



Arizona-Sonora 2019-2020 Border 2020 Action Plan



Goal 1 – Reduce Air Pollution						
Description of Action	Collaborating Organizations	Cost and Source	Lead Points of Contact	Target Outputs	Results	Progress
<p>Objective 1: By 2020, in accordance with the NAFTA, promote the reduction of the number of vehicles operating in the border region that do not comply with respective vehicle emissions standards and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible reduction measures.</p>						
<p>There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9.</p>						
<p>Objective 2: By 2020, reduce pollutant emissions in order to approach attainment of respective national ambient air quality standards in the following airsheds: San Diego/Tijuana, Imperial County/Mexicali, Ambos Nogales, Paso del Norte (El Paso/Juarez/Sunland Park).</p>						
Implement the Nogales PROAIRE Program	Municipality of Nogales, SEMARNAT	Staff time	Municipality of Nogales, Secretariat of Environment and Natural Resources (SEMARNAT) Adriana Guerrero adriana.guerrero@nogalessonora.gob.mx	<ul style="list-style-type: none"> Implemented ProAire, a strategy to reduce air pollution on a detailed analysis of local emissions sources, meteorology, air quality, potential pollution controls, and other considerations. 	<ul style="list-style-type: none"> Created a core committee of environmental, planning, and development professionals representing Mexican local, state, and federal government. The program recommended thirteen measures including strengthening regulations for commercial establishments, reducing dust from paved and unpaved roads, strengthening of the ambient air quality monitoring system and developing an environmental education program for the community of Nogales, Sonora. Project completed and will be reassessed for 2021. 	Deliverable Achieved
Yuma PM ₁₀ control measure State Implementation Plan (SIP)	Arizona Department of Environmental Quality (ADEQ)	Staff time and USEPA Performance Partnership Agreements (PPG) grant	Lisa Tomczak Tomczak.lisa@azdeg.gov	<ul style="list-style-type: none"> Reasonable controls to incorporate into rule that will be incorporated into a SIP 	<ul style="list-style-type: none"> Control measure SIP submittal Redesignation Request/Maintenance Plan SIP submittal Ongoing in 2021. 	Significant Progress
Douglas/Paul Spur PM ₁₀ control measure SIP	ADEQ	Staff time and USEPA PPG grant	Samantha Schaffer Schaffer.samantha@azdeg.gov	<ul style="list-style-type: none"> Attainment Analysis Base Emission Inventory Control Analysis Modeling 	<ul style="list-style-type: none"> Attainment Analysis Ongoing in 2021. 	Initial Progress



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Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to air quality data: California/Baja California, Arizona/Sonora, Paso del Norte Airshed, and any additional binational airshed that is designed as non-attainment for U.S. or Mexican air quality Standards prior to 2015.						
Operate an Ozone Monitor in San Luis Rio Colorado, Sonora	ADEQ, Environmental Protection Agency (USEPA), Comisión de Ecología and CEDES	ADEQ Staff time and USEPA 105 grant	Gerardo Monroy Monroy.gerardo@azdeq.gov	<ul style="list-style-type: none"> Operate an Ozone monitor in San Luis Rio Colorado. 	<ul style="list-style-type: none"> Implemented regular equipment maintenance and Quality Assurance (QA)/Quality Control (QC) checks 	Deliverable Achieved
Monitoring in Ambos Nogales	ADEQ, USEPA, Comisión de Ecología and Comisión de Ecología y Desarrollo Sustentable del Estado (CEDES)	ADEQ Staff time and USEPA 105 grant \$160,000	Gerardo Monroy Monroy.gerardo@azdeq.gov	<ul style="list-style-type: none"> Reestablish one monitoring site along at the Instituto Tecnológico de Nogales (ITN) in Sonora, Mexico and monthly QA/QC 	<ul style="list-style-type: none"> The site access agreement signed by CEDES and ITN. Working on finalizing contract for equipment procurement and to install the equipment. 	Initial Progress
Install and operate a NOx Monitor in San Luis Rio Colorado, Sonora	ADEQ, USEPA, Comisión de Ecología and CEDES	Staff time and USEPA 105 grant	Gerardo Monroy Monroy.gerardo@azdeq.gov	<ul style="list-style-type: none"> Install and operate a NOx monitor in San Luis Rio Colorado. 	<ul style="list-style-type: none"> Note: ADEQ is under State Implemented travel restriction. ADEQ has not been able to install the NOx (NOy) monitor in San Luis Rio Colorado. 	Initial Progress
Objective 4: By 2015, support 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 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						



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Objective 5: By 2020, reduce emissions and associated impacts through energy efficiency and/or alternative/renewable energy projects.						
Small-Scale Solar Implementation Project in Ambos Nogales	University of Arizona	USEPA/ North American Development Bank (NADB) Border 2020 Subgrant \$44,060 Leverage: \$41,473	Idalia Perez (USEPA) Perez.idalia@epa.gov Diane Austin (University of Arizona) daustin@email.arizona.edu Jorge Hernandez jhernandez@nadb.org	<ul style="list-style-type: none"> Establish locally-and regionally specific partnerships, materials, and implementation protocols for advancing solar energy in Ambos Nogales and along the Arizona-Sonora border. Provide information and models for other communities during the project period and beyond. Implement pilot project. 	<ul style="list-style-type: none"> Developed an educational website that incorporated information about solar PV and real-time and summary information gathered through sensors and monitors located at the site of the PV system installation: https://nogalesecocasa.arizona.edu/solar-photovoltaics-energia-solar-fotovoltaica Presented on project at the Arizona/Sonora Regional Workgroup task force meeting in Tubac, AZ and Nogales, SON. Final Report received in December 2019. 	Deliverable Achieved



