
FINAL INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL IMPACT STATEMENT / ENVIRONMENTAL IMPACT REPORT (EIS/EIR)

APPENDIX K: EJSCREEN REPORTS

PORT OF LONG BEACH
DEEP DRAFT NAVIGATION STUDY
Los Angeles County, California

October 2021



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USACE utilizes the online tool EJSCREEN to evaluate potential environmental justice issues. EJSCREEN is an environmental justice mapping and screening tool developed by the USEPA that provides a nationally consistent dataset and approach for combining environmental and demographic indicators. EJSCREEN users choose a geographic area; the tool then provides demographic and environmental information for that area. All of the EJSCREEN indicators are publicly available data. EJSCREEN simply provides a way to display this information and includes a method for combining environmental and demographic indicators into EJ indices.

The tool helps USACE identify areas with minority and/or low-income populations for purposes of evaluating whether there could be disproportionately high and adverse human health or environmental impacts on minority populations and/or low-income populations for purposes of evaluating compliance with Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.

Further information on the tool can be found online at: <https://www.epa.gov/ejscreen>.

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EJSCREEN Report (Version 2018)

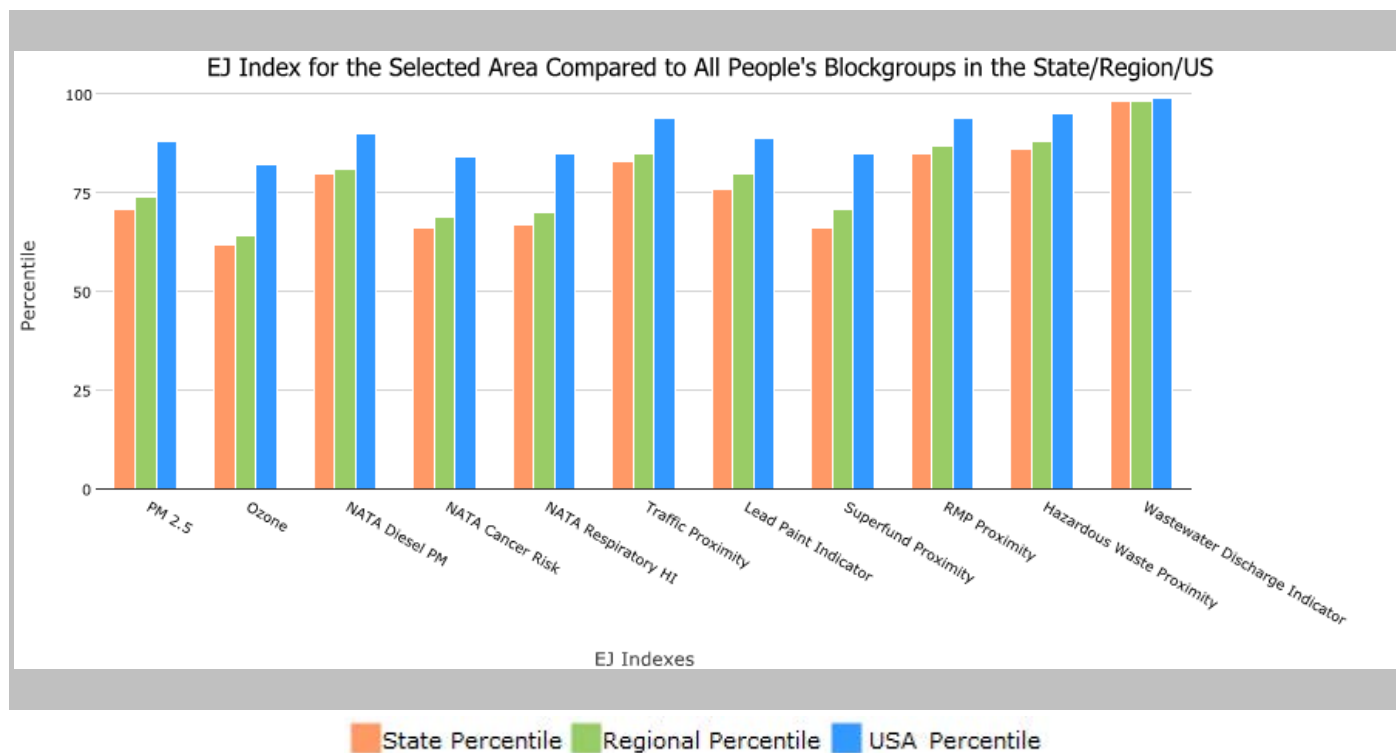
City: Long Beach, CALIFORNIA, EPA Region 9

Approximate Population: 469,743

Input Area (sq. miles): 51.44

(The study area contains 6 blockgroup(s) with zero population.)

