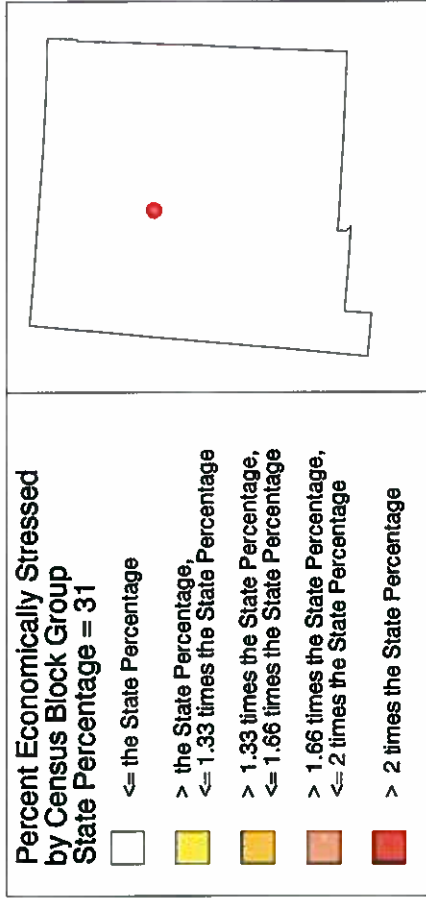
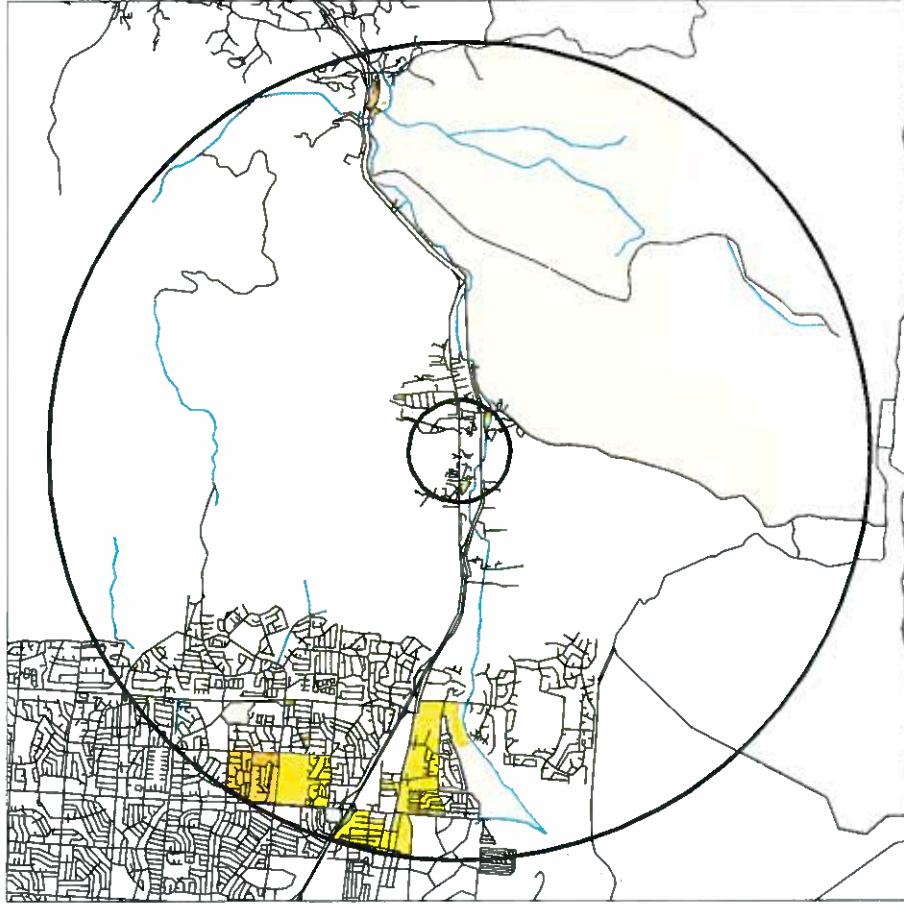


Appendix C

Potential Environmental Justice Index

Carnuel Water Project, Bernalillo county, NM

Economic Status - Degree of Vulnerability (DVECO)