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Goal 2 – Improve Access to Clean and Safe Water						
Description of Action	Collaborating Organizations	Cost and Funding	Lead Points of Contact	Target Outputs	Results	Progress
Objective 1: Promote the increase in the number of homes connected to safe drinking water and adequate wastewater treatment.						
Sub-objective 1a: By end of 2018, promote access to safe drinking water to at least 1,600 households borderwide. Revise targets every two years.						
Provide Pomerene, AZ with a technically and financially feasible drinking water system to reduce arsenic and fluoride concentrations in their drinking water below the established Maximum Contaminant Level (MCL)	Pomerene Water District, NADB, USEPA, US. Department of Agriculture (USDA)	USEPA: Total Project Construction \$2.1 M	Alejandra Núñez (NADB) anunez@nadb.org	<ul style="list-style-type: none"> Provide Pomerene (Cochise County) with a technically and financially feasible system to bring arsenic and fluoride concentrations in drinking water within the established Maximum Contaminant Levels. Construct well transmission mains to deliver all ground water to the storage tanks. Allow for maximum flexibility in blending and upgrade existing arsenic treatment. 	<ul style="list-style-type: none"> Project cancelled due to financial concerns. 	No Progress Canceled
Sub-objective 1b: By end of 2018, promote access to adequate wastewater sanitation to 12,000 households border-wide. Revise targets every two years.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
Objective 2: Help drinking water and wastewater utilities in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.						
Sub-objective 2a: Incorporate sustainable infrastructure elements, as feasible and appropriate, into U.S.-Mexico Border Water Infrastructure Program-supported in NADB-certified projects.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
Sub-objective 2b: Improve energy efficiency and efficient water use at border drinking water and wastewater utilities.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						



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Goal 2 – Improve Access to Clean and Safe Water						
Description of Action	Collaborating Organizations	Cost and Funding	Lead Points of Contact	Target Outputs	Results	Progress
Objective 2: Help drinking water and wastewater utilities in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.						
Sub-objective 2a: Incorporate sustainable infrastructure elements, as feasible and appropriate, into U.S.-Mexico Border Water Infrastructure Program-supported in NADB-certified projects.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
Sub-objective 2b: Improve energy efficiency and efficient water use at border drinking water and wastewater utilities.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
Sub-objective 2c: Build operational, managerial, and financial capacity at border drinking water and wastewater utilities through training.						
Collaborate with the National Association of Clean Water Agencies (NACWA)	NACWA, OOMAPAS, ADEQ, USEPA	N/A	Roger Kohn (USEPA) kohn.roger@epa.gov	<ul style="list-style-type: none"> Work in partnership with NACWA to find meaningful and effective means to build up utility capacity for disadvantaged border utilities. As of Oct 2019, stakeholders met in AZ for initial brainstorming session to aid OOMAPAS 	<ul style="list-style-type: none"> NACWA's planned training for OOMAPAS Nogales personnel scheduled for April 2020 postponed due to the pandemic and the closing of the border to Mexican citizens. 	Moderate Progress
Objective 3: Work binationally to identify and reduce surface water contamination in specific high priority water bodies or watersheds.						
Sub-objective 3a: Develop a binational watershed protection plan in the Lower Rio Grande below Falcon International Dam.						
Please refer to Action Plan provided by USEPA Region 6.						



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Goal 2 – Improve Access to Clean and Safe Water						
Description of Action	Collaborating Organizations	Cost and Funding	Lead Points of Contact	Target Outputs	Results	Progress
Sub-objective 3b: Every two years, identify and implement at least one project to reduce the level of heavy metals, sediment, and/or bacteria entering the Santa Cruz River and/or the Nogales Creek.						
Create green infrastructure structures (biofilters) for trapping waste and solids in Nogales, Sonora	IMIP, USEPA, NADB	USEPA/NADB Border 2020 subgrant \$36,659	Jorge Hernandez (NADB) jhernandez@nadb.org Roger Kohn (USEPA) Kohn.Roger@EPA.gov	<ul style="list-style-type: none"> IMIP (Instituto Municipal de Investigación y Planeación de Nogales) will create bio-filters to trap waste and solids in Nogales, Sonora (at waterway “Canada El Muerto”). Systems will prevent the entrance of wastes such as plastics, glass, wood, paper, cardboard, oil, as well as sediment into the U.S. The biofilters can also retain nearly 300 liters of rainfall for every 1 mm of rainfall, which will help to recharge the aquifer and to prevent flooding. 	<ul style="list-style-type: none"> Built passive Green Infrastructure (GI) in Camellón Central with Capacity to capture up to 10,300 Liters of water per Rain over 10mm of precipitation in one day. Implemented training and awareness courses to 244 workshop(s) attendees. 120m of demonstrative Biofilters installed in the Cañada de El Muerto stream. Built a demonstrative Water Planter with the capacity to process up to 8,000 liters of rainwater per 32mm of rainfall per day. Created a demonstration site of the Green Infrastructure scheme “Rain Garden” in a Central Nogales ridge. 	Deliverable Achieved
Produce a binational and sustainable strategy to address stormwater control, urban flooding and water quality concerns in Ambos Nogales	ASU, USEPA/ NADB	USEPA/NADB Border 2020 Subgrant: \$100,000 Leverage: \$28,880	Jorge Hernandez (NADB) jhernandez@nadb.org Francisco Lara-Valencia (ASU) Francisco.Lara@asu.edu Roger Kohn (USEPA) Kohn.Roger@EPA.gov	<ul style="list-style-type: none"> Data integration and modeling using ArcGIS/Collaboration with SCC Public Works and IMIP LSA (large soil absorption) and application of GIS multi-criteria spatial modeling Stormwater yield, infiltration, and runoff at green infrastructure (GI) sites to estimate flows pre/post interventions; hydrographs at watershed and site levels. Application of landscape design and visualization software Systematic review of existing regulatory tools and practices; 	<ul style="list-style-type: none"> Preliminary model developed to simulate runoff, erosion, and sediment yields within the area covered by the LiDAR imagery. GI design and planning activities conducted in the fall of 2020. GI workshop held in the region Several meetings held with ADEQ and the Santa Cruz County Flood Control District to receive input regarding project goals and activities, as well as to explore collaboration opportunities. Some challenges with Environmental Education efforts due to COVID-19 	Moderate Progress



