8/1/2012

U.S.-Mexico Border 2020 Program
2 Year Action Plan
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 Task Force 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 Task Force (CAESCE) (Goal 5)
6. Border 2020 TX/NM/CHIH Environmental Education and Health Committee (Multi-media)
7. Border 2020 New Mexico-Chihuahua Rural Taskforce (Multi-media)
8. Border 2020 Texas-Chihuahua Rural Taskforce (Multi-media)

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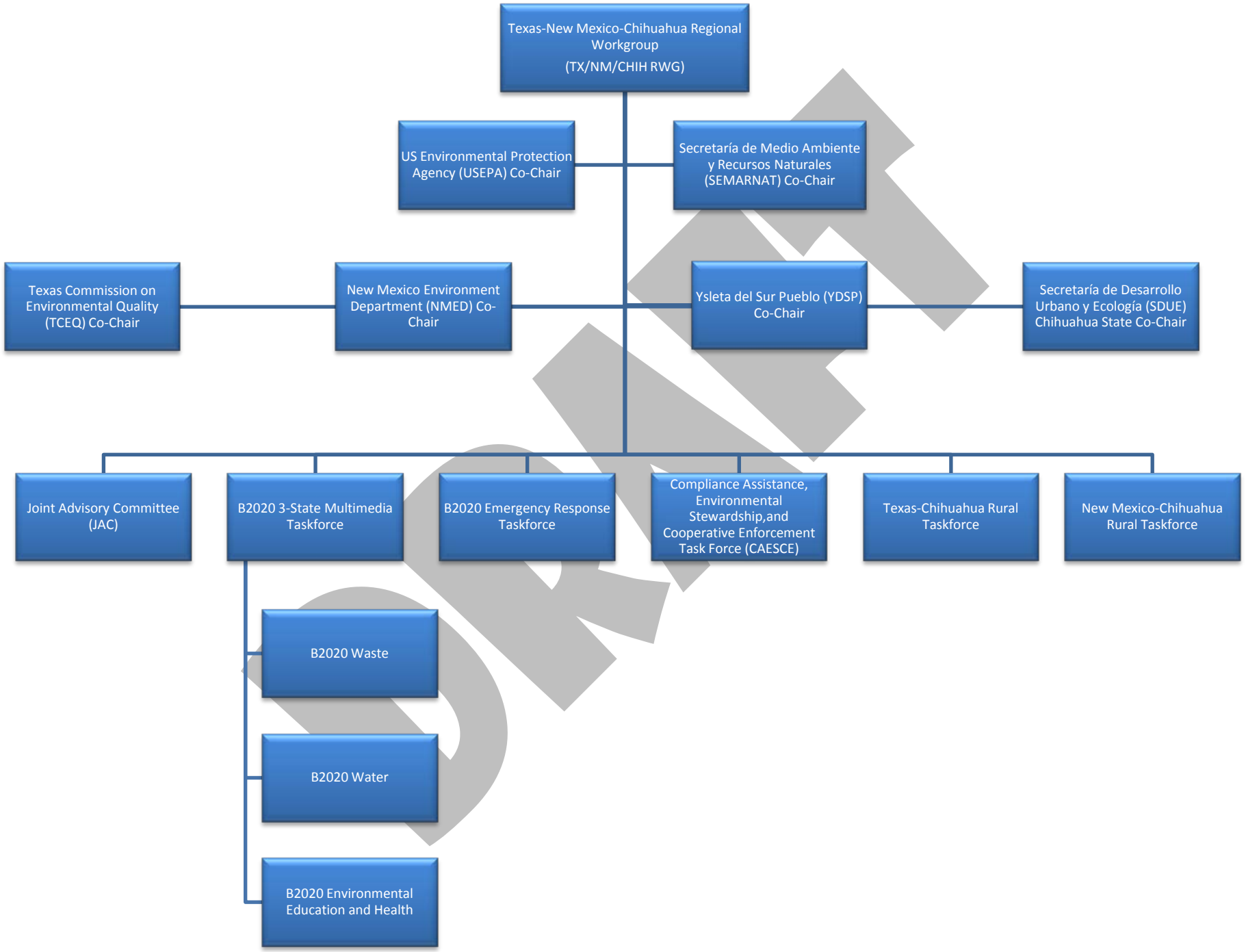
Texas-New Mexico-Chihuahua Regional Workgroup
(TX/NM/CHIH RWG)
US Environmental Protection Agency (USEPA) Co-Chair
Secretaría de Medio Ambiente y Recursos Naturales (SEMARNAT) Co-Chair
Texas Commission on Environmental Quality (TCEQ) Co-Chair
New Mexico Environment Department (NMED) Co-Chair
Ysleta del Sur Pueblo (YDSP) Co-Chair
Secretaría de Desarrollo Urbano y Ecología (SDUE) Chihuahua State Co-Chair
Joint Advisory Committee (JAC)
B2020 3-State Multimedia Taskforce
B2020 Emergency Response Taskforce
Compliance Assistance, Environmental Stewardship,and Cooperative Enforcement Task Force (CAESCE)
Texas-Chihuahua Rural Taskforce
New Mexico-Chihuahua Rural Taskforce
B2020 Waste
B2020 Water
B2020 Environmental Education and Health

