoring networks and provide real-time access to air quality data						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Operate and maintain the Imperial County Air Quality Monitoring Network	Imperial County Air Pollution Control District (ICAPCD), California Air Resources Board (CARB) United States Environmental Protection Agency (USEPA)	ICAPCD, USEPA, CARB: Staff time and maintenance costs	Monica Soucier (ICAPCD) monicasoucier@co.imperial.ca.us	<ul style="list-style-type: none"> Maintain effective operation of air monitoring stations and post real-time air monitoring data on web. Project is on-going. 	<ul style="list-style-type: none"> Monitoring data available online at: https://www.arb.ca.gov/aqmis2/aqdselect.php 2021 data has been uploaded, 2022 data has moderate progress and 2023-2024 data not yet started. This is on-going deliverable 	Significant Progress
Maintain the real-time reporting website for Imperial County Air Quality Monitoring Network	CARB, USEPA, ICAPCD	USEPA, ongoing costs for website maintenance	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Real time reporting and forecasting of ozone, PM_{2.5}, and PM₁₀ air quality in Imperial County, California and Mexicali, Baja California 	<ul style="list-style-type: none"> Near real-time data available at: http://www.imperialvalleyair.org 	Deliverable Achieved
Provide PurpleAir sensor replacements for Mexicali network	CARB, USEPA	USEPA: \$10,000	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Continued availability of PM_{2.5} data in Mexicali, Baja California 	<ul style="list-style-type: none"> Deliver Sensors to the border and provide technical support for network. Network Air quality information is posted on the Purple Air network https://map.purpleair.com/1/mAQI/a10/p604800/c0#11.65/32.6133/-115.4503 	Significant Progress
Assist the City of Mexicali to develop a Purple Air correction factor for the	CARB	USEPA	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Correction factor for PurpleAir sensors 	<ul style="list-style-type: none"> Improved accuracy of reported PurpleAir data. Draft algorithm will be available in March 2022. 	Significant Progress

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region/season						
Two-year PM _{2.5} study in the City of Mexicali, Baja California (BC)	CARB, USEPA, ICAPCD	USEPA	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Study PM_{2.5} data, including composition, in Mexicali Data is reported into USEPA's Air Quality System (AQS) database: https://www.epa.gov/aqs 	<ul style="list-style-type: none"> Complete filter analyses, data processing, and reporting. 	Significant Progress
Maintain PM _{2.5} monitor at the US Consulate in Tijuana, BC	Department of State, USEPA, San Diego County Air Pollution Control District (SDCAPD), CARB	Department of State (ongoing maintenance costs)	Idalia Perez (USEPA) Perez.Idalia@epa.gov	<ul style="list-style-type: none"> Real time reporting of PM_{2.5} data in Tijuana 	<ul style="list-style-type: none"> Near real-time data available at the Air Now Website: https://www.airnow.gov/international/us-embassies-and-consulates/#Mexico\$Tijuana 	Deliverable Achieved
Assist the City of Tijuana, BC to set up a network of 50 air sensors	CARB	USEPA	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Establish a network of sensors in Tijuana, BC to deliver PM_{2.5} data in the region 	<ul style="list-style-type: none"> Delivery of PM_{2.5} sensors to the border and provide technical support. Network implementation is by the City of Tijuana. 	Moderate Progress
San Ysidro diesel monitoring and alert network project	USEPA, CARB, San Diego County Air Pollution Control District (SDCAPCD)	USEPA: \$55,000	Ryan Atencio (CARB) Ryan.Atencio@arb.ca.gov	<ul style="list-style-type: none"> Establish a sensor network to measure NO_x, PM, and black carbon Collect, store, and display data through Air Quality Viewer (AQview) Conduct data analyses including development of a community-scale emissions inventory in collaboration with the San Diego APCD. 	<ul style="list-style-type: none"> Implement network. Analyze and display data Project is in collaboration with SDCAPCD. 	Initial Progress
Support monitoring activities at the Tijuana River Valley (H ₂ S & VOC monitors)	SDCAPCD	USEPA, SDCAPCD	Domingo Vigil, (SDCAPCD) Domingo.Vigil@sdapcd.org	<ul style="list-style-type: none"> Short-term study to measure NO_x/NH₃, CO, H₂S/SO₂, O₃, PM and toxic VOC gases at the Tijuana River Valley 	<ul style="list-style-type: none"> Address public concerns of potential health impacts to the community from air emissions. 	No Progress
Objective 1a: By 2023, increase knowledge-transfer and provide at least one training opportunity on performance standards and applications of low-cost air quality sensors.						

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Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Technical Exchange for Network Operators in community-based groups in the US-Mexico border region to share experiences and insights that could help advance their efforts.	Casa Familiar (San Ysidro, CA), Comité Cívico del Valle (Imperial Valley, CA), Redspira (Mexicali, BC), University of Texas-El Paso and Autonomous University of Ciudad Juarez (Ciudad Juarez, Chihuahua)	USEPA	Carrie Wheeler (USEPA) wheeler.carrie@epa.gov	<ul style="list-style-type: none"> Foster collaboration and sharing of best practices among non-government operators of low-cost air sensor networks on both sides of the U.S.-Mexico border region. 	<ul style="list-style-type: none"> Event took place on June 9, 2021, with 87 participants 	Deliverable Achieved
<p>Objective 1b: By 2024, develop and implement a sustainable funding mechanism for air quality monitoring in at least one Mexican state.</p> <p>* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						
<p>Objective 1c: By 2025, ensure that all air quality agencies operating one or more regulatory air quality monitors have developed a monitoring network plan (ideally in cooperation with other agencies in the same airshed) and a quality assurance project plan.</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
San Diego Monitoring Network Plan	SDCAPCD	SDCAPCD, USEPA	David Sodeman (SDCAPCD) David.Sodeman@sdapcd.org	<ul style="list-style-type: none"> Develop an annual Air Quality Monitoring Network Report. 	<ul style="list-style-type: none"> Updated annually. Available at: https://www.sdapcd.org/content/sdapcd/air-quality/reports-and-plans.html 2021 Report Completed. 2022-24 Report expected 	Significant Progress

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Imperial Monitoring Network Plan	CARB, ICAPCD	CARB, ICAPCD, USEPA	Jin Xu (CARB) jin.xu@arb.ca.gov	<ul style="list-style-type: none"> Develop an annual Air Quality Monitoring Network Report. 	<ul style="list-style-type: none"> Imperial’s monitoring network report is included in CARB’s monitoring network report, which is updated annually. Available at: https://ww2.arb.ca.gov/our-work/programs/ambient-air-monitoring-regulatory/annual-monitoring-network-report 2021 annual report completed. 2022-24 reports in progress 	Significant Progress
Objective 2: Increase the quality and exchange of data from emissions inventories across the border and among federal, state, local, Tribal governments and Mexican Indigenous communities and Afro-Mexican people.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Strengthening Mexican Emissions Inventories and Related Capacity	USEPA, SEMARNAT, California, Chihuahua contractor	USEPA: \$120,000	Carrie Wheeler, (USEPA) wheeler.carrie@epa.gov	<ul style="list-style-type: none"> Identify methodological and data quality gaps in Baja California and Chihuahua state emissions inventories Prioritize and fill identified state emissions inventory gaps. Organize an online technical training event on emissions inventory development standards for Mexican federal, state, and local officials. 	<ul style="list-style-type: none"> Project started in January 2022 and projected to be completed by end of 2022. 	Initial Progress
Emissions inventory for Mexicali, BC	ICAPCD, USEPA	USEPA: \$48,500	Belen Leon (ICAPCD) BelenLeon@co.imperial.ca.us	<ul style="list-style-type: none"> Conduct current Emissions Inventory for Mexicali for Nitrogen oxides (NOx) and Sulphur oxides (SOx), Volatile Organic Compounds (VOCs), Carbon Monoxide (CO), Particulate Matter (PM), Anhydrous Ammonia (NH₃), Methane (CH₄), and Carbon dioxide (CO₂) equivalent. Develop future emissions projections (2030, 2040). Presentation and training for local stakeholders on the results. 	<ul style="list-style-type: none"> Increased understanding of emissions in Mexicali. Results will be presented at the Imperial-Mexicali Air task force meeting. 	Moderate Progress

