

REGION 6 2 Year Action Plan (2017-2018)

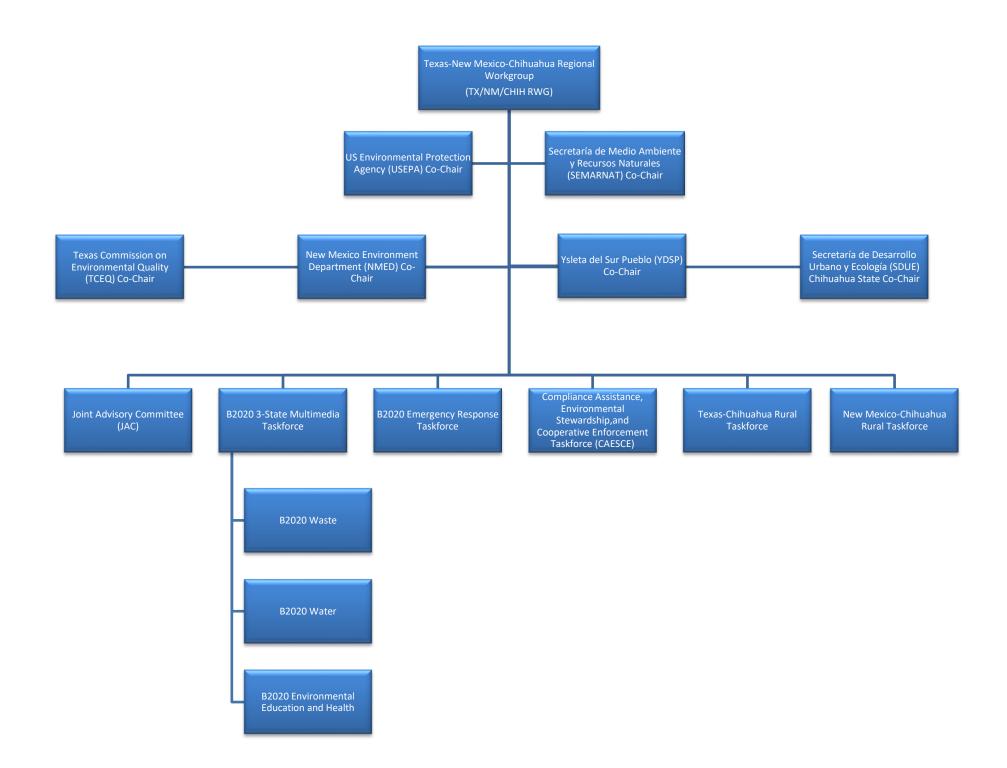
Texas – New Mexico – Chihuahua Regional Workgroup (TX/NM/CHIH RWG)

The Texas- New Mexico-Chihuahua Region stretches approximately 500 miles (800 km) along the international boundary from the Coronado National Forest to Big Bend National Park and includes the following major sister cities: Columbus-Palomas, Las Cruces-El Paso-Ciudad Juárez, and Presidio-Ojinaga. This region is a part of the Chihuahua Desert ecosystem that is primarily comprised of arid to semi-arid biotic communities and is home to the second largest community along the U.S.-Mexico Border known as the Paso del Norte region. The Paso del Norte region is made up of the fastest growing desert cities (Ciudad Juárez, El Paso, and Las Cruces) that share the same limited water resources. Almost two million residents live in the urban and semi-urban area. This population forms an important part of the growing binational economy of the region.

Federal, State and Tribal Partners from the U.S. and Mexico serve as the Co-Chairs of the TX/NM/CHIH RWG (see Organizational Chart). The Co-Chairs support local Taskforce efforts and coordinate activities at the regional and local levels. Among other responsibilities, Co-Chairs encourage open dialogue and public participation, leverage resources to achieve program goals, help ensure concrete measurable results, and recommend issues beyond regional scope to be addressed by the Policy Forums. The US EPA El Paso Border Office staff, together with Program Partners help coordinate the Tri-State RWG activities and reports to ensure transparency and timely access to environmental information. The multiple taskforces within the regional workgroup are the foundation of the RWG that encourage local decision-making, priority-setting and project implementation to solve the border region's environmental problems. The taskforces help promote awareness and education on environmental issues, and coordinate efforts with community residents, governmental agencies, universities and NGO's on both sides of the border, in both the urban and rural communities.

The Texas-New Mexico-Chihuahua Regional Workgroup is comprised of the following taskforces:

- 1. Joint Advisory Committee (Goal 1)
- 2. Border 2020 TX/NM/CHIH Water Taskforce (Goal 2)
- 3. Border 2020 TX/NM/CHIH Waste Taskforce (Goal 3)
- 4. Border 2020 TX/NM/CHIH Emergency Response Taskforce (Goal 4)
- 5. Compliance Assistance, Environmental Stewardship, and Cooperative Enforcement Taskforce (CAESCE) (Goal 5)
- 6. Border 2020 TX/NM/CHIH Environmental Education Committee (Multi-media)
- 7. Border 2020 TX/NM/CHIH Environmental Health Committee (Multi-media)
- 8. Border 2020 New Mexico-Chihuahua Rural Taskforce (Multi-media)
- 9. Border 2020 Texas-Chihuahua Rural Taskforce (Multi-media)



Projec t #	Description of Project	Collaborating organizations	Anticipate d Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status (Complete; Ongoing; New)	Target for 2017-2018
GOAL 1	L: REDUCE AIR POLLUTIO	ON						
-	e 1: By 2020, reduce the num as at ports-of-entry through a	nti-idling and othe	er feasible redu	uction measu	ures.	· ·	vehicle emissions stand	ards, and reduce vehicle
1-1	Promote the State of Chihuahua Vehicle Emissions Inspection Program (VEIP)compliance; Strengthen Juarez's VEIP as a consequence of State of Chihuahua's VEIP Program implementation	City of Juárez Ecology (DGE) VEIP and State of Chihuahua Ecology and Urban Development Secretariat (SDUE)	10 Dollars per vehicle inspected at cost to vehicle owner	Private vehicle owner and Governm ent Ecology Departm ent of Ciudad Juárez	Margarita E. Pena P, City of Juarez Ecology Director and Gilberto Wenglas of State of Chihuahua Ecology Director, SDUE	200,000 vehicles to be inspected leveraging that the State of Chihuahua VEIP would strengthen compliance, improving enforcement performance by the City of Juárez on the Vehicle Emission Inspection and Maintenance Program (VEIP) program.	Ongoing program, During 2015, the first year of a State - wide implementation 113,335 vehicles were inspected throughout State of Chihuahua, other than those inspected in Juarez. In 2017, more than 200,000 vehicles were inspected by the Cd. Juarez VEIP.	 a) Implement PROAIRE VEIMP measure prioritized by State of Chihuahua's action plan adding border cities other than Ciudad Juárez. b) Have all vehicles registered in the State of Chihuahua comply with the VEIP.
1-2	Freight Shuttle System (FSS) between Ciudad Juárez and El Paso. A privately funded and operated freight transportation system aimed to relieve a highly congested international freight corridor at existing POEs. The completely automated and controlled system at a central command,	Cook Strategies Group and Freight Shuttle International; a Director of City of El Paso Streets Departments and POEs, JAC; INDAABIN, Mexico's SCT,	8 to 10 million per mile, estimated total of 140 to 150 million.	Privately secured by partners, investors and users	Bob Cook, Stephen Roop, Freight Shuttle	On-Going. The FSS is currently being tested at Freight Shuttle International (FSI) Test and Evaluation Center in Bryan, TX	Ongoing, once a full-scale Alpha prototype was completed in 2016. FSS was configured to carry a 53 or 54- foot truck trailer like the ones used in cross-border settings for international trade.	The Alpha vehicle was further refined in 2017 with a Beta system that would put ready to manufacture commercial deployment. FSI will also begin process of commercial deployment through its project development team and will initiate the permitting process required for right-