Two Year Action Plan

Description of Project	Collaborating Organizations	Anticipated Cost	Source(s) of funding	Points of Contact	2013-2014 Target	Progress Towards Target
Goal 1: Reduce Air Pollution						
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 reduction measures.						
Assessment of used Vehicle Emission Import Program's (VEIP) compliance with emission regulations in Mexico. Evaluate the implementation of the used vehicle importation regulation currently in place. (The regulation which was published in Mexico's federal register recognizes the validity of decals issued from Mexican State programs where the vehicle is registered and operated by its title owner.)	Mexico's Custom Agency; SEMARNAT-PROFEPA; Custom brokers; City of Juarez VEIP; State of Chihuahua Ecology and Urban Development Secretariat (SDUE)	$0	NA	Ramiro Barrios at Mexico City office of SEMARNAT's Atmosphere and Emissions Registry and Transport office, and a colleague at SEMARNAT's Assistant Secretary for Rules and Norms.	Complete Assessment by first quarter of 2013; Promote cooperative partnership by State of Chihuahua – Ciudad Juarez's VEIP, under PROFEPA – SEMARNAT's framework, for carrying out VEIP at the NMBA facilities in Santa Teresa, NM.	Implement mid-year program evaluation status starting 2013; anticipated reporting up to 2020.
Participate in the City of El Paso and City of Juarez's Mayors Bi-national Advisory Committee (BNAC) for Ports of Entry. Implement regional operations plan at Ports of Entry (POEs).	El Paso Metropolitan Organization (EPMPO); City of El Paso; TxDOT; NMDOT; Ciudad Juarez Municipality.	ND	ND	Nicolas Lopez IMIP Juarez	Analyze the implementation of wait time reduction plans for commercial lanes at POEs that would improve truck crossings.	Workgroups have been established and preliminary meetings have been conducted
Freight Shuttle System between Cuidad Juarez and El Paso. An innovative, privately funded and operated freight transportation system that will relieve highly congested international freight corridor at existing POEs. The system, completely automated and controlled by a central command will increase safety and security, reduce congestion at POE, improve air quality, etc.	City of El Paso; Ciudad Juarez; State of Chihuahua; Freight Shuttle International; REDCO; JAC	8 to 10 million per mile, estimated total of 140 to 150 million.	Privately secured by partners, investors and users	Bob Cook, and Manuel Ochoa at REDCO, Stephen Roop at TTI, Robert Rodaven of Freight Shuttle	Procurement of Presidential Permit by City of El Paso; Coordinate with CBP; Secretary of Transportation (SCT) feature Technical design; Right away easement by SCT; Consensus with GSA and INDAABIN on infrastructure construction; Break ground for construction	1st quarter 2013: coordinate with CBP, SCT 3rd quarter: Presidential permit; Right away easement; End 2013: Consensus with GSA and INDAABIN;

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						1st quarter 2014: Break ground
Zaragoza POE Frontera-21 Lane. Dedicated lane for trusted commercial shipments	El Paso – Juarez Private Public Partnership	$250,000	Private Sector	Bob Gray SecureHorizons	Eliminate wait lines (queuing) for trusted commercial shipments	Lane open and in operation by first quarter 2013
Objective 2: By 2020, reduce pollutant emissions in order to approach attainment of respective national ambient air quality standards in the following air-sheds: Paso del Norte (El Paso / Juarez / Sunland Park)						
Juarez's Air Quality Improvement Management Program (PROAIRE).- Development and implementation of Juarez's PROAIRE 2012 – 2020. It will address cost – effective measures that would effectively reduce air emissions.	Chihuahua and Ciudad Juarez's government administration; SEMARNAT; COESPRIS; USEPA; academic institutions	ND	ND	Salvador Rubalcaba and Cesar Fierro from State of Chihuahua Government (SDUE)	By first quarter of 2013 present a 2006-2012 end-report; Development and start of a 2020 PROAIRE.	Execute a yearly evaluation of program's effectiveness in improving air quality
Rider 8 Program. A strategy intended to assist areas to stay in air quality attainment for Ozone, by prioritizing projects and other activities that will help El Paso Air-shed maintain air quality.	El Paso MPO; UTEP; TCEQ; NMED; City of El Paso; Dona Ana County; El Paso County; Fort Bliss; NMDoT; TXDoT; USEPA; SEMARNAT; Western Refining	$740,000	TCEQ	Efren Meza and George Pinal at EPMPO, Wen_Whai Li at UTEP, Victor Valenzuela at TCEQ	Identifying, inventorying, and monitoring pollution levels; model emission levels; and identify, quantify, and implement appropriate pollution reduction controls.	Identify and Inventory Ozone Pollution levels (Summer 2012); Monitor and Model Ozone levels is a constant activity throughout the year AAQMN system; Implement Ozone reduction controls (begin summer 2012 and every summer thereafter)
Reduction of Brick–kilns emissions and completion risk of exposure assessment by end of 2014. Relocate 50% of brick-kilns in MX border	Federal, State, Municipal government administration partnering with brick	$1,307,700	PYMES, Border 2020	Alba Yadira Corral Avitia, UACJ, Obdulia Mendoza SDUE	Relocate 50% of brick-kilns in MX border sister cities.	The environmental impact study was elaborated

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cities, to an appropriate location away from populated neighborhoods, with MK2 design used for construction of new brick-kilns.	makers' association and academic institutions.					by UACJ professors. Land (50 h) for the relocation of the brick kilns have been acquired by the State and Municipal ecological dependencies.
Management and control of emissions from paint body shops. Promote the use of water based paint guns and installation of enclosed paint rooms that filter and collect paint fumes in order to reduce emissions from shops.	Federal, State, Municipal government administration partnering with paint-body shops' association and academic institutions.	$77,000.00	PYMES, Border 2020	Alba Yadira Corral Avitia UACJ / Pamela Aguirre and Victor Valenzuela of TCEQ	Have 100% of paint body shops equipped with fume emission control paint-cabins and use of water-base paint guns by end of 2014. Workshops will be supplemented with outreach material developed to achieve 100% coverage.	The inventory of the Juárez paint body shops was developed by UACJ professors. Sixty water base paints guns were donated to paint body shops owners.
Bring enforcement agencies, where appropriate, into dialogue about best management practices for mitigating particulate matter.	EPA; NMED; NMDOH-OBH; SEMARNAT; Junta Municipal de Agua in Palomas; City of Las Cruces; and NMSU.	Part of NMED's $75,000	EPA Region 6 Border Funds	NMED (Thomas Ruiz)	; provide support NM-OBH's Binational study; provide support for the Air Policy Forum Group. The final report and map will be placed on the project's website at http://border.nmsu.edu	
Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to air quality data in: Paso del Norte Airshed; Any additional binational airshed that is designated as non-attainment for U.S. or Mexican air quality standards prior to 2015.						
Air Monitoring networks for the El Paso/Juarez Region. Deploy, maintain, and operate the air quality monitoring network designed to measure, Ozone, Carbon Monoxide, Particulate Matter between 2.5 and 10 microns, as well as, Metrological data	EPA; TCEQ; El Paso Air Quality; Program	$437,767 annually	TCEQ, EPA, City of El Paso	Miguel Parra, Al Melero, & Candice Sifuentes	Determine new monitoring sites in areas where data is needed to demonstrate impact to communities.	