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Revise on-road motor vehicle emissions information for Baja California	CARB, USEPA	USEPA	Dr. Stephine Kong (CARB) Stephanie.Kong@arb.ca.gov	<ul style="list-style-type: none"> Improved on-road emission inventory estimates for Baja California. Information will be shared in Border 2025 Task Force Meetings. 	<ul style="list-style-type: none"> More realistic understanding of on-road vehicle emissions. Improve air quality modeling and planning efforts. 	Initial Progress
<p>Objective 2a: <i>By 2023, strengthen intergovernmental linkages, increase the exchange of information, and pursue greater harmonization when developing and improving national, state, and municipal emissions inventories, starting with at least two binational airsheds. The initial focus will be on “criteria” pollutants and their precursors (particulate matter, carbon monoxide, lead, sulfur dioxide, nitrogen oxides, volatile organic compounds, and ammonia).</i></p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
“Inventory of Emissions Inventories: Summary of Methodologies for Mexico and US National Emissions Inventories” Report	(USEPA) Texas Commission on Environmental Quality, New Mexico Environment Department, Secretariat of Environment and Natural Resources (SEMARNAT)	USEPA and SEMARNAT staff time	Carrie Wheeler (USEPA) wheeler.carrie@epa.gov	<ul style="list-style-type: none"> Activity to support borderwide effort to encourage communication about the methodologies used to develop existing emissions inventories to better understand emissions in the border region. Facilitate efforts to harmonize the content and development of future releases of the US. and Mexico national emission inventories. Share report with state and local agencies. 	• “English/Spanish report completed in February 2022.	Deliverable Achieved
<p>Objective 2b: <i>By 2024, expand technical training to promote standardized approaches to emissions inventory development (including source measurement and testing) and maintenance.</i></p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Strengthening Mexican emissions inventories and related capacity	USEPA, SEMARNAT; State of Baja California, State of Chihuahua, lead contractor	USEPA: \$120,000	Carrie Wheeler (USEPA) wheeler.carrie@epa.gov	<ul style="list-style-type: none"> Identify methodological and data quality gaps in Baja California and Chihuahua state emissions inventories. Prioritize and fill identified state emissions inventory gaps. 	• Project started in January 2022 and scheduled to be completed by end of 2022.	Initial Progress

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				<ul style="list-style-type: none"> Organize an online technical training event on emissions inventory development standards for Mexican federal, state, and local officials. 		
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Objective 3: Reduce vehicle emissions in the border region, including by establishing or strengthening programs that reduce the number of vehicles that do not comply with vehicle emissions standards.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Address air pollution contributions from mobile sources in the San Diego air basin	CARB, SDCAPCD	SDCAPCD: \$2.3 million annually	William Jacques (SDAPCD) William.Jacques@sdapcd.org	<ul style="list-style-type: none"> Implement the 2014 Memorandum of Understanding signed by SCAPCD to enforce certain mobile sources in the region, including: the In-Use Off-Road Diesel Vehicle Regulation (Off-Road Construction Equipment), Statewide Truck and Bus Regulation, Heavy-Duty Diesel Smoke Emission Testing (HDVIP), Heavy-Duty Vehicle Emission Control System Inspections (ECL), and the In-Use Diesel-Fueled Transport Refrigeration Units. Implement inspections, take enforcement actions, provide training to regulated entities, and conduct outreach. Regulations focus on reducing pollutants that form ozone and cause exposure to toxic diesel pollutants, which adversely impact public health especially in disadvantaged communities. 	<ul style="list-style-type: none"> Decreased emissions from mobile sources due to the increase compliance of regulation. 	Deliverable Achieved

Objective 3a: By 2024, increase cross-border (interagency, interstate, and international) access to databases that officials can use to verify that used vehicles meet emission standards.
 *There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: <https://www.epa.gov/border2020/region-9-action-plans>

Objective 3b: By 2025, implement new vehicle inspection and maintenance programs or improve the existing programs, achieving at least 50% compliance in two or more Mexican states.

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**There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: <https://www.epa.gov/border2020/region-9-action-plans>*

Objective 3c: By 2025, reduce emissions from freight transportation in the border region by increasing information exchange and harmonization between U.S. EPA’s SmartWay program and Mexico’s Transporte Limpio program.

**There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: <https://www.epa.gov/border2020/region-9-action-plans>*

Objective 4: Deploy strategies and technologies to reduce pollutant emissions and improve public health outcomes.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Pave residential alleyways to significantly reduce particulate matter	ICAPCD, USEPA	USEPA \$3,350,371 *same grant funding for 4A	Ray Saracino (USEPA) Saracino.Ray@epa.gov	• Pave 3.46 miles of unpaved alleyways in Calexico, CA over a five-year period to reduce PM _{2.5} and PM ₁₀ .	• Project paving will result in Annual Emission Reductions: • 17.22 tons of PM _{2.5} • 170.41 tons of PM ₁₀	No Progress
Objective 4a: By 2023, implement a program on air-quality-related health effects and/or a communication campaign on air-quality-related health risks and mitigation measures in at least one additional urban airshed (e.g., a public awareness campaign on the health impacts of agricultural burning or trash burning).						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Media outreach campaign in Mexicali and Imperial County to reduce open burning and fireworks during holiday season	ICAPCD, USEPA	USEPA	Belen Leon (ICAPCD) BelenLeon@co.imperial.ca.us	•Broadcast TV and radio spots encouraging the public to reduce open burning and use of fireworks in both English and Spanish.	• Campaign (ongoing) expanded public awareness and increased dialogue on this issue.	Deliverable Achieved
Media outreach of Air Quality Index (AQI)	ICAPCD, USEPA	USEPA*	Belen Leon (ICAPCD) BelenLeon@co.imperial.ca.us	• Develop TV, radio spots and marquee advertisements to encourage the public to sign-up for air quality alerts in both English and Spanish.	• Community education expanded public awareness to sign up for air quality alerts.	Significant Progress

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Binational Environmental Health Summit in Mexicali/Imperial area	ICAPCD, USEPA	USEPA*	Belen Leon (ICAPCD) BelenLeon@co.imperial.ca.us	<ul style="list-style-type: none"> • Hold a public Binational summit to educate the community on regional air quality, the impacts to health, and the consequences of open burning of tires, wood, garbage, and agriculture fireworks. 	<ul style="list-style-type: none"> • Informed public on air quality and environmental health. 	Initial Progress
<p>Objective 4b: By 2025, implement at least two policy-based (e.g., multi-pollutant assessment, co-mitigation of short-lived climate pollutants, and Global Methane Initiative) or technology-based (e.g., renewable energy financing or other incentives) programs targeting specific pollutants or sectoral emissions of local concern. *There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						
<p>Objective 4c: Implement additional emission reduction strategies consistent with applicable State Implementation Plans (SIPs) and PROAIRES * There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						
<p>Objective 5: By 2025, support update and/or completion of climate action plans in each of the six northern Mexican Border States (as appropriate) and build the necessary capacity to guarantee sustained implementation. * There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						

