BORDER 2025

EPA Region 6: Border Program News

April 2017 – July 2017 ttp://www.epa.gov/border2020





Reduce Air Pollution

Improve Access to Clean & Safe Water



Promote Materials Management & Clean Sites

Joint Preparedness & Emergency Response



Compliance Assurance & Environmental Stewardship

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Office of Environmental Justice, Tribal and International Affairs (OEJTIA) - Border 2020 Program

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Region 6 Prioritization for Drinking Water and Wastewater Infrastructure Projects



Plant in Anthony, New Mexico

The US Environmental Protection Agency (EPA) Region the Border Environment Cooperation 6 and Commission (BECC), in coordination with the North American Development Bank (NADB), on July 2017 announced a new project application and prioritization cycle for drinking water and wastewater infrastructure projects for the Border Environment Infrastructure Fund (BEIF) and the Project Development Assistance Program (PDAP) located within 100 kilometers north and south of the U.S.-Mexico border of New Mexico, Chihuahua, Coahuila, Texas, Nuevo Leon or Tamaulipas.

Prioritization of drinking water and wastewater projects is necessary because water infrastructure needs for the Border region exceed the available infrastructure grant funds. The prioritization methodology and related processes have been developed to enhance program effectiveness and reflect US–Mexico border region priorities. The purpose of the prioritization methodology is to identify and fund projects that will address the most urgent needs and the most severe public health and environmental conditions existing in the border region. To be considered eligible for the BEIF/PDAP prioritization process, applicants, for projects in both the U.S. and in Mexico, must propose to address existing conditions that, if improved, will provide health and environmental benefits in the U.S.

Project Sponsors interested in applying will have till October 1, 2017 to submit their applications. For more information regarding this process visit: http://www.becc.org/fundingprograms/infrastructure-funding/beif#/tab4

Overview: Border 2020 Program Request for Proposal & Workshops



Attendees at RFP workshop in Nuevo Laredo, Tamaulipas

The Region 6 Border 2020 Program, through the Border Environmental Cooperation Commission (BECC), launched the request for proposal on May 31 and closed on July 20, 2017. Over 109 proposals were received and being evaluated for possible funding. Several meetings in Texas, New Mexico, Chihuahua, Coahuila, Tamaulipas, Nuevo Leon were held Fall 2016 and early 2017, prior to the RFP launch to get public input to identify priorities in the border communities that align with the goals and objectives of the Program. In addition, EPA and BECC staff held 13 workshops and one webinar, from New Mexico to South Texas in both the US and Mexico, to assist those interested in applying in order to understand the RFP process. Over 300 persons attended the 13 workshops. The RFP is the third funding opportunity that has launched under the Border 2020 Program within Region 6. The first and second RFPs were launched in 2013 and 2015, with over 27 projects completed and 8 projects ongoing.

Joint Advisory Committee

On Thursday, May 25, the JAC held its 69th meeting at the University of Texas at El Paso (UTEP) with all of 22 current voting members in (100%) attendance. EPA Region 6 staff, Guy Donaldson, served as the US Co-Chair, Carlos Rincon as meeting moderator, Maria Sisneros provided meeting logistic support. Dr. Diana Natalicio, UTEP's President, welcomed over 67 participants physically and virtually present.



Dr. Diane Natalicio (UTEP President) addressed JAC attendees on May 25th.

There were eight presentations during the meeting highlighting the work of Ciudad Juarez Office of Resiliency; US- DOT Transportation Centers that are new in partnerships within UTEP; an update on JAC's website; a status of State of Chihuahua ProAire; a Texas Transportation Institute (TTI) study on emission reductions program for heavy duty trucks; an update on Juarez Air monitoring network, and a Ciudad Juarez Autonomous University (UACJ) upcoming project to expand the weather network for Ciudad Juarez. During the public comment period, Ita Villegas from a Parents Association located in community near the Chamizal Neighborhood expressed concern on the commercial (trade) truck traffic and its associated emissions and impact on children's health. At the end of the meeting JAC members voted to have the Strategic Technical Committee work on synergy opportunities between the ProAire, Border 2020 Goal 1 two-year work-plan and JAC workplan. The next meeting will take place in Las Cruces, NM on October 5, 2017.