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				dialogue and focus groups with stakeholders to gain insight of regulatory opportunities and incentives for GI adoption. <ul style="list-style-type: none"> Conduct two workshops and school-based programing (two demonstration projects) in collaboration with the staff in local middle schools in Nogales, Sonora and Nogales, Arizona. 		
<i>Sub-objective 3c: Every two years identify and implement at least one project to reduce the levels of bacteria, biochemical oxygen demand (BOD), trash, and/or phosphates entering the New River.</i>						
Please refer to California/Baja California Action Plan: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9						
<i>Sub-objective 3d: Every two years identify and implement at least one project to reduce the level of bacteria, sediment, and/or trash that enters the Tijuana River.</i>						
Please refer to California/Baja Action Plan: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9						
<i>Objective 3-other: Initiatives to reduce water contamination in other watersheds and/or water bodies</i>						
Improve the existing wastewater treatment plant (WWTP) in Willcox, AZ to adequately treat its discharges to Cochise Lake	City of Willcox, USDA, NADB and USEPA	USEPA, USDA, City of Willcox \$16.5M Total Construction including \$4.7M Border Environment Infrastructure Fund (BEIF)	Gerardo Calza (NADB) gcalza@nadb.org	<ul style="list-style-type: none"> Wastewater treatment plant rehabilitation from a lagoon system to an oxidation ditch facility. 	<ul style="list-style-type: none"> Project completion: December 16, 2019. Completion of construction contract - City of Willcox: January 16, 2020. Plant initiated operations. 	Deliverable Achieved



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Goal 2 – Improve Access to Clean and Safe Water						
Description of Action	Collaborating Organizations	Cost and Funding	Lead Points of Contact	Target Outputs	Results	Progress
<i>Objective 4: Provide the public with timely access to water quality data in binational water bodies and watersheds in a readily understandable, web-based format.</i>						
<i>Sub-objective 4a: Develop a binational website that displays timely information on beach advisories on both sides of the border in the Brownsville/Matamoros area, and ensure its operation through 2020.</i>						
Please refer to Action Plan provided by USEPA Region 6: https://www.epa.gov/border2020/region-6-publications						
<i>Sub-objective 4b: Develop a binational website that displays timely information on beach advisories on both sides of the border in the San Diego/Tijuana area, and ensure operation of website through 2020.</i>						
Please refer to California/Baja California Action Plan; https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
<i>Sub-objective 4c: Develop a binational website that displays timely information on water quality in high-priority watersheds including the Lower Rio Grande, the New River, and the Tijuana River and ensure operation of website through 2020.</i>						
Please refer to California/Baja California Action Plan: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						



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Goal 3- Promote Materials Management, Waste Management and Clean Sites						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
Objective 1: By 2020, increase local and state-level institutional knowledge and experience in the area of sustainable material management practices.						
Develop Santa Cruz County compost center to compost 8,000 tons of wasted produce and develop capacity to explore expanding operation	University of Arizona and Santa Cruz County	USEPA/NADB grant: \$91,519	Ilse Rojas, PhD, UA-Tucson	<ul style="list-style-type: none"> • Create new compost center with student learning component in Rio Rico. • Compost 8,000 tons of food waste. • Work with local food banks to divert good food, instead of discarding it. 	<ul style="list-style-type: none"> • Grantee terminated project in March 2020 due to unprecedented financial constraints. 	No Progress Cancelled
Implement practices to safely dismantle scrap (end of life) vehicles, educational workshops, compliance assistance, and enforcement in Nogales, Sonora (SN)	Municipality of Nogales, SN	USEPA/NADB Border 2020 Subgrant \$21,197 \$11,353	<p>Jorge Hernandez (NADB) jhernandez@nadb.org</p> <p>Adriana Guerrero, Sec. de Desarrollo Urbano y Ecología, Municipality of Nogales, SN adriana.guerrero@nogalesonora.gob.mx</p> <p>Emily Pimentel (USEPA) Pimentel.Emily@epa.gov</p>	<ul style="list-style-type: none"> • Identify and survey scrap vehicle business in Nogales, Sonora • Implement workshop on best practices for scrap vehicle business adapted from USEPA end-of-life vehicle guidance. • Provide compliance assistance to scrap vehicles business. • Strengthen enforcement to prevent dumping associated with scrap vehicles. 	<ul style="list-style-type: none"> • Completed document and site inventory of scrap vehicles sites in Nogales. • Conducted workshop with over 100 scrap yard owner/operators on best practices for vehicle dismantling. • In 2020, due to COVID 19, virtual presentation on project efforts have been presented at several Task Force and Regional Workgroup Meetings. 	Moderate Progress
Adapt ADEQ's e-waste collection guidance for cities to implement e-waste collection events, then implement e-waste collection events in three border cities in Sonora.	Centro de Asesoría Financiera y Emprendimiento Social de la Universidad de Sonora CAFES/USON (non-profit associated with	USEPA/NADB Border 2020 Subgrant: \$34,170 Leverage: \$15,155	<p>Jorge Hernandez (NADB) jhernandez@nadb.org</p> <p>Karina Lopez Ivich, IAMM (associate of CAFÉS/USON)</p>	<ul style="list-style-type: none"> • Adapt ADEQ e-waste collection guidance to safely implement e-waste collection events in Border cities. • Implement three e-waste collection events in border cities in Sonora (Agua Prieta, Nogales, and San 	<ul style="list-style-type: none"> • Completed outreach to three municipalities to outline requirements for planning collection events. • Set up materials to hold virtual workshops in winter of 2020, instead of in-person workshops as originally planned. 	Moderate Progress