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GOAL 2: IMPROVE WATER QUALITY						
<p>Objective 1: Address Border Water Management in the Tijuana River Watershed. The EPA and SEMARNAT are to coordinate with specific federal, state, and local entities to plan and implement high priority infrastructure projects that address transboundary pollution affecting the Tijuana River watershed.</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
United State Mexico Canada Agreement (USMCA) Project in Tijuana, BC/San Diego, CA	Eligible Public Entities per USMCA directive	USMCA Congressional Appropriation Cost: TBD EPA staff time	Doug Liden (USEPA) liden.doug@epa.gov Monica Moran (USEPA) Moran.Monica@epa.gov	<ul style="list-style-type: none"> Schedule ongoing Eligible Public Entities engagement meetings and public engagement meetings, as needed. Identify and select USMCA Project for list of alternatives. USMCA	<ul style="list-style-type: none"> Complete final project selection for USMCA projects. 	Moderate Progress
<p><i>Objective 1a: Carry out the planning, design, construction, and operation and maintenance of high priority treatment works in the Tijuana River Watershed.</i></p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
USMCA wastewater infrastructure projects in Tijuana BC and San Diego County	Eligible Public Entities per USMCA directive	USMCA Congressional Appropriation Cost: TBD	Doug Liden (USEPA) liden.doug@epa.gov Monica Moran (USEPA) Moran.Monica@epa.gov	<ul style="list-style-type: none"> Complete financial structure with Mexico for Mexican-side projects. Complete National Environmental Policy Act (NEPA) requirements, including public comment period, by publishing the Record of Decision in late 2022. 	<ul style="list-style-type: none"> Commence construction of “shovel-ready” projects in Tijuana Complete Record of Decision for NEPA document. 	Moderate Progress
<p>Objective 2: Improve Drinking Water and Wastewater Treatment Infrastructure. Ten drinking water and/or wastewater projects will be developed and certified by the NADB Board of Directors by 2025 under the Border Water Infrastructure Program</p>						
<p><i>Objective 2a: Increase access to safe drinking water and wastewater treatment in underserved communities.</i></p>						
<p>* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						
<p><i>Objective 2b: Reduce discharges of untreated wastewater into the oceans and transboundary rivers such as those in the Tijuana River, New River, Santa Cruz River and the Rio Grande/Rio Bravo watersheds</i></p>						

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GOAL 2: IMPROVE WATER QUALITY						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Mexicali-Wastewater Connections Main Lines Phase II Rehab	USEPA, North American Development Bank (NADB), Mexico Water Commission (CONAGUA), Mexico State Public Service Agency (CESPM)	USEPA Border Water Infrastructure Project (BWIP), CONAGUA, and CESPM \$4.9M	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	<ul style="list-style-type: none"> Install approximately 13,000 meters of pipeline to improve over 11,000 wastewater connections and risk mitigation of wastewater discharges into the New River. 	<ul style="list-style-type: none"> Complete NADB certification of project. 	Moderate Progress
Mexicali Sewer Force Mains Rehabilitation	USEPA, NADB, CONAGUA, CESPM	USEPA BWIP, CONAGUA/CE SPM Cost: TBD	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	<ul style="list-style-type: none"> Rehabilitate 5 sewer force main lines, leading to over 170,000 improved wastewater connections and risk mitigation of wastewater discharges into the New River. 	<ul style="list-style-type: none"> Complete NADB certification of project. 	Moderate Progress
Mexicali Wastewater Connections Main Lines and Pump Stations	USEPA, NADB, CONAGUA, CESPM	USEPA BWIP, CONAGUA/CE SPM \$8.1M	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	<ul style="list-style-type: none"> Install 3,970 meters of pipeline, leading to over 150,000 improved wastewater connections and risk mitigation of wastewater discharges into the New River. 	<ul style="list-style-type: none"> Project completion by the end of 2022 (exact date TBD). 	Significant Progress
Mexicali Small Lift Stations Rehabilitation	USEPA, NADB, CONAGUA, CESPM	USEPA BWIP, CONAGUA/CE SPM \$4.1M	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	<ul style="list-style-type: none"> Install 12 small pump stations, leading to over 40,000 improved wastewater connections and risk mitigation of wastewater discharges into the New River. 	<ul style="list-style-type: none"> Construction began in October 2021. 	Significant Progress
Tijuana Collector Poniente 1A Rehabilitation	USEPA, NADB, CONAGUA, CESPT	USEPA BWIP, CONAGUA/CE SPT \$5.9M	Doug Liden (USEPA) Liden.Doug@epa.gov	<ul style="list-style-type: none"> Rehabilitate Collector Poniente 1A with nearly 2,000 meters of pipeline installed. Mitigates wastewater discharges into the Tijuana River. 	<ul style="list-style-type: none"> Project completed in late 2021. 	Deliverable Achieved

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Tijuana Collector Oriente Rehabilitation	USEPA, NADB, CONAGUA, CESPT	USEPA BWIP, CONAGUA/CE SPT \$1.8M	Doug Liden (USEPA) Liden.Doug@epa.gov	• Rehabilitate Collector Oriente with over 1,300 meters of pipeline installed. Mitigates wastewater discharges into the Tijuana River.	• Construction initiated on Nov 2021 and finalized before CY23.	Significant Progress
Tijuana International Collector Rehabilitation Phase I	USEPA, NADB, CONAGUA, CESPT	USEPA BWIP, CONAGUA/CE SPT \$7.4M	Doug Liden (USEPA) Liden.Doug@epa.gov	• Rehabilitate 1.6 miles of concrete pipe adjacent to the US-Mexico border. Project to eliminate wastewater discharges into Tijuana River of up to 60 million gallons per day (mgd).	• NADB certification to be completed in March 2022. • Construction expected to initiate in September 2022.	Moderate Progress
Tijuana River Diversion Rehabilitation	USEPA, NADB, CONAGUA, CESPT	USEPA BWIP, CONAGUA/CE SPT ~\$15M	Doug Liden (USEPA) Liden.Doug@epa.gov	• Rehabilitate Tijuana wastewater infrastructure collection system: Pump Station CILA, Pump Station 1A and 1B, and intake expansion.	• NADB certification to be completed in March 2022.	Moderate Progress
New River Improvement projects Calexico Region	California Environmental Protection Agency (CalEPA)	\$28M total funds from State of CA	CalEPA: BorderAffairs@calepa.ca.gov	• Improve water quality in the New River by installing infrastructure trash screen and diverting polluted water away from city center.	• Initiate construction of infrastructure project by 2022 and complete by 2024.	Initial progress
Objective 3: Improve O&M of Drinking Water and Wastewater Infrastructure.						
Objective 3a: <i>Ensure that infrastructure projects funded by the U.S. or Mexico have adequate O&M reserves and long-term planning.</i>						
* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans						
Objective 3b: Build capacity at water utilities through training and programs that improve the following:						
<input type="checkbox"/> Asset management. <input type="checkbox"/> Wastewater pretreatment (treatment of industrial wastewater discharged to a public wastewater treatment plant). <input type="checkbox"/> Operational, managerial and financial management.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Reconnect with National Association of Clean Water	USEPA, NACWA, NADB, state and local authorities.	TBD	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	• Reestablish communication with NACWA by organizing meeting with interested parties to bring resources to small water/wastewater utilities. Meeting	• Well-trained and equipped small water/wastewater utilities will lead to Improved environmental conditions at border.	Initial Progress

