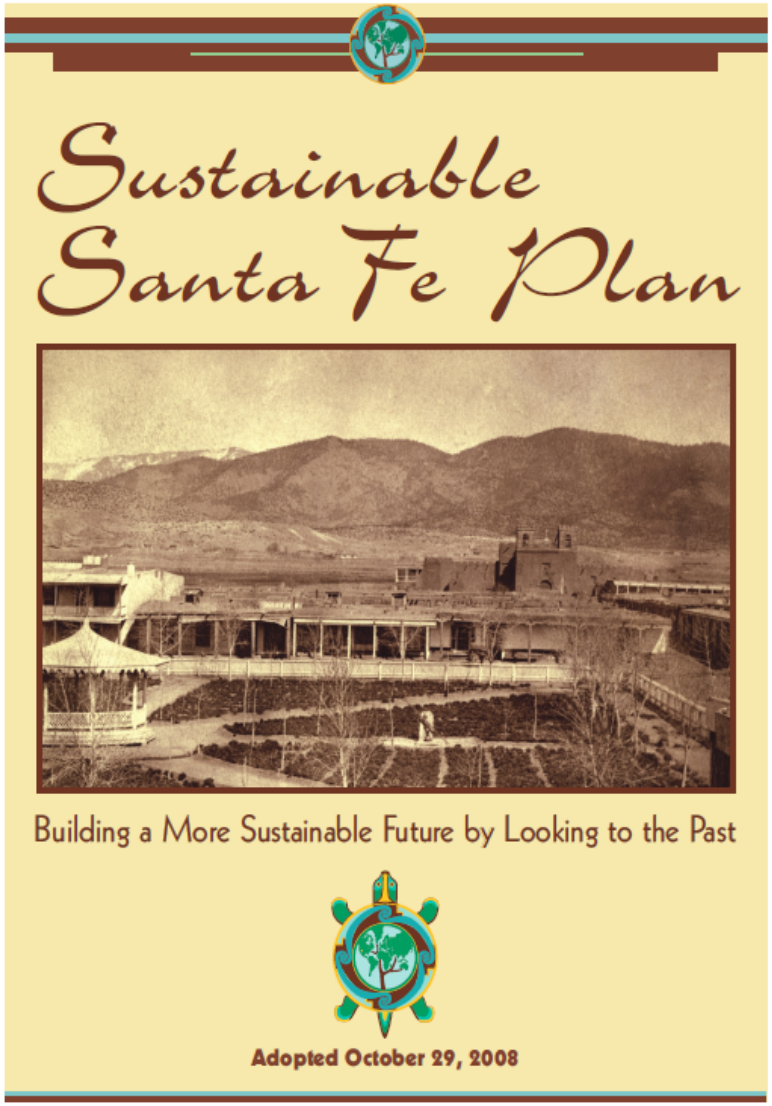

ANNUAL PROGRESS REPORT For 2009

March 30, 2010

INTRODUCTION

The Sustainable Santa Fe Commission, the Youth Advisory Board, and dedicated City staff have prepared this Annual Progress Report for 2009 for the Governing Body and the citizens of Santa Fe to clarify the many steps that were taken during the year 2009 to implement the Sustainable Santa Fe Plan, which was adopted by the Governing Body at the end of 2008.

Santa Fe is alive with community organizations, volunteers, businesses, educational institutions, and City staff who are actively working to create a more sustainable city. This report defines many- but not all, for which we apologize- of these activities and programs that occurred in 2009, and then briefly identifies Barriers and Next Steps. Our economic times may have slowed some actions, but this serves to remind us that our strengths are in our local community and regional assets. We are anxious to have this Progress Report help define and clarify actions for 2010.

Camilla Bustamante, Ph. D., M.P.H.
Chair, Sustainable Santa Fe Commission
March 30, 2010

GREENHOUSE GAS EMISSIONS INVENTORY

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
1-1. Acquire the data needed to complete the Baseline Emissions Inventory.	Partially implemented. Data collected for City municipal operations and for residential electrical usage. Other data have been difficult to obtain, however. Research has been done on how other communities have obtained missing data. Have not yet been pursued due to staff time limitations.	Staff, PNM, State of NM Tax and Revenue Dept. Metropolitan Planning Organization.	Limited staff Time	Seek intern to work on this project.
1-2. Use the software and other means to assess the efficacy of measures recommended in this plan.	Data that have been obtained have been entered into the CAPC software. Without the remaining data, conducting analysis of the projected efficacy of different measures is not possible.	City staff	Limited staff Time	Seek intern to work on this project.
1-3. Set priorities for implementation of plan actions based on their calculated efficacy, cost, requirements, and additional benefits.	Cannot incorporate analysis of the efficacy of plan actions until completion of computer analysis. See item 1-2 above.	City staff	Limited staff Time	Seek intern to work on this project.

CITY OPERATIONS

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
2-1. Develop a workplace training program to help city staff reduce the impacts of their daily operations and educates them to assist in the implementation of energy, water conservation and other aspects of this plan as a part of their work.	Information on reducing impacts of daily work operations for city workers has been incorporated into the employee orientation program. Also, a policy regarding turning off computers, no idling vehicles, and other simple measures was prepared and issued to all city workers.	City of Santa Fe	Additional staff time could be used to create a participatory staff training program.	Revisit city policies and see if adjustments should be made, then resend policy to remind people. Plan for more staff training.
2-2. Follow the recommendations of the energy audits once completed.	13 energy audits have been completed. Energy specialist is conducting similar analyses for other City buildings. The most cost effective and greenhouse gas emission reducing measures have been prioritized and included for funding in the EEBG funding and other stafe funding.	City of Santa Fe	Limited funding. Cannot do all recommended actions until additional funds are available.	Seek other funding sources for the next tier of projects.
2-3. Review the City's purchasing manual and propose revisions that would reduce the impact of city purchases including: reduced packaging, reduced toxicity, increased local and organic food, increased recycled material content, leveraged purchasing power of sustainable products through partnerships with the County and/or the State, increased local and low-mileage purchases, increased waste reduction (reduced disposables), increased recycling, increased water harvesting, and increased energy efficiency.	Not yet implemented.	City of Santa Fe staff.	Limited availability of staff time.	Determine priority level and act accordingly. Possible coordination with SF Food Policy Council's work to prioritize purchase of local food into purchasing manual.

CITY OPERATIONS				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
2-4. Move towards plug-in electric hybrid technology for all appropriate fleet vehicles paired with solar photovoltaic recharge stations.	Several electric vehicles have been purchased by the City's Parking Division, however, PV recharge stations are needed.	City of Santa Fe staff.	City's installation of PV is pending decision regarding third party power purchase agreements from the State.	Work to ensure approval of third party power purchase agreements with the State legislature and the PRC.
2-5. Maximize hydro-electric energy generation capability of City's water system.	Inline flow from water from the reservoir is being used. Additional capacity would come from using solar energy to pump water uphill during the day and then generating hydro power from release of that water during the night.	City of Santa Fe, State of NM legislature, PRC.	This kind of opportunity is dependant upon third party power purchase agreements unless the City bonds for the money.	Work to ensure approval of third party power purchase agreements with the State legislature and the PRC.