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	increases safety and security, reducing wait time at POE, improve air quality, etc.	www.freightsh uttle.com						of-way access and construction. Project financing has initiated as of 2017, with intent of deploying a system starting in 2018.
1-3	Zaragoza POE Frontera-21 Lane. Expand the use of dedicated lanes for Trusted Trade to other US – Mexico commercial Ports of Entry (POE) to minimize or eliminate unnecessary wait times for trusted trade.	El Paso – Juárez Private Public Partnership, INDEX, Border Mayors Association; City of El Paso; DHS and Science and Technology company SecureOrigins	\$250,000	Private Sector	Bob Gray, of SecureOrigins	Integration of Supply Chain and Security at US-Mexico Commercial Ports of Entry. Approach will continue to expand to all US – Mexico Commercial Ports of Entry.	Ongoing Frontera- 21 Lane is in operation since 2013 attaining an estimated wait time reduction of 30 minutes for a trusted trade freight truck. Segmentation of trusted trade concept is expanding to other ports.	Validation of cross-border commercial shipment integrity, combined with a detailed assessment of benefits to increase participation in Trusted Trade and efficient cargo processing expanding to other Border POE, among them Tijuana-San Diego and Nuevo Laredo – Laredo.
-	e 2: By 2020, reduce pollutan Norte (El Paso / Juárez / Sun		er to approach	n attainment	of respective nat	ional ambient air quality	standards in the follow	ing air-sheds:
1-4	Cd. Juarez's PROAIRE (equivalent to-SIP) Air Quality Improvement Management Program's measures included in	Chihuahua and Cd. Juarez's government administration SEMARNAT;		State of Chihuahu a, SDUE, SEMARN AT, and	Luis Felipe Siqueiros, Gilberto Wenglas of State of Chibushus	Identify those PROAIRE measures that apply to border metropolitan air- shed to leverage on activities that are	Ongoing PROAIRE measures to go through 2026. PROAIRE publication	Start implementation of State of Chihuahua PROAIRE. Status report and
	Chihuahua's PROAIRE 2016–2025. Address's cost–effective measures that would effectively	COESPRIS; USEPA; JAC and academic institutions;		correspo nding Municipa I Ecology	Chihuahua SDUE, Ramiro Barrios C. of DGGARETC,	activities that are part of the JAC Strategic Plan and or those that the City of	already complete, SDUE continue presenting progress at each JAC	document sessions to be presented at each of 2017 -2018 JAC meetings.
	reduce air emissions. Implement measures that	State of Chihuahua Government		Administ ration	Margarita E Pena P, Jorge Arturo Garcia,	Juarez Projects are being implemented.	meeting.	Evaluate effectiveness of measures in PROAIRE, at end of each calendar year.
	apply to Ojinaga, Ascension and Janos,	(SDUE)			Luis Carlos Renteria,			

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	Chihuahua included in the State's PROAIRE				respectively of City of Juarez, Ojinaga and Ascension Ecology Department.			
1-5	Brick–kilns emissions reduction, assessment of risk of exposure by 2017. Relocate brick-kilns in MX border cities, to an appropriate location away from populated neighborhoods, with MK2 design used for construction of new brick-kilns.	Federal, State, Municipal government administration partnering with brick makers' association and academic institutions of UACJ, and Chihuahua- SDUE	\$ 600,000	PYMES, Border 2020	Alba Yadira Corral Avitia, UACJ, Gilberto Wenglas SDUE	Risk Assessment of exposure, City and State consent on authority and collaborative efforts on inspections, surveillance and coordinating enforcement in conjunction with City Police when required. Similarly elaborate compliance agreement with brick making neighborhood on firing Schedule	Ongoing, Construction of Modified Brick Kilns Design known as MK2 is now being used throughout the Country of Mexico.	Brick Kiln neighborhood relocation with substitution of traditional kiln to EBMK2 with coordination by State of Chihuahua (SDUE) and Cd. Juarez's Ecology authorities supporting applicable Land Use and Urban Planning accordingly to study findings and technical strategies presented by Juarez's Autonomous University PIs with active participation by Brick Makers' sector.
1-6	Influence public policy and agencies to promote holistic best-management practices on rural areas to improve urban air quality by mitigating particulate matter during high wind events.	NMDOH–OBH, NMED, SEMARNAT; Junta Municipal de Agua in Palomas Chihuahua;	Currently on a 2015, B2020 BECC Grant,			Follow up Holistic best management practices that resulted from three workshop held in Columbus, Palomas and at Ascensión - Janos including cattle	Near Completion as per B2020 Grant project commitment. The Cattle Ranchers Association and both US and	Provide support NM-OBH's binational study, jointly with US-Mexico B2020 Air Policy Forum. Final report, map and follow up activities will be

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		City of Las Cruces; NMSU, City of Ascension, Northern Chihuahua Cattlemen Association, Texas A&M University- Kingsville, USDA, NRCS Las Cruces office, and BLM Las Cruces office of NM State Climatologist, and NMED				ranchers as well and their outcomes on environmental variables such as air quality, wind erosion, Carbon sequestration, soil cover, and ground water levels.	Mexico's PIs within the University are continuing work focused on a holistic - best management practices on cattle ranches, to adjust actual management practices. Strategy's best environmental variables' management practices are to be monitored at 9 cattle ranches in Ascensión, Chih. and Van Horn, TX.	placed on the project's website at: <u>http://nmborder.nmsu.ed</u> <u>u</u> and at <u>http://border.nmsu.edu</u> As PIs conclude monitoring a base-line for the 9 participating ranches, it will be the start of phase 2 by continuing monitoring the environmental variables and continue the periodic coaching meetings with ranchers.
1-7	Reduction of emissions- collective transport infrastructure The project consists in developing a study and the final design for the collective transportation and infrastructure associated in the International Port of Entry "Paso del Norte", with the aim of	Instituto Municipal de Investigación y Planeación; BECC – EPA Grant	Total: \$105, 640 (61,220 from B2020)	Border 2020 Grant	Roberto Mora Palacios/ Nicolás López <u>nlopez@imip.</u> <u>org.mx;</u> <u>imip@imip.org</u> .mx	Outputs: Vehicular classification, transportation survey; model of micro simulation and model of emissions in the scenarios with the project and final design. (Pending TAA and final workplan)	New – funded under FY2017 B2020 RFP	New – funded under FY2017 B2020 RFP

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	substantially reducing							
	crossing times.							
Objectiv	e 3 : By 2018, maintain effect	ive air monitoring	networks and	provide real	-time access to ai	r quality data in: Paso d	el Norte Airshed; Any a	dditional binational airshed
that is de	esignated as non-attainment	for U.S. or Mexica	in air quality st	andards pric	or to 2015.			
1 - 8	El Paso–Juarez–Dona Ana County Air Monitoring networks.	JAC Air Quality Data Working Committee,	55,000 per year, line item within	SEMARN AT INECC,	Luis Felipe Siqueiros, State of	Juarez's Air Quality Monitoring Network assessment, repairs,	Ongoing Discussions of JAC's	Establish mechanism for sustainable means of financial support for
		USEPA; TCEQ;	City of	City of	Chihuahua	upgrade, and	Technical AAQM	consumables and
	Deploy, maintain, and	SEMARNAT –	Juarez's	Juarez	SDUE; Victor H	internet installment	committee in	continuous operation,
	operate the air quality	INECC, City of	budget	Ecology	Paramo,	improve connection.	support of Juarez's	maintenance and
	monitoring network	Juárez Ecology		Departm	INECC; Ramiro	On August 9, 2018	Air Quality	calibration of AQMS.
	designed to measure,	Air Quality		ent,	Barrios C	the participating	Monitoring	
	Ozone, Carbon Monoxide	Program, El		TCEQ,	SEMARNAT	institutions and	department,	Recommend
	and Particulate Matter	Paso Air		JAC and	DGGCARETC,	experts had a kickoff	Mexico's National	establishment of new
	between 2.5 and 10	Quality;		EPA	Eddie	event led by Juarez's	Ecology Institute	monitoring sites in areas
	microns, as well gathering	Program, and			Moderow	Mayor, after	and Climate Change	where data is needed to
	Meteorological data	Ciudad Juárez			TCEQ,	completing a training	INECC; on a process	demonstrate impact to
		Ecology			Margarita E	of Juarez's Technical	of for submitting a	communities.
		Department			Pena P, at	operators. A report is	comprehensive	
		Head.			Juarez's	presented at every	series of	
					Ecology, Guy	JAC meeting, by the	recommendation	
					Donaldson and	Air Quality Technical	that include annual	
					Carlos Rincon R6 EPA - JAC	Committee.	financial support needed.	
1-9	Improve Juarez's Air	State of	\$325,000	SEMARN	Luis Felipe	Project On-going.	An on-going,	Identify means of financial
1 5	Quality Monitoring	Chihuahua	\$323,000	AT	Siqueiros,	Taking into	technical team work	support for consumables
	Network and expand	Executive		INECC,	State of	consideration	on establishing a	and continuous operation,
	monitoring geographic	Administration		City of	Chihuahua	outcome of EPA's	sustainable	maintenance and
	coverage and its	City of Juarez's		Juarez	SDUE; Victor H	Intern document, the	mechanism that	calibration of AQMS.
	analytical capabilities;	government;		Ecology	Paramo,	Juárez's Ecology	would assure	
	enhance and advance on	State of		Departm	INECC; Ramiro	Department is	continuous	Assure annual source of
	quality of data and public	Chihuahua		ent,	Barrios C.	following up on	monitoring	funding included in the
	notification measures.	Congress; The		TCEQ,	SEMARNAT	findings and have	operation, data	2017 budget proposal for
	Encourage and promote	State of		EPA,	DGGCARETC,		analysis, QA/QC and	an Air Quality Project to be