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Agencies (NACWA) to establish coordination to offer training, asset management support to small utilities along the border			Monica Moran (USEPA) Moran.Monica@epa.gov	date to be determined. Use pretreatment training pilot project in Sonora as example.		
<p>Objective 4: Promote beneficial reuse of treated wastewater and conservation of water and energy. 100% of Border Water Infrastructure Program projects selected for development will include an assessment of water reuse opportunities, if appropriate by 2025.</p> <p><i>Objective 4a: Assess opportunities to fund wastewater reuse projects through the infrastructure program, complying with current regulations.</i> <i>* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</i></p> <p><i>Objective 4b: Develop at least one wastewater reuse pilot project, or one utility-driven water/energy audit.</i></p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Design Wetland Restoration Plan for Cocopah	Cocopah Tribe	NADB grant \$43,563 \$8,330 leveraged by Cocopah	Jen Alspach (Cocopah Tribe) alspachj@cocopah.com Monica Moran (USEPA) Moran.Monica@epa.gov Emily Pimentel (USEPA) Pimentel.Emily@epa.gov	<ul style="list-style-type: none"> Sample wastewater discharge from the Yuma Wastewater Treatment Plant and soils adjacent to and in wetland to inform design for the wetland which is part of the Colorado River network and on Cocopah's Tribal land. 	<ul style="list-style-type: none"> Develop Wetland Design to restore wetland on Cocopah's Tribal land. 	Initial Progress
<p>Objective 5: Implement projects to prevent and reduce the levels of trash and sediment from entering high priority binational watersheds. Projects that prevent/reduce marine litter should primarily focus on preventing waste at the source through improvements to solid waste management systems, education campaigns, and monitoring as well as reducing trash from entering the aquatic environment through the capture of litter using river booms in known watershed litter hot spots. Funding sources are intended for at least one project in Tijuana River, New River, Rio Grande, and Santa Cruz River watersheds will be implemented to address trash or sediment by 2025.</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Monitoring of Tijuana River to quantify and	USEPA, San Diego State University (SDSU), and IBWC	USEPA Research Applied	Trent Biggs (SDSU) tbiggs@sdsu.edu	<ul style="list-style-type: none"> Install the necessary equipment for water quality and sediment flow monitoring in the Tijuana River, north of 	<ul style="list-style-type: none"> Improve understanding of sediment flow and magnitude and sewage contamination to the Tijuana River, north of the border to inform Total 	Initial Progress

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GOAL 2: IMPROVE WATER QUALITY						
respond to transboundary contamination		Research Effort (RARE) grant \$147,000	Doug Liden (USEPA) Liden.Doug@epa.gov Yuan, Yongping Yuan.Yongping@epa.gov	the border. • Conduct two years of daily monitoring to quantify the magnitude of sediment and sewage contamination in the Tijuana River, north of the border.	Maximum Daily Load (TMDL) development, sediment management plans, and improve water quality conditions for river and beach use for local communities of San Diego County, Imperial Beach, and Coronado, CA.	
Objective 6: Improve access to transboundary water quality data.						
<i>Objective 6a: Ensure sewage spill notification protocols are in place for all communities affected by transboundary flows of untreated sewage. A sewage runoff model will be developed for Tijuana by 2021. Spill notification protocols will be developed in three high priority watersheds by 2025.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Spill Notifications in the New River	USEPA, International Water and Water Commission (IBWC), and Mexico's counterpart (Comisión Internacional de Límites de Agua, CILA)	N/A	Gabriela Baeza-Castañeda (USEPA) baeza-castaneda.gabriela@epa.gov	<ul style="list-style-type: none"> Update spill notifications protocol for the New River (when a spill occurs in Mexicali, Mexico must engage in a formal process notifying the US of the events via the MX/US International Boundary and Water Commission. Early notifications will allow for immediate actions downstream of New River and mitigate spill impacts. 	• Updated spill notifications for New River in late 2021.	Deliverable Achieved
Tijuana River runoff model	USEPA, Scripps Center for Research (SCRIPPS), and Institution of Oceanography, Stanford University	USEPA/NADB Border 2020 grant: \$117,432 SCRIPPS in-kind support	Doug Liden (USEPA) Liden.Doug@epa.gov Monica Moran (USEPA) Moran.Monica@epa.gov	<ul style="list-style-type: none"> Evaluate reduction in human illness and Tijuana River flow beach impacts under baseline conditions and three infrastructure diversion scenarios. 	• Measured transboundary spill and/or ocean flow impacts to identify sources of wastewater.	Deliverable Achieved
<i>Objective 6b: Increase awareness of beach contamination from marine debris and untreated sewage through modeling, monitoring (should focus on sources and types of marine debris) and special studies.</i>						
<i>* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</i>						
<i>Objective 6c: Ensure that U.S. Section of the International Boundary and Water Commission (IBWC) website displays timely information on water quality in high-priority watersheds including the Lower Rio Grande/Bravo, the New River, the Santa Cruz River and the Tijuana River</i>						

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 2: IMPROVE WATER QUALITY

** There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: <https://www.epa.gov/border2020/region-9-action-plans>*

Objective 6d: Continue the work of the binational water quality improvement plan as part of the Lower Rio Grande Water Quality Initiative in the Lower Rio Grande below Falcon International Dam.

** See Region 6 Action Plan available at: <https://www.epa.gov/usmexicoborder/region-6-workgroups>*

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES

Objective 1: By 2025, share information and experiences on sustainable materials management and resource efficiency practices with local and state-level institutions, tribal governments, and indigenous and Afro-Mexican communities.

*There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: <https://www.epa.gov/border2020/region-9-action-plans>

Objective 2: Identify priority waste streams and develop sustainable materials management and resource efficiency practices that strengthen their respective market value.

Objective 2b. Develop strategies or trainings to reduce illegal dumping, maximize material recovery, and promote environmentally sound disposal practices by 2025.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Waste analysis and socio-environmental vulnerability in the Alamar River, Tijuana BC	Environmental Health Coalition (EHC)	USEPA/NADB Border 2025 grant: \$75,000 Leverage: \$76,700	Dominique Navarro (EHC) dominiquen@environmentalhealth.org André Villaseñor (USEPA) Villasenor.andre@epa.gov Jessica Helgesen(USEPA) Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Identify, analyze and quantify pollution in the forested area of the Alamar River Establish an Environmental Management Plan to designate the Alamar River as a natural protected zone. Conduct clean-up, rehabilitation, and prevention of waste along this critical binational watershed. 	<ul style="list-style-type: none"> Improved water quality for 45,000 people. Designate Alamar River as natural protected zone. Community engagement and co-empowerment through river clean-ups and community map input workshops. 	Initial Progress
Pilot Program: Community Prevention of Clandestine Dump Anexa Miramar, Tijuana, BC	Proyecto Fronterizo de Educación Ambiental (PFEA)	USEPA/NADB Border 2025 grant: \$74,500 Leverage: \$278,700	Margarita Díaz López (PFEA) pfea.margarita@gmail.com André Villaseñor (USEPA) Villasenor.andre@epa.gov Emily Pimentel(USEPA) Pimentel.emily@epa.gov	<ul style="list-style-type: none"> Educate and train 120 community members on proper solid waste management and community mapping. Conduct solid waste characterization Implement a community-led trash clean-up and sorted waste collection model. 	<ul style="list-style-type: none"> Prevent contamination of the Tijuana River Estuary. Improve a community's environment Serves as replicable, community-based model to engage in waste characterization and clean-up. 	Initial Progress
Strengthening Waste Management in San Antonio Necua, Ensenada, BC	Instituto de Planeación Ambiental y Calidad de Vida, Asociación Civil (INPACVI, A.C.)	USEPA/NADB Border 2025 grant: \$60,000 Leverage: \$30,000	Rosa Contreras Motolinía, INPACVI info@inpacvi.org André Villaseñor(USEPA) Villasenor.andre@epa.gov	<ul style="list-style-type: none"> Initiate the operation of Center for Solid Waste Management (CIMA). Train 150 Kumiai community members in solid waste management Via, GIS, identify and monitor illegal trash dumping. Implement residential organics 	<ul style="list-style-type: none"> Reduction of illegal trash dumping and trash fires. Reduction of greenhouse gas emissions. 	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 3: PROMOTE SUSTAINABLE MATERIALS MANAGEMENT AND WASTE MANAGEMENT, AND CLEAN SITES