GREEN BUILDING CODE

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
3-1. Implement performance based Santa Fe Green Building Codes that recognize the need for phased-in mandatory minimums and offer incentives to builders for performance significantly above the mandatory thresholds.	Residential Green Building Code for new buildings has been developed and adopted, and is being implemented. Codes for existing residential buildings, commercial buildings, and historic buildings are in various phases of development.	City of Santa Fe staff, volunteers from the building, design, engineering, and building energy usage modeling industries.	Limited City Staff time to facilitate code development and implementation.	Continue with new codes and evaluate the Residential Green Building Code's implementation so far.
3-2. Codify long-range commitments and date benchmarks included in the "2030 Challenge".	A resolution was passed with the Residential Green Building Code outlining the anticipated benchmarks to amend the code to meet the 2030 Challenge goals.	City of Santa Fe.	None	Include similar benchmarks for codes under development.
3-3. Develop green building codes and incentive programs for:				
Existing building remodels and retrofits;	Underway. Expect draft for public review in Spring 2010.	City of Santa Fe staff, volunteers from the building, design, engineering, and building energy usage modeling industries.	Limited staff time	Continue development code.
Commercial buildings;	Recently started, expect draft for public review in Fall 2010.	City of Santa Fe staff, volunteers from the building, design, engineering, and building energy usage modeling industries.	Limited staff time	Continue development code.
Structures in historical districts, both new and existing.	Task force approved and members appointed.	City of Santa Fe Historic Division Staff and Task Force members.	None	Start series of meetings using the work of the Residential Existing Green Building Code Working Group and revise as needed to address unique circumstances of historic structures.

DEVELOPMENT AND ZONING CODE

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
4-1. Amend the Development Code to make access to solar exposure a property right thereby encouraging investments in solar equipment and design	Not yet implemented.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	Limited staff time.	Assign priority for implementation of this item.
4-2. Amend the Development Code to encourage use of gray water for landscape watering and other uses such as toilet flushing.	Gray water can be used for landscape watering under certain conditions. Not currently allowed as toilet flush water.	City of Santa Fe Inspection Divisions	City Inspections Division is interpreting that the State does not allow use of grey water.	Work with City and State staff to determine requirements to use grey water for these purposes.
4-3. Amend the Development Code to encourage use of cisterns and other water harvesting techniques that use rainwater to reduce use of tap water for landscape watering.	A checklist has been developed that outlines requirements for installation of cisterms.	City of Santa Fe Land Use staff	Checklist does not faciltate smaller and homeowner (owner builder) installations.	Work with City Land use staff to create standards appropropriate to a range of installation types.
4-4. Amend the Development Code to encourage natural vegetation shading of buildings and hardscape surfaces as vegetation both absorbs CO2 and provides shading from unwanted solar gain in the summer, reducing the need for mechanical cooling.	Not yet implemented, however, the Residential Green Building Code provides points for using vegetation to shade new buildings.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item.
4-5. Amend the Development Code to require subdivisions be laid out to enable maximum feasible use of solar design, solar equipment, and the ability to use stormwater to reduce water demand.	Not yet implemented.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item. Determine if this can be added to the agenda for the Chapter 14 rewrite efforts underway.

DEVELOPMENT AND ZONING CODE				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
4-6. Amend the Development Code to encourage locally grown food to both reduce GHG emissions and prepare for future rises in fuel costs to transport food into the area.	Not yet implemented.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item.
4-7. Encourage Passive Solar Building Design.	Not yet implemented in the Development Code, however, the Residential Green Building Code gives points for passive solar design and the effects will improve the HERS rating.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item.
4-8. Amend the zoning code to incorporate of some aspects of performance zoning to allow for a greater variety of compatible uses which reduces the number and length of vehicle trips.	Not yet implemented	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item.
4-9. Encourage Development of Affordable Energy Efficient Housing	The Residential Green Building Code applies to affordable homes and has been shown to result in savings in out-of-pocket expenses immediately due to energy cost savings which, for affordable homes, can exceed the incremental increase in mortgage cost resulting from increased construction cost to comply with the Code.	Sustainable Santa Fe Staff, the Santa Fe Area Home Builders Association, local architects, home energy raters, building code specialist volunteers.	None	Incorporate concerns of affordablility into the multi-family use of the Commercial Building Code.
4-10. Amend the Development Code to require large development projects and subdivisions to provide safe bicycle and pedestrian infrastructure.	Not yet implemented.	City of Santa Fe staff - Sustainable Santa Fe and Land Use	None	Assign priority for implementation of this item.

CLEAN ALTERNATIVE ENERGY

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
5-1. Reduce Santa Fe's demand for energy through efficiency. (EE)	City received two grants totaling $1.28 million for EE. City has conducting energy audits at 15 of City buildings. An RFB has been issued for lighting retrofits for 20 City owned buildings. It is anticipated that lighting work will be completed within one year. HVAC and DHW (domestic hot water) work to begin at eight different City buildings. Pilot program for LED streetlighting and lighting at parking garages. Work to begin in 2010.	City staff for audits. City staff with content experts developing building codes.	Limited staff and funds.	Issue lighting RFB. Issue LED lighting RFB. Use state price agreement for DHW and HVAC projects.
5-2. Reduce energy demand during peak hours				
5-2. a. Conduct an energy audit which tracks uses of energy by time of day and time of year. Identify those demands that coincide with PNM's peak hours (June to September, 2 p.m. to 8 p.m.) and explore options for reducing those peaks.	Not happening at this time. The emphasis is on energy reduction, and increased solar use does contribute to energy during peak hours.	City staff	Limited staff and funds.	
5-3. Conduct community outreach, such as informational campaigns and "give-aways" of things like compact fluorescent light bulbs and other energy or water saving devices (water pumping requires a lot of energy so water savings also reduces energy demand). This could be done through a new efficiency utility.	Sierra Club has provided homeowners within the PNM service territory over ten thousand free compact fluorescent bulbs (CFL). City has given out small water-saving devices for years. The City would need to seek approval from the PRC to operate an energy efficiency utility. It is unlikely that PNM or the NM Gas Co. would willing give up their existing EE programs.	Sierra Club and City.	PRC is utility friendly	

