

2045 FAMPO Constrained Long Range Transportation Equity Analysis

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Title VI Nondiscrimination Statement

“The George Washington Regional Commission and the Fredericksburg Area Metropolitan Planning Organization fully comply with Title VI of the Civil Rights Act of 1964 and its related statutes and regulations in all programs and activities.

2045 FAMPO Constrained Long Range Transportation Equity Analysis

I. A Brief History of Environmental Justice

Title VI of the Civil Rights Act of 1964 prohibited discrimination on the basis of race, color, and national origin. During the decade after passage of the Civil Rights Act, Congress passed a series of laws extending civil rights protections in federally assisted programs and activities. These laws, modeled on Title VI, prohibited discrimination on the basis of sex in Federally assisted education programs (Title IX of the Education Amendments of 1972), disability in Federally assisted and conducted programs (Section 504 of the Rehabilitation Act of 1973), and age in Federally assisted programs (the Age Discrimination Act of 1975).

More recently, Congress has passed legislation and the White House has issued Executive Orders to further clarify and expand the reach of Title VI: The Americans with Disabilities Act (ADA) of 1990 was passed to eliminate discrimination on the basis of physical or mental disability in employment and in programs and services provided by state and local governments. Executive Order 12898 was issued in February 1994 to address Environmental Justice (EJ) in Minority Populations and Low Income Populations (Environmental Justice). Federal agencies were called upon to make achieving environmental justice part of its mission by identifying and addressing disproportionately high and adverse human health and environmental impacts of its programs, policies and activities on minority and low-income populations. Executive Order 13166, issued in August 2000, requires that Federal Agencies undertake proactive efforts to ensure meaningful access to federally funded programs for persons with Limited English Proficiency (LEP).

On May 2, 2012, USDOT reaffirmed their commitment to Environmental Justice by issuing an update to Departmental Order 5610.2(a). This order explicitly states the purpose and authority of the order and EJ policy, as well as data collection and analysis procedures associated with EJ. The result of the past 47 years of Civil Rights regulations, statutes, policies, technical advisories and Executive Orders, is that nondiscrimination provisions apply to all programs and activities of Federal-aid recipients, sub-recipients, and contractors, regardless of tier. Fredericksburg Area Metropolitan Planning Organization (FAMPO), the metropolitan planning organization for the Fredericksburg, VA urbanized area, is subject to these requirements.

II. Methodology

The Federal Highway Administration (FHWA) does not specifically outline how an EJ analysis should be conducted. FAMPO staff conducted an equity analysis on the distribution of 2045 Constrained Long Range Transportation Plan (CLRP) projects as they relate to identified EJ areas.

Geographic Information Systems (GIS) mapping, based on 2015 American Community Survey (ACS) 5-year estimates retrieved from the US Census Bureau, was used to define the aggregated populations for seven characteristics identified as a Title VI or EJ population. Data provided included County and Regional averages for each population as well as the percentage of each population at the Census Tract level. These populations include:

EJ Populations—Low Income and Minority

- African American Populations
- Asian Populations
- Hispanic Populations
- Low Income Populations

Title VI Populations

- Disabled Populations
- Older Adult Populations
- Limited English Proficiency

The locations of site specific highway and transit projects from FAMPO's Transportation Improvement Program were then analyzed against the EJ mapping. Current transit routes, stations and proposed transit projects were also evaluated.

Census tract data for each population was evaluated based on the overall percent for each City and County, shown in Table 1. For example, any census tract in Fredericksburg City that was above 21.60% for the African American Population Aggregation, was designated an African American "EJ" Census Tract. The same was done for all EJ and Title VI populations. In this way, the region was divided into EJ/ Title VI and non-EJ/Title VI Census Tracts.

Overall, there was considerable overlap among the minority EJ populations, which were widely spread in the central and northern parts of FAMPO's service area. Roughly 41-46% of the Census tracts were

designated Hispanic, African American, or Asian. Low Income populations were located in 28 Census tracts which accounts for nearly 44% of the regions total census tract inventory.