			Emily Pimentel(USEPA) Pimentel.emily@epa.gov	separation and composting operation.		
Objective 3: By 2025, improve knowledge at every level of government (federal, state, local) to improve solid waste disposal site operations						
<i>Objective 3b: By 2025, identify strategies to reduce landfill fires.</i>						
*There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans						
Objective 4: Prevent and Reduce Pollution in the Marine Environment.						
<i>Objective 4a: Promote solutions that involve identifying hotspots of litter accumulation in and around waterways, especially in shared watersheds, and build capacity for improving waste management systems and preventing leakage where necessary.</i>						
*There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans						
Objective 5: On an annual basis, implement the Binational Consultative Mechanism on sharing information on border area hazardous waste facilities, spent lead acid battery and electronics recycling facilities.						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Implement the Consultative Mechanism to report border area hazardous waste facilities (treatment, storage, and disposal), and spent lead-acid batteries and electronics recycling facilities.	USEPA, California Department of Toxic Substances Control (DTSC), and Baja California Secretary for Environment and Sustainable Development	USEPA grant: In-kind	André Villaseñor (USEPA) Villasenor.andre@epa.gov Carlo Rodriguez (DTSC) Carlo.Rodriguez@dtsc.ca.gov	• Implement the Consultative Mechanism to report border area hazardous waste facilities (treatment, storage, and disposal), and spent lead-acid batteries and electronics recycling facilities.	• Post Consultative Mechanism report on Border 2025 website for increase public access to information.	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES

Objective 1: Update the Joint Mexico-United States Contingency Plan (JCP) and evaluate the emergency notification system along the border of Mexico and the United States.

Objective 1a: In 2021, the JCP notification system should be reviewed and updated to assess its operability and incorporate possible protocol changes and new technological developments.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Begin review of JCP for administrative updates	USEPA, Procuraduría Federal de Protección al Ambiente de Mexico, (PROFEPA), Proteccion Civil	Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Proteccion Civil (TBD) Gerardo Romo (Douglas Fire) gerardo.romo@douglasaz.gov	<ul style="list-style-type: none"> Provide a second review of the JCP for more substantial changes. Review JCP for updates, finalize and jointly sign JCP by 2023. 	<ul style="list-style-type: none"> Review, update, and finalize US-Mexico Joint Contingency Plan by 2023. 	Initial Progress

Objective 1b: By the year 2022, a revised and updated version of the JCP will be finalized, including any changes and / or modifications of the participating parties (names, affiliations, etc.) of the governmental structure of both countries.

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Update and finalize JCP	USEPA, PROFEPA, Proteccion Civil AZ-Sonora Task Force Co-Chairs	Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Proteccion Civil (TBD) Gerardo Romo (Douglas Fire) gerardo.romo@douglasaz.gov	<ul style="list-style-type: none"> Initial process of reviewing JCP for simple administrative updates. Review JCP for updates, finalize and jointly sign JCP by 2023. 	<ul style="list-style-type: none"> Review, update, and finalize US-Mexico Joint Contingency Plan by 2023. 	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
<p>Objective 1c: As part of the evaluation of the operability of the JCP notification system, each country should conduct at least 40 annual chemical emergency notification drills through the National Center of Communication (CENACOM) in Mexico, and the National Response Center (NRC) in the United States.</p> <p>* There are currently no active projects under this objective for the 2021-2023 cycle. Past action plans are available at: https://www.epa.gov/border2020/region-9-action-plans</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Conduct emergency notification drills.	USEPA, PROFEPA, Protección Civil AZ-Sonora Task Force Co-Chairs		Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Protección Civil (TBD) Gerardo Romo (Douglas Fire) gerardo.romo@douglasaz.gov	<ul style="list-style-type: none"> Complete at least 40 drills in the California- Baja California Border region. 	<ul style="list-style-type: none"> Ensure that the binational notification system works efficiently between the two countries. 	Initial Progress
<p>Objective 2: Review, update and evaluate the Sister City Joint Contingency Plans (SCJCPs).</p>						
<p>Objective 2a: By 2021, a study of the 15 SCJCPs should be completed utilizing existing risk analysis data. This study must consider, among other aspects, the SCJCP's content and scope.</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Arizona State University (ASU) Study: Borderwide Study to Evaluate 15 Sister City Joint Contingency Plans	USEPA, PROFEPA, Protección Civil CA-Baja CA Co-Chairs	USEPA/NADB Border 2025 grant: \$63,224 Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Bill Jones (USEPA) jones.bill@ewpa.gov	<ul style="list-style-type: none"> Conduct a minimum of two virtual SCJCP evaluation criteria development meetings with Stakeholders. Prepare a SCJCP Evaluation Report. 	<ul style="list-style-type: none"> Study will provide the necessary Information to provide a recommended SCJCP template. 	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
		contributed by each organization	Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Stephanie Espinoza (ASU) slespino@asu.edu			
<i>Objective 2b: By the year 2022, a joint study should be carried out in the border region aimed at adjusting the number of Border Sister Cities that are members of the JCP.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
ASU Study: Borderwide Study to Evaluate 15 Sister City Joint Contingency Plans	USEPA, PROFEPA, Proteccion Civil, CA-Baja CA Task Force Co-Chairs	USEPA/NADB Border 2025 grant: \$63,224 Staff time contributed by each organization.	Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Proteccion Civil (TBD) Gerardo Romo (Douglas Fire) gerardo.romo@douglasaz.gov	<ul style="list-style-type: none"> Conduct a minimum of two virtual SCJPC evaluation criteria development meetings with Stakeholders. Prepare a SCJCP Evaluation Report. 	<ul style="list-style-type: none"> Study will provide the necessary Information to provide a recommended SCJCP template. 	Initial Progress
<i>Objective 2c: Based on the results of the sister city JCP Study, the updated SCJCP's must be promoted to the corresponding stakeholders (Regional Groups, NADB, etc.) during the Border 2025 Environmental Program. The actions carried out in this objective will be aimed at achieving the update of the 15 SCJCP's between 2020 to 2025.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Prerequisite ASU Study: Borderwide Study to Evaluate 15 Sister City Joint Contingency Plans	USEPA, PROFEPA, Protección Civil, CA-Baja CA Task Force Co-Chairs	USEPA/NADB Border 2025 grant: \$63,224	Jane Kepler (USEPA) Kepler.jane@epa.gov Bill Jones (USEPA) jones.bill@ewpa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx	<ul style="list-style-type: none"> Complete ASU study to provide input for SCJCP Updates by 2022 	<ul style="list-style-type: none"> Provide input for SCJCP updates based on the ASU study findings by 2022. 	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
			Stephanie Espinoza (ASU) slespino@asu.edu			
<p>Objective 2d: In order to evaluate the SCJCP, each country must conduct at least three annual field drills in the Sister Cities located in the Mexico - United States border region, ensuring a joint response is carried out. Prior to conducting the drills, the participating staff must be trained through the delivery of binational seminars</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
ASU Study: Borderwide Study to Evaluate 15 Sister City Joint Contingency Plans	ASU, USEPA, PROFEPA	USEPA/NADB Border 2025 grant: \$63,224	Jane Kepler (USEPA) Kepler.jane@epa.gov Bill Jones (USEPA) jones.bill@ewpa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx Stephanie Espinoza (ASU) slespino@asu.edu	<ul style="list-style-type: none"> Conduct four virtual seminars on SCJCP notification requirements in four Sister City locations. Conduct four virtual SCJCP notification drills in four different Sister City locations. Produce four After Action Reports/Improvement Plans for the notification drills by 2023. 	<ul style="list-style-type: none"> Four virtual seminars, four virtual Sister City notification drills, and produce after-action reports by 2023. 	Initial Progress
<p>Objective 3: Strengthen the training of emergency response personnel through the development of in-person or online training courses by creating a certificate of skills recognized by corresponding authorities. Additionally, develop and disseminate technical support material to help inform the public in case of emergency.</p>						
<p>Objective 3a: In coordination with the Regions, a Sister City Training Program should be developed during the year 2021 and implemented throughout the Border 2025 program. The Training Program should focus on course offerings that result in certifications to enhance the competency of emergency responders.</p>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Utilize trainings to develop list of course offerings that would satisfy the Sister City Training Program to	USEPA, PROFEPA, Protección Civil CA-Baja CA Task Force Co-Chairs	Staff Time	Jane Kepler (USEPA) Kepler.jane@epa.gov Bill Jones (USEPA) jones.bill@ewpa.gov	<ul style="list-style-type: none"> Deliver a variety of trainings to prepare a well-rounded cadre of responders along the border Determine courses and trainings that could be recommended to improve 	<ul style="list-style-type: none"> Develop list of approved trainings and certifications Deliver 4 sets of training in Mexicali on a quarterly basis. Produce after the Action report. 	Initial Progress

