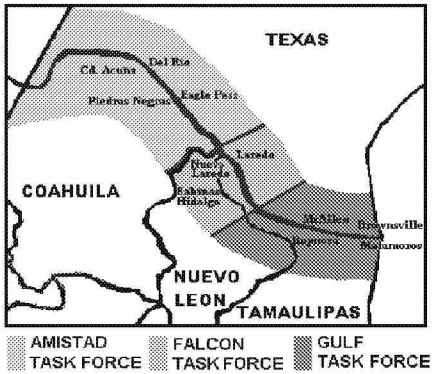
BORDER 2020
2015-2016 Action Plan
TX-COAH-TAMP-NL Regional Workgroup
September 2015



The **Four-State Regional Workgroup** is the most complex of the four regional workgroups, because of its geographical extension and the number of municipalities. The region includes parts of three states and a total of at least 29 municipalities on the Mexican side, and 168 cities and towns on the U.S. side. Recognizing this, the workgroup divided itself into three geographically-based Task Forces—Amistad, Falcon, and Gulf, each of which has established subject-specific committees related to its priority concerns.

During the first half of 2015, the three task forces held meetings to discuss initial priorities for the 2015-2016 Action Plan. Several conference calls with leaders were held in June 2015 to develop a consensus of priorities at the task force and regional workgroup levels.

Border 2020 has five goals and the regional work groups propose projects to implement these goals. These projects are tracked in two-year revolving work plans. The 2015-2016 version is the second of its kind. Several projects have been carried over from the 2013-2014 Action Plan. Due to consensus by the Four State Workgroup, a sixth goal for health and education projects was included. Projects are organized by Border 2020 goals and objectives.

Regional Priorities

1. Improve air quality through the following approaches:
    a. Increase energy efficiency at the consumption level and the use of renewable energy at all appropriate levels
    b. Analyze emissions and emission sources in specific air sheds
    c. A study on the possible health effects caused by climate change

2. Improve water quality by taking the following actions:
    a. Evaluate the Rio Grande watershed in the region
    b. Establish enforcement programs to prevent pollution on water bodies on the Mexican side
    c. Improve water infrastructure as it pertains to treatment systems and distribution in rural areas

3. Address problems of improper waste disposal:

4. Assist communities to build capacity for waste streams: by implementing recycling, household hazardous waste and electronic waste collection and disposal programs and develop comprehensive plans for scrap tire disposal and alternative markets

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5. Expand environmental education related to waste issues

6. Enhance Joint Preparedness for Environmental Response
    a. Provide HAZMAT training to local first responders to reduce exposure to chemicals as a result of accidental chemical releases and/or spills in the.
    b. Coordinate emergency preparedness response table top exercise or field exercises.

7. Develop a certified environmental health curriculum to train border community health workers and promotoras on lead, mercury, pesticides, and other heavy metals

Individual Task Force Priorities

Amistad Task Force

1. Generate plans to mitigate the impacts of climate change in Coahuila
2. Establish air quality monitoring stations and exchange data with Texas
3. Develop a database to measure emissions of hydraulic fracturing operations in Coahuila
4. Increased use of alternate and renewable energy sources (such as landfill gas and solar energy)
5. Develop water conservation and reuse programs for irrigation in Coahuila
6. Establish waste management programs in ten municipalities in Coahuila (including used electronics, household hazardous waste management and recycling)
7. Develop and promote scrap tire, recycling and solid waste management programs on the Kickapoo Reservation

Falcon Task Force

1. Conduct a study on the use of methane gas for energy generation in landfills
2. Monitoring of drilling operations in the Eagle Ford Shale and on the Mexican side
3. Finalizing the cross-border contingency plan
4. Generate studies and projects for water reuse and conservation
5. Develop adequate management, alternative markets(such as tire cutters) and ordinances for scrap tires
6. Establish used electronics and household hazardous waste programs in municipalities in the Falcon Task Force
7. Develop a diagnostic study on the generation and alternative markets for construction waste in the Falcon Task Force
8. Develop a workshop on best practices related to public health and environmental education indicators

Gulf Task Force

1. Outreach programs to improve energy efficiency
2. Educate the community on how to improve water quality
3. Improve or develop Industrial Pretreatment, Fats, Oil & Grease Management and Storm Water Programs.
4. Increase environmental awareness and responsibility with regard to solid waste and water related health effects in city residents, rural communities and colonias
5. Healthy Homes training for promotoras along the GTF' US-MX border