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	to the State of Chihuahua, applying for federal funding available to states (State Financing Program or Presupuesto de Egresos de la Federacion (PEF)).	Chihuahua Government, and Ciudad Juárez Ecology Department		JAC	Eddie Moderow TCEQ, Margarita E Pena P. at the Juarez ecology department	done various visits to the CAAQMN sites, During 2015 State of Chihuahua's PROAIRE a proposed network and technical capabilities will be included in the Air Quality section.	making public air quality information.	financed by local, state and federal mechanisms of source of funding.
1-10	Maintain operation of Rural Areas binational air quality monitoring network for consistent reporting to community of the PM ₁₀ levels, as well as other priority contaminants, as established under the NMDOH-OBH funded the Binational Air Quality Assessment	EPA; NMED; NMDOH-OBH; SEMARNAT; Consortium of NNMSU-UTEP- UACJ-Desert Research Institute; Junta Municipal de Aguas in Palomas, Chihuahua; National Weather Service Santa Teresa office; NMED, NMDOH and NMSU	\$20,000Co- funding	NMED Border, with co- funding from NMDOH- OBH	NMED Michael Baca, NMDOH Freida Adams, and NMSU Dave DuBois	New effort to predict the onset of windblown dust through sensor development and dust storm weather pattern climatology for the border region. Findings and recommendations by NM Climatologist allows for a binational AQ monitoring and information reporting to be included in the PROAIRE.	Ongoing analysis to map and monitor the sources of windblown dust in the three states.	Integrate air quality monitoring efforts, data sharing and reporting among state and local authorities and universities of NM, Northern Chihuahua and West TX. Make data available on Internet and other appropriate public access outlets (including mass and social media) in all three states. Assessment of climatological and meteorological phenomena; inventory & characterization of sources of Particulates during extreme weather events.
1-11	<u>El Paso Ceilometer:</u> Instrument to measure the cloud-base height, vital in understanding the	TCEQ, UT Center for Energy and Environmental			Dr. Dave Sullivan, UT- CEER, <u>sullivan231@</u>	Start – up This project will purchase, install, operate, and	Ongoing	Quality assurance documents are effective. The monitor was installed in August 2016 and is

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	development and dispersion of pollutants.	Resources (CEER)			mail.utexas.ed <u>u</u> Eddie Moderow, TCEQ, eddie.modero w@tceq.texas. gov	analyze data through 08/31/2017	Operate monitor and analyze date through	collecting data. The ceilometer is located next to the radar wind profiler for data comparison.
1-12	<u>El Paso Radar Wind</u> <u>Profiler:</u> a radar wind profiler measures wind speed and direction at various elevations above ground.	TCEQ, UT Center for Energy and Environmental Resources (CEER)			Dr. Dave Sullivan, UT- CEER, <u>sullivan231@</u> <u>mail.utexas.ed</u> <u>U</u> Eddie Moderow, TCEQ, <u>eddie.modero</u> <u>w@tceq.texas.</u> <u>gov</u>	Start – up trails by 09/2017, install, operate, and analyze data through	Operate monitor and analyze date through 8/31/2017	Quality assurance documents are effective. In 2015 the monitor was relocated from UTEP to the Socorro / Hueco site. The monitor is collecting data and staff are analyzing the data and comparing to the ceilometer data.
1-13	Binational Diesel Emissions Reduction Training Program: partner with binational trucking companies to develop training modules for drivers of drayage and heavy-duty diesel trucks in the El Paso-Ciudad Juárez area	TCEQ, Texas A&M Transportation Institute (TTI),			Reza Farzaneh, TTI, <u>Reza.Farzaneh</u> <u>@tti.tamu.edu</u> <u>E</u> ddie Moderow, TCEQ, <u>eddie.modero</u> <u>w@tceq.texas.</u> <u>gov</u>	Develop a training module for drivers of drayage and heavy- duty diesel trucks in the El Paso – Ciudad Juárez area to reduce fuel consumption emissions	Ongoing, as per TTI's reference and POE back ground studies.	An initial analysis of emission reduction strategies for drayage and heavy-duty diesel trucks at Ports of Entry has been completed. TTI is developing the training materials and will begin collecting baseline drive cycle data on the drayage trucks

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1 – 14	Binational Air Quality Monitoring: collaborate with stakeholders in the Paso del Norte to improve air quality monitoring in the region. Complete necessary maintenance to the network in Ciudad Juárez	Ciudad Juárez Ecology, TCEQ, EPA, SEMARNAT, SEDUE, Ysleta del Sur Pueblo, City of El Paso.			Eddie Moderow at TCEQ, <u>Steve.niemeye</u> <u>r@tceq.texas.</u> <u>gov;</u> <u>eddie.modero</u> <u>w@tceq.texas.</u> <u>gov</u>	Complete updates to network, maintain quality control, data collection and reporting to public.	Ongoing As per outcome from JAC's AQ Monitoring Technical Work Team committee, As per RWG biennial planning meeting held at YDSP on 02/14/2017	Funds have been identified to complete upgrades to network.
1-15	Air Quality and weather climatic Network UACJ.	Universidad Autónoma de Ciudad Juárez, Chihuahua México (UACJ)	Total: \$39,400 (29,400K from Border 2020 Grant)	Border 2020 Grant	Víctor Hernández Jacobo; <u>vihernan@uac</u> j.mx	Seek to provide access to climatic data series from 8 Paso del Norte air basin's Stations in order to improve characterization, support an alert network to report on environmental quality conditions. Additionally, seek to provide a real-time visualization of impacts under certain environmental and meteorological conditions, during times of waste fires, vehicular traffic and other emissions, in	New – funded under FY2017 B2020 RFP	New – funded under FY2017 B2020 RFP

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Objectiv	7e 4: By 2015, support compl	etion of, climate a	ction plans in e	each of the si	ix northern Mexic	support of the Air Quality Program's management mechanisms on a permanent basis an Border States (as appr	opriate), and build the r	ecessary capacity for
sustained	l implementation.		-					
Objectiv	e 5: By 2020, reduce emissio		-		ficiency and/or al	ternative/renewable ene	rgy projects.	
1 - 16	The Ysleta del Sur Pueblo (YDSP) will reduce particulate matter by improving dirt roads on the Tribal Ranch	YDSP Environmental Department	\$25,000	Tribal Funding & NRCS CSP Program	Evaristo Cruz and Barbra Valdivieso at YDSP	On-going; The Pueblo has been in contact with Terry McMillan who is a vender of this surface hardening product and will be scheduling a trip to the ranch to look into application possibility	The Ranch roads have been managed with caliche but the surface has not been treated with any soil hardening material as planned. The pueblo has used a similar product to treat parking areas that are used to service the Speaking Rock entertainment center.	The Pueblo continue to review this project and identify funding sources. Identify portions of YDSP - ranch that would greatly benefit from this application and look at cost for the application, aimed toward dust abatement by hardening the soil.
1 - 17	Reduce Ysleta del Sur Pueblo (YDSP) carbon footprint through energy efficient retrofits at tribal government buildings including at HVAC systems and energy efficient glass	YDSP Environment Department;	\$280,000	Tribal Matching funds & EPA Region 6 Air program	Evaristo Cruz and Barbra Valdivieso at YDSP	The administration building has installed double paned weather proof windows and LED lighting for all offices.	Completed. EPA's energy star, YDSP manager, setup to expand portfolio at government building s and bench marking will begin this year.	The Pueblo is continuing to work with EPA Portfolio manager in logging energy utilization data Retrofit administration buildings with weatherized windows to improve the energy efficiency.
1-18	Reduce YDSP Carbon Foot Print by converting water wells to run of solar	YDSP Environmental	\$30,000	Tribal Funding &	Evaristo Cruz and Barbra Valdivieso at	The Ranch has so far, retrofitted 5 wells with solar panels,	Ongoing	The Pueblo will begin benchmarking to empirically identify cost

