


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
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- A stylized, dark teal mountain range graphic is located in the bottom right corner of the slide, partially overlapping the text area.

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
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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
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Arroyo Classification System

- ◆ **Drainage Function**
 - ◆ **Ecological Function**
 - ◆ **Social Function**
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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.
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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

- ◆ **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.

Erosion



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.,