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	71	74	88
EJ Index for Ozone	62	64	82
EJ Index for NATA* Diesel PM	80	81	90
EJ Index for NATA* Air Toxics Cancer Risk	66	69	84
EJ Index for NATA* Respiratory Hazard Index	67	70	85
EJ Index for Traffic Proximity and Volume	83	85	94
EJ Index for Lead Paint Indicator	76	80	89
EJ Index for Superfund Proximity	66	71	85
EJ Index for RMP Proximity	85	87	94
EJ Index for Hazardous Waste Proximity	86	88	95
EJ Index for Wastewater Discharge Indicator	98	98	99



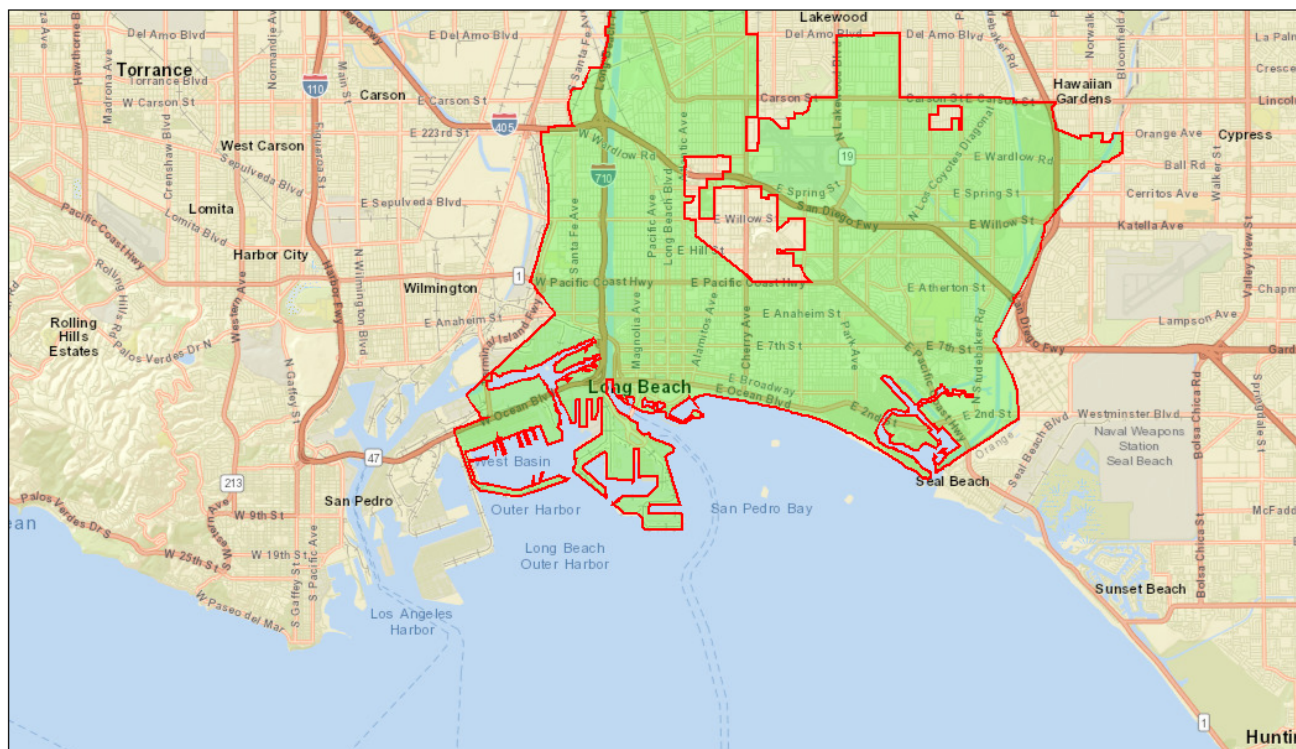
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