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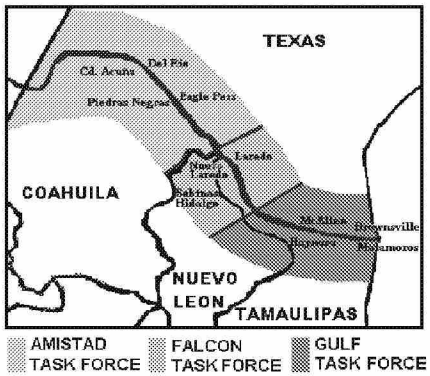
Border 2020

2015-2016 Action Plan Grid
Four-State Regional Workgroup

Legend:

- Activity covers at least two task force areas
- Gulf Task Force
- Falcon Task Force
- Amistad Task Force



GOAL # 1: Reduce Air Pollution

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of Funding	Contact(s)	2015-2016 Target	Progress Towards Target
Objective 1: By 2020, reduce the number of vehicles operating in the border region that do not comply with the respective vehicle emissions standards, and reduce vehicle emissions at ports-of-entry through anti-idling and other feasible measures.							
1.1.01	**Characterization of Drayage Activities & Emissions Laredo-Nuevo Laredo Airshed** Develop a detailed characterization of the drayage activity in the Laredo-Nuevo Laredo region and its air quality implications.	Texas A&M Transportation Institute	$89,750 US Dollar	Border 2020	Dr. Reza Farzaneh, TTI, Reza.Farzaneh@tamu.edu (512) 467-0946	Gather activity information on drayage vehicles to estimate their emissions impacts in the Laredo and Nuevo Laredo airshed.	TTI obtained permissions by the EPA, BECC and the Texas A&M IRB to collect GPS data from drayage vehicles operating in the Laredo-Nuevo Laredo region. TTI recruited 20 drayage truck operators and collected GPS data. TTI staff are analyzing the data and determining the emission impact of the trucks.

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1.1.02	**Emissions from Long Haul MX Diesel Trucks in Laredo-San Antonio Corridor** Survey diesel truck activity and evaluate typical Mexican diesel truck emissions along Laredo-San Antonio Corridor.	Texas A&M Transportation Institute	$100,000 US Dollar	EPA, TCEQ	Dr. Reza Farzaneh, TTI, Reza.Farzaneh@tamu.edu (512) 467-0946	Collecting and analyzing data. TTI will present findings and report in August.	The project is complete. In August a final report was submitted to TCEQ with findings and is currently under review.
Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to quality data.							
1.3.01	**Update the Ecological Program Code for the Region Cuenca de Burgos, Tamaulipas**	SEDUMA Tamaulipas	$2 Million Pesos MX	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Develop a Monitoring and Evaluating System for the most relevant environmental Indicators, considering performance, defining measurements that allow one to track the strategy's effectiveness and the code's defined policies.	The project is in the process of being updated by a hired external consultant that will perform modifications to the current code.
Objective 4: By 2015, support completion of climate action plans in each of the six northern Mexican Border States, and build the necessary capacity to guarantee sustained implementation.							
1.4.01	**Municipal Climate Action Plan of San Fernando, Tamaulipas**	SEDUMA, Gobierno Municipal de San Fernando, Tamaulipas	$ 2.199 Million Pesos MX	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Develop a public policy planning instrument for the development of strategies and actions to mitigate greenhouse gas	This project is undergoing administrative procedures to execute the awarded budget. The municipality of San Fernando will oversee the project and has State support for