Border Environmental Infrastructure Fund (BEIF) Program Projects

Lower Valley Water District begins construction on a wastewater collection system in Cuadrilla, Texas and <u>Cotton Valley, Texas</u>



Ceremony Presenters for LVWD Projects (photo courtesy of the BECC)

On April 19, 2017, the Environmental Protection Agency (EPA) El Paso Border Office Director, Carlos Rincon, and Gilbert Tellez from, the Region 6 Water Division, attended the groundbreaking ceremony in the communities of Cuadrilla and Cotton Valley located in El Paso County, Texas. EPA Region 6 provided a total of \$3.1 million in Border Environmental Infrastructure Fund (BEIF) grants for the construction of both projects. Construction of the projects is expected to begin in late May or early June and will provide wastewater treatment services for more than 365 residents in both communities. In addition to BEIF grants, both communities received a total of \$431,592 in Project Development Assistance Program (PDAP) funding for environmental and design documents needed to be prepared prior to construction.

The project in Cotton Valley will connect to Lower Valley Water District's (LVWD) existing wastewater collection infrastructure. The project will provide 78 households, first time wastewater connection service, as well as, include decommissioning of their current onsite disposal systems. The project will eliminate 30,000 gallons per day (gpd) of untreated or inadequately treated wastewater discharges, thus reducing the risk of waterborne diseases for residents of Cotton Valley.

The project in Cuadrilla will include decommissioning and removing the existing Cuadrilla WWTP with a new package plant that will treat 8,160 gpd of wastewater. The project will also replace the existing services to 27 homes in the community.

<u>GROUNDBREAKING</u> <u>CEREMONY</u> FOR <u>SUNLAND</u> <u>PARK</u>, <u>NEW MEXICO NEW WASTEWATER TREATMENT FACILITY</u>:

On July 11, 2017, Claudia Hosch and Gilbert Tellez of Region 6Water Division, participated in the Camino Real Regional Utility Authority (CRRUA), located in Sunland Park, New Mexico, groundbreaking ceremony initiating the start of construction for a new wastewater treatment facility for the City of Sunland Park and surrounding communities. To address the City of Sunland Park's existing wastewater treatment needs, EPA Region 6 provided \$9 million in EPA's BEIF Grant. EPA's funding will be supplemented by \$3.7 million from a State of New Mexico Appropriation. These funds are being used to construct a new 1.0 million gallons per day (MGD) extended aeration wastewater treatment plant (WWTP). The new plant will provide improved access to sustainable wastewater treatment services to approximately 6,438 residents of Sunland Park and Santa Teresa, NM and it will greatly reduce the risks of untreated or inadequately treated wastewater discharges. In addition, it will improve the quality of effluent discharges to receiving water bodies.



CRUA groundbreaking ceremony for Sunland Park Facility

RIBBON-CUTTING CEREMONY FOR THE TOWN OF MESILLA, NEW MEXICO; WATER IMPROVEMENT PROJECT:

Currently, residents in the project area rely on private wells for drinking water. During periods of extended drought, these wells are vulnerable to going dry, forcing area residents to haul water for domestic use. Health risks associated with hauled water are typically the result of containers being inadequately sterilized or cross-contamination when the container has been used for hauling other materials besides potable water. The project consisted of construction of three separate waterlines that provide new hookups to 12 residences and added looping to improve the distribution system. All of the new lines connect to the existing water distribution system. All project management and construction contracts have been awarded and execution has been completed. Total project cost was approximately \$315,000 and new improvements are benefitting 1,450 residences. This project was awarded a 100% grant from EPA's Border Environment Infrastructure Fund.

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Third Children's Health Symposium for Schools in El Paso, Texas



Claudia Hosch (R6 Water Division) addresses attendees at ceremony for Mesilla, NM water improvement project.

On July 11, 2017, Claudia Hosch and Gilbert Tellez participated in ribbon-cutting ceremony for the new drinking water distribution expansion and improvement project for the Town of Mesilla, New Mexico. This project was awarded 100% grant from EPA's Border Environmental Infrastructure Fund.



Dr. Stephen Borron addresses participants on July 27th event.