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	panels rather than generators or local electric grid.	Department; NRCS/USDA;		USDA/NR CS EQIP program	YDSP, Santana Villa (NRCS/USDA)	improving energy saving and reducing carbon footprint.	An addition of 2 wells have been retrofitted with solar systems.	savings and energy savings.
1-19	Alternative source of energy with a solar farm and solar panels at Presidio rural community, as well at Columbus – Palomas Port of Entry facilities.	City of Presidio Economic Department and City Manager, Brad Newton and Jose Portillo, school district.				Optimum generation, distribution and use of Solar Energy farm and extend its program by installing solar panels at Public buildings within Presidio, and it's just to start Columbus – Palomas Port of Entry.	Complete Solar farm in operation producing energy that its transported to Marfa; City of Presidio would seek extending use of alternative source by installing solar panels at public buildings including at Schools.	Presidio inhabitants to leverage on energy generation at solar farm and extend throughout every school and other public services facilities by installing solar panels.

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Goal 2:	Goal 2: Improve Access to Clean and Safe Water										
Objectiv	Objective 1: Increase the number of homes connected to safe drinking water and adequate wastewater treatment.										
• Objective 1a: By 2015, provide at least 8,500 households with access to safe drinking water. Revise target every two years.											
• Objective 1b: By 2015, provide at least 39,000 households with access to adequate wastewater sanitation. Revise target every two years.											

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2-1	RWG adopts Water Policy Forum 2-year work plan for target #s	See Water Policy Forum work plan	See Water Policy Forum work plan	Water Policy Forum work plan	See Water Policy Forum work plans	See Water Policy Forum work plan	See Water Policy Forum work plan	See Water Policy Forum work plan
2-2	JMAS Projects:	JMAS, NADB, State of Chihuahua	\$25 Million USD	JMAS	Ernesto Moreno or Manuel Herrera, of JMAS	Repair / replace sewers drains or collectors Construct drinking water plant at 30km Program to install water meters Start a team for repairing wells and pumps Cogeneration plant will go online to help produce 20-40% of the energy needs of the South Juárez Plant	Just initiating with 2017 funds.	Continue to implement Implementation of Juárez Water Master Plan 2012- 2030 & Meet landmark of 100% treatment of waste water. Implementation of plan includes finding new avenues of energy such as photovoltaic/solar for the South-South plant, new water sources, reduce water per capita consumption. Develop the concept of tertiary treatment for reinjection into the aquifer, and set baseline indicators for a water plant, which was postponed temporarily. South-South treatment plant will be expanded to serve new regions of the city. Agricultural farmers continue to use treated wastewater for fields Drought Conditions. When drought conditions and water shortage persist, emergency

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								actions will include stopping water service during some nights and eventually programmed allowanced to save water and have fewer incidents of "no water" at home water intake due to severe drought and technical problems.
2-3	Title XVI WaterReclamation and ReuseAwards:Construction of EPWUWastewater Diversionfrom Haskell StreetWastewater Plant to FredHervey Water ReclamationPlant (aka Fred HerveyPurple Pipe Project)	El Paso Water Utilities and Bureau of Reclamation	\$1.2M	Federal	Woody Irving or Yvette McKenna	Final design/Engineer selection	Open (awarded)	Complete by Dec 31, 2018
	EPWU Research Study for Feasibility of Water Recovery from Filter Backwashing and Rewashing Operation	El Paso Water Utilities and Bureau of Reclamation	Federal \$10,600 / non-federal \$33,143	Federal /non- federal	Woody Irving or Yvette McKenna	Start-up/Testing	Open (awarded) Complete by Oct 31, 2017	
2-4	El Paso Water Utilities Projects (EPWU)	EPWU	Varies per task	Various (IMP, WSRC IMP, Impact Fee, CP, Grant,	Mr. Hector Gonzalez, EPWU	EPWU is in process of identifying design funds so that treated effluent to drinking water standards at the Bustamante Plant can be used as a	Continuing efforts that started in 2016.	To meet the demands of growth both inside and outside the city, several projects are included in the FY 2017-2018 capital budget. One of these is the continued acquisition of land for water

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				Bonds,		source of drinking		
				CIA)		water in the future		importation project with
								projected expenses of
						Water system		\$107.0 million and new
						improvements:		SWIFT funding of \$50.0
						- \$15.6 million to		million.
						construct three new		- Complete the
						elevated storage		construction of four
						tanks and one		reservoirs in the
						ground reservoir, and		northeast, central and
						structural		eastside of El Paso.
						improvements to one		These tanks will be
						ground reservoir		built over two years at
								an estimated cost of
						- \$7.3 million for new		\$26.0 million of which
						distribution water		\$6.5 million will be
						lines and pumping		spent during FY 2017-
						equipment, and		2018.
						\$20.5 million in		- A drought-proof
						rehabilitation of		supply. An advanced
						existing water		purified water plant
						infrastructure		will be designed to
								produce drinking
						- \$5.3 million for		water.
						water plants		- The Utility budgeted in
						upgrades and		FY 2017-2018 \$3.0
						emergencies		million for the
						5		preliminary thirty
						Wastewater		percent design with
						Improvement:		the goal of treating 10
						-\$5.1 million in new		MGD in the near
						collection systems		future for an
						and pumping		estimated
						facilities		construction cost of
								\$129 million.

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
						- \$22.0 million in		- The Utility included
						rehabilitation of		\$7.1 million to provide
						existing wastewater		emergency back-up
						infrastructure		power to major water
								facilities. This will be
						-\$2.4 million in		the sixth year of this
						reclaimed water		multi-year \$35 million
						facilities		project.
						improvements		- The capital budget
								also includes \$35.5
								million for wastewater
								rehabilitation projects
								which includes \$14.2
								million for
								improvements of
								wastewater treatment
								plants.
								- In addition, the budget
								includes \$3.2 million
								for the design of the
								relocation of water
								operations, dispatch,
								central control and
								customer service. This
								project was
								accelerated with the
								request from the City
								to relocate the Rescue
								Mission to our fleet
								maintenance location.
								- The Utility maintains
								the level of system
								rehabilitation and
								replacement, and
								compliance with

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
								existing and new federal and state regulatory mandates.
								For additional information on specific items: <u>http://www.epwu.org/pu</u> <u>blic information/reports/</u> <u>2017/Budget/PART7-</u> <u>CAPITAL%20IMPROVEME</u>
energy • Objec • Objec	ve 2: Help drinking water and efficiency, use water efficientl tive 2a: Incorporate sustainab tive 2b: Improve energy efficiency ctive 2c: Build operational, ma	y and adapt to clin le infrastructure e ency and efficient	mate change. Iements, as fea water use of dr	sible and a inking wate	opropriate, in U.S. er and wastewater	-Mexico Border Water In service providers in the	nfrastructure Program E border region.	BECC certified projects.
2-5	Water and Energy Efficiency Grants: EPWU WEEG for Potable Water and Energy Conservation and Savings from Secondary Membrane Treatment of Reverse Osmosis Concentrate (via installation of CERRO units at existing wellheads)	El Paso Water Utilities and Bureau of Reclamation	\$300K, 23% of cost share	Federal /non- federal	Woody Irving or Yvette McKenna	In design	Open (awarded)	Complete by Sept 30, 2018
	EBID Rincon Water Habitat Energy Nexus (WHEN) Grant for irrigation energy and efficiency	Elephant Butte Irrigation District and Bureau of Reclamation	\$809K, 41% of cost share	Federal /non- federal	Woody Irving or Yvette McKenna	In design	Open (awarded)	Complete by Sept 10, 2018