						emissions. Reduce municipal vulnerability to climate change by enhancing adaptability.	the validation of reference terms and the respective technical annex.
1.4.02	**Tamaulipas State Climate Change Program**	SEDUMA Tamaulipas	$200,000 US Dollar	Banco Interamericano de Desarrollo (BID)	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Update the greenhouse gas emissions inventory and develop the program's climate change adaptation agenda.	An external consultant will develop the project. The update to the inventory has been completed. Currently both the Adaptation Agenda is being developed and the integration of both components. The deadline is November 2015.
Objective 5: By 2020, reduce emissions and associated impacts, through energy efficiency and/or alternative/renewable energy projects.							
1.5.01	**Coahuila Climate Action Plan** Initiate Phase 2 of the State Climate Action Plan (PEAC) for Coahuila: Quantification of the mitigation policies selected in Phase 1.	Coahuila State Government and BECC	$275,000 US Dollar	BECC	Tomás Balarezo, BECC, tbalarezo@cocef.org	Econometric evaluation of the mitigation policies selected in Phase 1.	The project is currently in the Microeconomic and Public Policy Phase for Coahuila State. Meetings have been held with the Technical Working Groups, the Advisory Group, and the Climate Change Committee.
1.5.02	**Air Quality Network in Coahuila** Establish an air quality monitoring network in the areas of Piedras Negras-Nava, Acuña, Sabinas, and Saltillo, Coahuila.	SEMA (Coahuila), Municipalities of Piedras Negras, Acuña, Nava, Sabinas, Saltillo	$12 Million Pesos MX	SEMARNAT	Santiago Barrios, SEMA/Coahuila, santiago.barrios@sema.gob.mx	Have air quality monitoring network in operation for Piedras Negras-Nava Region, Acuña, Sabinas Region and Saltillo Region, Coahuila.	The project has been authorized and is in the revision phase prior to bidding.

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1.5.03	**Tamaulipas Climate Action Plan** Initiate Phase 2 of the State Climate Action Plan (PEAC) for Tamaulipas: Quantification of the mitigation public policies selected in Phase 1.	Tamaulipas State Government and BECC	$300,000 US Dollar	BECC, BID	Tomás Balarezo, BECC, tbalarezo@cocef.org	Selection of a number of prioritized mitigation public policies for climate change.	A Comité Intersecretarial ante el Cambio Climático (CICC) has been established, as well as Integrated Technical Working Groups (TWG) and the Advisory Group (AG). A consultant has been hired. They are working on the agenda, updating the emissions inventory, and the integration of both components.
1.5.04	**Atmospheric Monitoring System** Strengthen Tamaulipas' atmospheric monitoring system.	SEDUMA Tamaulipas	Annually: $ 250,000 Pesos MX ($150,000 Municipal & $100,000 State)	SEDUMA, City Council of Matamoros	Biol. Jorge Garcia, jgarciah@tamaulipas.gob.mx 834 1078291	By 2014, the system will operate at 100% with programmatic consistency standards.	Currently four of the eight municipalities have their air monitoring network in operation (01 Nuevo Laredo, 02 in Victoria, 01 in Madero and 01 Tampico). The operation site for the four monitors located in Matamoros for the last trimester of 2015 is being managed.
1.5.05	**Green Infrastructure Workshop**	SEMA, COCEF		SEMA, COCEF	Tomás Balarezo, COCEF, tbalarezo@cocef.org	Train municipalities on Green infrastructure.	Two workshops were held. One on April 21, 2015 in which 5 municipalities from the Southeast region attended and a second workshop on May 27, 2015 that was attended by 10 municipalities from the Central and Desert regions. The state workshop will occur in the final trimester of 2015.

Goal # 2: Improve Access to Clean and Safe Water

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Contact(s)	2015-2016 Target	Progress Towards Target
Objective 2: Help drinking water and wastewater service providers in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.							
2.2.01	**Upgrade Sewer Line Infrastructure Nuevo Laredo** Install new or upgrade selected existing sewer lines and connect them to Nuevo Laredo's wastewater treatment plant to prevent contaminated discharges through the stormwater system to the Rio Grande.	COMAPA and Municipio de Nuevo Laredo	$5 Million US Dollar	NADB	Delfino González C.P., COMAPA, dgcdelfino@comapanuevolaredo.gob.mx	Complete the project by January 2015.	The BECC certified the project in September of 2012. Of the five sewer lines one was completed during the first half of 2014. The remaining four lines are under repair and discharge approximately 1.6 MGD to the fluvial water system. Another discharge point was identified by COMAPA in the Arroyo La Joya and will be repaired.
2.2.02	**Management of Fats, Oils, and Grease Nuevo Laredo** Reduce the concentration of fats, oils, and grease in the effluent water coming from restaurants and hotels and industrial dining facilities in Nuevo Laredo.	Comisión Municipal de Agua Potable y Alcantarillado, Nuevo León.	$32,533 US Dollar	Border 2020	Ing. Juan Carlos Pérez, COMAPA Nuevo Laredo, jcarlos_faz@hotmail.com 01152867 717-24-44	Hold workshops and follow-up with commercial establishments on implementation of FOG programs	COMAPA organized workshops with the support of students from the Technical University to educate commercial establishments and residents on best practices. The last workshop was held in August of 2015 that included a tour of the International Waste Water Treatment Plant. All the establishments that participated in the workshops have grease traps and are applying control and operating techniques. COMAPA is drafting the final project report.