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Goal 3- Promote Materials Management, Waste Management and Clean Sites						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
	the University of Sonora) and CEDES		Karina Lopez Ivich karina.ivich@gmail.com Emily Pimentel (USEPA) Pimentel.Emily@epa.gov	Luis Rio Colorado).	<ul style="list-style-type: none"> In 2020, due to COVID-19, virtual presentation on project efforts have been presented at several Task Force and Regional Workgroup Meetings in 2020 	
Objective 2: By 2014, identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.						
There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9 .						
Objective 3: By 2020, improve knowledge at every level of government (federal, state, local) to characterize and remediate contaminated sites.						
Develop web-based application hosted by Municipality of Nogales, Sonora for citizens to report trash. Use information to identify and prioritize trash sites in Nogales, Sonora and conduct 33 trash cleanups	Municipality of Nogales, Sonora in collaboration with CEDES	USEPA/NADB Border 2020 Subgrant: \$37,500 Leverage: \$21,645.00	Jorge Hernandez (NADB) jhernandez@nadb.org Adriana Guerrero adriana.guerrero@nogalessonora.gob.mx Sec. de Desarrollo Urbano y Ecología, Municipality of Nogales, Sonora Emily Pimentel (USEPA) Pimentel.Emily@epa.gov	<ul style="list-style-type: none"> Develop trash app to identify trash sites. Trash site cleanups. Community outreach and free collection of e-waste, tires, and furniture. Strengthen enforcement to prevent illegal dumping. 	<ul style="list-style-type: none"> Completed clandestine dump inventory by engaging public reporting using WhatsApp notification and used information to complete trash cleanups. Municipality used notifications to verify and map dumping locations to inform enforcement actions to prevent future dumping. Due to the pandemic, presentation on project efforts has been presented at several Task Force and Regional Workgroup Meetings. 	Significant Progress



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Goal 3- Promote Materials Management, Waste Management and Clean Sites						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
Objective 4: On an annual basis, implement the Binational Consultative Mechanism on sharing information on border area hazardous waste facilities.						
Implement the Consultative Mechanism to report hazardous waste treatment, storage, and disposal (TSD) facilities and spent lead-acid batteries and electronic recycling facilities	USEPA, SEMARNAT, and ADEQ	USEPA grant: In-kind	Emily Pimentel (USEPA) Pimentel.Emily@epa.gov Melissa Hayes (ADEQ) Hayes.melissa@azdeq.gov	<ul style="list-style-type: none"> Complete exchange of US Consultative Mechanism (CM) reports. 	<ul style="list-style-type: none"> Completed the exchange of information per the Consultative Mechanism. 	Deliverable Achieved



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Goal 4- Enhance Joint Preparedness for Environmental Response						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
Objective 1: Update as necessary, the current Mexico-US Joint Contingency Plan and on an annual basis, continue to evaluate and update the emergency notification mechanism between Mexico and the United States.						
Update Joint Contingency Plan (JCP)	USEPA, Proteccion Civil	Not applicable	Eugene Lee (USEPA) lee.eugene@epa.gov	<ul style="list-style-type: none"> Emergency notification mechanism between Mexico and the United States. 	<ul style="list-style-type: none"> Updated JCP 	Deliverable Achieved
Objective 2: By 2020, at least 4 of the sister city joint contingency plans will be supplemented with preparedness and prevention related activities such as certified training, risk analysis, and/or capacity building.						
Update at least one of the two sister city emergency plans	USEPA, Proteccion Civil, State of Sonora, State of Arizona, Local Emergency Managers	USEPA Contract Funds	Bill Jones (USEPA) jones.bill@epa.gov	<ul style="list-style-type: none"> Sister City Plans establish the policies, responsibilities, and procedures required to protect the health and safety of the populace, environment, public and private property from the effects of any incident. 	<ul style="list-style-type: none"> Updated all hazards Sister City plans. 	Significant Progress
Objective 3: By 2020, the US-Mexico JRT will make available technical outreach and training materials for distribution and dissemination along the border.						
Training and capacity-building in Sonora, Mexico	USEPA, Proteccion Civil, State of Sonora, State of Arizona, Local Emergency Managers	USEPA Contract Funds	Bill Jones (USEPA) jones.bill@epa.gov	<ul style="list-style-type: none"> Implement two sets of the training courses on First Responder Awareness, First Responder Operations, Incident Command System and Hazmat Tech Refresher One 200 HazMat Tech Training. 	<ul style="list-style-type: none"> Increased ability to efficiently and effectively respond to incidents. 	Deliverable Achieved