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
2-6	EPWU Projects	EPWU	Varies per task	Various (IMP, WSRC IMP, Impact Fee, CP, Grant, Bonds, CIA)	Mr. Hector Gonzalez, EPWU	- El Paso Water Utilities (EPWU) is currently doing a feasibility study to look into expansion of the desalination plant - EPWU and EWM are in the process of setting up an agreement such EWM would buy the salt produced by the plant, process it and then sell back any recovered water for EPWU for reuse	Ongoing.	FY2018, TBD from FY2017 actions.
2-7	Project development for introduction of drinking water to Presidio's growing service underserved community at Las Pampas Colonia,	City of Presidio Water Utilities, Public works department and City Manager	TBD	NADB and TWDB,	Brad Newton, Jose Portillo	Project development, cost analysis feasibility and promotion to potential source of funding	Move forward on project development details and put together for procurement of financial sources	Attain grant for construction.
2-8	Sewer water collection and underground pipe system rehabilitation to control and reduce leakage to protect groundwater and public health	Ojinaga Water Utilities (JMAS) and State of Chihuahua Water Board (JCAS), NADB	TBD	NADB, CONAG UA	Edwin Maldonado, J.T Obrien,	Project feasibility study and promotion up to BECC – NADBank as potential sources of funding	Development of Construction Engineering and Technical plan	Develop construction schedule and start rehabilitation construction subjected to attaining funding.
2-9	Rehabilitation of Water well with new pump equipment to the 5 th Drinking Water well system in Ojinaga	Ojinaga JMAS, Chihuahua JCAS,	\$20,000.00	JCAS and JMAS, CONAG UA	Bisyabel Niño	Project Cost Feasibility submission to Boards at JCAS,	Submit upon State Drinking Water and Sewer board (JCAS) engineering, financial feasibility	Rehab a 5 th well out of the 5 well-networks at Ojinaga, Chihuahua

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
2-10	Reestablish operation of 2 lift station pumps and bring back to its operational capacity the sewer system network	Ojinaga JMAS, Chihuahua JCAS department	\$50,000.00	JCAS and JMAS	Bisyabel Niño	Document Pump Info characteristic and financial institutions required information to proceed with Ioan / grant application	Open and have ready an official financial documentation for submitting a loan / grant application	Maintain at optimum operation capacity the lift sewer network as per system design (90 liters per second)
2-11 An Envir onme ntal Educa tion as well	Safe drinking water for US / Mexico border Colonias, Provide education on water quality and on low cost alternatives to treat drinking water to colonia residents in Ciudad (Cd.) Juárez and El Paso that do not have access to a safe public drinking water system.	UTEP; NADB- EPA B2020 Grant	120,668 of which 79,636 from B2020 Grant	Border 2020 Grant (Levera ged with and by UTEP	Ivonne Santiago (isantiago@ut ep.edu)	Outputs: They expectto engage at least300 colonia residentsin practical, technicalopportunities forimproving the qualityof water they drinkand increasing theirknowledge in waterquality issues.1) Conduct a focusgroup in a colonia inCd. Juárez.2) Perform twoseminars /workshops inColonias: one in Cd.Juárez and one in ElPaso on drinkingwater quality andPOUs.3) Collect a minimumof six water samplesfrom storagecontainers: threecolonias in Cd. Juárez	New – funded under FY2017 B2020 RFP	New – funded under FY2017 B2020 RFP

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
						 and three Colonias El Paso and analyze for bacterial and heavy metal contamination. 4) Provide POU systems to 5 -10 families on both sides of the border. Training on the appropriate use and maintenance of the selected POU will be 		
2-12	Green infrastructure in the Paso del Norte Region:	Municipio de Juarez; NADB- EPA B2020	\$46,500 of which \$31,000 are from B2020	B2020 Funded	Veronica Gonzalez, Resilience Department at City of Juarez	provided. Green infrastructure in the Paso del Norte Region: seminar, implementation guide: Training seminar-workshop for binational actors of the three orders of government, civil associations, undergraduate and graduate students and decision-makers involved with the issue of rainwater harvesting. And creation of a document Guide to Implementing Green Infrastructure in the	New – funded FY2017 B2020 RFP	New – funded FY2017 B2020 RFP

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
						Paso del Norte Region.		
Objecti	ve 3: Work binationally to ide	entify and reduce s	surface water co	ontaminatio	on in transbounda	ary waterbodies or waters	sheds.	
2-13	Water conservation with control of salt cider's evapotranspiration at Rio Grande / Bravo waterways	IBWC, CILA, CONAGUA, Bureau of Reclamation	TBD	IBWC – CILA, DOI and SEMAR NAT	Jose Nunez, Antonio Rascon,	Consent on integrated method of control, including Chemical Biological and Physical removal	Include portion of the river within DOIs and IBWC's program schedule, supporting schedule, by promoting project upon US – Mexico Water Policy Fora and water conservation institution	Removal of salt cider and development of control of the non-indigenous tree species
2-14	Fish and Wildlife Coordination Act: TX A&M for Planning and Implementation of Environmental Enhancements w/Paso del Norte Watershed Council	TX A&M AgriLife Research, New Mexico State University, Paso del Norte Watershed Council and Bureau of Reclamation	\$70К	Federal	Woody Irving or Yvette McKenna	Website improvements	Open (awarded)	Complete by December 2017

Goal	Goal 3: Promote Materials and Waste Management and Clean Sites										
Objec	Objective 1: By 2020, increase local and state-level knowledge and experience in the area of sustainable material management practices.										
3 – 1	3-1 Development of Regional State of Market shall Consum Luis Felipe Collection of 100% of Accomplished and State of Chihuahua										
	Integrated, solid waste	Chihuahua	define the	er and	Siqueiros,	used tires to be	has been included	legislative approved			
	management including	Administration	true value;	private	SDUE, Gilberto	recycled and rest at	in 5 goals and 3	guidelines,			
	permanent used tire	, as well by the	per used tire	sector	Wenglass,	final disposal projects.	thematic actions of	waiting Executive action.			
	management program.	Municipalities	disposal that		SDUE Ecology		used tire.				

				1	Disector Laws			
		of Cd. Juárez,	currently is	investor	Director, Jorge			As a demonstration the
	Establishment of	of Ascension,	collected to	S	A. Rodriguez A		Collection of 100%	Executive branch of
	guidelines for a market	Ojinaga, and	the		and Luis Carlos		and disposal of	government might want
	based permanent and	of Janos;	consumer		Renteria,		used tire in Juárez	to contribute and be a
	systematic used tire	Cement Group	\$2.00		respectively at		legacy tire pile,	team member of the
	management program that	(Grupo			City of		disposed of by	Used Tire Workshop's
	would incentivize private	Cementos de	In Ojinaga,		Ojinaga and		various projects.	workgroups that address
	sector partnership.	Chihuahua –	like in many		Ascensión			legislative, market-based
		GCC), joined	other rural		Municipality		Collection of used	initiatives envisioned to
		by private	communitie		Ecology and		tires at and	allow in promoting
		sector's	s, there is a		Public Service		disposal of 25,000	financing trust
		commerce and	legacy of		department,		of the Ojinaga	-
		economic	more than		and GCC.		legacy, and	Move forward by
		corporate	50,000 tires				disposal of the	implementing a business-
		associations.	that would				Ascensión used	driven project by private
			need				tires.	sector leveraging by
			\$15,000 to					executing actions
			dispose of					supported by the 5 Goals
			to a Cement					and workgroups that
			Kilns.					came out of the March
			11113.					2014 Used Tire workshop
								held in El Paso, TX
3 – 2	Establishment of collection	Chihuahua	A private –		Raul Rodriguez	Accomplished	Completed	Because there still the
52	center for household	government	public		City of Juarez's	Installment-operation	Collection Center	discussion of Household
	hazardous and toxic waste	administration	partnership		Departments	of a collection center	for E-waste, Solid	Hazard Waste and Toxic
	in Ciudad Juarez's	Municipalities	agreement;		of Public	in the municipality of	waste, and used	waste to be integrated in
	municipality Project	of Ciudad	agreement,		Service,	C. Juárez with the	tires accomplished.	Juarez's Waste
	include installment of a	Juárez,	Matching		Margarita E	principles of shared -	thes accomplished.	
		,	-		-			Management Plan;
	collection center in the	SEMARNAT,	fund by City Public		Pena P. City of	responsibility for		There is a need of a
	municipality of Ciudad	PROFEPA			Juarez Director	properly disposing		
	Juárez with the principle of		Services		of Ecology,	toxic and hazardous	A report by	coordinated action for
	shared responsibility for				Gilberto	waste generated at	REMEXMAR, has	establishing a collection
	properly disposing toxic				Wenglass, at	households including	identified the	centers program, which
	and hazardous waste				State of	e-waste, assuring	amount of solid	could be reached
	generated at households				Chihuahua	consensus on an	and household	between Ciudad Juarez's
	including electronic waste.				SDUE - Ecology	agreement with the	hazardous waste	Solid Waste Department
					Director,	State of Chihuahua, &	streams in	and the Civil Protection at
	Establishment of collection				Gerardo Tarin	Federal	Ascensión and	each of the 10 Fire
	center for household				at SEMARNAT	administration.	Janos.	Stations within Juárez.