2.2.03	**Ideal Biological Filtration Material South Texas Storm Management** Identify the best locally available material for use in bio-swale in the Lower Rio Grande Valley & South TX.	University of Texas Pan American	$26,022 US Dollar	Border 2020	Jungseok Ho, Ph.D. University of Texas Rio Grande Valley, jungseok.ho@utrgv.edu (956) 665-3104	The proto-type bioswale will be tested in a newly constructed parking lot on the campus of UT Pan American.	The recycled ground recycled glass of medium porosity demonstrated good hydrologic performance in the biological filtration process.
Objective 3: Work binationally to identify and reduce surface water contamination in transboundary waterbodies or watersheds.							
2.3.01	**Removal of Invasive Plants** Implement a program to remove invasive plants in the Rio Grande.	SEMA Coahuila, CONANP, PROFAUNA, WWF, Slim Foundation	$1.5 Million Pesos MX Annually	SEMA (Coahuila), CONANP, Profauna WWF, Slim Foundation	Alejandra Carrera, SEMA Coahuila, alejandra.carrera@sema.gob.mx 01152844 410-0014	Plant Control: 2014: Tamarix 34 ha & Carrizo 40 ha; 2015 Tamarix 34 ha and Carrizo 40 ha; 2016: Tamarix 34 ha and Carrizo 40 ha.	Since 2014 PROFAUNA and CONANP with the support of WWF and the Slim Foundation have annually protected 34 hectares from the Tamix plant and 40 hectares from Carrizo. To date they have continue to protect the same quantity of land and it is anticipated that they will maintain this amount in 2016.
2.3.02	**Conservation of Las Vacas Stream** Design and implement actions to improve water quality and promote an adequate habitat for flora and fauna species in the Arroyo Las Vacas.	Ciudad Acuna Department of Environment, SEMA Coahuila	$44,200 US Dollar	Border 2020	Lic. Alejandra Carrera, Secretaria de Medio Ambiente de Coahuila, alejandra.carrera@sema.gob.mx 01152844 410-0014	Implement actions to improve water quality and promote an adequate habitat for flora and fauna species in Las Vacas stream.	Progress has been made regarding the Arroyo Las Vacas diagnostic, water quality monitoring, and identification and detection of disputes through a ITSA-UT Austin Knowledge Exchange. A presentation of the project was presented at the Environmental Trade Fair in May 2015. In November, a training is scheduled regarding bi-national water quality, data comparison, and water sampling.

2.3.03	**Lower Rio Grande Binational Water Quality Initiative (LRGWQI)** Implement a binational Lower Rio Grande Water Quality Initiative (from Falcon to the Gulf) that characterizes the state of the river, develops a strategic plan to improve environmental conditions, and proposes a monitoring plan to document progress.	TCEQ, EPA, IBWC, CILA, CONAGUA, and federal, state, and local government agencies		TCEQ, EPA, IBWC, and federal, state, and local government agencies	Kelly Holligan ,TCEQ, 512-239-2369, Kelly.holligan@tceq.texas.gov	Implement actions to improve water quality and promote an adequate habitat for flora and fauna in the Arroyo Las Vacas.	In March the LRGWQI's Binational Technical Work Group conducted the first of four binational synoptic water quality surveys scheduled for the project. They also developed a preliminary input file for a steady-state water quality model of the Rio Grande/Río Bravo (Falcon Dam to Gulf of Mexico).