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Goal 5- Enhance Compliance Assurance and Environmental Stewardship						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
<p>Objective 1: By 2020, strengthen effective information sharing between US and Mexican agencies regarding the movement of hazardous waste across the border and its ultimate treatment or disposal. In addition, ensure that land ports of entry have sufficient inspection capacity to police hazardous shipments.</p>						
<p>There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9.</p>						
<p>Objective 2: By 2020, in Mexico, increase by 25 percent the number of businesses in the border region enrolled in the National program for Environmental Auditing (PNA) and/or similar programs at the state level for facilities not regulated by the federal government, using 2012 as a baseline.</p>						
<p>There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9.</p>						
<p>Objective 3: Using the U.S. Toxic Release Inventory (TRI) and the Mexican Registry of Emissions and Transfers of Pollutants (RETC), along with other sources of environmental information, share information regarding activities contributing pollution to trans-boundary air and/or water basins along the border.</p>						
<p>There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9.</p>						
<p>Objective 4: By 2020, implement at least five (5) binational workshops targeted to environmental enforcement professionals, including port-of-entry customs professionals, to promote the exchange of information and improve understanding of each country’s respective compliance and enforcement programs and tools, including field inspection and case development practices.</p>						
<p>There are currently no active projects under this objective for the 2019-2020 cycle. Past action plans are available at: https://www.epa.gov/usmexicoborder/region-9-action-plansplanes-de-accion-de-region-9.</p>						



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Fundamental Strategy – Environmental Health						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
<i>Air quality and asthma actions</i>						
Camp Not-A-Choo “Asthma Camp” in Yuma County, AZ	Regional Center for Border Health Inc. (RCBH), USEPA	USEPA: \$5,000; Staff time for parent presentation on asthma	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Lead the Yuma County Asthma Camp Not-a-Choo in June 2019 to educate children 7-12 with moderate to severe asthma, self-management techniques that will help them control their asthma in a fun and exciting camp setting from health educators and other health care professionals. Education on Environmental Triggers of Asthma for parents of asthmatics attending the camp. 	<ul style="list-style-type: none"> Trained 12 camp participants and 14 teenagers from the RCBH’s Nuestros Niños Immunization Campaign and Community Outreach Census, on asthma self-management practices. Staff trained with American Lung Association Open Airways for Schools Curriculum. Conducted 58 Pre-Questionnaires with parents that attended the Asthma camp. USEPA staff previewed and accompanied the Family Care Coordinators on their presentations made on the Healthy Homes and Environmental Triggers Program. 	Deliverable Achieved
Enhanced Home Visits including Healthy Homes (HH) and Environmental Asthma Trigger Assessments in Santa Cruz County, AZ	USEPA, Sonora Environmental Research Institute, Inc. (SERI)	USEPA: \$16,500; USEPA Asthma Home Checklists	Jessica Helgesen (USEPA), Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Train promotoras (community health workers) on HH and asthma triggers to educate community at home visits. Complete 100 HH visits with at least 50 of the visits having an expanded asthma component. Conduct pre/post-tests via follow-up visits and/or phone calls to determine which HH concepts have been implemented. 	<ul style="list-style-type: none"> Trained staff on enhanced HH visits. Conducted outreach for home visits at four events with 330 attendees Completed 101 home visits with 74 HH assessments and 51 asthma assessment home visits using USEPA’s Characteristics and Asthma Triggers Checklist for Home Visitors Program, which included bed bug, dust mite and allergy control pillow protectors Had 85 follow-up calls on implementation of assessment findings in the home. In some homes SERI was able to install smoke alarms and soon CO monitors after COVID-19 restrictions evolve. 	Deliverable Achieved



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Fundamental Strategy – Environmental Health						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
<i>Integrated pest management and pesticide exposure actions</i>						
Implement Four Corners Biomonitoring Consortium (4CSBC) CDC Grant	Arizona Department of Health Services (ADHS), 4CSBC, CDC	CDC: Funding Applies Statewide	Niki Lajevardi-Khosh, Health Educator niki.lajevardi-khosh@azdhs.gov	<ul style="list-style-type: none"> Complete testing of all water and biomonitoring samples. Mail all results back to participants. 	<ul style="list-style-type: none"> Follow-up assistance was provided to all participants impacted by high levels of water contamination (found in biomonitoring samples). Health education materials provided to all participants and testing results returned to all participants. Completed August 2019. 	Deliverable Achieved
Pest Related Pollution Prevention and Emergency Preparedness through Integrated Pest Management Education and Tribal Partnerships in Arizona	University of Arizona; Inter Tribal Council of Arizona, Inc. (ITCA); Tohono O'odham Nation; Cocopah Tribe; Pascua Yaqui Tribe; Arizona Department of Health Services; HUD - StopPests in Housing; Regional Center for Border Health, Inc; Indian Health Services; Tribal Health Dept.; Federal Recognized Tribes Extension Program; Bureau of Indian Affairs	USEPA/NADB Border 2020 Subgrant: \$99,974 Leverage: \$46,001	Jorge Hernandez (NADB) jhernandez@nadb.org Shujuan (Lucy) Li (USEPA) LiSj@cals.arizona.edu Jessica Helgesen Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Form 3 advisory committees. Implement three environmental health workshops based on Tribe's priorities. Deliver three trainings (one per Tribe) to enhance pest related emergency preparedness including disease vectors like brown dog ticks and mosquitoes. ITCA's will assist tribes with planning, preparing, & responding to emergencies involving public health, hazardous materials, & other hazards. Three publications + other EH resources as the Natural Enemies Field Guide will be translated into Spanish. 	<ul style="list-style-type: none"> Developed two community integrated pest management newsletters April 2020 on how to disinfect COVID-19 and how to safely use a facemask during the COVID-19 pandemic Currently holding virtual meetings to develop three advisory committees. In process of translating the Natural Enemies Field Guide into Spanish Presented progress at the Region 9 USEPA Tribal Conference in October with USEPA. 	Moderate Progress
Environmental Health Capacity Grant Component B	ADHS, CDC Department of Health Services	"CDC: Funding Applies Statewide, \$90k"	Niki Lajevardi-Khosh, Health Educator niki.lajevardi-khosh@azdhs.gov	<ul style="list-style-type: none"> Test private well water samples from all AZ Counties by end of 2025 	<ul style="list-style-type: none"> Awarded new 5-year CDC grant to perform free well water testing for heavy metals for Arizona private well 	Initial Progress