	hazardous and toxic waste				and Lili			
	in Rural border	Chihuahua			Gonzalez at		A final report to be	
	municipality	government			PROFEPA	Identify current	presented by	Develop an integrated
		administration			-	amount of solid and	September 2014.	plan to properly separate,
	Project includes	Municipalities				household hazardous		classify and manage for
	installment of a collection	of Ascensión				waste streams in		both communities (Janos
	center in the municipality	and Janos,				Ascensión and Janos'		and Ascensión); including
	of Ascensión and Janos	SEMARNAT			Director	operations in order to		supporting them with
		REMEXMAR,			General of	develop an integrated		Workshop on the
		PROFEPA			Ascensión	plan to properly		integrated waste
					Public Service	separate, classify and		management plan.
					and Ecology,	manage waste.		
					State of	Carryout		
					Chihuahua-	Workshop on		
					Ecology	integrated waste		
					Director at	management.		
					SDUE			
					SEMARNAT,			
					Pilar Leal of			
					REMEXMAR,			
	FL 1 1 1			D · · ·	PROFEPA			
3 – 3	Electronic waste collection	Chihuahua	In Kind by Public –	Private	Gilberto Wenglas, State	In 2013, in Ciudad Juárez there were 150	Annual collection events every	E-waste Collection events are scheduled to occur
	fairs by carrying out a series of annual public	government administration	Public – Private		of Chihuahua-	tons of electronic	September	
	events organized by social	aummistration	Partnership		Ecology	waste collected. Such	collecting at least	yearly.
	organization to the	Municipalities	and		Director at	efforts have not	150 tons of E-	Also, there are plans for a
	community at large,	of Ciudad	Matching		SDUE; Gerardo	passed unnoticed and	waste.	formal US side of E-waste
	sponsored by private	Juárez,	fund by City		Tarin, at	the collection events	waste.	annual events, starting in
	sector entrepreneurial	SEMARNAT,	administrati		SEMARNAT	efforts are now also	Partially expanded	El Paso.
	initiatives jointly with	REMEXMAR,	on		SEIVINARIA	taking place at U.S.	to El Paso during	
	authorized companies that	coordinated	•			border cities starting	the tire amnesty	
	handle and manage	by social				in El Paso, TX.	days.	
	electronic waste.	organizations,				,		
		at Ojinaga and						
		at Rural						
		Communities						
		of Janos and						
		Ascensión.						

3 – 4	Promote to State	State of	No cost	Legislati	Luis Felipe	A legislative bill	Ongoing	Establishment of legal
J - 4	legislative branch updating	Chihuahua,	anticipated	ve and	Siqueiros,	proposal that would		statute to support trust.
	the Waste Bill to the State	legislative and	unterpated	Executiv	State of	allow matching	A legislation billed	As a demonstration the
	of Chihuahua that would	executive		e Office	Chihuahua	federal funds from	passed and also	Executive branch of
	mandate attributes and	branch,		of State	SDUE, Carlos	Ramo 16, Federal	addresses the	government might want
	instructs the executive	Municipalities'		of	Rincon, USEPA		creation of a Trust	to contribute and be a
		administrative		Chihuah	and U.S. and	Appropriation line item to finance	fund.	team member of the
	branch in writing its rules	and council			Mexico		iuna.	
	(REGLAMENTO) for	bodies.		ua	Rubber	annually actions from collection fees	The bill mandates	Used Tire Workshop's
	establishing mechanism for financial actions that	boules.						workgroups that address
					Association,	possible at each of the	and gives	legislative, market-based
	would create and					three states of the	attributes by	initiatives envisioned to
	strengthen institutional					region.	instructing the	allow in promoting
	capabilities at State and						executive branch	financing trust.
	Local levels for overseeing						to write its rules	
	compliance and enforcing						for establishing	
	waste management that						economic	
	impact and threatens						incentives end	
	public health, the						mechanisms for	
	environment and						private-public	
	ecosystem.						management of	
							waste that	
							threatens and	
							impacts the	
							ecosystem,	
							environment and	
							public health.	
3 -5	Municipal landfill	Ojinaga	To be	Ojinaga	Mayor of	Started process for	Continue	Attain closure paperwork
	sanitation site for solid-	Government	Determined	Govern	Ojinaga and	closing existing landfill		for existing landfill,
	waste final disposal for the	Administration		ment –	the State of	and acquisition of new	A Project team	submit project proposal
	Ojinaga, Chihuahua	jointly with		SDUE	Ecology	Landfill land	including the	to BECC for new landfill.
	Municipality and closure of	State of		and	Director at		Mayor's office, the	
	existing solid -waste	Chihuahua		BECC	Chihuahua		Public Works	
	landfill	SDUE, with			SDUE		Department Head	
		technical and					and a Senior staff	
		resource					person from SDUE	
		support by					have contacted the	
		BECC					Office of	
							SEMARNAT to	

							process closure of existing	
Object value.	ive 2: By 2014, identify prio	rity waste strear	ns and by 202	0 develop	sustainable mate	erial management pract	ices that strengthen	their respective market
3 - 7	Incorporated Solid Waste Technology into Solid Waste Management Plan for Cd Juárez, such as Solid Recovered Fuel (FROE for its Spanish) Technology Use of non – recyclable solid waste (Refuse Derived Fuel RFD) as alternate fuel by means of applying segregation, mixture and shredding technology of industrial non – hazardous waste.	Northern Chihuahua Cement Companies (known as Grupo Cementos de Chihuahua or GCC)	To be shared by Project PIs	Private (GCC) and Federal Govern ment through its Nationa I Council for Science and Technol ogy (CONAC YT)	GCC Grupo Cementos de Chihuahua,	In 2014 it was carried out Project design, and project proposal by the GCC Company's was submitted for Corporate support and to move it forward to the Federal Government CONACYT	Ongoing	Reach 10 % of Coal substitution by RDF technology using mainly: industrial waste like hard and soft plastic, paper, cardboard, textile and wood materials
3-8	Development of Executive Plan for Source separation of domestic waste for waste materials recovery in Cd Juárez	Juarez's Public Services, the Ecology, the Civil Protection departments teaming up with the State of Chihuahua SDUE and the B2020 Goal 3 Taskforce	To be determined	In Kind by City Public Services	Juárez Director General for Public Services, State of Chihuahua- Ecology Director at SDUE, GCC (FROEE Project)	Update existing or create ordinances and regulations for Public Works and Ecology; Coordination of an outreach and education program, apply for BECC certification, request a loan from NADBank.	Ongoing Attain an Executive Plan for waste separation passed thru by City Council	Waste Management Plan's regulation to be presented to Juarez's City Council and eventually establish the formerly integrated program into a Municipal Waste Management Plan
	ive 3: By 2020, improve kn	owledge at every						
Object	ive 4: On an annual basis, i	implement the bi	inational Cons	ultative Me	echanism on sha	ring information on bord	der area hazardous v	vaste facilities.
3 - 10	Improve updates of the binational Consultative Mechanism every two						Ongoing Consultative Mechanism	Update Consultative Mechanism in 2017

years sharing information on border area hazardous waste facilities.	updated June of 2014
waste facilities.	Agenda item for discussion on 2014
	Waste Taskforce Public Meeting.