Potential Environmental Justice Index for Two Study Areas	1 Sq. Mile	50 Sq. Mile
Total Population	337	37732
Population Ranking (PF)	2	2
Percent Economically Stressed Economic Status (DVECO)	27.6% 1	20.2% 1
Environmental Justice Index	2	2

Longitude: -106 27 06 Latitude: 35 03 51



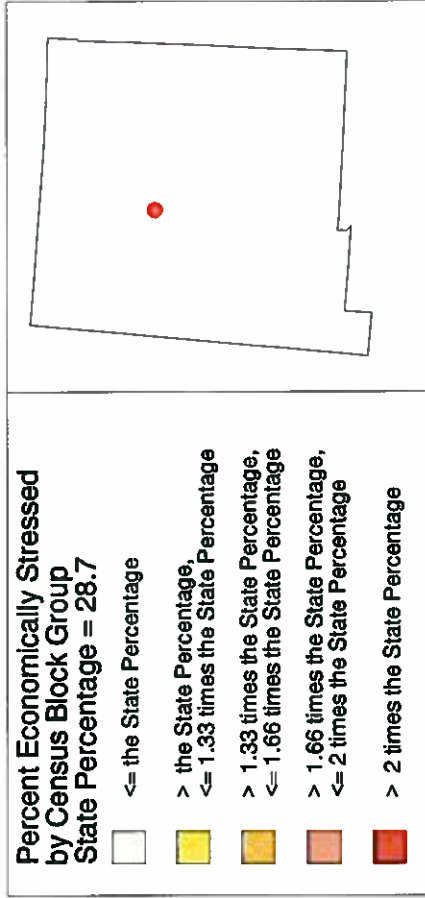
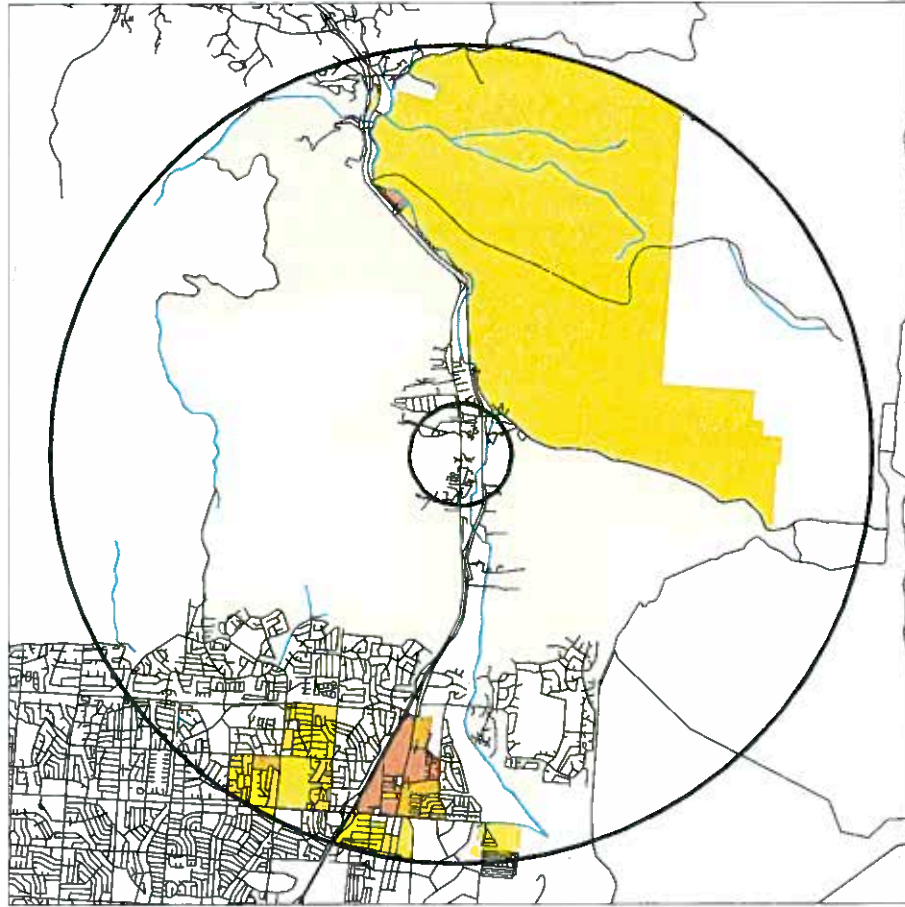
As of October 2005, percent minority is no longer used in the Potential EJ Index calculation.