The Older Adult populations were the most prevalent of the Title VI populations. Fully 47.6% of the Census tracts are designated Older Adult. Thirty-nine percent of the Census tracts were disabled, and forty-two percent are LEP.

In order to evaluate which highway projects, both fully and partially funded, were in an EJ or Title VI area, a project layer file was overlaid on the maps. Projects that fell partially in or ran along the border of an EJ or Title VI Census tract were selected as an EJ or Title VI project for each criterion. This was also done separately for each criterion.

Table 1. Average Percent of Select Population by Location

	Fredericksburg City	Spotsylvania County	Stafford County
African American Population Aggregations*	21.60%	15.35%	15.44%
Asian American Population Aggregations*	2.35%	2.39%	2.54%
Hispanic Population Aggregations*	9.25%	8.02%	10.18%
Low Income Population Aggregations*	28.78%	17.85%	13.93%
Disabled Population Aggregations*	9.25%	11.23%	8.85%
Older Adult Population Aggregations*	10.16%	11.51%	9.00%
Limited English Proficiency Aggregations*	3.98%	3.33%	3.77%

**Data derived from 2015 American Community Survey 5-Year Estimates

III. Results

The Federal Highway Administration does not specifically outline how EJ analysis should be conducted. FAMPO prepared the equity analyses for both highway and transit projects separately for the individual EJ or Title VI populations. The result is a series of seven tables included in the report and seven maps found in the Appendix. The results are presented sequentially by population characteristic.

Examination of the location of highway projects against the percent of minority populations (Tables 2-4) indicates that these EJ areas will receive a greater percent of transportation investments than their overall population by Census Tract.

- African American Census Tracts are the site of 82.41% of all 2040 Constrained Long Range Plan (CLRP) projects. The percentage of African American Census Tracts overall is 47.6%.

- Asian Census Tracts are the site of 71.42% of all CLRP projects. Again, the percentage of Asian American Census Tracts overall is 46.03%.
- Hispanic Census Tracts are the site of 64.83% of all CLRP projects. The overall percent of Hispanic Census Tracts is 41.2%.
- Low income Census Tracts are the site of 78.02% of all CLRP projects. The percentage of Low Income Census Tracts overall is 44.4%.

Table 2a. African American Population – 2045 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of African American EJ Census Tracts	30	47.6%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within African American EJ Census Tracts	75	82.41%

Table 2b. African American Population –Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total African American Population	Percent
Fredericksburg (>21.60%=EJ Tract)	1	288	9.10%
	2	1370	20.70%
	3.01	151	6.40%
	3.02	908	19.3%
	4	1465	43.50%
	5	2201	30.6%
Spotsylvania(>15.35%=EJTract)	201.04	584	11.80%
	201.05	82	3.60%
	201.06	433	8.40%
	201.07	116	6.10%
	201.08	1198	28.90%
	201.09	510	14.50%
	201.10	508	12.40%
	201.11	513	22.90%
	201.12	549	19.70%
	201.13	515	11.90%
	201.14	1259	22.40%
	202.01	832	13.80%
	202.02	834	16.80%
	202.03	1354	26.60%
	202.04	564	13.60%
	202.05	827	17.30%
	203.04	637	14.20%
	203.05	788	22.30%
203.06	1721	28.50%	
203.07	875	22.20%	

	203.08	398	10.00%
	203.09	1175	18.50%
	203.10	635	14.20%
	203.11	1076	19.20%
	204.03	450	11.10%
	204.04	324	8.20%
	204.05	604	15.90%
	204.06	329	9.30%
	204.07	543	10.40%
	204.08	162	5.90%
Stafford(>15.44%=EJTract)	101.03	601	15.80%
	101.05	1357	19.30%
	101.06	263	8.40%
	101.07	408	12.30%
	101.08	1589	27.30%
	102.01	601	6.70%
	102.02	1357	6.30%
	102.04	263	15.50%
	102.05	408	17.70%
	102.06	1589	21.20%
	102.07	149	27.90%
	102.10	388	28.20%
	102.11	1357	23.60%
	102.12	1227	16.10%
	102.13	1131	16.10%
	102.14	2315	17.60%
	103.01	2167	12.30%
	103.03	1033	20.10%
	103.04	731	17.10%
	103.05	405	23.20%
	104.03	710	13.80%
	104.04	512	13.80%
	104.05	1996	8.30%
104.06	964	13.50%	
105.02	1437	9.00%	
105.03	436	0.40%	
105.04	865	5.40%	