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Improve Ciudad Juarez's Air Quality Monitoring Network. Expand Ambient Air Quality Monitoring geographic coverage and analytical capabilities; enhance and advance on quality of data and public notification measures. Encourage and promote to the State of Chihuhuahua, applying for federal funding available to states (Programa Estatal de Financamiento- PEF).	State of Chihuahua Executive Administration; City of Juarez's government; State of Chihuahua Congress	$325,000	State of Chihuahua, PEF, BECC	Salvador Rubalcaba, at the State of Chihuahua Government, Irving Acosta from Cd Juarez Ecology Department	By end of 2012 elaborate a Proposal for an Air Quality Project to be financed in 2013 budget appropriations in local, state and federal budgets.	
Improve Ojinaga's PM10 Air Quality Monitoring Network by providing better maintenance and calibration to monitors that will optimize data quality measured. Develop Air Quality information and public notification system to alert citizens when air quality poses a health risk. Encourage and promote to the State of Chihuahua, applying for federal funding available to states (Programa Estatal de Financamiento - PEF).	State of Chihuahua; Ojinaga Municipality; SEMARNAT; Chihuahua State Congress; State of Chihuahua Executive	$11,539	State of Chihuahua, PEF, BECC	Salvador Rubalcaba from the State of Chihuahua Government, and Juan Carlos Valdivia from City of Ojinaga Ecology Department	By end of 2012 develop a Proposal for an Air Quality Project to be financed in 2013 budget appropriations in local, state and federal budgets.	
Implementation of an Air Quality Monitoring network between border cities located at the Chihuahua-New Mexico border. Determine the necessary equipment needed for measuring air quality and a proper notification mechanism for reporting air quality health risks by utilizing various existing funding. In addition Encourage and promote to the State of Chihuahua, applying for federal funding available to states (Programa Estatal de Financamiento- PEF).	State of Chihuahua; border cities municipality; SEMARNAT; Chihuahua State Congress; State of Chihuahua Executive	$38,462	State of Chihuahua, PEF, BECC	Salvador Rubalcaba from the State of Chihuahua Government, Mario Sandoval from City of Ascensión,	By end of 2012 develop a Proposal for an Air Quality Project to be financed in 2013 budget appropriations in local, state and federal budgets.	
Maintain operation of the binational air quality monitoring network for consistent reporting to community of the PM_{10} and $PM_{2.5}$ levels, as well as other priority	EPA; NMED; NMDOH-OBH; SEMARNAT; Consortium of NNMSU-UTEP-UACJ-Desert	$236,000 co-funding	EPA Region 6 Border Funds, with co-funding from	NMED (Thomas Ruiz,) NMDOH-OBH (Paul Dulin) and NMSU (Dave	Integrate air quality monitoring efforts, data sharing and reporting among state and local authorities and universities of	Studies completed this year: Inventory of

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contaminants, as established under the NMDOH-OBH funded the Binational Air Quality Assessment	Research Institute; Junta Municipal de Aguas in Palomas, Chihuahua		NMDOH-OBH	DuBois)	New Mexico, Northern Chihuahua and West Texas. Make data available on the Internet and other appropriate public access outlets (including mass media) in all three states.	landforms, soils, hydrology, vegetation, all types of land use, created new land use databases around satellite stations. Studies in progress: assessment of climatologically & meteorological phenomena; inventory & characterizatio n of sources of emissions, assessment of air quality from past and ongoing monitoring, studies of fungal spore dispersion from CAFOs, pollen measurements and dispersion study, distribution of air quality related chronic & infectious diseases

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Develop an air quality monitoring training and maintenance program for the Columbus-Palomas area (Northern Chihuahua and Southwestern New Mexico areas)	USEPA; NMED; SEMARNAT; Columbus and Palomas officials; New Mexico-Chihuahua Rural Taskforce; NM-OBH; NMSU; Ciudad Juarez's Civil Protection and Ecology Department; Ascensión Officials.	Part of $75,000 and $20,000 co-funding	EPA Region 6 Border Funds, with co-funding from NMDOH-OBH	NMED Thomas Ruiz	Support for 12 community workshops in Dona Ana, Hidalgo and Luna County (~420 households, ~1,200 individual residents); and 30 rancher in Northern Chihuahua.	
Develop and recommend to the Air Policy Forum addressing findings to meet air monitoring needs for urban and rural areas in the NM-TX – Chihuahua border region.	USEPA; NMED; SEMARNAT; TCEQ	Part of NMED's $75,000.00	USEPA Region 6 Border Fund	Allyson Siwik and Gerardo Tarin of SEMARNAT	Complete White paper with recommendations and present to Air Policy Forum	Air Quality Working Group meeting July 6, 2012
Objective 4: By 2015, support completion of, climate action plans in each of the six northern Mexican Border States (as appropriate), and build the necessary capacity for sustained implementation.						
Development of State of Chihuahua Climate Action Plan and support Implementation	SEMARNAT; State of Chihuahua Governor's Administration; State of Chihuahua SDUE; INE; BECC	$18,000.00	BECC, EPA, SEMARNAT	Tomas, Balarezo, BECC, Eduardo Olivarez at SEMARNAT	Implement State of Chihuahua's Climate Action Plan 2nd phase	To date, the State of Chihuahua's GHHGs Emissions Inventory is complete
Objective 5: By 2020, reduce emissions and associated impacts through energy efficiency and/or alternative/renewable energy projects.						
1)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 (YDSP)	2 miles of improved ranch road also shared with Border Patrol and Neighboring Ranches	
Reduce YDSP Carbon footprint by funding energy efficient retrofits for government buildings, to include retrofits to HVAC systems and energy efficient glass	YDSP Environmental Department; EPA Region 6 Air Program	$280,000	Tribal Matching funds & EPA Region 6 Air program	Evaristo Cruz (YDSP)	Retrofit 7 YDSP administrative buildings and implement energy benchmarking tool to capture energy usage.	
Reduce Carbon Foot Print by converting all YDSP water wells to run off of solar	YDSP Environmental Dpt.; NRCS/USDA	$30,000	Tribal Funding & USDA/NRCS	Evaristo A. Cruz, Santana Villa	Retrofit 4 water wells with solar panels within the ranch	