Data Sources and References: US Bureau of the Census, 1990 PL94-171 and STF3A Data, and TIGER Files US EPA Region 6, 1992. Computer Assisted Environmental Assessment Methodologies, Chapter V. Special Applications, Environmental Equity. Planning and Analysis Section, Management Division, Region 6 EPA, Dallas, Texas



Carnuel Water Project, Bernalillo county, NM

Economic Status - Degree of Vulnerability (DVECO)



Potential Environmental Justice Index for Two Study Areas	1 Sq. Mile	50 Sq. Mile
Total Population	428	39126
Population Ranking (PF)	2	2
Percent Economically Stressed Economic Status (DVECO)	17.4% 1	22% 1
Environmental Justice Index	2	2

Longitude: - 106 27 06 Latitude: 35 03 51



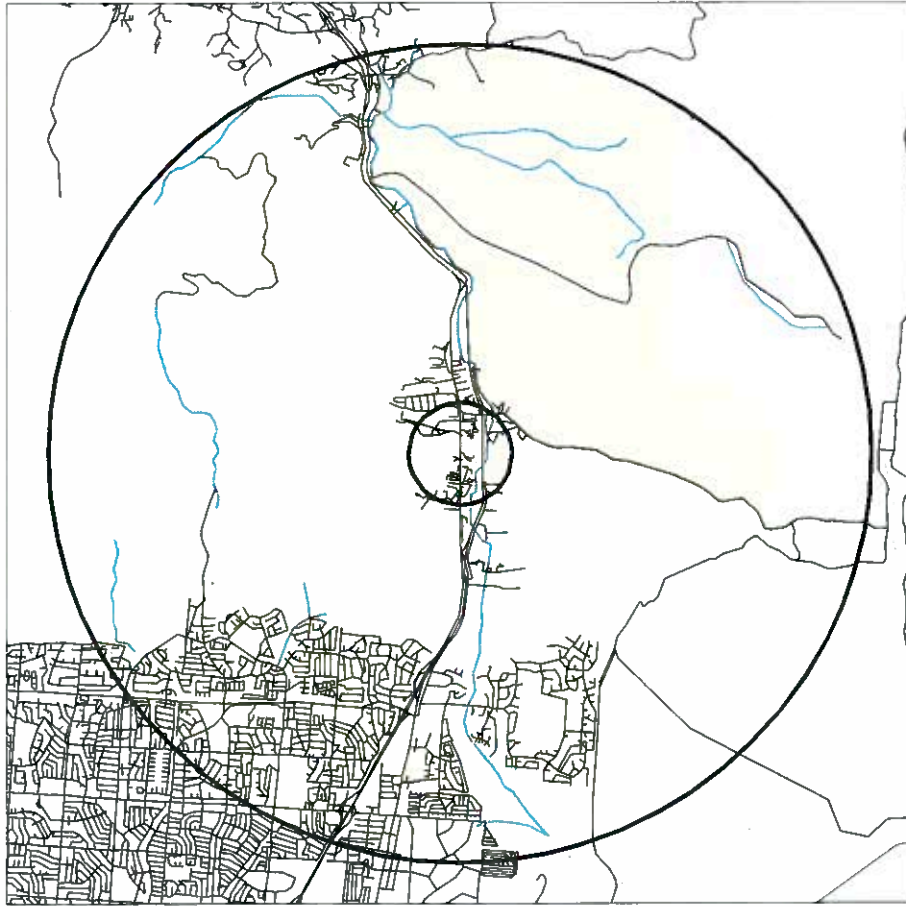
As of October 2005, percent minority is no longer used in the Potential EJ Index calculation.

Data Sources and References: US Bureau of the Census, 2000 PL94-171, SF3 Data, and TIGER Files US EPA Region 6, 1992. Computer Assisted Environmental Assessment Methodologies, Chapter V. Special Applications, Environmental Equity. Planning and Analysis Section, Management Division, Region 6 EPA, Dallas, Texas

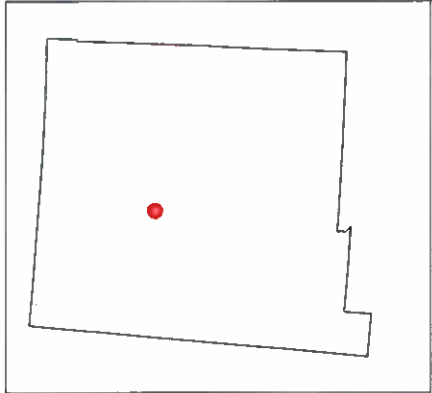


Carnuel Water Project, Bernalillo county, NM

Potential Environmental Justice Index (EJ)