*Data derived from 2015 American Community Survey 5-Year Estimates

Table 3a. Asian American Population – 2045 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Asian American EJ Census Tracts	29	46.03%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within Asian American EJ Census Tracts	64	70.32%

Table 3b. Asian American Population – Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Asian American Population	Percent
Fredericksburg(>2.35%=EJTract)	1	63	2.00%
	2	146	2.20%
	3.01	94	4.00%
	3.02	89	1.90%
	4	0	0.00%
	5	286	4.00%
Spotsylvania(>2.39%=EJTract)	201.04	63	1.30%
	201.05	8	0.40%
	201.06	108	2.10%
	201.07	66	3.50%
	201.08	130	3.10%
	201.09	139	4.00%
	201.10	250	6.10%
	201.11	10	0.40%
	201.12	44	1.60%
	201.13	32	0.70%
	201.14	252	4.50%
	202.01	261	4.30%
	202.02	112	2.30%
	202.03	218	4.30%
	202.04	107	2.60%
	202.05	142	3.00%
	203.04	134	3.00%
	203.05	153	4.30%
	203.06	477	7.90%
	203.07	153	3.90%
	203.08	123	3.10%
	203.09	81	1.30%
	203.10	81	1.80%
	203.11	6	0.10%
	204.03	69	1.70%
	204.04	0	0.00%
	204.05	0	0.00%
204.06	0	0.00%	
204.07	0	0.00%	

	204.08	17	0.60%
Stafford(cont.)(>2.54%=EJTract)	101.03	78	2.00%
	101.05	322	4.60%
	101.06	37	1.20%
	101.07	77	2.30%
	101.08	163	2.80%
	102.01	42	1.90%
	102.02	188	3.00%
	102.04	351	4.00%
	102.05	198	2.80%
	102.06	119	2.20%
	102.07	304	3.70%
	102.10	325	4.20%
	102.11	155	3.50%
	102.12	56	1.20%
	102.13	92	3.70%
	102.14	55	1.40%
	103.01	63	1.50%
	103.03	359	3.60%
	103.04	283	5.00%
	103.05	414	6.70%
	104.03	33	1.00%
	104.04	47	0.80%
	104.05	201	3.10%
	104.06	25	0.80%
	105.02	13	0.30%
	105.03	32	1.50%
105.04	0	0.00%	

*Data derived from 2015 American Community Survey 5-Year Estimates.

Table 4a. Hispanic Population – 2040 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Hispanic EJ Census Tracts	26	41.20%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within Hispanic EJ Census Tracts	59	64.83%

Table 4b. Hispanic Population – Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Hispanic American Population	Percent
Fredericksburg(>10.73%=EJ Tract)	1	74	2.40%
	2	1047	15.80%
	3.01	149	6.30%
	3.02	456	9.70%
	4	194	5.80%
	5	1117	15.50%
Spotsylvania(>7.58%=EJ Tract)	201.04	258	5.20%
	201.05	21	0.90%
	201.06	178	3.40%
	201.07	46	2.40%
	201.08	466	11.20%
	201.09	45	1.30%
	201.10	708	17.30%
	201.11	193	8.60%
	201.12	387	13.90%
	201.13	328	7.60%
	201.14	277	4.90%
	202.01	928	15.40%
	202.02	535	10.80%
	202.03	454	8.90%
	202.04	237	5.70%
	202.05	615	12.90%
	203.04	745	16.60%
	203.05	256	7.20%
	203.06	605	10.00%
	203.07	977	24.80%
	203.08	174	4.40%
	203.09	475	7.50%
203.10	230	5.10%	
203.11	617	11.00%	
204.03	200	4.90%	
204.04	54	1.40%	
204.05	90	2.40%	
204.06	84	2.40%	
204.07	179	3.40%	