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panels rather than generators or local electric grid.			EQIP program	(NRCS/USDA)		
Goal 2: Improve Access to Clean and Safe Water						
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.						
RWG adopts Water Policy Forum 2-year workplan for target #s	See Water Policy Forum workplan	See Water Policy Forum workplan	See Water Policy Forum workplan	See Water Policy Forum workplan	See Water Policy Forum workplan	
Update of Juarez Water Master Plan 2012-2030	JMAS, BECC, USAID,	$300,000	200,OOO-BECC 50,000-USAID REST-JMAS	Manuel Herrera, of JMAS, Franco BECC-Marco Granados. UACJ	Run a complete simulation of water and waste water program and reveal best places to work on purple line extensions. Develop the concept of tertiary treatment for re-injection into the aquifer, and set baseline indicators for a water plant.	Master Plan is already under way and expected to be finished by the end of the year
Meet landmark of 100% treatment of waste water	JMAS, CNA, EPA, and Degremont	South-South Plant:14.3 Millions Laguna de Patos: 2.0 Millions	EPA- BEIF CNA-Mexican Participation Degremont-Private Investor	EPA/BECC: Gilbert Tellez, Marco Granados JMAS: Nora Yu, Manuel Herrera, René Franco CNA: Lopez	Laguna de Patos Plant will be ready to go online by summer 2012. The new South-South plant will have a capacity of 500 liter/sec with upgrades up to 1000 liters/sec. Construction begin summer 2012 and is expected to be finished by 2014. With these 2 new plants plus the other already in operation, JMAS will treat about 99 % of waste water, 100% of water discharging into Rio Grande.	The next step is to develop a tertiary treatment project to re-inject water to the aquifer, which is expected to be part of the Master Plan.
Certification of JMAS water laboratory by EMA (Entidad Mexicana de Acreditacion)	JMAS Technical Department	$230,800 for certification, plus cost of	JMAS/Federal	JMAS: Omar Chacon Manuel Herrera	The lab is already certified for several parameters. Additional tests would convert it into a regional lab, and would service the North of Mexico. This lab will	

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		equipment			also give certainty of water supply quality offered by JMAS.	
Drought Conditions in Juarez	JMAS/CNA/ SEMARNAT	Not available	Local/State/Federal	JMAS: Nora Yu, Manuel Herrera	JMAS has already lowered water pressure to prevent spills. It has reinforced all conservation measures and if drought conditions persist emergency actions will include stopping water service during some nights and eventually programmed allowanced to save water.	
Lower Per Capita consumption to <200 liters per day to increase sustainability of Hueco Bolson	JMAS/EPWU	Ongoing JMAS program	Self financing, JMAS	JMAS: Manuel Herrera and Claudia Hernandez	Continue with conservation measures, and put into action recommendations from Master Plan. Other actions include change of valves, lowering pressures where needed, and improve domestic and commercial meters.	Consumption has been going steadily decreasing over the last 5 years. It is expected to reach near 200 liters per capita per day by year 2014
Increase Household Connections in El Paso County Lower Valley.	Lower Valley District, El Paso County Water Improvement (Irrigation) District, U S Dept of Interior (BOR)	$300,000	50% Federal, 50% local	Mr. Bert Cortez, BOR	The United States Department of the Interior - Bureau of Reclamation assisted the Lower Valley Water District (LVWD) in the preparation of an Environmental Assessment in relation to a water delivery plan for the LVWD area.	
The water and wastewater systems follow the recommendations provided in the 1988 Water and Wastewater Management Plan. These systems will serve 70,559 people (approximately 15,000 connections) by the year 2015.	Lower Valley District, El Paso County Water Improvement (Irrigation) District, U S Dept of Interior (BOR)			Mr. Hector Gonzalez EPWU Mr. Bert Cortez BOR	The Phase III Wastewater System Project proposed for the extension of distribution and transmission lines ranging in size from 8-inches to 36-inches. This project also detailed for the installation of a 15,250-gpm capacity booster	