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Fundamental Strategy – Environmental Health						
Description of Action	Collaborating Organizations	Cost and Funds	Lead Points of Contact	Target Outputs	Results	Progress
	Laboratory, University of Arizona Cooperative Extension Offices		khosh@azdhs.gov		owners to inform AZ residents of dangers to health, approximately 400 tests available yearly <ul style="list-style-type: none"> Began well water collection in October 2020 from Yavapai- results are pending; Cochise county collection scheduled for Jan 2021 	
Environmental Health Capacity Grant Component A	ADHS, CDC, Arizona Department of Occupational Safety, Poison Control Centers, Arizona Department of Agriculture	CDC: Funding Applies Statewide, \$40k	Niki Lajevardi-Khosh, Health Educator niki.lajevardi-khosh@azdhs.gov	<ul style="list-style-type: none"> Establish state-based pesticide surveillance program; improve and enhance pesticide illness prevention strategies Awarded new 5-year CDC grant to improved pesticide and adult blood lead poisoning surveillance 	<ul style="list-style-type: none"> Reviewing pesticide surveillance protocols, working with Poison Control to ensure data entry, exploring agricultural exposures along border 	Initial Progress
Lead poisoning prevention actions						
Implement lead poisoning prevention program targeting physicians to increase screening rates of children in Arizona	ADHS, CDC, AHCCCS, Health care Providers	CDC for lead poisoning prevention: Grant funding for statewide efforts for lead poisoning prevention; in-kind from state laboratory and other ADHS program support	Amber Asbury, Childhood Lead Poisoning Prevention Program Manager, ADHS Amber.Asbury@azdhs.gov	<ul style="list-style-type: none"> Increase lead screenings of at-risk children at 12 and 24 months of age. Increase identification of lead poisoning source for families of children with elevated blood lead levels. Finalize 2019 Annual Surveillance Report. Create Spanish version of the Lead risk map. Ongoing action. 	<ul style="list-style-type: none"> Interactive Lead Risk Map now in Spanish for Providers and families to determine if children live in high-risk areas across the state. Due to COVID-19, staff was redirected to the response, therefore 2019 surveillance report is delayed. AZ was a recipient of the WIN Grant and will start testing the water in public charter schools in 2021. In 2019 Home investigations/ environmental sampling for 7 cases in border counties: Cochise – 1, Pima – 5, Yuma – 1. Confirmed Sources, Lead Based Paint – 1. 	Moderate Progress



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Fundamental Strategy – Environmental Health						
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Multi-topic environmental health actions (IPM, IAQ, vector-borne, asthma-related, lead poisoning, children's health, Healthy Homes etc.)						
Ask the Experts: Wildfire Smoke, Mental Health and Green Cleaning-Sanitizing-Disinfecting Virtual Webinar (bilingual), along with three public service announcements all in English/Spanish	USEPA, NADB, Western States Pediatric Environmental Health Specialty Unit (WSPEHSU)	Staff Time	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov Sarah Sullivant (USEPA) Sullivant.Sarah@epa.gov Katie Stewart Stewart.Kathleen@epa.gov	<ul style="list-style-type: none"> • Provide a bilingual opportunity for members of the public to ask questions about wildfires (mental health, air quality data, WSPEHSU infographic, how to improve your indoor air quality) and green cleaning and disinfecting during Children's Environmental Health Month and Binational Health Month/Week. • Distribute recordings and power points on Border 2020 website in both Spanish and English • Create and share three PSA videos in Spanish and English related to environmental health 	<ul style="list-style-type: none"> • 164 participants, with 450 signed up • Recordings of the webinar as well as the power points are both available in English and Spanish at the below website. ~75 views to date on the site. https://www.epa.gov/usmexicoborder/webinar-ask-experts-wildfire-smoke-mental-health-and-green-cleaning-sanitizing • Provided a series of bilingual PSAs with ~650 views to date associated with the event • Wildfire Smoke and Children's Health English - Spanish • Knowing where to go to get air quality data (AirNow) English - Spanish • Understanding the AQI English - Spanish 	Deliverable Achieved
Implementation of Healthy Places for Healthy People Program in Nogales, AZ	USEPA, Mariposa Community Health Center (MCHC), Appalachian Regional Commission, HUD, HHS	USEPA grant	Jose Garcia (USEPA) Garcia.Jose@epa.gov Richie Donahou (USEPA) Donahou.Richie@epa.gov	<ul style="list-style-type: none"> • Grantee to identify a location for a new health center by the committee led by the Mariposa Community Health Center • Apply for larger brownfield grant. 	<ul style="list-style-type: none"> • Working on grant proposals for bigger projects. • City applied for brownfields funding but was unsuccessful. 	No Progress