	204.08	252	9.10%
Stafford(>9.21%=EJTract)	101.03	454	11.90%
	101.05	1000	14.20%
	101.06	118	3.80%
	101.07	302	9.10%
	101.08	520	8.90%
	102.01	482	21.70%
	102.02	426	6.90%
	102.04	535	6.10%
	102.05	357	5.10%
	102.06	817	15.30%
	102.07	1912	23.00%
	102.10	1290	16.80%
	102.11	984	22.50%
	102.12	746	16.40%
	102.13	204	8.10%
	102.14	465	11.50%
	103.01	207	5.00%
	103.03	729	7.40%
	103.04	559	9.90%
	103.05	702	11.30%
	104.03	138	4.40%
	104.04	604	9.70%
	104.05	475	7.20%
104.06	196	6.50%	
105.02	289	6.40%	
105.03	74	3.40%	
105.04	40	2.50%	

*Data derived from 2015 American Community Survey 5-Year Estimates

Table 5a. Low Income Population – 2045 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Low Income EJ Census Tracts	28	44.40%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within Low Income EJ Census Tracts	68	76.92%

Table5b. Low Income Population– Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Low Income American Population	Percent
Fredericksburg(>28.78%=EJTract)	1	705	22.40%
	2	3585	54.1%
	3.01	303	12.9%
	3.02	1125	23.9%
	4	1302	38.70%
	5	1488	20.70%
Spotsylvania(>17.85%=EJTract)	201.04	522	10.50%
	201.05	247	11.00%
	201.06	883	17.10%
	201.07	117	6.20%
	201.08	1544	37.20%
	201.09	1324	37.70%
	201.10	515	12.60%
	201.11	300	13.40%
	201.12	264	9.50%
	201.13	414	9.60%
	201.14	1120	19.90%
	202.01	1396	23.20%
	202.02	994	20.00%
	202.03	1135	22.30%
	202.04	446	10.80%
	202.05	791	16.60%
	203.04	828	18.50%
	203.05	777	22.00%
	203.06	501	8.30%
	203.07	722	18.30%
	203.08	384	9.70%
	203.09	1270	20.00%
	203.10	389	8.70%
	203.11	1367	24.40%
204.03	1133	27.90%	
204.04	1280	32.40%	
204.05	811	21.40%	
204.06	814	23.00%	

	204.07	666	12.70%
	204.08	292	10.60%
Stafford(>13.93%=EJTract)	101.03	423	11.10%
	101.05	534	7.60%
	101.06	585	18.70%
	101.07	219	6.60%
	101.08	610	10.50%
	102.01	380	17.10%
	102.02	635	10.30%
	102.04	1300	14.80%
	102.05	1744	25.10%
	102.06	559	10.50%
	102.07	1444	17.40%
	102.10	2143	27.90%
	102.11	272	6.20%
	102.12	304	6.70%
	102.13	88	3.50%
	102.14	206	5.10%
	103.01	433	10.4%
	103.03	1308	13.20%
	103.04	1245	22.10%
	103.05	1302	21.00%
	104.03	230	7.30%
	104.04	757	12.10%
	104.05	854	13.00%
	104.06	790	26.20%
	105.02	612	13.60%
	105.03	390	18.20%
105.04	317	20.00%	

*Dataderivedfrom2015 American Community Survey 5-Year Estimates

**Tract3.01contains the University of Mary Washington and skews the results for low-income tracts in the City of Fredericksburg.

Often other factors are taken into consideration when evaluating transportation projects including disabilities, older adult, and Limited English Proficiency (LEP). As shown in Tables 6a, 7a, and 8a, all of these criteria had a relatively higher percentage of 2045 CLRP projects located within EJ census tracts. Percentages of 2045 CLRP projects with EJ census tracts varied from 72.5% for older adult populations to 79.1% for limited English proficiency populations.