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					station at the Jonathan Rogers Treatment Plant site and a 3-MG storage tank designed to create a separate pressure zone for the lower valley area. The Phase III Wastewater System Project envisioned the installation of collector and interceptor lines ranging in size from 8-inches to 36-inches and the installation of six lift stations in a tier formation which will eventually discharge into the Roberto Bustamante Treatment Plant.	
Presentation to Palomas officials and residents of home filter for removal of contaminants specific to the region's municipal groundwater such as fluoride and arsenic concentrations.	NMED, NMSU, NM-CHIHUAHUA Rural Taskforce, Palomas Officials, UACJ, CATIS	Part of NMED $75k	EPA Region 6 Border Funds	NMSU, NMED (Tom Ruiz), Potentially Border Partners.	Presentation to Palomas officials to seek approval of low-cost clay filters for household faucets to reduce contaminants. If adopted, the group will work to seek funds for installation of home filters.	
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. • Objective 2a: Incorporate sustainable infrastructure elements, as feasible and appropriate, in U.S.-Mexico Border Water Infrastructure Program BECC certified projects. • Objective 2b: Improve energy efficiency and efficient water use of drinking water and wastewater service providers in the border region. • Objective 2c: Build operational, managerial and financial capacity through training of drinking water and wastewater service providers in the border region						
Utilize information on water conservations relevant to the community to help lower water bills for residents. Assess reductions in bills based on comparable months of use.	NMSU, NM-CHIH Taskforce, NMED, EPA,	Part of NMED $75,000	EPA Region 6 Border Funds	NMED (Tom Ruiz), Allyson Siwik (NM/CHIH Rural Taskforce US Co-leader)	Conduct one (1) half-day workshop for some 50-70 households in Columbus on residential water conservation.	
Water Festivals in Palomas, Ascensión, Janos and Cuidad Juarez to promote water conservation to communities	NM-CHIH Taskforce, NMED, Agua 21, Communities of Palomas, Ascensión, Janos, Cuidad Juarez	Part of NMED $75,000	EPA Region 6 Border Funds	NMED (Tom Ruiz), Allyson Siwik (NM/CHIH Rural Taskforce US Co-leader), Agua 21, El Paso	6 Water Festival Events (Impact 500-1,500 community residents)	

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				Border Office		
Water Conservation Project in Pto. Palomas, Chihuahua, Mexico. Gray-water System in Palomas	Border Partners, NM-CHIH RTF, Palomas and Columbus Communities	$10,000	EPA Region 6 Border Funds	Border Partners (Polly Edmunds)	- Train local community members on water conservation and gray-water systems - Install 15 gray-water systems in homes in Palomas. Water reused for gardens - Install at Palomas library a gray-water system and retrofit sanitation system with dry toilets	
Phase I & IA of the Central Reclaimed Water Project are completed and provides reclaimed water through 19,200 linear feet of pipeline to various locations in Central El Paso.	US Dept of Interior (BOR), EPWU, EPCWID	$13.4 million	U.S. Bureau of Reclamation. City of El Paso Water and Sewer revenue bonds from EPWU		The project provides approximately 325 MG of reclaimed water per year.	
Subsequent phases are intended to serve the Fort Bliss military base and include additional pumping and storage facilities, and associated transmission and distribution pipelines along Fort Bliss, City parks, and schools in El Paso.	US Dept of Interior (Bureau of Reclamation - BOR), EPWU, EPCWID		U.S. Bureau of Reclamation. City of El Paso Water and Sewer revenue bonds from EPWU	Burt Cortez (BOR)	Phases I and II currently save approximately 56 million gallons of potable water per year. The Fred Hervey Reclaimed Water Project saves approximately 1,225 million gallons of potable water. In addition, almost 500 million gallons of reclaimed water is returned to the Hueco Bolson for aquifer recovery through injection wells and infiltration basins.	
City of El Paso desalination facility produces 27.5 million gallons of fresh water daily (MGD) making it a critical component of the region's water portfolio. EPWU is looking into technology that will reduce the energy costs at the desalination plant.	EPWU, Dept of Interior (Bureau of Reclamation)	ND	ND	Burt Cortez (BOR)	Installation of Solar Energy Plant at EPWU Desalination Plant. Increase energy efficiency for the reverse osmosis technology.	

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Installation of Real Time Monitoring of Irrigation Water SCADA These stations will be effective in planning irrigations and preparing for storm water.	Elephant Butte Irrigation District (EBID)	$1.5 million	EBID, State of New Mexico. New Mexico State University	Gary Esslinger (EBID)	Conserve Rio Grande Project Water by utilizing Storm Water availability	
GREYWATER REUSE: El Paso County Rogelio Sanchez State Prison	Texas Dept of Corrections, Texas A&M Univ. Dept of Interior - BOR			Ari Michelsen (Texas A &M); Bert Cortez (BOR)	Reuse of 40,000 gallons / month of Laundry water	75%
U S / México Bi-national Water Summit	IBWC-CILA US Dept of Interior, SEMARNAT, , EPWU _ JMAS, UTEP, UACJ	ND	México , U S IBWC –CILA	IBWC/CILA Commissioners	Address Transboundary water Sustainability and Planning in the Juarez / Paso el Norte planning Region Discuss bi-national progress to meet challenges of the future.	September 2012
Objective 3: Work binationally to identify and reduce surface water contamination in transboundary waterbodies or watersheds.						
Workshops on proper de-commissioning of septic tanks, water conservation and pollution prevention in order to better understand and plan for future groundwater supplies in NM/CHIH Region	USEPA,NMED,SEMARNAT, Columbus and Palomas officials, New Mexico-Chihuahua Environmental Education Taskforce	Part of NMED $75k	EPA Border Region 6 Funds	NMED (Thomas Ruiz)	6 community workshops in Dona Ana and Luna County (~420 households, ~1,200 individual residents). In addition, workshops will be supplemented with outreach material developed (~200 posters, 800 take-away brochures)	
Conduct risk assessment of these wastewater systems (i.e. cesspools, septic tanks) that pose a potential health and environmental risk. Conduct outreach in Dona Ana County and portion of Juarez areas with these systems that overlay the Mesilla Bolson.	NMSU, UACJ, NMED, Dona Ana County officials and agencies, Juarez officials and water agencies	$85,000	EPA Region 6 Border Funds	NMSU (Dr. Christopher Brown)	- A spatially referenced database (geodatabase) produced with GIS tools that details the spatial location of all permitted systems in the study area, - Scientifically generated identification of specific areas that are at risk that will be of use to relevant governmental agencies, - Outreach materials that outline the details of risk to groundwater due to onsite	