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Fundamental Strategy – Environmental Health						
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Implementation of environmental assessments in Cochise county, AZ	USEPA, Cochise County, Development Services Department	USEPA Grant: \$600,000	Jose Garcia (USEPA) Garcia.Jose@epa.gov Richie Donahou (USEPA) Donahou.Richie@epa.gov Daniel Coxworth dcoxworth@cochise.az.gov	<ul style="list-style-type: none"> Conduct environmental assessments – Phase 1 and 2 for Brownfield sites throughout Cochise county. Determine and implement restoration and development for properties reused and clean-up the environment. 	<ul style="list-style-type: none"> Site inventory has been established and grantee is assessing high priority properties. 	Moderate Progress
Tribal Response Program Grant	USEPA, Tohono O'odham	USEPA 128a grant	Jose Garcia (EPA) Garcia.Jose@epa.gov	<ul style="list-style-type: none"> Maintain emergency response and Brownfields training for capacity building. 	<ul style="list-style-type: none"> Progress on worked has been slowed by COVID-19 challenges. The Nation is receiving technical assistance to assess an environmentally compromised property that the Nation is considering acquiring. 	Moderate Progress
Implement SunWise School Program in Arizona Public Schools for grades K-8 to teach sun safety using USEPA SunWise curriculum	ADHS, CDC	CDC block grant, Prevention and Public Health Fund: Funding Applies Statewide	Ginny De La Cruz, SunWise Program Coordinator, ADHS Ginny.DeLaCruz@azdhs.gov	<ul style="list-style-type: none"> USEPA SunWise curriculum materials are promoted and distributed in schools. School Presentations offered to schools. The program also distributes and promotes sun safety information through its annual sun safety poster contest, which reaches students in Arizona (AZ) AZ Border Counties: Boosting educational assistance via materials and assembly requests. 	<ul style="list-style-type: none"> AZ Border Counties participated in the Be Active Yuma County 2019, a community event on Sun Safety. 2019 poster contest, first place winner (out of 1,216) from Green Valley, AZ. Workshop at the Yuma First Things First Early Childhood Education conference in April of 2019 for educators to implement sun safety practices In 2020 due to COVID-19, virtual presentations versus in-person. Virtual sun safety webinar on May 7th, 2020 through the Healthy Arizona Worksites Program which was promoted throughout the state and targeted outdoor workers. Instead of in-person outreach the program instead focused on developing an online video on skin cancer 	Moderate Progress



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Fundamental Strategy – Environmental Health						
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					prevention and developing a teacher's guidebook to distribute to schools.	
Implement an Extreme Weather and Public Health Program to develop a climate and health adaptation plan in response to extreme weather and climate-sensitive public health hazards	ADHS, CDC, University of Arizona, Arizona State University, Local Health Departments	CDC Climate Ready States and Cities Initiative Cooperative Agreement: Funding Applies Statewide: \$213k Annually (2016-2021)	Matthew Roach, Epidemiology Program Manager, ADHS Matthew.Roach@azdhs.gov	<ul style="list-style-type: none"> Maintain and enhance website with resources for partners which includes safety information on extreme weather and reports such as the Arizona Climate and Health Adaptation Plan, Vulnerability Assessment Report. Engage stakeholders on extreme weather and inform them of resources to help reduce adverse health outcomes, such as heat-related illness. Fund 4 County Health Department projects aimed to reduce extreme weather impacts; including Yuma, Maricopa, Pima, and Pinal Counties. Actions include Pima's health centers and heat safety signage effectiveness program, and Yuma county's evaluation of cooling center needs related to heat education. 	<ul style="list-style-type: none"> Maintained Extreme Weather Website with climate and health reports to inform public on health related actions. Other maintained on topics as heat, cold, wildlife safety, monsoon weather and dust storms. New surveillance report which covers border counties released for 2019 data. Three Counties Issued Funding in 2020 (Maricopa, Pinal, and Yuma) and Two Counties Issued Funding for 2021 (Maricopa and Yuma). Pima and Pinal had to withdraw due to COVID-19 priorities. Facilitated 2019 State Heat Planning Workshop with 108 participants Season Recap Webinar in Place of State Heat Preparedness Workshop (125 participants) Virtual meeting due to COVID-19 Aided in developing and publishing cooling center maps with Yuma County Public Health for 2020 	Moderate Progress



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Fundamental Strategy – Environmental Health						
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Implement Private Well Owner Drinking Water and Health Education Program	ADHS, CDC, University of Arizona Cooperative Extension	CDC Safe Water for Community Health Cooperative Agreement: Funding Applies Statewide \$130k Annually (2015-2021)	Niki Lajevardi-Khosh Health Educator ADHS, niki.lajevardi-khosh@azdhs.gov	<ul style="list-style-type: none"> Implement project through several workshops in border counties of Southern Arizona, specifically in Cochise and Yuma Counties. Yuma Well Water workshop scheduled for 2020. 6 Workshops throughout AZ planned to be held between October 2019-September 2020 	<ul style="list-style-type: none"> Six workshops held in Cochise county including a Well Water workshop held on Sep 2019. Moved in-person workshops to virtual workshops in 2020 due to COVID-19 Completed a statewide AZ realtor workshop webinar and domestic Well Water owner workshops. Evaluation of Well Water education program among workshop attendees Grant funding extended through no-cost extension through 2021 due to COVID-19. Extended time period will be used to provide free well water tests to 400 residents before September 2021. Future testing will be carried on by the CDC Environmental Health Capacity grant. 	Significant Progress
Healthy Homes (HH) in combination with Healthy Children Program in Nogales, Arizona	Sonora Environmental Research Institute, Inc., USEPA	USEPA: \$39,500 with additional \$8,320 in-kind match	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov	<ul style="list-style-type: none"> Train promotores on HH concepts and inspections. Hold three HH community workshops and one healthy childcare workshop. Conduct HH inspections in 200 homes and advise residents on how to address health and safety hazards. Conduct 10 healthy childcare inspections. 	<ul style="list-style-type: none"> Trained five SERI staff and one volunteer on HH concepts. Held four community common home risks workshops with 33 community members and one childcare provider. Inspected eight childcare and Head Start Programs. <p>200+ HH assessments in home visits:</p> <ul style="list-style-type: none"> Over 75% of families visited earn \leq80% of the area median income, and 86% lived in pre-1978 homes, increases their risk to lead poisoning. <p>HH assessments showed:</p> <ul style="list-style-type: none"> Need for IPM education for families: 49% use pesticides, 58% monthly. 72% and 96% of the homes visited had no working smoke or CO alarms. 	Deliverable Achieved