EPA Staff (Maria Sisneros, Paula Selzer, Lisa Almodovar, Marta Jordan) attended the third Children's Health Symposium held July 27-28th in El Paso, Texas. EPA Staff (Maria Sisneros, Paula Selzer) participated on the steering committee that began meeting in Fall 2016. The symposium, which was organized by the Southwest Center Pediatric Environmental Health (SWCPEH) with funding from EPA's Children's Health Program, worked with El Paso Independent School District Officials to organize the event. The symposium reviewed common environmental and health issues related to health problems and exposures that affect children and in the school environment. adolescents The symposium topics included topics: asthma. environmental allergens, mosquito-borne illnesses, extreme weather - heat exhaustion, artificial turf and toxicity, sports medicine, concussions, and drug use. The first day targeted K-12 health and physical education teachers, assistants, and coaches and had 29 attendees. The second day, targeted nurses and allied health professions and had 117 attendees.



Over 117 Attendees on July 28th event

Extreme Heat and Health Conference

Border 2020 Environmental Education – Extreme Heat and Health Conference. On Wednesday, May 24, 2017, Maria Sisneros and Carlos participated in the Border 2020 Environmental Education Extreme Heat and Health Conference co-sponsored by Ciudad Juarez Resiliency Office in Ciudad Juarez, Chihuahua. The event also tied in to two other locations in El Paso Texas. Over 50 persons participated in Ciudad Juarez, with an additional 12 persons in the El Paso locations. The event was also streamed via Facebook page of Technology Hub, where the event was held. Over 4,100 persons at one point visited the live-stream event. The conference focused on the public health and extreme heat events in the Paso del Norte Region.



Opening Remarks from Panel Speakers at Heat & Health Symposium

Carlos Rincon provided brief opening remarks on the Border 2020 Program to attendees, along with staff from Ciudad Juarez Office of Resiliency, and from the Mayor of Ciudad Juarez's Office and the Border 2020 Env. Education Task Force co-leaders. Maria Sisneros provided logistic support that including conference planning and at the event. The conference included speakers from Canada, US (Arizona, New Mexico, Texas) and Mexico. Presentations focused on public health due to extreme heat, community actions taken place to address extreme heat event, green infrastructure, emergency preparedness. Next steps include the City of El Paso, proclaiming May, "Heat Awareness Month" on May 31. The Border 2020 Environmental Education Task Force will continue to work with stakeholders on education events on extreme heat and health awareness.

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Smart growth in Brownsville, Texas

In December 2016, the Environmental Protection Agency's (EPA) Office of Sustainable Communities selected the Housing Authority of the City of Brownsville (HACB) to receive technical assistance for the Buena Vida neighborhood under its Building Blocks Program. The technical assistance evaluated current

priorities that are associated with HUD's Choice Neighborhoods Planning Assistance for the lowincome area of Buena Vida to work toward equitable community re-development and support community goals for housing, local businesses, iobs. transportation, and preserving opportunities for residents. Technical assistance is delivered by EPA staff and EPA-hired consultant teams. This technical assistance included: a community meeting on June 20th and technical work sessions on June 21st. The community meeting is an opportunity for anyone to come and learn more about equitable development and to share their ideas. The technical work sessions engaged a group of people to help identify the best strategies for Brownsville to support equitable development and figure out how to implement them. 80 families participated in the community evening charrette through place mapping- talked about areas of communal concern and solutions as to where improvements can be made. Issues discussed were solid waste management, small business development, flooding and food access.



Attendees of June Sessions

In June 2016, EPA's Office of Sustainable Communities announced the City of Brownsville was one of six communities selected nationally to receive technical assistance through the Greening America's Communities (GAC) program.

Under the GAC Program, Brownsville will explore green infrastructure options to the International Gateway Bridge along the U.S.-Mexico border to manage stormwater, create a more walkable street,

and add shade and plants to cool an area experiencing higher temperatures due to climate variability. A design team funded through the program has been working with the city to provide design options for five project locations. EPA funds a team of designers to visit each community to produce schematic designs and exciting illustrations intended to catalyze or complement a larger planning process for the pilot neighborhood. Additionally, these pilots are often the testing ground for citywide actions, such as changes to local codes and ordinances to better support environmentally sustainable growth and green infrastructure. The design team and EPA, along with partners from other U.S. Customs and Border Protection, Federal Transit Administration, Texas Department of Transportation participated with city staff to talk about specific implementation strategies. The 3-day charrette from June 19th–June 21st consisted of various stakeholder meetings, a community walking tour, a council meeting and a public presentation.