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
	: Enhance Joint Prepared							
-	ve 1: Update, as necessary, th nism between Mexico and the		U.S. Joint Conti	ngency Plar	n and, on an annua	al basis, continue to evalu	ate and update the en	nergency notification
4-1	Update of Sister-City Plan Contacts	Emergency Response Task Force in El Paso/Cd Juárez/Sunlan d Park/Ysleta del Sur; Junta de los Rios; NM-Chih Task Force	No Cost	No Costs	Emergency Response Task Force in El Paso/Cd Juárez/Sunlan d Park/Ysleta del Sur; Junta de los Rios; NM-Chih Task Force	Updated contact lists of sister city plans: - El Paso/Cuidad Juárez/Sunland Park/ Ysleta del Sur Pueblo - Columbus – Palomas/ Ascensión; Presidio - Ojinaga	Ongoing	Updated at a minimum annually during 2017— 2018 in all three sister cities in the regional workgroup Focus: Presidio, TX – Ojinaga, Chihuahua
4-2	Bi-National Exercises (Test notification of sister-city plans, tabletop or full-scale exercise)	Regional Emergency Response				 a) PROFEPA Bi- National Exercise b) Test sister-city plan notification between El Paso, TX/Ciudad Juárez, Chih/Sunland Park, NM 	Ongoing thru the Year 2020	 a) PROFEPA binational exercises for 2017-2018; additional training for sister-cities b) Continue to test sister- city plan notification between El Paso, TX/Ciudad Juárez, Chih/Sunland Park, NM

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
4 – 3	Compliance Visit to Tier II Facilities in Dona Ana County, New Mexico	Dona Ana County Emergency Management	In-house	Dona Ana County Emerge ncy Manage ment	David Almaguer (Dona Ana County Emergency Management)	Site visits to Tier II Facilities began Aug. 2013 and is completed. Will continue to work with facilities to do an annual inspection after March reporting period. To ensure compliance with Tier II Reporting and 704 Compliance Program	Ongoing	Site visits will continue through 2017-2018, in order to ensure compliance with Tier II Reporting and 704 Compliance Program
4-4 Objective	 Build capacity, specifically binational training in emergency preparedness for: El Paso/Cuidad Juárez/Sunland Park/ Ysleta del Sur Pueblo Columbus- Palomas/Ascensión and Presidio - Ojinaga 	Emergency Response Taskforce in El Paso/Cd Juárez/Sunlan d Park/Ysleta del Sur; Junta de los Rios; NM-Chih Taskforce	TBD	TBD – possibly Border 2020 Funds	Emergency Response Taskforce in El Paso/Cd Juárez/Sunlan d Park/Ysleta del Sur; Junta de los Rios; NM-Chih Taskforce)	Ciudad Juárez Civil Protection built capacity with Praxedis G. Guerrero to build up fire and medical services. Will do same with Guadalupe and Villa Ahumada municipality.	Ongoing	Trainings to include FEMA courses, 40-Hr Hazwoper; Radiation, etc.
AT REG	5: Enhance Compliance A ive 1: By 2020, strengthen effected to the strength	ssurance and E	nvironment a	al Stewar n U.S. and I	dship Mexican agencies	regarding the movement	of hazardous waste ad	cross the border and its
5-1	Cross-border Surveillance and coordination of movement of hazardous materials, while strengthening plant protection sanitary	Mexico's Customs and US DHS Border Protection agency, PROFEPA - SEMARNAT,	NA	NA	Lilia Gonzalez of PROFEPA, USEPA Carlos Rincon, Gerardo Tarin SEMARNAT,	Inspections to cross border movement of hazardous materials, and exchange of specific cases that need enforcement of environmental rules	Continue There are quarterly meetings between federal, state agencies such as CDC, EPA and	Continue with Trade – Commerce enforcement agencies inspections and revisions to cross border movement of hazardous materials;

Proje ct #	Description of Project	Collaborating organizations	Anticipated Cost for 2017-2018 Targets	Source (s) of funding	Points of Contact	Target for 2017	Status Continuing and or Ongoing	Target for 2017-2018
	inspections, enforcement and compliance.	USEPA, TCEQ, NMBA, NMED, HHS, US Fish and Wildlife, Mexico's phytosanitary agency SENASICA			Patricia Avitia, DHS-CBP	for cross border movement of hazardous waste at authorized POE, guaranteeing heaving appropriate infrastructure for executing specific inspections and define an ecological corridor for trucks heading to and away from POE.	corresponding State of CHIH, TX and NM to strengthen compliance and enforcement of environmental, trade rules and phytosanitary laws that would expedite commerce and movement of goods.	Coordinate at 1 binational event of chemical emergency response, Expand the PROFEPA- CUSTOMS Joint preparedness operative, to a binational Environmental – Customs and Emergency Response and Preparedness action.
5 – 2	Legislative Bill for establishing economic incentives for manufacturing, corporation, companies and industry that would incentivize them to incorporate at Mexico's and at US where appropriate with existing rules and regulations, to the Audits National Program (PNAA)	Private sector organization, association, affiliation (AMAC, CANACINTRA, CANACO,) Legislative branch, USEPA, BECC, CEC, US Trade – Commerce	TBD	TBD	Lilia Gonzalez of PROFEPA	 -Promulgate upon PROFEPA HQ sharing find funds collected as local economic incentive mechanisms for the private sector to participate in Mexico's PNAA. - Motivate US base corporations with factories in Mexico to incorporate their border facilities into the PNAA. 	On-going. - Federal Legislative for economic incentive in place both in Mexico or US; still do not have rules that would motivate cross – border self – voluntary audits which exists as National Audit Program in Mexico. - Continue with promotion for Industry to attain PROFEPA's National Certification.	Expand the number of maquiladoras, factories & business incorporated to the self-audit system. Extend to its Mexican facilities those US companies that enroll on their US based factories in the E3 program for Pollution Prevention while strengthening its Economic Performance through compliance of Environmental and Energy regulations.

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5-3 Objecti	Assessment of used Vehicle Emission Import Program's compliance with emission regulations in Mexico. Implement used vehicle importation regulation currently in place in Mexico's federal register recognizing the validity of decals issued from United States and Canada programs where the vehicle is registered and operated by its title owner.	Mexico's Custom Agency; SEMARNAT- PROFEPA; Custom brokers; City of Juárez VEIP; State of Chihuahua Ecology and Urban Development Secretariat (SDUE)	10 Dollars per vehicle inspected at cost to vehicle owner	Private vehicle owner and Govern ment Ecology Depart ment of Ciudad Juárez	Ramiro Barrios, SEMARNAT's Office for Atmosphere, Emissions Registry and Transport, and a colleague to be appointed from the office of SEMARNAT Assistant Secretary for Norms and Regulations.	Delegate authority to State of Chihuahua and Ciudad Juárez's Vehicle Emissions Inspection Program (VEIP), by Mexico's PROFEPA – SEMARNAT's, so that the City of Juárez VEIP would carry out the emissions test at the moment of used vehicle importation. Have a mechanism on hand for an efficient and effective sharing of information between SEMARNAT and SAT	Completed Federal Government accomplished publishing the Federal Rule, regulation, guideline and importation procedure that currently all used vehicles being imported to Mexico must follow Mexico's Customs'- SAT gathers data information of vehicles imported daily by port of entry.	MOU between administration of the State of Chihuahua and Juárez's Ecology Program with Mexico's PROFEPA – SEMARNAT's, in order for the City of Juárez Vehicle Emissions Inspection Program to carry out the emissions test at the moment of a used vehicle's importation.
-	similar programs at the state	· ·			-			
	ive 3: Using the U.S. Toxic Releation, share information regard Release each year a TRI Factsheet developed for Region 6 Border area.							r sources of environmental TRI Factsheet distributed at Regional and Taskforce meetings and other appropriate stakeholder meetings; and finally creating a US–Mexico border-wide binational TRI factsheets.