CLEAN ALTERNATIVE ENERGY

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
5-4. Encourage more renewable energy and distributed generation, including concentrated solar, photovoltaic systems (PV), wind power, microturbines and cogeneration, and possibly larger distributed generation and energy storage projects that could be used to "firm" renewables and lower the need for new power plants and power lines.				
5-4. a. Provide assistance to individuals and local businesses to understand any existing incentives to installing distributed generation within the City and guide them through the process including any forms or contacts with state offices that are needed.	City's website has information on steps required for solar panels. City staff also responds to requests for information. Two events, an alternative energy expo and a water and energy expo are planned for early 2010.	City staff, and private companies.		
5-4. b. Add a solar rights ordinance to the City's Development Code (Chapter 14) to ensure that investments in solar technology, both passive and active, are protected and are easily defended. (Current state law requires people to register their solar right with the county and they then must sue a neighbor that violates that right through the civil court system).	This will be reviewed when this code is revised.	City staff.	Limited staff.	Determine if this could be added to the agenda for the Chapter 14 rewrite currently undersay.
5-5. Develop programs to help people install renewable energy systems.				
5-5. a. Implement a loan program that would provide residents with low interest loans to facilitate the purchase of renewable energy sources and energy equipment and energy efficiency upgrades for buildings.	Homewise provides low-cost loans to income qualified persons for home improvements, including EE and RE. The County's renewable energy district is set be launched on Earth Day, 2010. The City opted in to the program in December 2009. The program will provide loans for renewable energy upgrades to homes and businesses. Loan payments will be collected through the County treasurer.	City and County staff	More funds could be allocated to the Homewise program.	

CLEAN ALTERNATIVE ENERGY

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
5-6. Examine how the City gets its energy and consider alternatives that would reduce dependence on fossil or nuclear fuels to a much greater amount than is currently required by the NM PRC.				
5-6. a. Encourage private or public/private partnerships to develop small-scale renewable energy and distributed generation projects within the City.	City is developing some renewable energy projects on City properties. Solar companies are providing ever-more solar installations. The issue of distribution, however, has unresolved legal implications.	According to PNM, over 1000 PV systems have been interconnected into the grid.		Continue initiating new programs.
5-6. b. The City could consider entering into power purchase agreements (PPA) in order to purchase renewable energy.	The City has entered into nine contracts with SunEdison to provide renewable energy at nine different City facilities.	City and SunEdison	PNM will not allow the City to use a 3rd Party for interconnection and participation in their renewable energy program.	
5-6. c. Consider the development of a regional municipal power utility that could offer efficiency programs and distributed generation, and possibly larger renewable systems, including utilizing more efficient and more ecological High-Voltage DC (HVDC) transmission lines, while still using PNM for base and backup energy supplies, with the goal of avoiding need for new generation and transmission.	Not applicable at this time. If the City/County create a municipal utility, this would be feasible. While HVDC has major advantages, it can be costly, depending on circumstances.		The City is not in a position to define how the utility conducts its business, including what type of transmission facilities to build. This is the role of the PRC.	Look into options to incrementally take on aspects of a municipal utility in conjunction with the County.

CLEAN ALTERNATIVE ENERGY				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
5-6. d. Lobby the state government to pass laws that would allow communities to aggregate their loads and choose their own power suppliers who are providing clean, renewable energy as is being done in California with the Community Choice Aggregation program.	Legal difficulties are unresolved- a possible, more long-range goal.		City staff has been directed not to lobby.	Consider more actions.
5-7. Ensure that as energy rates rise, the low-income families in the community are not left without the means to pay for basic energy needs.				
5-7. a. Require any utility serving Santa Fe, prior to disconnecting a City resident, to notify the city's affordable housing office and provide the opportunity to determine if the household meets the criteria that would prevent their utilities from being disconnected.	Both PNM and the NM Gas Co. are required by law not to disconnect a homeowner during winter months for failure to pay.	PNM & NM Gas Co.	There are no barriers.	No next steps
5-7. b. If the resident earned too much to qualify but still not enough to pay the bills, the City could identify non-profits or develop a funding source to assist such residents.	There is no income limit on the law above.	PNM & NM Gas Co.	There are no barriers.	No next steps
5-8. Enhance the State of New Mexico's program for assisting low-income families with weatherization with complementary programs, including energy-efficiency.				

CLEAN ALTERNATIVE ENERGY

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
5-8. a. Establish a minimum weatherization standard that existing structures would be required to meet either at sale and/or by a specific time in the future. Low-income owners and owners that commit to renting to low-income tenants could be provided assistance either from the State or some other mechanism.	Energy Works did approximately 150 energy audits and minimum weatherization for low-income families. To date, Homewise has provided over $550,000 in low-cost loans to income qualified persons for home improvements, including weatherization, new windows, solar, etc. The development of building code for existing buildings is in progress.	City funded Energy Works program through YouthWorks and Community Housing Trust. City staff and organizations like Homewise.	Limited funding.	Continue work with Homewise.
5-8. b. Lobby the State Legislature for increased funding of low-income weatherization programs.	City staff has been directed not to lobby. City lobbyists could be directed to lobby, while citizens and community groups can be encouraged to support bills.	YouthWorks, Community Housing Trust, Homewise and others.	Limited funding.	Continue seeking funding.
5-8. c. Investigate alternative low-cost methods of weatherization and efficiency, and promote the preferable methods.	Work is moving forward through the Homewise EE & RE program. Small pilot projects of innovative renewable materials not done as yet.	City & Homewise	Limited funding.	Continue work with Homewise.

TRANSPORTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
6-1. Establish mechanisms and provide support for initiatives that increase the variety and use of mass transit.	RailRunner is now providing longer range transportation, with ever-increasing popularity. Santa Fe Trails has conducted studies to determine how to maximize the use of the City's public transit system. Additionally, the City and County have worked together to determine how to maximize use of the regional transit system. Responsibility for regional transit planning has been transferred to the Regional Planning Authority in order to recognize these goals.	Santa Fe Trails and Santa Fe Regional Planning Authority (RPA).	Some barriers were removed by the transfer of regional transit planning to the RPA.	The Commission could work with the RPA to facilitate a comprenhesive systems approach to regional transit planning with an eye towards innovation and maximizing its utility.
6-2. Prioritize zero emission transportation including walking, bicycling, and Electric Vehicles (EVs) both low speed and high speed. EVs include scooters, motorcycles, three-wheeled vehicles, golf carts, ATVs, cars and trucks that operate on electricity.				
6-2. a. Establish safe transportation routes for all forms of zero emission	The need for routes designed specifically for slower electric vehicles is no longer certain. Electric cars currently under development are no longer limited in speed, and thus will not need special routes.	City and County Public Works Departments	Need to wait to determine need.	On hold pending the rapid development of new electric cars.
6-3. b. Offer free or very inexpensive bicycle and/or EV rental systems	Chain Breaker Collective offers inexpensive or work-exchange for reconstructed bicycles. No EV rentals appropriate yet.	Chain Breaker Collective. City and County of Santa Fe	Funding	Take opportunities to promote bicycle use.
6-2. c. Place bike racks throughout the city	Bike racks exist in many places, and future needs should be evaluated.	City and County Public Works Departments	Funding	Conduct and inventory of existing bike racks and evaluate the number and location that are needed.
6-2. d. Expand parking availability and provide opportunities for recharging zero-emission vehicles.	Three charging stations were installed in the City's Railyard Garage in November 2009 for plug-in electric vehicles. To date no one has used them.	City Parking Office	Funding	Promote charging opportunity to public.

TRANSPORTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
6-2. e. Continue the design and construction of a comprehensive pedestrian and bicycle trail system throughout the City.	The following trails were completed in 2009- Arroyo Chamiso Trail extension at Rodeo Road, Sams Club crossing above and below grade to Nava Ade, Acequia Madre Trail extension -Baca Railyard to St. Francis Rail Trail with NMDOT La Tierra Trails (offroad).	Public Works Dept	Funding	
6-2. f. Improve sidewalk conditions and ensure they meet ADA standards.	In multiple areas, the City has upgraded numerous curbs and ramps to meet ADA requirements. Sidewalk maintenance in Santa Fe is property owner responsibility.	City Public Works	Funding	
6-2. g. Increase the bicycle carrying capacity of Santa Fe Trails buses.	All new City buses (Santa Fe Trails) are being outfitted with 3-position bike racks (rather than 2-position racks)	Santa Fe Trails	Limitations on available rack options.	None needed
6-3. Encourage carpooling.	Not yet implemented.	Not sure	Someone to take this on as a project	Find volunteer to create a system to facilitate identificaiton and communication of carpool opportunities.
6-4. Encourage alternative fuels when they're shown to produce less GHG than gasoline or diesel and when their production does not negatively impact food production. Where, appropriate, encourage their production locally.	Three charging stations were installed in the City's Railyard Garage in November 2009 for plug-in electric vehicles. To date no one has used them. The City also makes it's compressed natural gas pump available to anyone with a CNG vehicle. No other actions have been take to implement this item.	City and for profit businesses	People are slow to use new fuel technologies, especially if they need to take the vehicle out of the area when they know they can obtain fuel.	Publicize the City's recharging station and access to CNG.

TRANSPORTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
6-5. Support the development of businesses including sales and service businesses that use, sell, and/or promote lower, low, and no-emission transportation.	Not yet implemented. However, if green transportation businesses were to approach the City for assistance, they would be given priority when fitting within the City's Economic Development Strategy. Other organizations are contributing to this.	Economic Development Department, Santa Fe Business Alliance, S.F. Business Incubator	No new businesses in this area have approached to City Economic Development Division for assistance.	Green businesses in general, which includes green transportation businesses, are already included as target businesses in the City's Economic Development Strategy.
6-6. Seek grants and other financial incentive programs to implement various transportation action items, including bicycle, drive and pedestrian safety education.	The schools and the hospital both conduct on-going bicycle safety courses aimed at youth. Additional activies have not yet been implemented.	Santa Fe Policy Department	This hasn't been handed off to the Police Department to follow up with as the agency responsible for transportation safety education.	Engage the policy department to assist with the development of a comprehensive, multi-modal tranportation safety education outreach.
6-7. Implement “Complete Streets” including retrofitting existing streets where the width of the right-of-way allows.	The City adopted a complete streets resolution. So far this has applied to new roads rather than very much effort placed on existing roadway retofits.	Santa Fe Public Works Department and the Metropolitan Planning Organization	Even with the passage of the resolution, public works projects needs to do more to retrofit existing roads with complete street strategies.	Work with the Public Works Department to increase the priority and require that complete streets be incorporated into existing streets when street maintenance work is done, to the degree feasible.

TRANSPORTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
6-8. Continue and promote the construction, installation and implementation of on-road facilities for use by bicyclists as a safe alternative means of transportation including, but not limited to, signage, sharrows, “road diets,” bike lanes and similar facilities where appropriate, on new and existing roads and streets, especially where they integrate with public transportation.	These are elements of complete streets. See status of item 6-7 above.	Santa Fe Public Works Department and the Metropolitan Planning Organization	Even with the passage of the resolution, public works projects needs to do more to retrofit existing roads with complete street strategies.	Work with the Public Works Department to increase the priority and require that improvements to facilitate bicyle use of roadways be incorporated into existing streets when street maintenance work is done, to the degree feasible.

ECOLOGICAL ADAPTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
7-1. Set an overall city-wide goal of adaptation to climate impacts	Not done except for 1 piece- 7.5.b.- Draft resolution written for plant adaptation by the Plant Adaptation to Climate Change (PACC) Working Group	None except the Plant Adaptation to Climate Change (PACC) Working Group	Lack of City-wide implementation plan, prioritization and training for staff, project funding, community involvement	Develop more detailed plan that reviews policies and ordinances, sets actions for prioritization, develops pilots, and achieves funding
7-2. Create systems that maximize use of rain and storm water for plant support and groundwater recharge	City of Santa Fe's Adopt-an-Arroyo Pilot Project- Arroyo de los Chamisos and at Museum Hill, areas of river restoration and trail; Living River Check-Off, pilot of parking lot permeable pavement, new Residential Green Building code	City, Earth Works Institute, Santa Fe Botanical Garden, Dryland Solutions, Watershed Assocation, River Source, Restoration Ecology, YouthWorks, WildEarth Guardians	Integration of multiple projects into the Sustainable Plan, prioritization and training for staff, project funding, community involvement	Develop more detailed plan that reviews policies and ordinances, sets actions for prioritization, develops pilots, and achieves funding
7-3. Reduce "urban heat island effect"	No progress	No progress	Lack of City-wide implementation plan, prioritization and training for staff, project funding, community involvement	Lower priority for 2010. When appropriate, include shading techniques in projects. Consider adding to the Chapter 14 rewrite efforts currently underway.
7-4. Protect soils as the foundation of adaptation to the impacts of climate change	No progress	No progress	Lack of City-wide implementation plan, prioritization and training for staff, project funding, community involvement	Develop more detailed plan that reviews policies and ordinances, sets actions for prioritization, develops pilots, and achieves funding

ECOLOGICAL ADAPTATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
7-5. Improve support for biodiversity with adaptation techniques	Not done except for 7.5.b. Plant Adaptation to Climate Change (PACC) Working Group initiated	Sustainable Santa Fe Commission and content specialists in the community.	Lack of City-wide implementation plan, prioritization and training for staff, project funding, community involvement	Develop more detailed plan that review policies and ordinances, sets actions for prioritization, develops pilots, and achieves funding

WATER CONSERVATION

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
8-1. Develop a Water Conservation Strategic Plan	The Water Conservation Office developed the first water conservation plan in 2001 and will revise the plan in 2010.	City of Santa Fe Water Conservation Office and Santa Fe Water Conservation Commission	None	Follow up on 2010 update
8-2. Expand Rebates and Incentive Programs	8-2 The Water conservation Office is implementing a new and expanded rebate program on January 1, 2010. The rebates include: - Tier 3 high-efficiency washing machine $480 - High-efficiency toilet (HET) $175 - Waterless urinal $630 - Rain barrel (50 – 99 gallon) $ 12 - Rain barrel (100 – 199 gallon) $ 25 - Rain barrel (200 – 299 gallon) $ 50 - Water harvesting systems (per gallon) $ 0.25 - Commercial Process Efficiency (CPE) - Irrigation Efficiency Program (IEP) Commercial (CPE) rebates are not restricted to specific rebates, but are open to water saving retrofits of water conservation technologies. Irrigation efficiency upgrades within the program will qualify for rebates, such as weather-based controllers, rain shut-offs, and moisture sensors.	City of Santa Fe Water Conservation Office and Santa Fe Water Conservation Commission	None	Follow up on January 2010 implementation and learn how well the programs work.
8-3. Adopt New Technologies to better track water use and then help customers to conserve more easily.				

