

HKM  
Engineering

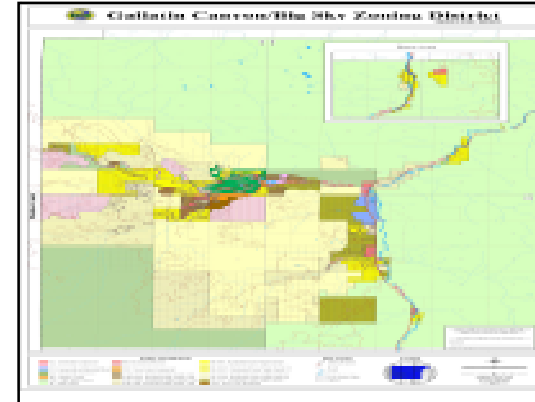


## CANYON AREA WASTEWATER STUDY

Preserving water quality while planning for the future

### Study Goals

1. Evaluate Collection System Alternatives
2. Treatment Alternatives
3. Disposal Alternatives
  - Groundwater
  - Spray irrigation / Winter Storage
  - Snow Making
  - Sub-Surface Drip Irrigation
  - Level 2 Sub-Surface Irrigation



Zoning Classification	Gross Area	Reduced <sup>4</sup> Area	Dwelling <sup>5</sup> Units	Future Flows	
				NO CUP's (gpd)	CUP's Allowed (gpd)
RC-SF-1 (1 unit/acre)	360 acres	240 acres	240	45,814	91,627
RC-SF-5 (1 unit/5 acre)	774 acres	519 acres	212	20,091	40,181
RC-SF-20 (1 unit/20 acres)	327 acres	227 acres	11	2,153	4,347
R-SF-7500 (1 unit/7500sf)	361 acres	251 acres	1,129	213,476	640,332
R-MF-3500 (1 unit/3500sf)	56 acres	33 acres	369	69,300	69,300
Community & Commercial	252 acres	252 acres	2,232	620,000	558,000
Community Facilities	14 acres	14 acres	N/A	3,900	3,900
Recreational Business	58 acres	58 acres	N/A	119,460	119,460
Average Daily Flow in gallons per day				1,094,194	1,527,147
Peaking Factor (Flows)				2.76	2.6
Peak Flow in gallons per minute				2,097	2,767



### Collection System Alternatives

- |  | <u>Estimated Cost</u> |
|--|-----------------------|
| • Conventional Gravity                     | \$8,952,000           |
| • Small Diameter Gravity with Septic Tanks | \$8,306,000           |
| • Small Diameter Pressure (Grinder Pumps)  | \$15,022,000          |
| • Small Diameter Pressure (STEP)           | \$18,026,000          |
| • Vacuum Assist Sewer                      |                       |