Table 6a. Disabled Population over 5 years of age– 2045 CLRP Analysis*

Total Number of Census Tracts in FAMPO Region	63	
Number of Disabled EJ Census Tracts	25	39.60%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within Disabled EJ Census Tracts	64	72.52%

Table 6b. Disabled Population over 5 years of age–Overview (EJ Tracts Bold & Italicized)

Locality	Census Tract	Total Disabled Population (aged 5+)	Percent
Fredericksburg (>9.25%=EJ Tract)	1	165	5.60%
	2	768	11.90%
	3.01	80	3.90%
	3.02	291	6.50%
	4	572	17.90%
	5	678	9.70%
Spotsylvania (>11.23%=EJ Tract)	201.04	371	7.70%
	201.05	189	9.00%
	201.06	576	11.70%
	201.07	182	10.30%
	201.08	657	16.80%
	201.09	689	21.00%
	201.10	179	4.70%
	201.11	239	10.29%
	201.12	248	9.30%
	201.13	584	13.90%
	201.14	493	9.10%
	202.01	638	10.60%
	202.02	465	9.60%
	202.03	682	13.80%
	202.04	244	6.20%
	202.05	733	15.60%
	203.04	570	13.10%
	203.05	356	10.50%
	203.06	472	7.70%
	203.07	288	7.70%
	203.08	396	10.30%
	203.09	546	8.90%
	203.10	302	7.00%
	203.11	820	14.76%
204.03	479	12.10%	
204.04	734	19.10%	

	204.05	368	10.00%	
	204.06	510	14.80%	
	204.07	381	7.60%	
	204.08	371	13.90%	
Stafford (>8.85%=EJ Tract)	101.03	370	10.40%	
	101.05	513	7.60%	
	101.06	274	9.70%	
	101.07	294	6.30%	
	101.08	277	5.20%	
	102.01	9	18.00%	
	102.02	520	8.80%	
	102.04	645	8.45%	
	102.05	382	5.90%	
	102.06	385	7.70%	
	102.07	429	5.50%	
	102.10	291	4.10%	
	102.11	227	5.70%	
	102.12	258	6.20%	
	102.13	166	7.30%	
	102.13	336	8.70%	
	Stafford (>8.85%=EJ Tract)	103.01	506	12.50%
		103.03	972	10.10%
103.04		619	11.30%	
103.05		367	6.30%	
104.03		323	10.70%	
104.05		435	7.40%	
104.05		276	4.60%	
104.06		377	13.00%	
105.02		430	10.10%	
105.03		212	10.60%	
105.04	252	16.80%		

* Data derived from 2015 American Community Survey 5-Year Estimates

Table 7a. Older Adult Population – 2045 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of Older Adult EJ Census Tracts	30	47.60%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within Older Adult EJ Census Tracts	64	72.52%

Table 7b. Older Adult Population – Overview (EJ Tracts Italicized)

Locality	CensusTract	TotalOlderAdult Population	Percent
Fredericksburg(>10.16%=EJTract)	1	388	12.30%
	2	874	13.20%
	3.01	27	1.10%
	3.02	526	11.20%
	4	576	17.10%
	5	440	6.10%
Spotsylvania(>11.51%=EJTract)	201.04	486	9.80%
	201.05	208	9.20%
	201.06	979	18.90%
	201.07	229	12.10%
	201.08	677	16.30%
	201.09	980	27.90%
	201.10	301	7.40%
	201.11	201	9.00%
	201.12	160	5.70%
	201.13	399	9.20%
	201.14	517	9.20%
	202.01	398	6.60%
	202.02	704	14.20%
	202.03	373	7.30%
	202.04	479	11.60%
	202.05	365	7.70%
	203.04	681	15.20%
	203.05	267	7.60%
	203.06	635	10.50%
	203.07	260	6.60%
203.08	392	9.90%	
203.09	393	6.20%	
	203.10	502	11.20%
	203.11	574	10.20%
	204.03	407	10.00%
	204.04	540	13.70%
	204.05	814	21.50%