WATER CONSERVATION

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
8-3. a. Improve billing system to better track supply-side infrastructure and water use by customers as well as to validate the effectiveness of new conservation measures.	A system wide program is not being implemented; however, the Water Conservation Office is implementing a tracking system for rebate customers in order to determine the effectiveness of various conservation measures.	City of Santa Fe Water Conservation Office and Finance Dept.	A new billing system would be useful as well as water tracking software that allows for more data to know which programs are most effective.	Implement new water tracking software.
8-3. b. Monitor water use with Fire Flies and Kopy Caps	Fire fly technology has been shown not work and we are not pursuing an implementation strategy.	City of Santa Fe Water Conservation Office	None	None
8-3. c. Broaden the use of, and consider requiring, a variety of water saving appliances	The City's Residential Green Building Code requires that people select sufficient water conservation options from a menu of choices to receive the minimum number of points in that category. This is a hybrid between a voluntary and a mandatory system as you are required to get points, but you can choose how to do them. Similar requirements will likely be included in the other green building codes now under development. No consideration has been given to requiring water conservation appliance if no building permit is being sought.	City of Santa Fe Housing and Community Development and Land Use Departments. Plus the City of Santa Fe Water Conservation Office for incentive-based voluntary programs.	The Federal government has a preemption on water conservation appliances such that no State or, by extention, municiple government, may require equipment that is more water conserving than the federal minimum standard. By offering people a choice of how they conserve water without dictating how, the green building codes have complied with this law.	Continue to develop water conservation requirements in greater range of green building codes and continue the incentive-based voluntary program for existing buildings.
8-3. d. Reduce unnecessary public and private landscape watering	The new Irrigation Efficiency Program beginning January 1, 2010 will address irrigation efficiency in the landscape.	Water Conservation Office		Follow-up on Irrigation Efficiency Program.

WATER CONSERVATION

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
8-4. Proactively Plan and Run Tests to Identify Leaks	Leaks detected 2 ways- with hired contractors for testing miles of City water lines and on customer side, when leaks are identified through meter readings, customers are notified.	Transmission and Distribution (T&D) section of the Water Division and contractors		Continue hiring contractors.
8-5. Expand existing residential leak investigation/survey program to include other water customer sectors.	All water customers can request a water audit. Our priority has been high water use customers with leaks and/or high outdoor water consumption.	Water Conservation Office	Water Conservation programs are limited by the lack of staff.	
8-6. Expand Public Outreach and Education (see Section 11, Education and Outreach)				
8-6. a. Require Irrigation Certification from the New Mexico Irrigation Association for some irrigation installations.	Required certification is not being pursued at this time. With non-City contractors, certification should be state-wide. City is "promoting" certification.	Water Conservation Office	State-wide acceptance of required certification.	Continue promotion of certification.
8-6. b. Improve the City website to include water conservation information for residential and commercial customers that is both useful and interactive.	The City of Santa Fe's website includes water conservation information and the Water Conservation Office strives to improve and keep the site updated.	Water Conservation Office	None	Continue to keep the website up to date as new water conservation technologies are developed and proven.
8-6. c. Create and maintain public demonstration gardens throughout the City.	The Water Conservation is developing three demonstration gardens: at the Water Division, Water Conservation Office, and a median at Calle Lorca and St. Michaels.	Water Conservation Office	None	Continue work on gardens and seek opportunities and partnerships to expand to other areas.
8-7. Develop a Strong Compliance and Enforcement Program	During drought years, the Water Conservation Office hired staff to enforce water restrictions (stage 2 & 3). We no longer have the positions available due to the recent budget cuts.	Water Conservation Office	Funding for enforcement officers	Seek to make reinstatement of enforcement positions a priority.

WATER CONSERVATION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
8-8. Expand Support for Water Conservation Activities	The number of staff to accomplish education and outreach and other related programs limits the Water Conservation Office. 2009 is an example of a reduction in education and public outreach and the trend will continue unless staff is increased.	Water Conservation Office	Funding for educational staff.	Seek to make reinstatement and expansion of educational positions a priority as the economy rebounds.
8-9. Initiate a Program to Maximize Water Harvesting	See new rebates described in item 8-2. Additionally, the Residential Green Building Code incentivizes water harvesting.	City of Santa Fe Water Conservation Office and Santa Fe Water Conservation Commission	None	Follow up on January 2010 implementation and learn how well the programs work.
8-10. Initiate a Program to Process and Utilize Recycled Water for Multiple Purposes	See new rebates described in item 8-2.	City of Santa Fe Water Conservation Office and Santa Fe Water Conservation Commission	None	Follow up on January 2010 implementation and learn how well the programs work.
8-11. Continue and increase the use of treated effluent.	Treated effluent is used for construction sites, Marty Sanchez golf course, etc. and requires discharge permits for all users.	Waste Water Management Div.	Funding for next construction project	Pipe for SouthWest sector
8-12. Consider the energy requirements of any potential new water sources and seek opportunities to use clean, renewable energy sources for the energy requirements of both existing and new water sources.	Developing plans for Buckman Direct Diversion (BDD) Project to meet a portion of power requirements with PV solar	City and BDD	PNM restrictions and requirements	Finalizing negotiations with PNM

SOLID WASTE REDUCTION

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
9-1. Conduct an Efficiency Analysis of the City and regional waste stream and adopt a Zero Waste ordinance that recognizes the viability of gradual replacement of landfills with sustainable enterprises that create local jobs and local economic development.	The City has already increased business recycling by charging 1/2 rate of trash, and provides free recycling for schools. State offices are offered recycling with a charge. If all recycling-including green waste, white waste, and tires, were included with the curbside figures, the City might already be at 30% total. Also, the Santa Fe Solid Waste Management Agency (SFSWMA) hired Zia Engineering Consultants in 2009 to develop the Comprehensive Solid Waste Management Plan (CSWMP) for the City and County which includes expanding waste reduction, reuse, and recycling activities.	The City. Santa Fe Solid Waste Management Agency (SFSWMA) and Zia Engineering Consultants	Time required for results.	Continue working for completion of the Comprehensive Solid Waste Management Plan
9-2. Aggressively increase business recycling efforts, including, but not limited to, providing incentives to businesses and other organizations and facilities that reduce the volume of wasted resources from their facility by set percentages that increase over time.	In 2009, the City planned "Pay As You Throw" (not begun until January, 2010). Businesses now have a selection of options for curbside recycling at one-half the cost of trash. Also See 9-1.	See 9-1	Time required for results.	Continue working for completion of the Comprehensive Solid Waste Management Plan