Criteria Ranked by Census Block (DVMAV * DVECO * PF)	Potential Environmental Justice Index for Two Study Areas	
	1 Sq. Mile	50 Sq. Mile
1 to 12	337	37732
13 to 25	2	2
26 to 37	27.6%	20.2%
38 to 50	1	1
51 to 100	2	2



Longitude: -106 27 06 Latitude: 35 03 51



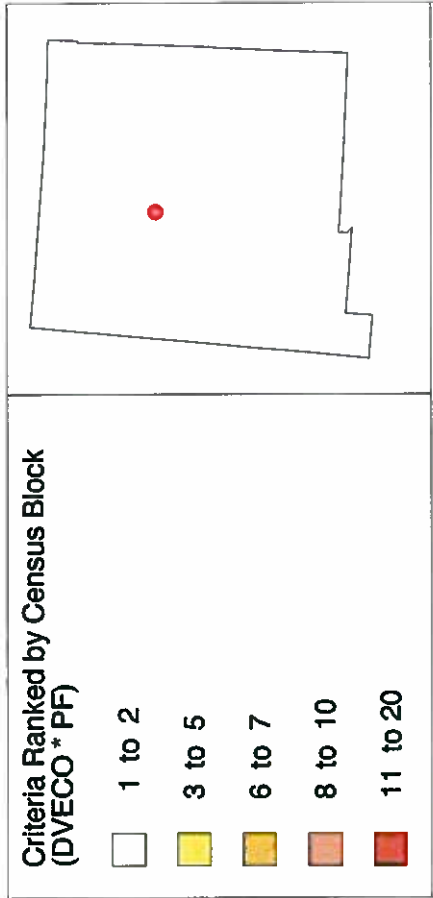
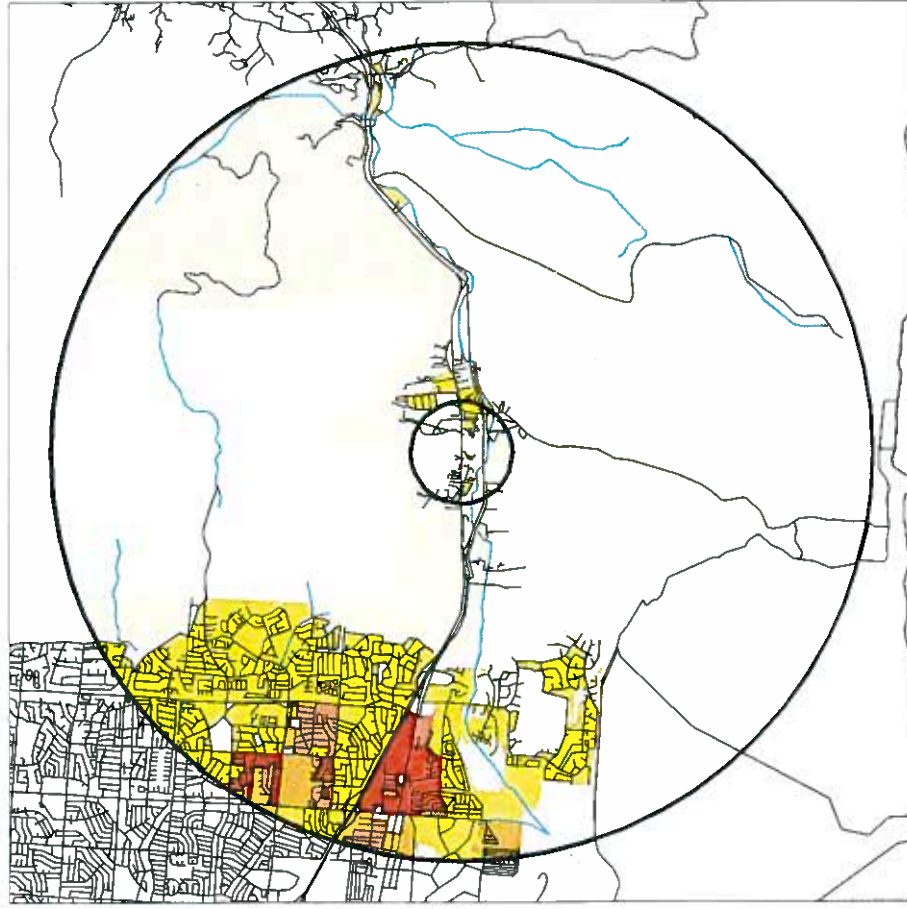
As of October 2005, percent minority is no longer used in the Potential EJ Index calculation.