Attendees of June sessions

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Anthony, New Mexico Smart Growth Workshops

As a former unincorporated community, the now City of Anthony has lacked modern building codes and ordnances. Anthony is just under four square miles and has been working on street improvements to deal with flooding issues. As Part of the Building Blocks for Sustainable Communities Program, the city of Anthony received targeted technical assistance in the areas of Green and Complete streets in June 2017 and in the area of Smart Growth in July 2017.



Participants at Anthony, Workshop

The two Anthony workshops were facilitated by a technical assistance team of experts that worked closely with Anthony residents, stakeholders and City officials to explore and expand on draft design options and strategies for the city. The Green and Complete Streets Workshop included a hands on mapping exercise which identified specific areas near the schools which would benefit from complete streets and green infrastructure. The Smart Growth workshop also included a public open house and innovative nontraditional exercises to encourage community input on specific design options. The end product will be Next Steps Memorandums to identify specific actions that could be taken by the City to move it closer to implementing Smart Growth Strategies and Green and Complete Street projects.



Anthony residents attend public portion of Smart growth workshop in July

Emergency Response Activities in the Texas-New Mexico-Chihuahua Region

Presidio, Texas – Ojinaga, Chihuahua

On Wednesday, June 29, Maria Sisneros and Carlos Rincon met with members of the Junta de los Rios Task Force to discuss binational emergency response activities, including training needs, sister city plan and contact updates for the Presidio-Ojinaga sister cities. Members discussed the need to exchange information regarding personnel, equipment, updated contact information for all relevant partners. EPA staff discussed a brief history of past relevant ER activities. Since the last 2013 sister city update, members identified new risks (i.e. US-MX train crossing possibly carrying HAZMAT materials; new international pipeline; possible construction of a new airport in Ojinaga, and expansion of the existing POE) to the region that members need to consider. It was agreed that members will begin the update of the sister city plan which was last updated in 2011, to include language for the creation of a new subcommittee under the Junta de los Rios TF, update of contact information, exchange of information of ER agencies, equipment inventory from both cities. Other issues identified was the need to work with Customs and MX Aduanas to develop a protocol for crossing equipment and personnel to avoid delays when responding to an incident. The group will meet again on September 20, 2017.

<u>Ciudad Juarez, Chihuahua – El Paso, Texas</u>

On July 14, Carlos Rincon, participated on the annual binational drill that the Procuraduría Federal de Protección al Ambiente (PROFEPA) conducted in Ciudad Juarez, Chihuahua. PROFEPA has designated July 14 as the day to conduct training and emergency response exercises throughout all 32 states of Mexico. The binational drill tested the local sister city plan with El Paso, Texas, in case of an event that would affect both communities and would require close coordination for response. Over 30 first responders participated in the exercise that included staff from PROFEPA in Ciudad Juarez, Ciudad Juarez's Civil Protection, Fire Department, PEMEX, the Comite Local de Ayuda Mutua (C.L.A.M.) that mirrors the US Local

Emergency Planning Committee (L.E.P.C.), SEMARNAT, EPA and many others. The Border 2020 Mexican Coleader of Emergency Response for the area, Ing. Efren Matamoros, convened the two preparatory sessions that included 30+ stakeholders from binational Institutions that played a role during the July 14th exercise.



July 14th Ciudad Juarez Participants during exercise.

The exercise scenario tested responder's capability to respond to an incident involving an underground gas pipeline valve malfunction near the Rio Grande that caused an explosion affecting the surrounding community. The binational incident took place at the south - side of the Rio Grande levee where an underground gas pipe valve suffered a malfunction causing an explosion and fire, which reached passing vehicles, and a private owned vehicle caught on fire. Responders were able to successfully communicate with El Paso Office of Emergency Management staff as part of the protocol under the sister city plan, as well as, the notification to CENACOM (the National Response Center (NRC) equivalent in Mexico), which notified the NRC of the incident. Under Annex II of the 1983 La Paz Agreement, EPA along with its counterpart, Secretaría del Medio Ambiente y Recursos Naturales, (SEMARNAT), are charged with working together to address incidences that involve hazardous substances.



