City of Santa Fe

Arroyo Improvement Projects

General Obligation Bond 2013
Benefits:

- Improve water security for future development and economic growth.
- Reduced risk of loss of property and other damage from large floods.
- Improve watershed health.
- Estimate direct construction jobs: 16.67 (annual, full-time equivalent).
- Bond funding will improve watershed health by correcting substandard drainage through a number of arroyos.
- This will allow more water to recharge our local aquifer and keep our water supply secure.
- Compliance with EPA Regulations.
More than 50 projects have been identified citywide.

Issues Include:

- Undersized and damaged culverts
- Sediment build-up
- Erosion
- Grade Control
- Protection of infrastructure
- Compliance with EPA Regulations
Infrastructure drainage improvements are expected for these arroyos:

- Arroyo Cabra,
- Arroyo de la Piedra,
- Arroyo de los Chamisos,
- Arroyo de los Pinos,
- Arroyo en Medio,
- Arroyo Mascaras,
- Arroyo Mora,
- Arroyo Rosario,
- Arroyo Saiz,
- Canada Ancha Arroyo
- Santa Fe River
Arroyo Classification System

- Drainage Function
- Ecological Function
- Social Function
Classification Rating for each of the Functions as follows:

– Classification as a low priority would have a rating of 0 to 8.

– Classification as a medium priority would have a rating of 9 to 16.

– Classification as a high priority would have a rating of 17 to 24.
Drainage function

- Will be weighted based on three categories
  - **First** - is how well the stream segment functions to drain the watershed or properties.
  - **Second** is in regard to the size of the tributary basin that is drained by the stream segment.
  - **Third** - is based on the type of waterway hydrology. An artificial waterway example is an acequia or a dam.
Ecological function

- **Ecological function** will also be weighted based on three categories
  - **First** is based on the level the channel is disassociated from the riparian zone (vegetated area along the river)
  - **Second** is how well the stream segment functions for wildlife habitat
  - **Third** is if the stream segment has potential threatened or endangered species habitat (Ecological Significant Waterways and Protected Species, Marron & Associates, June 2009 for reference).
Social Function will be weighted based on two categories.

- **First** is based on the type of recreational use. If the stream segment is used for dog walking or picnicking, it would be weighted accordingly.

- **Second** is how the stream segment appears visually. If it is pristine without any human disturbance, it would be weighted accordingly. Examples of human disturbance include roads, fences, utility poles, man-made armoring or debris.
Sediment Build-Up
Protection of Infrastructure
Damaged or Undersized Culverts
Arroyos provide sustenance and shelter for a variety of plants

- trees,
- brush
- flowers;
- straight-aways
Arroyos are feeding grounds for a variety of animals:

- coyotes,
- rabbits,
- birds,
- reptiles, insects
- etc.,