Goal # 3: Promote Materials Management, Waste Management, and Clean Sites

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Objective 1: By 2020, increase local and state-level knowledge and experience in the area of sustainable material management practices.							
3.1.01	**Environmental Education Program Nuevo Laredo** Establish an environmental organization to develop environmental awareness and clean-up programs in Nuevo Laredo in affiliation with Keep America Beautiful.	Keep Laredo Beautiful, Keep America Beautiful, and the Municipality of Nuevo Laredo		City of Laredo Environmental Services local partners, and Keep America Beautiful	Lynne Nava, Keep Laredo Beautiful, lnava1@ci.laredo.tx.us 956-794-1650	Establish an environmental organization affiliated with Keep America Beautiful by 2016.	Keep Laredo Beautiful will be meeting with officials of the Technological University of Nuevo Laredo in August to discuss the project and inquire about their interest in establishing an environmental organization through Keep America Beautiful. Keep Laredo Beautiful has committed to pay membership fees for one year for the organization to be affiliated with Keep America Beautiful.
3.1.02		SDS Nuevo León and Municipio of Sabinas Hidalgo, Nuevo León	$47,000 US Dollar	Border 2020, BECC	Norma Rangel Sevilla, SDS, Nuevo León,	Analyze the generation of solid and "special	Project completed. The study was finalized in June 2015. More

	Characterization Municipal Solid Waste Stream & Diagnosis Regarding Generation/Management of Waste Study and characterize the municipal solid waste stream in Sabinas Hidalgo, Nuevo León. Analyze the generation of solid and "special management" of waste in six border municipalities in Nuevo León.				normaarangel@gmail.com 0115281 20 33-19-38	management" of six border municipalities and characterize the solid waste stream in Sabinas. Complete the study in 2015.	details of the study will be provided at a later date.
3.1.03	**Operation of an Electronic and Household Hazardous Waste Stockpile Center**	Municipality of Nuevo Laredo, Tamaulipas	$3.626 Million Pesos MX	Municipality of Nuevo Laredo, Tamaulipas	Arq. Carlos de Anda Secretario de Obras Públicas, Desarrollo Urbano y Medio Ambiente, cdeandah@hotmail.com	Develop a municipal infrastructure for stockpiling, managing, and disposing of electronic and hazardous waste.	The installations are finished. Only authorization from SEMARNAT is needed for operation, which is underway. It is possible for operations to commence in the last trimester of the year.
3.1.04	**Environmental Code for the Disposal of Construction Waste**	Municipality of Nuevo Laredo, Tamaulipas	The project is funded through money paid by residents for the management and processing of waste.	Municipality of Nuevo Laredo, Tamaulipas	Arq. Carlos de Anda Secretariat of Public Works, Urban Development & the Environment, cdeandah@hotmail.com	Generate an alternative for the community for the disposal of construction waste and mitigate clandestine dumping.	This project has operated continually and generated an important impact to the community. 123 pesos per cubic meter are paid when the waste is no greater than 2 cubic meters. If it is three to ten cubic meters the service cost 88 pesos. If it exceeds 10 cubic meters, in order to leave the program, 100 pesos are charged per cubic meter.
3.1.05	**Clean-up Campaign Keep Pharr Beautiful** Support monthly cleanup program Keep Pharr Beautiful with strong public outreach.	Public Works Department, City of Pharr	$20,000 US Dollar	Border 2020	Grace Gonzalez, Pharr Public Works Department, grace.gonzales@pharr-tx.gov	Reduce illegal dumping in residential and industrial sectors and encourage residents to take	The project has ended and the majority of their objectives were attained. Various public awareness events monthly clean-ups were organized. A workshop was organized for the

						responsibility for the beatification of their communities.	community about the reduction of clandestine dumping. The City plans to continue clean-up campaigns and environmental education activities.
3.1.06	**Alamo's Recycling TEAM Includes Everyone** Implement the Alamo's Recycling TEAM Includes Everyone (ARTIE) Project, which strives to enhance the management of solid waste in the city.	City of Alamo	$54,838 US Dollar	Border 2020	Melissa Gonzales, City of Alamo	Increase recycling efforts by at least 25%, increase awareness of non-point pollution and solutions and establish partnerships that will promote environmental stewardship.	Various presentations were organized in 12 different locations in different schools that reached 700 students. Bilingual signs about not littering were posted.
3.1.07	**Clean-up of Urban Solid Waste Disposal Site in Guerrero Tamaulipas**	SEDUMA, Municipio de Guerrero, Tamaulipas	$3.169 Millones Pesos MX	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Legalize and encourage compliance to NOM-083-SEMARNAT-2003, referring to the closing of disposal sites.	Project was certified by SEMARNAT and the documentation regarding adjudication of resources is in progress.
3.1.08	**Construction and Equipping of the First Phase of Type A Landfill in Río Bravo, Tamaulipas**	SEDUMA, Municipio de Río Bravo, Tamaulipas	$19.359 Millones Pesos MX	SEMARNAT PEF 2015	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Have adequate modern infrastructure for the final disposal of urban solid waste.	Project was certified by SEMARNAT and the documentation regarding adjudication of resources is in progress.