Spotsylvania(cont.)(>11.51%=EJTract)	204.06	507	14.30%
	204.07	932	17.80%
	204.08	240	8.70%
Stafford(>9.00%=E JTract)	101.03	369	9.70%
	101.05	466	6.60%
	101.06	358	11.40%
	101.07	371	11.20%
	101.08	376	6.50%
	102.01	5	0.20%
	102.02	566	9.20%
	102.04	1015	11.60%
	102.05	370	5.30%
	102.06	314	5.90%
	102.07	432	5.20%
	102.10	218	2.80%
	102.11	136	3.10%
	102.12	165	3.60%
	102.13	124	4.90%
	102.14	203	5.00%
	103.01	425	10.20%
	103.03	1007	10.20%
	103.04	1274	22.60%
	103.05	472	7.60%
	104.03	308	9.80%
	104.04	639	10.20%
	104.05	600	9.10%
	104.06	281	9.30%
	105.02	691	15.30%
	105.03	369	17.20%
105.04	307	19.40%	

*Dataderivedfrom2015 American Community Survey 5-Year Estimates

Table 8a. Limited English Proficiency (LEP) – 2045 CLRP Analysis

Total Number of Census Tracts in FAMPO Region	63	
Number of LEP EJ Census Tracts	27	42.80%
Total Number of 2045 CLRP Projects	91	
Total 2045 CLRP Projects within LEP EJ Census Tracts	70	76.92%

Table 8b. Limited English Proficiency – Overview (EJ Tracts Bold & Italicized)

Locality	CensusTract	Total Limited English Proficiency Population	Percent
Fredericksburg(>3.98%=EJTract)	1	16	0.50%
	2	455	7.60%
	3.01	57	2.40%
	3.02	116	2.60%
	4	134	4.10%
	5	427	6.70%
Spotsylvania(> 3.33%=EJTract)	201.04	45	1.00%
	201.05	13	0.60%
	201.06	33	0.70%
	201.07	5	0.30%
	201.08	337	8.70%
	201.09	117	3.50%
	201.10	548	14.30%
	201.11	45	2.10%
	201.12	150	5.70%
	201.13	41	1.00%
	201.14	31	0.60%
	202.01	288	5.10%
	202.02	182	4.00%
	202.03	135	2.80%
	202.04	161	4.10%
	202.05	162	3.70%
	203.04	152	3.60%
	203.05	94	2.80%
	203.06	263	4.70%
	203.07	456	12.40%
	203.08	163	4.40%
	203.09	111	1.90%
	203.10	60	1.40%
	203.11	216	4.20%
204.03	120	3.20%	
204.04	14	0.40%	
204.05	8	0.20%	

	204.06	17	0.50%
	204.07	60	1.20%
	204.08	24	1.00%
Stafford(>3.77%=EJTract)	101.03	42	1.20%
	101.05	756	11.80%
	101.06	35	1.20%
	101.07	31	1.00%
	101.08	124	2.20%
	Stafford(cont.)(>3.77%=EJTract)	102.01	16
102.02		259	4.40%
102.04		287	3.40%
102.05		189	2.90%
102.06		286	5.60%
102.07		1054	14.00%
102.10		618	8.70%
102.11		322	8.30%
102.12		163	3.90%
102.13		82	3.40%
102.14		84	2.20%
103.01		25	0.60%
103.03		74	0.80%
103.04		532	9.90%
103.05		320	5.90%
104.03		74	2.60%
104.04		59	1.00%
104.05		86	1.40%
104.06		27	1.00%
105.02		54	1.30%
105.03	15	0.70%	
105.04	27	1.80%	

*Dataderivedfrom 2015AmericanCommunitySurvey 5-YearEstimates.

Overall, the analysis shows that the distribution of projects in FAMPO's 2045 Constrained Long Rang Plan is equitable. With the sole exception of Low Income populations, the percent of projects in EJ or Title VI areas greatly exceeds their percent of the overall population. However, there are several limitations with this analysis that should be noted. First, only location specific projects were analyzed. EJ and Title VI populations may be receiving benefits from programs funded under the TIP that are not mappable. Second, the Census tracts are quite large, especially in Spotsylvania and Stafford Counties. It is not known whether the relevant populations live near the identified transportation project. The last note is that proximity to a transportation project is not always a guarantee that the transportation project is beneficial to that population. There are several projects, such as widening of a highway, which may be more of a burden to the population present, through possible property or health impacts.