California-Baja California 2021-2023 Border 2025 Action Plan

GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
better inform responders of training needs.			Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx	preparedness		
<i>Objective 3b: At least three annual seminars, workshops and/or coordinated courses should be conducted between the two countries on topics including chemical substances, risk and consequences analysis, and emergency management.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Determine seminar/workshop needs and deliver at least three coordinated courses	USEPA, PROFEPA	Staff Time	Jane Kepler (USEPA) Kepler.jane@epa.gov	<ul style="list-style-type: none"> Define content and coordination for training workshops at the Border 2025 Policy Forum meeting March 16, 2022. 	<ul style="list-style-type: none"> Conduct workshop. 	Initial Progress
Provide quarterly training in Mexicali	USEPA, WESTON/5 th Phase (contractor/sub)	USEPA Contract Funds \$100,000	Bill Jones (USEPA) jones.bill@ewpa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx	<ul style="list-style-type: none"> Deliver first responder awareness, first responder operations, HAZMAT Tech and Incident Command System training to 10 or more personnel in Mexicali. 	<ul style="list-style-type: none"> Complete delivery of courses and provide after action reports. 	Initial Progress
<i>Objective 3c: In order to complement the training opportunities, audiovisual material and online courses focused on prevention and response to chemical emergencies should be made available at the border.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Develop website and training materials	USEPA, PROFEPA, Proteccion Civil CA-Baja CA Task Force Co-Chairs	Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Bill Jones (USEPA) jones.bill@ewpa.gov Enrique Ortiz (PROFEPA)	<ul style="list-style-type: none"> Create online website that can be used for resources at Response.epa.gov. Gather additional training materials to add to website. Update website regularly for future training opportunities. 	<ul style="list-style-type: none"> Create online web location for course materials and training opportunities (Response.epa.gov). 	Initial Progress

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GOAL 4: IMPROVE JOINT PREPAREDNESS FOR AND RESPONSE TO HAZARDOUS ENVIRONMENTAL EMERGENCIES						
			enrique.ortiz@profepa.gob.mx			
Objective 4: Design and implement the guidelines and protocols to ensure rapid, safe, and legal passage of personnel and materials across the Mexico – United States border in emergency response situations						
<i>Objective 4a: By 2021, an action plan should be developed to address respective liability coverage of each country to facilitate the movement of people and materials across the border during drills or emergency events.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Initial consultation with Border Patrol and US Coast Guard (USCG)	USEPA, PROFEPA, Proteccion Civil; US Customs and Border Patrol (CBP)	Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx	<ul style="list-style-type: none"> Conduct initial outreach to CBP for contact. Meet with CBP and other parties to determine feasibility of a memorandum of understanding (MOU) for responders. Develop agreement or MOU with CBP to allow for improved transit across border 	<ul style="list-style-type: none"> Agreement or MOU with CBP to allow for improved transit across border 	Initial Progress
<i>Objective 4b: By 2022, each country should complete a report on the status of transboundary movement of human and material resources during emergencies, as well as the current and future actions that are being carried out.</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2021-2023	Status
Complete report on status of transboundary emergency personnel and equipment	USEPA, PROFEPA, Proteccion Civil	Staff time	Jane Kepler (USEPA) Kepler.jane@epa.gov Enrique Ortiz (PROFEPA) enrique.ortiz@profepa.gob.mx	<ul style="list-style-type: none"> Complete report on transboundary emergency issues. (Legal liability issues have prevented movement of personnel and equipment. Thus, no study has been possible.) 	<ul style="list-style-type: none"> Report on transboundary emergency personnel and equipment. 	No Progress

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GUIDING PRINCIPLES AND CROSS CUTTING MEDIAS

Environmental Justice

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Implement Comité Civico Del Valle, CalEPA's Environmental Justice (EJ) Program project aimed to lift the unfair burden of pollution from those most vulnerable to its effects.	CalEPA	CalEPA EJ grant: \$49,418. (\$4M to 84 grant recipients state-wide) https://calepa.ca.gov/envjustice/funding/smallgrants/	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Collect and analyze water quality data on canal water that is representative of household exposure from the Imperial Canal. 	<ul style="list-style-type: none"> Complete the Comité Civico Del Valle grant by 2023, https://calepa.ca.gov/envjustice/. 	Initial Progress
Implement Mundo Gardens, CalEPA's Environmental Justice Program project aimed to lift the unfair burden of pollution from those most vulnerable to its effects.	CalEPA	CalEPA EJ grant \$40,495 (\$4M to 84 grant recipients state-wide) https://calepa.ca.gov/envjustice/funding/smallgrants/	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Provide EJ education programming for 24 classes at two K-12 school sites and public outreach and activities to promote student home assessments. 	<ul style="list-style-type: none"> Complete the Mundo Gardens grant by 2023, https://calepa.ca.gov/envjustice/. 	Initial Progress
Implement San Diego Coastkeeper, CalEPA's Environmental Justice Program project aimed to lift the unfair burden of pollution from those most vulnerable to its effects.	CalEPA	CalEPA EJ grant \$50,000 \$4M to 84 grant recipients state-wide) https://calepa.ca.gov/envjustice/funding/smallgrants/	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Provide year-long paid high school environmental science education and workforce development program and student training to monitor the water quality of local waterways. 	<ul style="list-style-type: none"> Complete the San Diego Coastkeeper grant by 2023, https://calepa.ca.gov/envjustice/. 	Initial Progress