SOLID WASTE REDUCTION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
9-3. Establish new City purchasing policies, and other City operations, and propose changes that would reduce waste and embodied energy, reduce GHG emissions, provide preferences for vendors that reduce waste and pollution, and provide preferences for vendors that have “Take Back” programs to reduce waste. (See Section 2, City Operations)	City has increased its purchasing preference for local companies to support the local economy. A program for assessing environmental attribute preferences and related guidelines has not been developed yet.	City	Staff time	Develop program to support the City's environmental purchasing guidelines. Cooperate with the County and State to get volumn discounts which might make some items more price competitive.
9-4. Work with the construction and demolition industries to develop initiatives for Zero Waste.				
9-4. a. Investigate best uses for separated non-engineered lumber to include shredding by the City tub grinder.	See 9-1	See 9-1		See 9-1
9-4. b. Reject construction waste that is divertible as landfill material at the transfer station. Require that such loads be sorted and recycled.	See 9-1	See 9-1	Need the pending Comprehensive Solid Waste Management Plan	See 9-1
9-4. c. Encourage the use of natural local construction materials that create few wasted resources.	The City has developed and approved a new Green Building Code that provides points for local construction materials.	City staff and citizen advisory group	Lack a report on possible building material options and support needed. Staff time limited.	If can get volunteers, create a report to analyze options and suggestions.
9-5. Divert re-use items at transfer station.	See 9-1	See 9-1	Need the pending Comprehensive Solid Waste Management Plan	See 9-1

SOLID WASTE REDUCTION

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
9-6. Switch fuels for solid waste vehicles and transfer station and landfill equipment such as the tub grinder and chippers from diesel and gasoline to bio-diesel or other fuel with less GHG emissions when the production of those fuels does not negatively impact food production. For transfer station and landfill equipment, such a switch should be completed by 2012 with possible interim goals to mixed fuels by 2009. The specific goals for vehicles are presented in Section 6, Transportation.	See 9-1	See 9-1	Need the pending Comprehensive Solid Waste Management Plan	See 9-1
9-7. Prepare and conduct on-going outreach and education as per the Core Values for education as described in section 11, Education and Outreach, of this Plan to strive to Zero Waste including:				
9-7. a. Development of a brochure for consumer purchasing decisions by 2008;	No progress.	None.	Staff time.	On hold.
9-7. b. Increase composting, and recycling participation with a goal of 85% participation rate of city residents and businesses by 2010 and a reduction in the weight of waste of 75% of the 2003 baseline by 2015;	See 9-1	See 9-1	Need the pending Comprehensive Solid Waste Management Plan	See 9-1. Also, encourage the State to pass a bottle bill and then institute automatic collection of other recyclables.
9-7. c. Encourage people to reuse bags or containers.	Many groceries and some other stores now sell reusable bags. Natural Grocers has offered a new model-totally eliminated free grocery bags, offering many bags for purchase or the reuse of cardboard boxes. The option of having an ordinance still remains if we are to achieve higher success rate.	City and commercial stores	Only voluntary so limited results.	An ordinance designed to reduce packaging would be valuable.

SOLID WASTE REDUCTION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
9-8. Seek funding to develop a reusable bag, with the option of stores adding their logo, along with a “Sustainable Santa Fe” logo, to encourage bag reuse. This can be combined with an ordinance restricting free bag distribution from stores.	Many groceries and some other stores now sell reusable bags. Natural Grocers has offered a new model- totally eliminated free grocery bags, offering many bags for purchase or the reuse of cardboard boxes. The option for an ordinance still remains for higher success rate.	City and commercial stores	Only voluntary so limited results.	A special bag is probably not needed, but ordinances designed to reduce packaging would be valuable.
9-9. Explore opportunities to minimize packaging.	See 9-7. c.	City and commercial stores, restaurants and other businesses.	Only voluntary so limited results.	Ordinances designed to reduce packaging could be valuable.
9-10. Explore opportunities to sell carbon offsets (credits) gained by recycling and use the proceeds to further recycling efforts.	No progress.	Comprehensive Solid Waste Management Plan	Need the pending Comprehensive Solid Waste Management Plan	This could be incorporated into the large the Comprehensive Solid Waste Management Plan
9-11. Seek grant funds to conduct a landfill gas exfiltration analysis of the City’s landfills including an evaluation of any potential reuse or remediation.	See 9-1			See 9-1
9-12. Expand the recycling program to add safe compostable food wastes.	See 9-1	See 9-1	Need the pending Comprehensive Solid Waste Management Plan	See 9-1
9-13 Increase Household Hazardous Waste collection to once per quarter.	One day a year was alloted in 2009. 2010 will probably have none.	City	Need the pending Comprehensive Solid Waste Management Plan	See 9-1
9-14. Provide for curbside collection of electronics waste (E-waste)	No curbside but one day a year, its available	City	Need the pending Comprehensive Solid Waste Management Plan	See 9-1

SOLID WASTE REDUCTION				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
9-15. Santa Fe should follow through with the “Pay as you throw” system to increase recycling participation.	The City developed the plan in 2009 and implementation began in Jan., 2010.	City	Need to keep increasing incentives and education.	Need to keep increasing incentives and education.
9-16. Explore the feasibility of implementing a green waste collection program for both residential and commercial customers.	The City does accept large amounts of green yard wastes that are shredded for mulch. See 9-1	See 9-1		See 9-1
9-17. Review operations at the sanitary wastewater	The City worked on methane recovery from the wastewater treatment plant to partially power the treatment process.	City		Continue working on methane recovery and other options.

FOOD SYSTEMS

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
10-1. Set a target for local food.	Not done		Need multi-group concensus to create a city resolution	Identify leader to initiate this proposal.
10-2. Design and implement a City Harvest (food within the city) program to create multiple food growing, processing, storing, and selling opportunities.				
10-2. a. Create collaborations among groups that work within the city.	The Santa Fe Food Policy Council was created to help facilitate relationships among groups	SF Farmers Market, Farm to Table, County staff, City staff, Kitchen Angels, Earth Care	Clarification on roles of Commission's food group and Food Policy Council	Clarifiy roles and responsibilities
10-2. b. Review the variety of urban harvest programs that are happening in the U.S. and elsewhere to expand awareness of multiple techniques and to develop multiple pilot research projects to determine the most productive and sustainable methods for Santa Fe.	Sustainable Santa Fe Commission has researched multiple urban agriculture models, with several applicable to Santa Fe	Sustainable Santa Fe Commission	Identification of persons and organizations to begin community education on urban food production potentials	Identify persons and organizations for community urban ag education.
10-2. c. Identify and reduce barriers- legal, economic, educational, etc. to urban agriculture including the retailing of food	Food Policy Council is conducting a Community Food Assessment, La Montanita Coop Foodshed and SF Farmer's Market and Institute work on regional food, SF Business Alliance's Food and Fuels program is working with producers and consumers to eliminate barriers, State change to licensing requirements for home kitchens	SF Farmer's Market and Institute, La Montanita Coop, Food Policy Council, SF Business Alliance, State	Need additional focus on intensive urban food production	Conduct Community Food Assessment and connect to Sustainable SF Plan.