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							states that borders with TX.	
5 – 5	Information sharing / exchange mechanism for determining what are the major contributors to atmospheric/water contaminants that would direct actions within the US-Mexico Environmental program focusing on opportunities for pollution prevention controls.	SEMARNAT, SDUE, PROFEPA, USEPA, IBWC/CILA, CONAGUA, Municipal surveillance Department.	NA	NA	Lilia Gonzalez of PROFEPA, Gerardo Tarin of SEMARNAT, The Ecology Director of SDUE, Manuel Herrera of JMAS.	Number of specific actions	Exchange and learn from Successful cases.	Review SEMARNAT's and State of Chihuahua Urban Development-Ecology Secretary's data-base output of the facilities' annual reports of operations, along with the regions' emissions inventory, the documentation at the facilities production permits, and or midyear factory report and environmental impact reports. Similarly based on information coming out from PROFEPA and other Government Levels inspections and site visits
promot case de	ve 4: By 2020, implement at le the exchange of information velopment practices.			-				-
5-6	Coordination of a one stop process window for an electronic commerce / trade movement of hazardous materials, special management – handling of waste and used tires (once there is assurance of importing	Mexican Custom, SEMARNAT, SDUE and Municipal Departments	NA	NA	Lilia Gonzalez of PROFEPA and Gerardo Tarin of SEMARNAT	Fully operational one stop window, getting the support and commitment for its promotion by US State Department and Mexico's Ministry of Foreign Affairs, (SD and SER,) to include	Completed Strengthen environmental enforcement mechanisms by establishing a one- stop submittal of electronic manifest	Continue offering update workshops for training on the one stop electronic mechanisms to Customs Personnel, Brokers Custom Agencies, on functioning and procedures.

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						Annex III of the 1983 La Paz Agreement.	characterized as hazardous, those of special handling and used tires once their authorization issuance for importation in accordance and harmonization with practices currently in place by the US government party.	
5 - 7	Training of Federal Agency Personnel, Custom Broker Agents, Freight Company staff and others that get involve in cross border movement of hazardous materials.	PROFEPA, SEMARNAT, Customs, Secretariat of Transportation Highways and Communicatio n, NMED, USEPA, TCEQ, USDOT.	NA	NA	Lilia Gonzalez of PROFEPA and Gerardo Tarin of SEMARNAT.	Performance by trained personnel on improved capabilities through a yearly workshop. Specify feasible number of trained personnel and measurement of performance.	Ongoing joint team interaction for exchanging data information has been foreseen	Structure an outline for training of Trade – Commerce – Environmental and Safety agencies for improving compliance on cross border movement of hazardous materials and waste.

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ENVIRO	ONMENTAL HEALTH and EDUCA	ATION		-				
E-1	Paso del Norte Region – Adaptation and Mitigation: Project is framed under the National Oceanic Atmospheric Administration (NOAA) pilot project, for the development of a comprehensive information system on heat and health. Under regional cooperation, the project aims to generate tools with the goal of reducing disease, death and loss of productivity associated with heat stress. Planning and Management Phase: Present project to City Council, plan project working sessions. Operational Phase: Donate to schools of basic education drinking water fountains and air	Juárez Resilience, Gobierno municipal (Dirección de Protección Civil, Community Centers Public Works, IMIP, UACJ, UTEP, COLEF, FEMAP, CMIC, SEMARNAT	Planning and Management Phase: \$1000.00 US Dollars Operation Phase: \$10,000.00 US Dollars	Plannin g and Manage ment Phase: 100RC Operati onal Phase: not identifie d	Ciudad Juárez Office of Resiliency <u>Juárezresilien</u> <u>te@gmail.co</u> <u>m</u> Telephone: 613-6520 ext. 131	Consolidate an adaptation and mitigation strategy for the City of Juárez, which not only contributes to reducing the negatives effects of extreme heat, but also directly affects urban resilience and the transformation of actions and practices.	Management and planning Phase. Third session planned for March 24, 2017	2018 TBD
E-2	conditioning equipment Binational Conference on Health and Heat: The project arises from the need to generate related kn owledge on the topic	Ciudad Juárez Office of Resiliency, Border 2020 Program, UTEP, TCEQ	\$2000.00 US Dollars	Unident ified	Ciudad Juárez Office of Resiliency	Define specific prevention and research actions that can be translated into recommendations for the creation of a	Complete	FY2018 TBD

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	of health and heat, due to t he increase in the mortality rate in the last 10 years wor ldwide. The purpose of the Confere nce is to meet in the frame work of environmental edu cation, health sector stakeholders for dialogue a nd raise awareness of the i mportance of the extreme heat and prevention efforts as determining factors to pr event illnesses and deaths i n the region. Management planning, phase: Logistic organization outline, material, place definition, date and time.				<u>Juárezresilien</u> <u>te@gmail.co</u> <u>m</u>	Medical Contingency Plan, which in the future can train and raise awareness among health sector stakeholders on the subject of extreme heat.		
E-3	Operational phase: Disseminate laws/ regulations and promote their revision in order to adapt them to the region's own sustainability and resilience.	Border 2020 Taskforces/ local governments, private industry, academia, associations, coalitions, etc.	No Cost	Support in kind by the c o- leaders and coll aborato rs	Co-leaders of GTEAS y Border 2020 Taskforces	Create comprehensive and bi- national working grou ps to summarize existi ng laws/regulations an d propose actions to p romote laws/regulatio ns with focus on sustainability and resilience in the re gion.	Quarterly meetings in 2018 with interested stakeholders	Quarterly meetings in 2018 with interested stakeholders

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E-4	RESET 17: Innovation for the future: The project proposes to carry out a bi-national event (RESET) for 4,000 young people that focuses on educating and inspiring young people in the region to find solutions to alleviate environmental, social and economic problems in both countries.	Fundación AXCEL A.C. & NADB-EPA Border 2020 Grant	Total: \$97, 222.22 (B2020 grant was \$29,444.44)	Border 2020 Grant	Nancy Estrada (<u>nancy@funa</u> <u>x.org</u>)	Outputs: 1. Binational Conference to provide environmental awareness to 1000 young assistants from El Paso and Juarez, 2) Two proposed solutions will be followed-up at 3 and 6 months which includes prototype development to respond to 2 environmental issues.	New – Funded B2020 2017 RFP	New – Funded B2020 2017 RFP
E-5	Chihuahuas' desert water education for human health and the environment: Implementation of water/quality resource education to area high schools to protect human health and the environment in the Chihuahua's Desert.	El Paso Water Utilities; NADB-EPA B2020 Grant	Total: \$36,255.99 (\$18,212.19 from B2020 grant)	Border 2020 Grant; EPWU	Nancy Guzman <u>nlguzman@e</u> <u>pwu.org</u>	Outputs: Obtain the water quality of the Rio Grande through testing kits and equipment (8 parameters) and impacts of human health from this water quality. Obtain water quality information, plants, organisms, pollution and human health's impacts and map it for schools in Mexico, Colorado, New Mexico and other parts of Texas.	New – Funded B2020 2017 RF	New – Funded B2020 2017 RF
E-6	Collaborative K12 capacity building and research for air quality monitoring:	UTEP; NADB- EPA B2020 Grant	Total: \$107,831	Border 2020	Stanley Mubako	Outputs: Build a Geographic Information System	New – Funded B2020 2017 RF	New – Funded under FY2017 B2020 RFP

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	Capacity building for K12 in GIS mapping and air quality awareness		(96,331 from b2020 grant)	Grant; UTEP	<u>stmubako@u</u> <u>tep.edu</u>	(GIS) capacity of K12 schools through inquiry-based learning, focusing on an ambient air quality study. Conduct a particulate matter exposure risk analysis 2 long-term exposure maps. 100 teachers trained on GIS. GIS data collection. Design and publish 2 web applications for communication purposes, 2 research publications.		
E-7	U.SMexico borderlands GIS mapping Develop the customized and interactive binational philanthropic database and mapping platform. GIS map will identify the names of the foundations, corporations, or government entities are funding in the region, the specific areas of interest and locations all the way down to the community level across the 10 Border State region.	U.SMexico Border Philanthropy Partnership	Total: \$125,510 (В2020 - \$25К)	NADB – Border 2020 Grant	Andy Carey Andy@border partnership.or g	Outputs: U.SMexico Borderlands GIS map; outreach campaign to instruct and inform in the use of the GIS map in each of the 10 Border States.	New – Funded under FY2017 B2020 RFP	New – Funded under FY2017 B2020 RFP