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GUIDING PRINCIPLES AND CROSS CUTTING MEDIAS						
Implement San Diego Urban Sustainability Coalition, CalEPA's Environmental Justice Program project aimed to lift the unfair burden of pollution from those most vulnerable to its effects.	CalEPA	CalEPA EJ grant \$29,670 \$4M to 84 grant recipients state-wide) https://calepa.ca.gov/envjustice/funding/smallgrants/	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Educate community residents about food insecurity and climate equity and collaboration with the City to establish an urban food forest. 	<ul style="list-style-type: none"> Complete the San Diego Urban Sustainability grant by 2023, https://calepa.ca.gov/envjustice/. 	Initial Progress
Implement San Diego350, CalEPA's Environmental Justice Program project aimed to lift the unfair burden of pollution from those most vulnerable to its effects.	CalEPA	CalEPA EJ grant, \$50,000 \$4M to 84 grant recipients state-wide) https://calepa.ca.gov/envjustice/funding/smallgrants/	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Conduct educational activities for three schools on environmental and climate actions, including Kumeyaay approaches to climate and sustainability, and train 40 youth leaders of Eco-Clubs at two high schools. 	<ul style="list-style-type: none"> Complete the SanDiego350 grant by 2023. (https://calepa.ca.gov/envjustice/). 	Initial Progress
<i>Air quality and asthma actions</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Environmental Health Coalition Project Title: Engaging Residents in Air Quality in Logan (Air monitoring and public education)	USEPA, Environmental Health Coalition	USEPA \$30,000	CJ Mishima (USEPA) mishima.christopher@epa.gov Jessica Helgesen (USEPA) Helgesen.Jessica@epa.gov	<ul style="list-style-type: none"> Educate residents to better understand air quality issues in their community and the resulting health risks Empower residents to participate in governmental decision-making around air quality Support community-led air protection efforts including 	<ul style="list-style-type: none"> EHC is continuing to apply for dedicated funds to support education/co-empowerment of resident leaders around air quality with the CERP. Enhanced awareness of air quality issues and causes awareness for Community Action Team members in National City and Barrio Logan. Participation included port side stakeholders. Community is now better prepared to share their 	Deliverable Achieved

California-Baja California 2021-2023 Border 2025 Action Plan

GUIDING PRINCIPLES AND CROSS CUTTING MEDIAS

				community air monitoring. • Build a base of engaged residents that reflects their communities' voices, experiences, and priorities in regional air quality planning.	experience at the San Diego Air Pollution Control District. • Hosted a four-session training on transportation justice, attended by 62 community members. Attendees learned to advocate for an effective, safe, and equitable mass transit system that will reduce air pollution and greenhouse gas emissions in the region.	
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Integrated pest management and pesticide exposure actions

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Build awareness on Pesticide exposure and ways to prevent and/or report it	California Employment Development Department (EDD), USEPA, Imperial County Agricultural Commissioner's Office	Staff time	Fabiola Estrada (USEPA) Estrada.Fabiola@epa.gov	<ul style="list-style-type: none"> • Attend events for bilingual outreach such as the Annual Farmworker Appreciation Breakfast with resources on workers protection standards and safety. • Build awareness of pesticide safety and ways to prevent pesticide illness/injury and where to report with key stakeholders in English/Spanish. 	<ul style="list-style-type: none"> • On December 3, 2021, EPA joined the Imperial County Agricultural Commissioner and the California Department of Pesticide Regulation in Calexico, CA for the 42nd annual farmworker appreciation breakfast organized by the California EDD with 400+ participants. • USEPA provided Worker Protection Standard and general pesticide safety information. 	Significant Progress

Multi-topic environmental health actions (IPM, IAQ, vector-borne, asthma-related, lead poisoning, children's health, Healthy Homes, etc.)

Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Imperial Valley Environmental Justice Task Force Meetings to address/resolve identified issues	USEPA, Comité Civico del Valle, DTSC EJ Task Force, CARB, IID, ICAPCD, CA Water Boards	Staff time	Jessica Helgesen USEPA) Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> • Refer, as needed, comments to USEPA specific staff. • Encourage USEPA staff to participate depending on agenda items. • Ongoing 	<ul style="list-style-type: none"> • Share announcements on Border 2025 meetings, newsletters, webinars, grants and other programmatic information to participants. • Help identify contacts for questions as needed. 	Moderate Progress

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Expand knowledge on Border 2020 and increase Environmental Health Awareness in the California- Baja California border region	USEPA, University California San Diego	Staff Time	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov Eileen Shanahan (USEPA) shanahan.eileen@epa.gov	<ul style="list-style-type: none"> • Hold a virtual Occupational Health Panel to promote health awareness in the border region. 	<ul style="list-style-type: none"> • On March 9, 2021 and March 8, 2022 presented virtually at the University California San Diego for an Environmental and Occupational Health Panel to over 80 graduating seniors on USEPA's mission, the Border 2025 Program, how USEPA staff works on environmental health topics, and the various ways students can enter federal government service. 	Deliverable Achieved
Development of a Public Participation Plan	SDCAPCD	USEPA, San Diego County Air Pollution Control District (SDCAPCD)	Domingo Vigil, (SDCAPCD) Domingo.Vigil@sdapcd.org	<ul style="list-style-type: none"> • Develop a Public Participation Plan that would help increase public engagement. • Includes: comprehensive strategies to encourage public participation in decision making processes, engagement in air quality improvement activities, and increase public awareness of air quality issues and our public complaint process. 	<ul style="list-style-type: none"> • Increase engagement of the public in SDCAPCD activities to improve health outcomes. 	Significant Progress
Implementation of the Community Air Protection Program (AB 617) in the Portside Community (Sherman Heights, Logan Heights, Barrio Logan, and West National City)	CARB, SDCAPCD	CARB, SDCAPCD	Domingo Vigil, (SDCAPCD) Domingo.Vigil@sdapcd.org	<ul style="list-style-type: none"> • Develop a Community Air Monitoring Plan. • Develop a Community Emissions Reduction Plan. • Involve Steering committee members in the development of both plans: https://www.sdapcd.org/content/dam/sdapcd/documents/capp/Portside-Steering-Committee.pdf. 	<ul style="list-style-type: none"> • Developed a Community Air Monitoring Plan: https://www.sdapcd.org/content/dam/sdapcd/documents/capp/AB-617-Elements-Required-Criteria-San-Diego-June-2019.pdf • Developed a Community Emissions Reduction Plan: https://www.sdapcd.org/content/sdapcd/community/air-protection-program/portside-cerp.html 	Deliverable Achieved
Selection of the San Diego International Border Community (San Ysidro and Otay) to participate in the Community Air Protection Program (AB 617)	CARB, SDCAPCD	CARB, SDCAPCD	Domingo Vigil, (SDCAPCD) Domingo.Vigil@sdapcd.org	<ul style="list-style-type: none"> • Establish a Community Steering Committee to address community-identified, air quality concerns and priorities. • Develop a Community Air Monitoring Plan. • Develop a Community Emissions Reduction Plan 	<ul style="list-style-type: none"> • Develop a Community Air Monitoring Plan. • Develop a Community Emissions Reduction Plan. 	Initial Progress