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					systems and provide detail on how to best manage this risk, - The development of a toolbox that would be very useful to other parts of the border region that face similar challenges and issues.	
Microbiological and chemical risk analysis that impact environmental and human health in the Valley de Juarez region	UACJ, COLEF, AQUA XXI, UT Houston School of Public Health in El Paso,	$70,000	EPA Region 6 Border Funds	UACJ (Dr. Juan Pedro Flores Margez.)	- Evaluate the public health impacts from infrastructure projects in 10 communities in the Valley de Juarez by conducting a microbial analysis drinking water system at various points - Conduct epidemiology survey in the 10 communities to determine the prevalence of gastrointestinal illness in the community members - Environmental Public Health campaign to communities regarding safe drinking water and hygiene practices	
Objective 4: Provide the public with timely access to water quality data in binational waterbodies and watersheds in a readily understandable, web-based format.						
Goal 3: Promote Materials and Waste Management and Clean Sites						
Objective 1: By 2020, increase local and state-level knowledge and experience in the area of sustainable material management practices.						
Regional waste management plan at Ciudad Juarez.- Establishment of an integrated waste management work-plan at a short, mid, and long term goals in Ciudad Juarez, Chihuahua.	State of Chihuahua SDUE, Juarez's Public Services, and Ecology and Civil Protection departments.	TBD	TBD	Jorge Gutierrez Casas, Director General for Public Services,	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.	
Regional waste management plan for Janos and Ascensión, Chihuahua communities.-	REMEXMAR Juárez, City of Janos and City of Ascensión, CIMAV.	$70,000	Border 2012 Region 6	Pilar Leal, REMEXMAR	100% accomplishment of the project's expected products; and agree on infrastructure	Identified waste streams

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The project encompasses 5 end-results, on the subject of waste management, of which building capabilities that would add value to several type of waste, also establishment of collection centers to gather household hazardous waste, as well collection of agrochemical containers, and addressing the legacy and prevention of future contaminated sites with hazardous – toxic chemicals.					need for household waste recycling; Create a public collection center that would receive household hazardous waste and agrochemical containers. Present a proposed plan to each city's City Council.	
Integrated, permanent used tire management program.- Establishment of guidelines for a market based permanent and systematic used tire management program that would incentivize private sector partnership.	Chihuahua government, Municipalities of Ciudad Juarez, Ojinaga, Ascensión and Janos, Chihuahua's Cement Group, Commerce (GCC) and economic corporate association.	The market will define the value; per used tire disposal to the consumer is $2.00, $8,600 to take care of Ojinaga legacy of 50,000 tires at the collection center.	Consumer and private sector investors	Salvador Rubalcaba at the State of Chihuahua, SDUE, Juan Carlos de la Riva, at Ojinaga and Luis Duarte of Ascensión Municipal's Ecology and Public Service departments at each of the participating cities, GCC and BECC.	Collection of 100% of used tires to be recycled and rest at final disposal projects.	Currently drafting of guidelines
Establishment of collection center for household hazardous and toxic waste in Ciudad Juarez's municipality.- The Project includes installment of a collection center in the municipality of Ciudad Juarez with the principle of shared responsibility for properly disposing toxic and hazardous waste generated at households including	Chihuahua government administration, Municipalities of Ciudad Juarez, SEMARNAT REMEXMAR	TBD	Border 2012	Jorge Gutierrez Casas at General Departments for Public Services, Ecology and Civil Protection, State of Chihuahua Urban Development	Installment and operation of a collection center in the municipality of Ciudad Juarez with the principle of shared responsibility for properly disposing toxic and hazardous waste generated at households including electronic waste, assuring consensus on a	100% by June 2013

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electronic waste.				and Ecology, Gerardo Tarin of SEMARNAT, Pilar Leal of REMEXMAR	agreement with the State of Chihuahua, and Federal administration.	
Electronic waste collection fairs.- Public events organized by social organization to the community at large, sponsored by private sector and enterprises jointly with authorized companies to handle management of electronic waste.	Chihuahua government administration, Municipalities of Ciudad Juarez, SEMARNAT REMEXMAR coordinated by social organizations, Ojinaga, and Western Municipal Rural Communities of Janos and Ascensión.	$5,000	Private	Pilar Leal of REMEXMAR and Gerardo Tarin of SEMARNAT	Yearly collection of 150 tons of electronic waste, and bringing such efforts to U.S. border cities along the border starting in El Paso, TX.	September 2012 first collection event f
Legislative Bill to the State of Chihuahua Congress that would mandate attributes and instructs the executive branch in writing its rules for establishing mechanism for financial actions that would create and strengthen institutional capabilities at State and Local levels for managing waste that threatens with impacts the ecosystem, environment and public health.	State of Chihuahua, legislative and executive branch, Municipalities' administrative and council bodies.	0	NA	Rene Franco Ruiz, State of Chihuahua Congressman, U.S Rubber Association,	A legislative bill proposal that would allow matching federal funds from Ramo 16 (Federal Appropriation line item to finance annually actions from collection fees possible at each of the three states of the region.	Establishment of environmental fund by end of 2013.
Federal sponsor regulation that support use of shredded used tire in roads.- Waiting of law to pass a Bill currently at the Senate then to be published in Mexico's Federal Register instructing the Ministry of Communications and Transportation (Federal Highway) to mandate contractors to use a % of used tire rubber in roads, highways and other communication projects.	Mexico's Senate, Ministry of Highways Transportation and Communication (SCT,) SEMARNAT	TBD	Tire manufacture's, tire distribution centers, General Construction companies for highway and roads pavement.	Gerardo Tarin of SEMARNAT, SCT, USA Rubber Association	Final Bill published in Federal Register.	Bill currently in Senate.
Objective 2: By 2014, identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.						
Development of a regional solid waste management plan for Ascensión and	REMEXMAR Juárez, City of Janos and City of	Part of the $70,000	Border 2012	Pilar Leal of REMEXMAR, and	Identify current amount of solid and household hazardous waste	Determines infrastructure