City: Long Beach, CALIFORNIA, EPA Region 9

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August 19, 2019

Known Geography

1:144,448
0 1.25 2.5 5 mi
0 2 4 8 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Sites reporting to EPA

Superfund NPL

0

Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)

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EJSCREEN Report (Version 2018)

City: Long Beach, CALIFORNIA, EPA Region 9

Approximate Population: 469,743

Input Area (sq. miles): 51.44

(The study area contains 6 blockgroup(s) with zero population.)

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	13.4	10.7	82	10.1	86	9.53	97
Ozone (ppb)	40.3	47.4	26	48.3	20	42.5	30
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	1.64	0.972	87	0.978	80-90th	0.938	80-90th
NATA* Cancer Risk (lifetime risk per million)	45	44	56	43	50-60th	40	60-70th
NATA* Respiratory Hazard Index	2.2	2.1	57	2	60-70th	1.8	70-80th
Traffic Proximity and Volume (daily traffic count/distance to road)	1900	1200	82	1100	83	600	93
Lead Paint Indicator (% Pre-1960 Housing)	0.56	0.29	78	0.24	82	0.29	80
Superfund Proximity (site count/km distance)	0.075	0.17	52	0.14	58	0.12	63
RMP Proximity (facility count/km distance)	2.1	1.1	84	0.97	87	0.72	91
Hazardous Waste Proximity (facility count/km distance)	6.1	3.3	82	2.8	85	4.3	92
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	21	16	97	12	97	30	98
Demographic Indicators							
Demographic Index	57%	48%	63	47%	65	36%	79
Minority Population	72%	62%	57	59%	61	38%	80
Low Income Population	42%	35%	64	35%	64	34%	67
Linguistically Isolated Population	8%	9%	55	8%	59	4%	80
Population With Less Than High School Education	21%	18%	63	17%	66	13%	78
Population Under 5 years of age	7%	6%	59	6%	60	6%	63
Population over 64 years of age	10%	13%	46	13%	45	14%	35

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

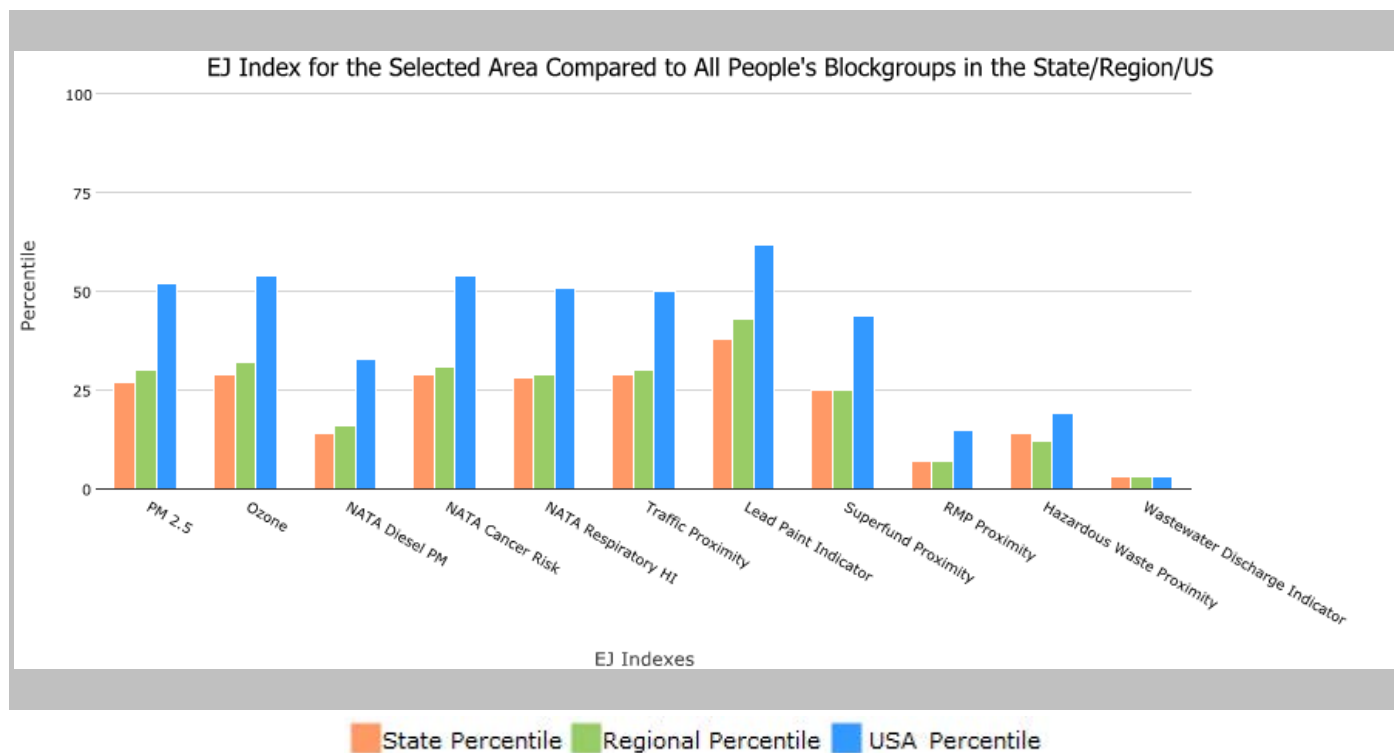
1 mile Ring around the Area, CALIFORNIA, EPA Region 9