Ciudad Juarez Civil Protection and media during July 14th exercise.

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Gulf Intragovernmental Working Session & Texas-Coahuila-Tamaulipas-Nuevo Leon Task Forces' Public Meetings

Gulf Intragovernmental Working Session:

On August 23, Japhet Cruz from EPA Border 2020 and Laura Gomez from EPA OEJTIA held a working session along with U.S. Geological Survey (USGS), Housing Urban Development (HUD), Harlingen Chamber of Commerce, TCEQ and the Lower Rio Grande Valley Development Council (LRGVDC) in Weslaco, Texas, with the purpose of strengthening relationships, creating new partnerships and seeking a way to help the Border 2020 Program and the citizens of this geographical area. Topics covered included: leveraging; synergy; partnerships; Gulf priorities; intergovernmental relationships; water infrastructure; emergency management; and geographic culture. Each partner provided a PowerPoint presentation or discussed what support their agency and/or department could provide. These presentations explained how intergovernmental groups and agencies could work together in order to leverage and become more efficient in helping grantees. Agencies present at the meeting agreed to continue to enhance their relationship and possibly bring more partners to the table. Overall it was a very productive and much needed session in order to continue strengthening the

Border 2020 Program and continue building successful partnerships.



Laura Gomez – Speaking about Intergovernmental Relations

Public Meetings:

In April 2017, the Amistad, Falcon and Gulf Task Forces held public meetings in Ciudad Acuña, Coahuila; Nuevo Laredo, Tamaulipas and Matamoros, Tamaulipas. Over 161 stakeholders participated in the three public meetings. During each of the meetings, the 2017-2018 draft two-year action workplans were presented that included ongoing and planned projects by border stakeholders. Staff from the Border Environmental Cooperation Commission discussed lessons learned from previous border 2020 funded projects, in order to assist those present, prepare for the request for proposals released on May 31, 2017. In addition, BECC staff highlighted that through the Border 2012 and Border 2020 Program, in the four state region, 84 projects received funding for more than 2.5 million dollars and 64 projects were completed with funding for million dollars. more than 2.3

Amistad Task Force Meeting:



Attendees of Amistad TF in April 2017

Highlights from presentations at the meeting included:

- From a Border 2020 funded project funded in Piedras Negras, from February to December 2016, more than 46 tons of electronics were recycled in Piedras Negras. The project which includes partnerships with the City of Eagle Pass, included a collection event where an additional 9 tons of used electronics was collected. Additional outreach to elementary schools, distributed literature about the proper management of used electronics and health hazards.
- City of Del Rio held an Earth Day event, where exhibits and booths were set up to educate the public on recycling, water conservation and gardening.
- The municipality of Ciudad Acuña signed an agreement with Enel S.A. de C.V. and Sowitec (wind power developers) to install 100 wind turbines in 25 acres of land located about 54 miles from the city. The cost of the project is 400 million dollars. The turbines will generate about 200 mw of clean energy. A transmission line connects the electricity output from the turbines to a substation and to CFE's (Mexico's Federal Energy Commission) national power grid. It is estimated that the wind farm will generate more than 1,752,000 mw annually through the national power grid, with zero carbon emissions.

Falcon Task Force Meeting:



Speakers at Falcon TF April Meeting.

Highlights from presentations at the meeting included:

• Nuevo Laredo Environment and Climate Change Department discussed the status of Nuevo Laredo's integrated scrap tire management project. Nuevo Laredo currently has more than 600,000 scrap tires at their tire recycling site. The municipality is currently reviewing two project proposals submitted by companies.