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Janos, Chihuahua.- Findings from diagnostic studies and assessment of regional waste streams, will guide Principals of this funded project to determine waste flow that has certain value (cash) as well infrastructure needs to benefit from waste collection centers.	Ascensión administrations Municipio de Ascensión, RECO Regional	Border Program allocated to this phase of the grant.		Gerardo Tarin of SEMARNAT	streams in Ascensión and Janos operations in order to develop an integrated plan to properly separate, classify and manage for both communities Workshop on integrated waste management plan.	needs for recycling household waste June 2013
Objective 3: By 2020, improve knowledge at every level of government (federal, state, local) to characterize and remediate contaminated sites.						
Development of a regional solid waste management plan for Ascensión and Janos, Chihuahua.- The Project encompasses addressing the legacy of the current two contaminated sites of an abandoned lead batteries process.	REMEXMAR Juárez, Municipality of Ascensión, CIMAV	TBD	Border 2020	Pilar Leal, REMEXMAR, and Gerardo Tarin SEMARNAT	Insert the two abandoned sites to SEMARNAT's Inventory of contaminated sites system (SISCO) that would prioritize its urgency for remediation by the appropriate authority.	Initial ownership determined in first quarter of 2013.
Objective 4: On an annual basis, implement the binational Consultative Mechanism on sharing information on border area hazardous waste facilities.						
Goal 4: Enhance Joint Preparedness for Environmental Response						
Objective 1: Update, as necessary, the current Mexico-U.S. Joint Contingency Plan and, on an annual basis, continue to evaluate and update the emergency notification mechanism between Mexico and the United States.	N/A @ RWG Level					
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.						
Update of Presidio, Texas – Ojinaga, Chihuahua Sister-City Plan	Rio Council of Governments, Presidio and Ojinaga Officials, EPA, PROFEPA, Civil Protection, TCEQ, other state and local stakeholders	$50,000	EPA Region 6 Border Funds	Rio Council of Governments (Michael Ada)	Completion of update of 2004 Sister City Plan for Presidio, Texas-Ojinaga, Chihuahua, Risk Analysis, Supplemental Training for local responders	
Update of Columbus-Palomas Sister City Plan	EPA Border office, PROFEPA, SEMARNAT, Columbus Officials, Palomas Officials, US &MX Consulate, US and	TBD	N/A	EPA Border Office	Update Sister City plan for Columbus, New Mexico and Palomas, Chihuahua	

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	MX Customs, NM Dept of Homeland Security, Luna County Emergency Management					
Objective 3: By 2016, the U.S.-Mexico JRT will make available technical outreach and training materials for distribution and dissemination along the border.	N/A @ RWG Level					
Objective 4: By 2016, the U.S.-Mexico JRT will analyze existing agreements (including sister city plans) that allow trans-boundary movement of equipment and personnel for comparison purposes.	N/A @ RWG Level					
Goal 5: Enhance Compliance Assurance and Environmental Stewardship						
Objective 1: By 2020, strengthen effective information sharing between U.S. and Mexican agencies regarding the movement of hazardous waste across the border and its ultimate treatment or disposal. In addition, ensure that land ports-of-entry have sufficient inspection capacity to police hazardous waste shipments.						
Increase actions of coordination and surveillance on cross-border movement of hazardous materials.- 3 annual meetings, to dialogue on specific cases dealing with need of existing legislative environmental rules for cross border movement of hazardous waste.	US and Mexico's Customs and Border Protection agency, PROFEPA-SEMARNAT, USEPA, TCEQ,	TBD	TBD	Lilia Gonzalez of PROFEPA	No. of coordination meetings by Principals	Document, learn and exchange knowledge from successful cases of coordination and surveillance.
Strengthening plant protection sanitary inspections.- Assurance heaving ample infrastructure needed for plant protection inspections and sufficient qualified personnel to carryout cross border revisions of hazardous chemicals movement, located possibly in Jeronimo, Ciudad Juarez, Chih., - Santa Teresa, NM port of entry, guaranteeing heaving appropriate infrastructure to execution of this specific inspections that would define	PROFEPA, SEMARNAT, CUSTOMS, State of New Mexico Environment Department and Border Authority, USEPA, TCEQ.	TBD	TBD	Lilia Gonzalez of PROFEPA and PAM Aguirre of TCEQ.	Inspections and ocular revisions to cross border movement of hazardous materials.	By end of 2014, assure there is the infrastructure needed to carryout inspections for plant protection revisions, as well qualified personnel

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automatically an ecological route (corridor) for trucks heading to and away from POE.						trained and certified to do so.
Legislative Bill for establishing economic incentives for manufacturing, corporations companies and industry that would motivate them to incorporate at Mexico's and at US where appropriate with existing rules and regulations, to the Audits National Program (PNAA).- -Create 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 in PNAA	Private sector organization, association, affiliation (AMAC, CANACINTRA, CANACO,) Legislative branch. USEPA, BECC, CEC, US Trade – Commerce,	TBD	TBD	Lilia Gonzalez of PROFEPA	No. of Maquiladoras, factories and business incorporated to the audit system.	
Wood Pallet Manufacturing Workshop	TCEQ/ West Coast Lumber Association	$1,000 (for translation services)	TBD	Pam Aguirre	Spring of 2013	Have established good database of recent pallet co's. due to Reg. 06 enforcement initiative
Objective 2: By 2020, in Mexico, increase by 25 percent the number of businesses in the border region enrolled in the National Program for Environmental Auditing (PNAA) and/or similar programs at the state level for facilities not regulated by the federal government, using 2012 as a baseline.						
In Texas: Include additional members into Clean Texas Program, Texas Environmental Excellence Awards program and also make cross-border nominations for awards at annual Environmental Summit	TCEQ, PROFEPA	None	N/A	Pam Aguirre /Victor Valenzuela	Spring 2014	All programs already in place, just need to expand to include cross-border nominees
Objective 3: Using the U.S. Toxic Release Inventory (TRI) and the Mexican Registry of Emissions and Transfers of Pollutants (RETC), along with other sources of environmental information, share information regarding activities contributing pollution to transboundary air and/or water basins along the border.						
TRI Factsheet will be developed for Region 6 Border area as TRI Data is	EPA Staff	$0	N/A	El Paso Border Office,	TRI Factsheet distributed at Regional and Taskforce	TRI 2003-2011 TRI Sheets