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 US EPA Region 6, 1992. Computer Assisted Environmental Assessment Methodologies, Chapter V. Special Applications,
 Environmental Equity. Planning and Analysis Section, Management Division, Region 6 EPA, Dallas, Texas



Carnuel Water Project, Bernalillo county, NM

Potential Environmental Justice Index (EJ)



Potential Environmental Justice Index for Two Study Areas	1 Sq. Mile	50 Sq. Mile
Total Population	428	39126
Population Ranking (PF)	2	2
Percent Economically Stressed Economic Status (DVECO)	17.4% 1	22% 1
Environmental Justice Index	2	2

Longitude: -106 27 06 Latitude: 35 03 51

As of October 2005, percent minority is no longer used in the Potential EJ Index calculation.
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 US EPA Region 6, 1992. Computer Assisted Environmental Assessment Methodologies, Chapter V. Special Applications, Environmental Equity. Planning and Analysis Section, Management Division, Region 6 EPA, Dallas, Texas



POTENTIAL ENVIRONMENTAL JUSTICE (EJ) INDEX PILOT

Date : 22 Apr 09 15:29:36 Wednesday
Requestor : DON 6WQNI
Site Id Number : NMCARNUEL
Site Name : CARNUEL PROJECT
County : BERNALILLO
State/County FIPS Code : 35001
Location : -106 27 6 35 3 51
Quality Assurance Resource : 1

CARNUEL PROJECT
1990 - 50 square mile study area

Economic Ranking Value (DVECO) : 1 Percent Economically Stressed =
20.2
Population Ranking Value (PF) : 2 Total Population =
37732

Potential Environmental Justice Index (DVECO * PF) = 2

CARNUEL PROJECT
2000 - 50 square mile study area

Economic Ranking Value (DVECO) : 1 Percent Economically Stressed =
22
Population Ranking Value (PF) : 2 Total Population =
39126

Potential Environmental Justice Index (DVECO * PF) = 2

CARNUEL PROJECT
1990 - 1 square mile study area

METHODOLOGY CRITERIA

Environmental Justice Indexes are indicators of potential EJ concern. 2000 Census data for a Study Area is evaluated and ranked in relationship to state percentages. Ranking variables are multiplied to produce an index for prioritizing applications. The ranking variables are:

- ~ Economic Status, Degree of Vulnerability (DVECO),
- ~ and Total Population, Population Factor (PF).

~ECONOMIC STATUS (DVECO) - In 1990, Economically Stressed was defined as Households making less than \$15,000 a year. For NM the percent economically stressed was 31%.

In 2000, Economically Stressed is defined as households making less than \$20,000 a year.

For NM the percent economically stressed was 28.7.

The Methodology for ranking values associated with Degrees of Vulnerability is

Ranking	Criteria
-----	-----
1	\leq the State Percentage
2	$>$ the State Percentage but \leq 1.33 times the State Percentage
3	$>$ 1.33 times the State Percentage but \leq 1.66 times the State Percentage
4	$>$ 1.66 times the State Percentage but \leq 1.99 times the State Percentage
5	\geq 2 times the State Percentage

~POPULATION RANKING FACTOR Total Population is ranked using the following criteria.

Ranking	Criteria	(evaluated on a 1 square mile basis)
-----	-----	
0	Total Population = 0	
1	Total Population $>$ 0 and $<$ 200	
2	Total Population $>$ 200 and $<$ 1000	
3	Total Population $>$ 1000 and $<$ 5000	
4	Total Population $>$ 5000	

Reference for Quality Assurance Resources

1	Personal Verification	7	AIRS
2	Reconciliation with Quad maps	8	PCS
3	Reported from archived files	9	GIS Verified
4	TRIS	10	Professional Judgement
5	RCRIS	11	Federal Facility Tracking
System			
6	CERCLIS	12	Dun & Bradstreet