3.1.09	**Construction and Equipping of Type A Landfill in the Coal Deposit Region**	SEMA, SEMARNAT, Municipalities of Múzquiz y Sabinas	$25 Millones Pesos MX	SEMARNAT PEF 2015	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Conduct land studies. Under analysis before request for bids.
3.1.10	**Construction and Equipping of Inter-municipal Landfill in the Municipalities of Juarez and Progreso, Coahuila**	SEMA, Municipality of Juárez y Progreso	$8 Millones Pesos MX	PEMEX Hydrocarbon Fund	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Under analysis before request for bids.
3.1.11	**Construction and Equipping of Urban Solid Waste Residual Stations in the Municipality of Múzquiz, Coahuila**	SEMA, Municipio de Múzquiz	$8 Millones Pesos MX	PEMEX Hydrocarbon Fund	Oscar Flores, SEMA, Oscar.flores@sema.gob.mx	Construction and operation.	Under analysis before request for bids.
3.1.12	**RECOLECTRÓN Program** Recollection program for electronic waste within the municipalities.	SEMA, Municipalities Acuña, Allende, Nava y Sabinas	$2 Million Pesos MX	SEMA	Griselda Salas Alemán, SEMA, griselda.salas@sema.gob.mx	In 2015 collect 44.91 tons of waste. In 2016 collect 56.14 tons of waste.	To date 44.89 tons of waste has been collected.
3.1.13	**Responsible Disposal of Tires** Operation of a scrap tire disposal center. Utilizing three cuts volume and the accumulation of water which are breeding grounds for mosquitos (vectors for dengue fever) are reduced.	Municipality of Acuña, Coahuila	$12,000 US Dollar	Municipio de Acuña Coahuila	Biol. Carlos Alejandro Flores Diego, Director of Ecology, floresdiegocarlos@yahoo.com.mx	Develop a municipal infrastructure for stockpiling, managing, and disposing of scrap tires.	There is a regulatory framework that regulates management and a program underway for stockpiling, but an infrastructure is required for final disposal.
3.1.14		Municipality of Acuña, Coahuila	$12,500 US Dollar	Municipality of	Biol. Carlos Alejandro Flores Diego, Director de Ecología,	Develop a municipal	The regulatory framework was approved as well as an alteration

	Disposal of Electronic and Hazardous Waste Create a stockpile center for the special management of waste, in which			Acuña Coahuila.	floresdiegocarlos@yahoo.com.mx	infrastructure for stockpiling, managing, and disposing of electronic and hazardous waste.	to municipal regulations regarding the environment to approve an operating license for 6 months and certification of training workshops. Partnership with CECART#197 for certification.
3.1.15	**Scrap-Tire Management Program** Design and implement a state scrap-tire management program that includes valuation.	SEDUMA Tamaulipas	$ 400 Million Pesos MX	SEDUMA, SEMARNA, EPA	Biol. Jorge García, jgarciah@tamaulipas.gob.mx 834 1078291	Work with cities located on the northern border of the State to regulate a temporary stockpile system for used tires.	The State authorized the business, ECONEU of Reynosa, to operate the Recycle Plant and Scrap Tire Processor, of which they anticipate to break down 100,000 scrap tires annually.

Goal #4: Enhance Joint Preparedness for Environmental Response

Project N°	Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Objective 2: By 2020, at least eight (8) 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.							
4.2.01	**Update Cross-Border Contingency Plan** Develop a cross-border contingency plan for the Solidarity Bridge, involving first responders from Colombia (Nuevo León), Nuevo Laredo (Tamaulipas), and Laredo (Texas), recognizing that Colombia, upstream from the other two cities, is much smaller and yet shipments of hazardous materials in the area are currently directed to this bridge.	Laredo Fire Department, Civil Protection of Nuevo Laredo, and CILA, CODEFRONT, and the City of Laredo		EPA, COCEF, PROFEPA, and Protección Civil	Steve Landin, Laredo Fire Department, slandin@ci.laredo.tx.us 956-795-2150 Juan Ochoa, Protección Civil Nuevo Laredo, Juan.u8a@hotmail.com 01152867 712-46-35	Hold new meetings of the staff of the two cities in order to revisit the language of the draft revision and possibly develop alternative language and include Colombia in the plan.	The project is on hold because city council has not approved changes to language of the draft revision, intending to clarify that Laredo could not send personnel to respond to incidents across the border, but could assist in other ways.