- The Nuevo Laredo Climate Change and Environment Department and COMAPA (Nuevo Laredo's water system) are working with UAT staff to organize workshops in elementary and middle schools in Nuevo Laredo. Officials have trained more than 738 people on topics related to recycling, energy and water conservation. Staff is working with officials to improve the current environmental enforcement regulations in Nuevo Laredo. There are only five municipalities in the state that have environmental regulations. The next steps of the project are to train COMAPA inspectors on enforcement procedures and promote the use of certified labs for water testing; train landfill operators on waste management; work with the state to provide funds for maintenance of air guality monitors; and replicate Coahuila's vehicle emissions program in Tamaulipas.
- Dr. Hector Gonzalez, from Laredo Health • Department, gave a presentation on binational efforts to address Zika and other vector-borne illnesses. The Laredo Health Department uses larvicides to eliminate mosquito larvae and minnows for mosquito control. The health department takes samples and conducts lab tests for Zika. It also has a contingency plan in case of a local Zika outbreak. The health department is working on a campaign to educate doctors and medical providers on Zika symptoms. It will also be conducting Zika testing on pregnant women during their first and second trimester. The City of Laredo's new Tire Ordinance has decreased scrap tires in backyards and lots. The ordinance requires tire generators to charge a deposit fee of ten dollars for customers purchasing new tires. This fee is reimbursed when a customer brings an old tire from the street or backyard. The

landfill has seen an increase of about 45% in tires due to the ordinance.



Gulf Task Force Meeting:



Attendees Gulf TF at April 2017 Meeting

Highlights from presentations at the meeting included:

- Mayor of Matamoros, Jesus de la Garza, shared information regarding the history of Casa Mata museum The green gas house emissions, use of green infrastructure, waste management, the sustainable growth of the cities, and use of clean energy are the responsibility of each of one of us, in particular, of each elected officials.
- Valle Hermoso's Ecology Director gave a presentation on their municipal solid waste program which received funding from Border 2020. The city also conducted a study on the generation of urban solid waste. Most recently, an agreement was made with the Municipality of Matamoros to begin to deposit Valle Hermoso's urban solid waste in the regional landfill located in Matamoros.

 Reynosa's Ecology Director gave an overview of their municipal solid waste program. The city is planning to purchase roll off containers and place throughout the city for citizens to deposit their solid waste. In addition, they are also looking into obtaining funds to purchase a tire shredder, where the shredded product will then be incorporated into public works projects.

EPA engages the Academic Community in El Paso, Texas



University of Texas at El Paso

EPA Staff, Maria Sisneros and Miguel Moreno from Region 6's Water Division, participated on April 19 in the University of Texas Earth Day festivities. Approximately 100 UTEP and high schools visited the EPA booth. EPA distributed information on water conservation measures, composting at home and information on possible internships at EPA (PATHWAYS) and other federal agencies.

On July 11, 2017, Maria Sisneros conducted a presentation to 22 high school students participating in a summer program at UTEP. The presentation focused on Air Quality in general, Health Effects, air quality along the border and Paso del Norte. The Summer Program is part of UTEP's Geological Sciences Department "Earth Tech" Summer Program. The summer program is designed to expose high school students to various science topics and the relevance of science in their local community, and this year the theme was on is air quality and air pollution.

POE Name	Truck Crossings into U.S.	% of Total Mexico Border
Laredo, TX	2,015,773	36.4 %
Otay Mesa, CA	829,581	14.9 %
El Paso, TX	747,702	13.5 %
Hidalgo, TX	546,259	9.8 %
Calexico East, CA	337,474	6.1 %
Nogales, AZ	319,747	5.8 %

Table 1. Top six Ports of Entries on the U.S.-Mexico Border with most heavy-duty truck crossings into the U.S. Data from the U.S. Department of Transportation, 2015

On July 20th, 2017, Carlos Rincon, spoke to UTEP's Senior class students on EPA's work in West TX – Southern NM – Northern Chihuahua region, and Border 2020 program along the US – Mexico Border area. Dr. Rincon's presentation was part of a UTEP Summer Course titled: "Transboundary Environmental Issues" in which at the end of the summer course, students were able to visit Mexico City to learn more about the binational challenges that exist. Dr. Rincon presented on the four US – Mexico Border Programs under the 1983 La Paz Agreement that EPA has implemented with border partners, highlighting the importance of binational cooperation and partnership with State, Local City – County, Tribes, Academia, NGOs along the Paso del Norte.

PARTNER HIGHLIGHTS: Texas Commission on Environmental Quality

Develop a Diesel Emissions Reduction Program for Drayage Trucks in the Paso del Norte Airshed:

The U.S. EPA and the TCEQ will partner with the Texas A&M Transportation Institute and binational trucking companies to develop a training module for drivers of drayage and heavy-duty diesel trucks in the El Paso-Ciudad Juárez area to reduce emissions and fuel consumption. The project includes analysis of routes, logistics, wait times at ports of entry, and driver behavior. TCEQ will scale the training module to use at ports of entry along the Texas border. This project will be complete by August 31, 2017 and the lead transportation scientist will present the results of the study, and impacts of the driver training, at the next meeting of the Joint Advisory Committee on October 5, 2017.