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released each year					meetings and other appropriate stakeholder meetings	completed.
Setup an information sharing / exchange mechanism to determine what are the major contributors to atmospheric / water pollution that would direct actions within the US-Mexico Environmental program to focus on pollution prevention controls- SEMARNAT and State of Chihuahua Urban Development and Ecology 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 base on information coming out from PROFEPA and other Government Levels inspections and site visits.	SEMARNAT, SDUE, PROFEPA, USEPA, IBWC/CILA, CONAGUA, Municipal surveillance Department.	TBD	TBD	Lilia Gonzalez of PROFEPA, Gerardo Tarin of SEMARNAT, Obdulia Mendoza of SDUE and Manuel Herrera of JMAS Inspections	Number of specific actions.	Exchange and learn from Successful cases.
Objective 4: By 2020, implement at least five (5) binational workshops targeted to environmental enforcement professionals, including port-of-entry customs professionals, to promote the exchange of information and improve understanding of each country's respective compliance and enforcement programs and tools, including field inspection and case development practices.						
One stop window to process electronic trade / commerce movement of hazardous materials, special management – handling of waste and used tires (once there is assurance of importing scrap – used tires to Mexico,).- Strengthen environmental enforcement mechanisms by establishing a one–stop submittal of electronic manifest of movement of goods that are characterized as hazardous, those of special handling and used tires once their authorization issuance for importation in	Mexican Custom, SEMARNAT, SDUE and Municipal Departments	TBD	TBD	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 language into the Annex III of the 1983 La Paz Agreement. Plan workshops for training on the one stop electronic mechanisms to Customs Personnel, Brokers Custom Agencies, on	Implement a notification system at Spring time in 2013.

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accordance and harmonization with practices currently in place by the US government party.					functioning and procedures during 2013 spring time.	
Training of Federal Agency Personnel, Custom Broker Agents, Freight Company staff and others that get involve in cross border movement of hazardous materials. Carry out, evaluate performance and improve capabilities through at least one workshop per year.	PROFEPA, SEMARNAT, Customs, Secretariat of Transportation, Highways and Communications, NMED,USEPA, TCEQ, , USDOT.	TBD	TBD	Lilia Gonzalez of PROFEPA and Gerardo Tarin of SEMARNAT.	Number of trained personnel and measurement of performance.	Annually tentatively scheduled for end of the September
Environmental Summits along the Texas/ Mexico Border. These have been on-going in El Paso since 2000, and have now expanded to Laredo and the Rio Grande Valley. They have legislative support, community involvement and produce tangible results.	TCEQ /local governments / EPA, PROFEPA, private industry	$20,000 Per Year	Local funding efforts/sponsors	Pam Aguiree,TCEQ	2012-2014 Annually in October; The El Paso Summit is already making efforts to expand the Summit to include New Mexico and Mexico	Coordinating with prospective speakers
OTHER: Improving Environmental and Public Health through Chemical Safety By 2015, reduce exposure to hazardous chemicals, pesticides, heavy metals (i.e., lead & mercury), and asthma triggers, in and around the home.						
Develop a strategic plan to reduce or eliminate housing-related health hazards and to promote housing that is healthy, safe, affordable and accessible in vulnerable communities in the U.S.-Mexico Border Region, with the participation of local, state, federal government and non-government entities.	New Mexico Finance Authority; New Mexico State University's Southern Area Health Education Center; Colonias Development Council; Centers for Disease Control and Prevention; Healthy Homes Strategic Planning Group	$100,000	Centers for Disease Control and Prevention, dependent on no-cost extension	Heidi Krapfl at NMDOH.	Completion of the strategic plan by 2013.	
Reduce risks to human health and safety and improve environmental conditions in 100 homes with identified healthy homes issues by incorporating them into a program to retrofit the home and	New Mexico Finance Authority	$No cost to $100,000	Funding is not provided by CDC for home retrofitting. Funds are being	Jagan Butler of SoAHEC at NMSU	Improvement of 100 homes in vulnerable communities by 2014. Education provided to	Identifying partners

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educate residents to reduce the exposure to chemicals, heavy metals, electrical risks and asthma triggers.			leveraged through partners. Education can occur through partners. If funding is provided by CDC in 2013-2014 this education can be provided through NMDOH and partners		occupants of these 100 homes by 2014.	
EJSG Activities that result in the reduction of harmful exposures and health risks to children and underserved, disproportionately impacted, low-income, minority, and tribal communities, and support community efforts to build healthy neighborhoods	Office of Environmental Justice	$25K	Office of Environmental Justice Small Grants Program	Linda Falk EPAR6	Award project in late 2012 and have completed within 1 year from start date.	In selection process
Point of Use (POU) Water Treatment Systems for Improving Sustainability and Environmental Justice in Colonias Phase 1: Water source review; colonia selection; focus group studies for water needs and perception of POU systems Phase 2: Water quality sampling and analysis; POU selection and lab testing Phase 3: implementation of POUs in selected colonias; water quality monitoring Phase 4: sustainability analyses; reporting of the Paso del Norte Region.	Pan American Health Organization; Border Environment Cooperation Commission; Texas Secretary of State; Texas Health & Human Services Commission; Dona Ana County Health & Human Services	$498,906	EPA STAR Research and Demonstration of Innovative Drinking Water Treatment Technologies in Small Systems	W. Shane Walker (UTEP), Ivonne Santiago (UTEP), John Walton (UTEP), Joe Tomaka (UTEP), Rebecca Palacios (NMSU)	All four phases listed in "Project Description	Starting July 2012, we begun to focus on group studies in Phase 1