FOOD SYSTEMS

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
10-2. d. Work with City departments on solutions, including increasing the availability of: Land and other resources for food purposes; Water resources, including water reuse. See Section 8, (Water Conservation); and Waste conversion to provide safe inputs (see section 9, Solid Waste reduction).	City community gardens in public parks. School gardens	Parks Division, Santa Fe Residents, Santa Fe Community Gardens, Earth Care, Railyard Stewards, Master Gardeners	Design limitations in terms of individual plots, water, outreach and visibility	Continue expanding and improving program
10-2. e. Develop a plan with targets to promote “Yard to Table".	No progress	To be determined	Identification of persons and organizations to begin	Identify persons and organizations to begin
10-2. f. Map and Inventory Productive Land and other locations for food	No progress- the volunteer assigned moved away.	To be determined	Identification of persons and organizations to begin	Identify persons and organizations to begin
10-2. g. Create a matching program between those who have productive space and those who would like to garden/grow food in such space, including temporary occupancy programs (TOPs) and SPIN (Small Plot INtensive growing) that allow people to earn tens of thousands of dollars using other people’s land including backyards	No progress - interest expressed at community meeting needs follow-up	To be determined	Funding needed to set up a system and a community website	Identify persons, organizations and funding to begin
10-2. h. Incorporate local food into Economic Development and Planning.	Further discussions needed- was discussed for NW Quadrant and Commission met with City staff on possible site for City Farm	City and Sustainable SF Commission	Identification of opportunties and possible changes	Begin discussions
10-2. i. Include food growing opportunities into all affordable housing as a critical component of economic and food security.	Further discussions needed- was discussed for NW Quadrant and Commission met with City staff on possible site for City Farm	City and Sustainable SF Commission and community advocates	Identification of opportunties and possible changes	Begin discussions.

FOOD SYSTEMS				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
10-2. j. Develop programs for urban gardening for the homeless and low-income people, as well as therapy for those with mental and physical disabilities and for urban “at-risk” youth, ex-cons, etc.	City Community Gardens. Food Not Bombs Program of Earth Care with underserved youth plots at each of the gardens and discussion with Somos and Zona Del Sol for two youth-led gardens. Earth Care's Teacher Institute trained teachers to integrate food education. Alvord "sustainability magnet school" integrated food curriculum. Youth Works greenhouse. Acequia Association works with youth.	Santa Fe Community Gardens; Food Not Bombs, Teacher Institute, and Youth Allies of Earth Care; Youth Works, Earth Works, Acequia Association and other community advocates	Uniting various groups to identify opportunties and possible actions	Identify leadership to develop coalition.
10-2. k. Dedicate municipal water resources to food production.	Not done	City- Water Division and Water Conservation, possibly Parks	Not identified as yet	Identify focal person to begin these discussions.
10-2. l. Develop neighborhood centers for home economics, sustainability, and food-related processes, including shared community facilities such as greenhouses, facilities for food storage, and community kitchens.	Work by County and SFB Alliance to support a community kitchen space in the shorterm. Community kitchen efforts by Santa Fe Tea at Oshara. Some long-term planning and assessment had been done.	City and County, various non-profits and business entities	Identification of funding and sponsoring organization	Identify focal person to begin these discussions.
10-2. m. Provide educational resources for techniques such as water re-use from roof-tops, gray water for institutional re-use, roof-top gardens, and organic food production.	Resources include: City's Water conservation staff and Children's Water Conservation Poster Contest, community talks by Brad Lancaster and others, various businesses installing water harvesting systems.	City's Water conservation staff and Water Conservation Committee, plus private companies doing installations, and non-profits.	Expansion of current efforts	Identify focal person to begin these discussions.

FOOD SYSTEMS

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
10-2. n. Develop guidelines for appropriate growing in Santa Fe based on traditional and appropriate dryland gardening techniques (Waffle gardens, perennial polyculture and mulching systems using locally available materials and living mulches, careful varietal selection tailored to urban food production, etc.).	Miscellaneous training programs use a variety of methods. More training materials and programs are needed, some being tied to community gardens, etc. plus ecological adaptation activities.	Certain landscaping businesses, local trainers, non-profits	Development of training sessions and materials for city staff and community members, plus possible new guidelines available on websites	Identify sources of funding to begin initial steps.
10-2. o. Explore the feasibility of adding acres of ecological intensive greenhouses such as the urban model "Growing Power" after a pilot project has been adapted to local conditions.	City staff and Commission wrote Federal EPA grant; City Resolution to allocate staff time to siting analysis and preliminary research	City staff and SSF Commission, County, and potential nonprofits	Didn't receive the EPA grant.	Identify other sources of funding to begin initial steps
10-3. Develop a Foodshed (within the 300 miles range) Program in Collaboration with Regional partners.				
10-3. a. Hire the City Harvester to coordinate both programs, within the city and relationships outside the city.	None	City not hiring new staff	Funding needed	Seek funding
10-3. b. Build on existing programs by creating collaborations and partnerships with regional initiatives for both private and governmental programs.	Numerous organizations are participating in multiple aspects of our local food movement, and the need to expand is recognized.	Coalitions of these and additional groups- Santa Fe Farmer's Market and Institute, Foodshed Project of La Montanita, Food and Fuels and Farm to Restaurant Projects of SF Business Alliance, Food Policy Council, Earth Care, and more.	Identification of more advanced support and critical elements for expansion	Identify more advanced support. Earth Care's Food Security AmeriCorps Proposal, if granted, could provide staffing later in 2010.
10-3. c. Preserve Productive Land.	None known in city limits	None known in city limits	Need collaboration of groups	Need community organizer to draw groups together.

FOOD SYSTEMS				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
10-3. d. Explore foodshed-wide policies such as lobbying to keep water rights tied to agricultural lands.	NM Acequia Association lobbies, adjudicates and holds conferences	NM Acequia Association and possibly other organizations	Need collaboration of groups	Need community organizer to draw groups together.
10-3. e. Reduce transportation by cooperative programs for back-hauling (using empty trucks returning from deliveries), sharing shipments, etc.	Foodshed Project La Montanita; SF Business Alliance and Earth Works talking about youth crew to help with distribution	Foodshed Project La Montanita; SF Business Alliance and Earth Works and other non-profits and businesses	Need to strengthen and expand actions	Need community organizer to draw groups together.