Facilitate Binational Technical Exchanges on Air Quality Monitoring:

The EPA and TCEQ will work with local, state, and federal agencies to troubleshoot, update, and enhance air quality monitoring along the border, with a focus on the El Paso-Ciudad Juárez metropolitan area. The objective of this project is twofold: to enhance air quality monitoring in the border region and to foster technical exchanges between neighboring states' regulatory agencies.

In the first phase of the project, TCEQ, using EPA grant funds, worked with stakeholders and contracted an evaluations of three existing continuous air monitoring stations (CAMS) that were operated by the Ciudad Juárez Department of Ecology.

In phase two, TCEQ, again using EPA funds, is working through a contractor to refurbish the stations and make them operational. The Ciudad Juárez Department of Ecology has been heavily involved, as has the EPA Region 6 El Paso Border Office and Mexico's Institute of National Ecology and Climate Change (INECC). INECC will provide a third-party verification of the refurbished CAMS, which will be operational and generating data by August 31,2017. The data collected will be available online through TCEQ's LEADS system for collection, analysis, display and reporting of continuous air monitoring data, as well as Mexico's SINAICA, similar to LEADS. The data collected by LEADS can be used by TCEQ to improve air modeling in the Paso del Norte region.

Model upper-air atmospheric conditions

The TCEQ and the EPA are sharing the cost to analyze wind speed and wind direction at high elevations and to measure the always-changing cloud base height. The project involves data collection using a Radar Wind Profiler and a Ceilometer, located side by side at a TCEQ monitoring site in Socorro, in southeast El Paso County.

A radar wind profiler emits radar waves to detect wind speed and direction on a continuous vertical profile of elevations above ground. The data are vital to understanding air-pollutant transport and verifying and improving air quality models. Building on a project that began in summer 2014 to modify and upgrade a faulty radar wind profiler located at the University of Texas at El Paso, the team moved the instrument to the new site. With on-the-ground leadership by the University of Texas Center for Energy and Environmental Resources (UT-CEER), the radar wind profiler has been collecting data continuously since October 2016.

A ceilometer sends a laser beam into the sky to measure the cloud-base height and mixing height of the boundary layer, which is vital in understanding development and dispersion of pollutants. The team purchased, installed, and has been operating a new ceilometer since November 2016. This is the first ceilometer for TCEQ and will serve as a pilot project for future ceilometers in the state.

The two machines together, measuring similar conditions but using different methods, are of

particular interest. UT-CEER will present several interesting case studies based on the data analysis at the next meeting of the Joint Advisory Committee on October 5, 2017.



Photograph of Ceilometer

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Water Resources and Conservation Symposium in El Paso, Texas

On July 14, 2017, Senator Jose Rodriguez and the District 29 Environment Advisory Committee, the City of the El Paso Environmental Services Department, and El Paso Water (EPW) along with other area stakeholders hosted the Water Resources and Conservation Symposium in El Paso, Texas. The symposium, attended by 80 of participants, was geared to students and professionals to interact with and to help inspire area youth to under and pursue professional careers involving the water challenges facing the Paso del Norte Region.



Senator Rodriguez addressing symposium attendees.

Topics of the symposium included: water management, water resources, engineering and design, water program and water history and law. Guest speakers included Texas Senator, Jose Rodriguez; John Balliew (President and Chief Executive of EPW); Al Bair (AW Blair Engineering); Bert Cortez (U.S. Bureau of Reclamation); Ed Druisina (Commissioner for the US International Boundary and Water Commission - IBWC); Colin Findley (Texas Parks and Wildlife); Josiah Heyman (University of Texas at El Paso); Kathleen Jackson (Texas Water Development Board); Derrick O'Hara (IBWC); Jesus Reyes (El Paso Water Improvement District #1); Scott Reinert (EPWU); and Karl Rimkus (City of ΕI Paso Environmental Services Department).

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