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					<ul style="list-style-type: none"> Follow-up calls showed program was well received by the community, but only 26% of the families had made any changes, with most stating that they lacked resources to make significant changes in their homes. 	
Expand knowledge on Border 2020 and increase Environmental Health Awareness along US/MX Border in the Arizona- Sonora Border region	USEPA (Border, Children's Environmental Health, ATRIA)	Staff time	Jessica Helgesen (USEPA) Helgesen.jessica@epa.gov Lorena Lopez-Powers Lopez-powers.lorena@epa.gov	<ul style="list-style-type: none"> Conduct outreach to border communities on environmental health through Border 2020 Program. Ongoing 	<ul style="list-style-type: none"> Discussed Border Program in quarterly virtual meetings with Regional Workgroup reps., which included the Task Force Leadership meeting held August of 2020. USEPA Border Program hosted four Tribal sessions in February and July to provide summary on Border 2020 Program and discuss new binational plan. Implemented several binational webinars for ~300 border residents and tribal community representatives on the draft Border 2025 Plan. 	Deliverable Achieved
Smart Growth technical assistance to help Douglas leverage federal Land Port of Entry (LPOE) modernization for community and economic revitalization.	USEPA, General Services Administration (GSA)	Funded by USEPA \$123K	Scott Stollman (USEPA) Stollman.Scott@epa.gov	<ul style="list-style-type: none"> 2-3 day on-site technical assistance workshop. Identify smart growth strategies to leverage planned federal LPOE investment to create a more vibrant town center and maximize community benefits. Recommendations on land use, transportation policies, place-making features. Conduct economic impact analysis to demonstrate impacts of different 	<ul style="list-style-type: none"> Held pre-workshop planning sessions to assess the situation in Douglas and tailor USEPA technical assistance to the community's goals and priorities. Held virtual Community Revitalization TA workshop for Douglas in September 2020 with the participation of over 30 stakeholders at the federal, state, and especially local level. Douglas Infill and Downtown Revitalization Strategy (draft) is currently being vetted and refined. Strategy expected to be made final by 	Deliverable Achieved



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Fundamental Strategy – Environmental Health						
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				development and growth scenarios. <ul style="list-style-type: none"> Conduct market study, fiscal hot spot analysis, and zoning evaluation. 	end of calendar year and will be available upon request.	
Implement an Environmental Public Health Tracking Program to provide accessible environmental and health data for aiding public health actions	ADHS, CDC, AZ County Health and other State Departments, Local universities (Arizona State University, University of Arizona, and Northern Arizona University), ADEQ	CDC Environmental Public Health Tracking Cooperative Agreement: Funding Applies Statewide \$607k Annually (2017-2022)	Matthew Roach, Epidemiology Program Manager, ADHS Matthew.Roach@azdhs.gov	<ul style="list-style-type: none"> ADHS to launch a new program website: Arizona Environmental Public Health Tracking (EPHT) website where viewers can learn about environmental hazards in the state that could impact health using the sites interactive tool. For example, Arizonans can review air quality information and compare the information with respiratory issues such as asthma. The program's website features additional Arizona specific data not available on CDC's Tracking Portal. Data can also be downloaded, shared, and printed. ADHS will be working with CDC and partners within the state to expand the data available and add new features to the website. 	<ul style="list-style-type: none"> Maintained and expanded an interactive tool with environmental health data (maps, charts, and graphs) Published water quality information on public water systems, number of people served, and boundaries of those systems for 2018 /2019 in early 2020. Published additional years of data: 1) emergency department and hospitalization inpatient admission data on chronic obstructive pulmonary disease (COPD), carbon monoxide poisoning, and asthma (2005-2019); 2) sub-county level data on asthma and COPD ED visits and hospitalizations (2010-2019) Published new content on heat deaths, PM₁₀, wildfires, monthly temperature data, and private well contaminant data Online tool on environmental health topics, including birth outcomes and birth defects infographic 	Significant Progress
Held Arizona Sanitarians' Conference to provide continuing education to Registered Sanitarians statewide.	ADHS, AZ County Health Departments, Indian Health Service, AZEHA, NEHA	State Funds	Jennifer Botsford Acting OEH Office Chief, Jennifer.Botsford@azdhs.gov	<ul style="list-style-type: none"> Provided twelve continuing education units in two-day educational conference. 	<ul style="list-style-type: none"> Virtual conference with 270 attendees registered statewide, including those from Cochise, Pima, Santa Cruz, and Yuma Counties. Presentations were later provided on ADHS website. 	Deliverable Achieved



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Fundamental Strategy – Environmental Health						
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Covid-19 response assistance provided to facilities and general public.	ADHS	State Funds	Jennifer Botsford Acting OEH Office Chief Jennifer.Botsford@azdhs.gov	<ul style="list-style-type: none"> Assist with implantation of COVID-19 Safety requirements. 	<ul style="list-style-type: none"> Covid safety requirements implemented for public facilities such as restaurants, bars, and nightclubs. On site assistance provided when necessary, including at the Arizona State Prison Complex-Yuma. Still in progress 	Significant Progress
Inspections conducted in Border Counties	ADHS	State Funds	Jennifer Botsford Acting OEH Office Chief Jennifer.Botsford@azdhs.gov	<ul style="list-style-type: none"> Food Safety inspections conducted at prisons statewide, behavioral health facilities in Pima, Santa Cruz, and Yuma Counties, and produce warehouses in Santa Cruz County. 	<ul style="list-style-type: none"> Ensured cleanliness and safe food handling procedures in licensed/ permitted facilities in Border Counties (as well as statewide). 	Significant Progress