4.2.02	**Hazardous Materials First Responders Binational Training in McAllen-Mission-Pharr, TX and Reynosa, Tamaulipas**	City of McAllen Fire department	$75,000 US Dollar	Border 2020	Juan A Gloria Jr, Deputy Chief McAllen, jgloria@mcallen.net 956 681-2540	Hold a System and Incident Command Training with firemen from McAllen, Mission, Pharr, and Reynosa.	The Fire Department in McAllen will coordinate and hold the workshop at the end of August.

Promote Cross-Cutting Efforts Related to Environmental Health & Environmental Education

Project N°	Project Title Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact(s)	2015-2016 Target	Progress Towards Target
Projects potentially related to some combination of air quality, water quality, water conservation, or waste management							
6.0.01	**Urban Forest Piedras Negras**	SEMA, Municipio de Piedras Negras, SEMARNAT	$ 15 Million Pesos MX	SEMARNAT	Alejandra Carrera, SEMA Coahuila, alejandra.carrera@sema.gob.mx	Construct an urban forest in the city of Piedras Negras the size of 15 hectares.	Ninety-four percent of the project is complete.
6.0.02	**Strengthening School Networks and Global Climate Change Surveillance "Casa de Tierra"**	SEDUMA, Gobierno Municipal de Reynosa.	$ 66 Million Pesos MX	Gobierno del Estado de Tamaulipas, SEMARNAT	Dra. Silvia Casas González, SEDUMA, silvia.casas757@gmail.com	Build, equip, and operate 3 "Casa de Tierra" to attend to the population in the northern, central, and southern areas of the State. 160 visitors annually.	CDT Victoria operating since December of 2013. CDT Reynosa operating since January 2015. CDT Madero in the final phase of construction.
6.0.03	**Extension of Environmental Management Systems Program** Extend Tamaulipas' state program in promoting environmental management	SEDUMA Tamaulipas	$ 300,000 Pesos MX	SEDUMA, Empresas IP, Participants	Dra. Silvia Casas, SEDUMA, silvia.casas757@gmail.com	Reach out to 100% of the border cities.	SIMA enrolled more than 90 schools in Matamoros, Tampico, and Victoria. Each school held workshops on water, waste, and energy efficiency, reaching a

	systems (SIMA) to more schools and government offices.						total of 26,000 students. Schools received equipment. SIMA trained 1,800 state employees in water conservation, energy efficiency, and recycling. State offices received water filters and energy-efficient light bulbs.
6.0.04	**Planning of Health & Environmental Information Model Along TX-MX Border** The development of a conceptual framework for a bi-national environmental and health information repository.	El Colegio de la Frontera del Norte	$39,875 US Dollar	Border 2020	Dr. Felipe Uribe, COLEF, ursafeja@gmail.com 878 782 7207	Identify required tools and capacities, compare existing systems, identify and recommend training or educational needs, and develop an indicator system to measure environmental health.	A theoretical framework in order to identify information on health and the environment was developed. Different key contacts were interviewed. Information was obtained about health and environmental indicators through the elaboration of Memorandums of Understanding between academic institutions involved in the project and the respective Secretariats of Health and the Environment from Coahuila State.
6.0.05	**Promotora-Led Environmental Health Education for Children** Support the development of an integrated approach for educating families on the dangers of exposure to mercury, lead, and pesticides, especially the effects on respiratory health, specifically asthma. These modules will be used to provide training to heath promotoras, who subsequently will provide educational information in elementary schools, child care settings and to colonia residents.	La Amistad AHEC and Southwest Border AHEC	$69,083 US Dollar	Border 2020	Rosa Elvira Martinez, Southwest Area Border Health Education Center, rose.martinez@swbahec.org (830) 758-1111	Conduct training and provide educational information on pesticide awareness to elementary schools and homes in colonias.	As of July, promotoras had conducted visits to two elementary schools and one head start to educate children on hazards related to pesticide exposure and household chemicals. Promotoras also conducted training on pesticide awareness in more than 30 homes and post-assessments in seven homes, with 23 of them expected to be evaluated in the fall of 2015.