Approximate Population: 3

Input Area (sq. miles): 15.79

(The study area contains 3 blockgroup(s) with zero population.)

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	27	30	52
EJ Index for Ozone	29	32	54
EJ Index for NATA* Diesel PM	14	16	33
EJ Index for NATA* Air Toxics Cancer Risk	29	31	54
EJ Index for NATA* Respiratory Hazard Index	28	29	51
EJ Index for Traffic Proximity and Volume	29	30	50
EJ Index for Lead Paint Indicator	38	43	62
EJ Index for Superfund Proximity	25	25	44
EJ Index for RMP Proximity	7	7	15
EJ Index for Hazardous Waste Proximity	14	12	19
EJ Index for Wastewater Discharge Indicator	3	3	3



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1 mile Ring around the Area, CALIFORNIA, EPA Region 9

Approximate Population: 3

Input Area (sq. miles): 15.79

(The study area contains 3 blockgroup(s) with zero population.)



August 19, 2019

Buffer Area

Digitized Polygon

1:72,224

0 0.5 1 2 mi
0 1 2 4 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	12.2	10.7	67	10.1	73	9.53	93
Ozone (ppb)	38.3	47.4	19	48.3	15	42.5	21
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	2.44	0.972	97	0.978	95-100th	0.938	95-100th
NATA* Cancer Risk (lifetime risk per million)	34	44	17	43	<50th	40	<50th
NATA* Respiratory Hazard Index	1.9	2.1	43	2	<50th	1.8	60-70th
Traffic Proximity and Volume (daily traffic count/distance to road)	17	1200	13	1100	17	600	24
Lead Paint Indicator (% Pre-1960 Housing)	0	0.29	10	0.24	16	0.29	10
Superfund Proximity (site count/km distance)	0.074	0.17	51	0.14	58	0.12	63
RMP Proximity (facility count/km distance)	2.8	1.1	90	0.97	91	0.72	95
Hazardous Waste Proximity (facility count/km distance)	3.3	3.3	66	2.8	72	4.3	85
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	0.99	16	90	12	90	30	95
Demographic Indicators							
Demographic Index	32%	48%	26	47%	28	36%	52
Minority Population	63%	62%	49	59%	52	38%	75
Low Income Population	0%	35%	0	35%	0	34%	0
Linguistically Isolated Population	0%	9%	16	8%	19	4%	44
Population With Less Than High School Education	12%	18%	47	17%	49	13%	59
Population Under 5 years of age	2%	6%	8	6%	8	6%	9
Population over 64 years of age	9%	13%	37	13%	36	14%	28

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

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