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<i>Lead poisoning prevention actions</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
Free EPA Training & Certification in Lead-based paint safety for Renovation, Repair and Painting work in residential units.	USEPA, Oceanside Chamber of Commerce, Interfaith Community Services, NATEC	EPM funding @ ~\$5K per session	Angela Baranco (USEPA) baranco.angela@epa.gov	<ul style="list-style-type: none"> Build partnerships with local organizations to identify & register small business contractors, workers, day laborers for RRP training & certification. 	<ul style="list-style-type: none"> Implemented two 8-hour trainings: 11/6/21, 11/30/21 (limited to 20 students per course with 100% passing rate & individual certifications (19 students total). Plan and implement two to four additional training sessions -TBD. 	Significant Progress
<i>Cross Media Efforts for Border 2025 Outreach</i>						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Expected Results in 2022-2023	Status
South County Environmental Justice Task Force	San Diego County	Staff time	Rosa Olascoaga Rosa.Olascoaga@sdcounty.ca.gov	<ul style="list-style-type: none"> Convene diverse group of stakeholders to enhance awareness, understanding, support and implementation of recommendations and innovation. Advocate for solutions. 	<ul style="list-style-type: none"> Schedule quarterly meetings with participants throughout 2022/2023. 	Moderate Progress
California Border Relations Council (BRC)	CalEPA	Staff time	Contact for CalEPA: BorderAffairs@calepa.ca.gov	<ul style="list-style-type: none"> Convene the BRC annually and report accomplishments in annual reports. 	<ul style="list-style-type: none"> Convened the BRC in December 2021 and approved the 2020 BRC report. The 2021 report is being developed. 	Significant Progress
Implement California Environmental Justice Program https://calepa.ca.gov/envjustice/	CalEPA	Staff time	CalEPA EnvJust@CALEPA.ca.gov	<ul style="list-style-type: none"> Implement the CalEPA EJ program activities. 	<ul style="list-style-type: none"> Complete the CalEPA EJ program activities and reports: calepa.ca.gov/envjustice/resources/ 	Moderate Progress

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California/Baja CA, Regional Work Group Planning Sessions	USEPA -Tribal Intergovernmental and Policy Division	Staff time	Emily Pimentel (USEPA) Pimentel.emily@epa.gov ,	<ul style="list-style-type: none"> Organize regional workgroup meetings with Program partners to discuss goals and objectives of border program. Hold discussion to include regional priorities and on-the-ground efforts to advance environmental benefits to border communities. 	<ul style="list-style-type: none"> Convened Regional Workgroup in January 2022. 	Significant Progress
Policy Workgroup Sessions and National Coordinators Meeting	USEPA -Tribal Intergovernmental and Division	Staff time	Melissa Dimas (USEPA) Dimas.melissa@epa.gov Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov Lorena Lopez-Powers (USEPA) Lopezpowers.lorena@epa.gov v Emily Pimentel (USEPA) Pimentel.emily@epa.gov	<ul style="list-style-type: none"> Coordinate with Border-wide Policy Workgroup representatives to discuss Border Program's Goals and Objectives. Facilitate efforts to include public meetings that address regional priorities in the California/Baja CA and Arizona/Sonora regions. 	<ul style="list-style-type: none"> Implementation of four public meetings to discuss regional priorities for each goal and upcoming meetings of National Coordinators Borderwide public sessions were held for air, water, waste, and emergency preparedness for response. 	Significant Progress
Climate Change Training for Tribes	Institute for Tribal Environmental Professionals (ITEP) at Northern Arizona University	Staff Time	Emily Pimentel (USEPA) Pimentel.emily@epa.gov	<ul style="list-style-type: none"> Hold a US-Mexico Border Region Climate Action Workshop. 	<ul style="list-style-type: none"> Two-day climate change workshop held March 22-23, 2022. 	Deliverable Achieved
Expand Participation with Tribal community representatives in Border 2025	Regional Tribal Operations Committee (RTOC), Region 9, Environmental Protection Agency (USEPA)	Staff time	Camilo Perez (Quechan Pesticides Director) pesticidesofficer@quechantribe.com Emily Pimentel (USEPA) Pimentel.emily@epa.gov	<ul style="list-style-type: none"> Convene the RTOC Border workgroup to address Border 2025 and other border region topics of interest to Tribes. Ongoing 	<ul style="list-style-type: none"> Organized and coordinated quarterly RTOC meetings 2021 and 2022. Updates on border and special border region topics to strengthen information sharing and benefit tribal outcomes under the Border Program. 	Moderate Progress

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Border 2025 Bilingual Newsletters	USEPA -Tribal Intergovernmental and Policy Division	Staff time	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Share quarterly newsletters with border region on Border 2025 updates in Region 9. 	<p>January 2022</p> <ul style="list-style-type: none"> https://www.epa.gov/usmexicoborder/us-mexico-border-2025-january-2022-newsletter https://www.epa.gov/usmexicoborder/frontera-2025-mexico-estados-unidos-boletin-de-enero-de-2022 <p>October 2021</p> <ul style="list-style-type: none"> https://www.epa.gov/usmexicoborder/us-mexico-border-2025-october-2021-newsletter https://www.epa.gov/usmexicoborder/frontera-2025-mexico-estados-unidos-boletin-de-octubre-2021 <p>July 2021</p> <ul style="list-style-type: none"> https://www.epa.gov/usmexicoborder/us-mexico-border-2025-july-2021-newsletter-mexico-eeuu-frontera-2025-boletin-de <p>March 2021</p> <ul style="list-style-type: none"> https://www.epa.gov/usmexicoborder/us-mexico-border-2020-march-2021-newsletter-mexico-eeuu-frontera-2020-boletin-de 	Significant Progress
Forum for Non-government Organizations in US-Mexico border communities of Arizona-Sonora and California-Baja California	USEPA -Tribal Intergovernmental and Policy Division and North American Development Bank	Staff Time and NADB interpretation/meeting support	<p>Emily Pimentel (USEPA) Pimentel.emily@epa.gov</p> <p>Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov</p>	<ul style="list-style-type: none"> Plan a forum to improve outreach on border program and leverage NGOs and communicate Border 2025 program priorities. 	<ul style="list-style-type: none"> Hosted binational session in May 2021. Engaged over 40 NGO and academic participants from border communities. Consideration of future forum on emerging environmental issues. 	Deliverable Achieved
Expand knowledge on Border 2025 and specific program Guiding Principles	USEPA -Tribal Intergovernmental and Policy Division	Staff time	<p>Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov</p> <p>Emily Pimentel Pimentel.Emily@epa.gov</p> <p>Lorena Lopez-Powers (USEPA) Lopezpowers.lorena@epa.gov</p>	<ul style="list-style-type: none"> Conduct outreach in coordination with EPA staff and Task Forces' leads for communities to share information on border program through meetings, webinars, or other public outreach sessions in the California-Baja CA border region. On-going effort. 	<p>2021 Public Meetings</p> <ul style="list-style-type: none"> Introduced Border 2025 Program, provided general updates on regional projects and encourage future participation for new group (task forces under the Border 2025 Program). Goals 1, 2, 3, & 4: Month of March: Air, Water, Waste and Emergency Preparedness and Response Policy Workgroups Public Meetings. 	Significant Progress

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					<p>Discussed border program, border-wide priorities from program partners that included states and tribal representatives.</p> <ul style="list-style-type: none">• For events used social media, Constant Contact listserv and posted information our Border 2025 calendar.• Sign-up at this link to receive future program related information.• Facebook and Twitter related information: https://www.facebook.com/epaborder2025	