EDUCATION AND OUTREACH				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
11-1. Identify training and education needs within each section of this Plan, eliminating overlap while recognizing synergistic opportunities.	List has been generated. Progress is being pursued in each of the areas of the plan. Additionally, Earth Care has submitted a federal AmeriCorps grant application that would create 15 full-time positions for young professionals to be placed with local organizations and the City. Five of these potential positions will work with the City to help implement various sections of the Plan with a focus on education.	Sustainable Santa Fe Commission & Earth Care	Barriers vary depending on area of Plan. In general, education activities are limited by staff time. Matching funds are needed for AmeriCorps proposal.	Get the AmeriCorps grant. Work to integrate education efforts and set priorities for 2010/11
11-2. Identify and develop a curriculum integration task group made up of local public and private K-12 school teachers as well as climate and sustainability education groups.				
11-2. a. Identify local public and private K-12 schoolteachers.	A list of over 75 teachers integrating sustainability education into their classrooms has been compiled.	Earth Care, Earth Works, Earth's Birthday Project and RiverSource all work with teachers in this arena. Earth Care has compiled a list.	None	Continue to provide educational resources to these teachers as they become available through the implementation of the Plan.
11-2. b. Identify qualified technical resources for teacher continuing education in concepts and subject areas related to climate change and sustainability e.g. alternative energy, ecology, water resources, diversity, etc.	Teacher training programs offered through local organizations and supported by local foundations and the SFPS provide continuing education resources for teachers and community educators.	Earth Care, River Source, Earth's Birthday Project, Earth Works Institute	Funding. PED funding was cut, impacting most trainings.	Support state funding for this kind of training.

EDUCATION AND OUTREACH				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
11-2. c. Provide task group members with training on climate change and sustainability topics.	No formal training have been held for the Commission and Task Groups explicitly. However Commissioners send out notices of relevant trainings sponsored by other community groups and task members have participated in these opportunities to varying degrees. Examples include Sustainable Santa Fe Conference in summer 2009, City's Water & Energy Expo, Sierra Club's Climate Change Seminar Series, etc.	Almost all nonprofits in Santa Fe working on environmental and/or community issues hold public education events throughout the year. The City also hosts a number of public education events.	Staff Time	Create website clearinghouse to streamline outreach efforts for these events.
11-2. d. Facilitate the development of an integration plan for sustainability in the school system, and respective schools.	Sustainability Task Force formed in 2009 by Earth Care works to develop plan for sustainability education throughout public school district.	Coordinated by Earth Care includes teachers, administrators, environmental educators	Funding	Task Force continues to seek funding to support staff time for coordination of the group's work
11-2. e. Establish incentives for integration of sustainability concepts into local schools.	Currently no incentives exist. However the District has integrated some sustainability education into their professional development training schedule, enabling teachers to fulfill their annual professional development requirements as well as receive a small stipend for their participation in these trainings.	Santa Fe Public School District, Earth Care	No Child Left Behind. Need to educate policy makers at the State level, staff time to research incentive schemes, propose to policy-makers, etc.	Sustainability Education Task Force is working to develop incentive schemes to propose to legislature, district, or individual schools
11.3. Work with the State Department of Education and SFPS to have them accept sustainability as one of their primary learning goals and toward the integration of Sustainability as part of the K – 12 Standards and Benchmarks	Sustainability Task Force is working to develop policy recommendations along these lines.	Sustainability Task Force, Alvord Community School, *No Child Left Inside* state-wide Coalition	No Child Left Behind. Need to educate policy makers at the State level, staff time to research incentive schemes, propose to policy-makers, etc.	Sustainability Education Task Force needs to continue working on this.

EDUCATION AND OUTREACH

ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
11-4. Identify informal educational resources for climate and sustainability education.				
11-4. a. Conduct a community-wide asset mapping of organizations and resources for climate and sustainability education at all levels e.g. informal and formal, K-12 and post secondary etc. and identify goals, objectives, funding sources and timeline for existence of such programs or assets within year one of this Plan.	A Draft asset map exists.	Earth Care	None	With ongoing support, work will be continued and linked to Commission website
11-4. b. Develop a resource guide or work with existing projects to provide a resource list to consumers of such information	Sustainable Santa Fe Magazine is meant to serve this purpose	Earth Care	None	Any requests can be made to Earth Care in order to have the Guide more effectively meet this objective.
11-5. Develop both formal and informal (non-degree seeking) education programs.				
11-5. a. Develop materials for community based action that addresses climate change by working with a variety of resource organizations and others.	Materials and programs exist in different places - no central clearinghouse exists. No formal Coalition or central body is coordinating climate change related efforts.	Sierra Club, Earth Works, Youth Works, Earth Care, Wild Earth Guardians, Quivira Coalition, Local Energy, Earth's Birthday Project, Positive Energy	Funding needed for an offical Community Climate program like Boulder's. Lack of Central Clearinghouse	Develop website

EDUCATION AND OUTREACH				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
11-5. b. Develop a cadre of informed community members from many community sectors that can effectively utilize the City of Santa Fe Community Climate Education session(s) to implement actions and programs within their respective groups.	Informal groups have been meeting with no direct relationship to Commission/City. No Progress has been made in developing Community Climate Education program.	Climate Change Study Group (members of Earth's Birthday Project, Wild Earth Guardians, and others), Training/board game on Waste Reduction by ClimateToday, 350 Coalition (hosted Santa Fe's public event for the International Day of Climate Action, coordinated by New Energy Economy and Earth Care), Transition Towns	Staff Time	Determine if idea of Community Climate Education Sessions is still relevant. Move forward in the development of these sessions or alternatives.
11-6. Support local and regional educational initiatives that strengthen more local markets for sustainable products and services.	Santa Fe Farmer's Market Institute and Santa Fe Business Alliance promote local food, as does Edible Santa Fe. The City supports initiatives at the Santa Fe Community College, including the green jobs program, and other regional vocational and higher education institutions to provide workforce development training in the areas of climate change mitigation and sustainability.	Santa Fe Farmer's Market Institute, Santa Fe Business Alliance, Edible Santa Fe. SF Community College Sustainable Technologies Program. Also, Northern NM College, Agricultural training and environmental science department. GreenFire Times.	Need to expand to increase percentages of local economy. More direct support could be offered by the City with additional funding.	Compile a list of programs in the area and determine specific needs that the City may be able to help with, for example, providing a link between higher ed programs and SFPS.

EDUCATION AND OUTREACH				
ACTION ITEM	IMPLEMENTATION STATUS	GROUPS	BARRIERS	NEXT STEPS
11-7. Work with existing initiatives such as Bioneers and others to establish an annual sustainability education conference for teachers, parents, and youth that focuses on the integration of sustainability and related topics into the schools system, while providing resources to its participants.	Annual event is currently happening.	Earth Care, Seed Sovereignty Symposium, Acequia Association, United World College, Bioneers	Funding	Identify funding in order to ensure this work continues and expands to larger audience.
11-8. Direct City support and funding towards educational materials development and training, and when appropriate, towards organizations that offer needed solutions.	The City currently funds vocational training programs for youth to address some of these areas.	City's Park's, erosion and river work with Youth Works and Earth Works, Youth Works' Green Collar Jobs Program	Funding	More funding covering more wide-spread education materials, resources, and programs.