



Viburnum Trend Lead Haul Roads Superfund Site

Operable Unit 2 – St. Joe Minerals Corp., City of Viburnum

Crawford, Iron & Washington Counties, Missouri

Community Involvement Plan

March 2020

SECTION 1

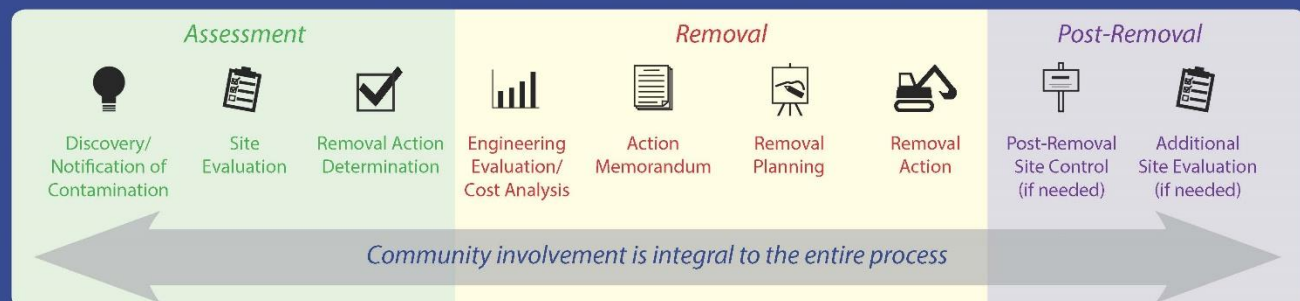
Overview of the Community Involvement Plan

This Community Involvement Plan, or CIP, has been developed for Operable Unit 2 (i.e., St. Joe Minerals Corp. – City of Viburnum) of the Viburnum Trend Lead Haul Roads Superfund Site, where the U.S. Environmental Protection Agency (EPA) is overseeing a non-time-critical removal action. The site is primarily located within the city limits of Viburnum, Iron County, Missouri; however, portions of the site extend into Crawford and Washington counties in Missouri. EPA is conducting activities at the site, pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, or CERCLA, a federal law passed in 1980 and commonly called Superfund, and the National Oil and Hazardous Substances Pollution Contingency Plan, or NCP.

Superfund is responsible for cleaning up some of the nation's most contaminated land and responding to environmental emergencies. To protect public health and the environment, the Superfund program focuses on ensuring that people can live and work in healthy, vibrant places. Removal actions are generally short-term actions to prevent, minimize or mitigate damage to human health and welfare or the environment. Removals can be triggered by fires, leaks, explosions, or other releases or threats of releases of hazardous substances. Removal responses may be conducted as emergency, time-critical, or non-time-critical actions, if the release or threat of a release poses a threat to public health, welfare, or the environment.

THE SUPERFUND REMOVAL PROCESS

NON-TIME-CRITICAL REMOVAL - GREATER THAN SIX-MONTH PLANNING PERIOD AVAILABLE



Site Contacts:

<p>Elizabeth Kramer Community Involvement Coordinator Phone: (913) 551-7186 Toll-free: 1-800-223-0425 Email: kramer.elizabeth@epa.gov Office of Public Affairs U.S. EPA Region 7 11201 Renner Boulevard Lenexa, KS 66219</p>	<p>Kirk Mammoliti On-Scene Coordinator Phone: (913) 551-7902 Toll-free: 1-800-223-0425 Email: Mammoliti.Kirk@epa.gov Superfund & Emergency Management U.S. EPA Region 7 11201 Renner Boulevard Lenexa, KS 66219</p>
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- Encourage community interest and participation throughout EPA's involvement at the site.
- Initiate and support two-way communication between EPA and the community.
- Help ensure that community members understand that the Superfund process and the opportunities it presents them to participate in the decision-making process regarding site cleanup.

SECTION 2

Site Background

Site Description

The site is mainly located in Iron County with smaller portions existing within Crawford and Washington counties in southeastern Missouri. (A site map is included as Appendix D.) It is part of what is commonly known as the New Lead Belt, or Viburnum Trend, which began producing lead around 1960 and continues production to this day. The Doe Run Resources Corporation – Viburnum Division (formerly St. Joe Minerals Corp. – Viburnum) is located in and near the city of Viburnum, Missouri. The Viburnum Division includes four mines where ore was brought to the surface: Viburnum Mine 27 in Crawford County, Viburnum Mine 29 in Washington County, Viburnum Mine 28 in Iron County, and Casteel Mine in Iron County.



★ Designed by TownMapsUSA.com

Site History and EPA Actions to Date

The mined ore was previously transported on haul roads to the Viburnum Central Mill, which was located at Viburnum Mine 28.

Only Viburnum Mine 29 and the Casteel Mine are currently in operation. Viburnum Mine 27 was closed in 1983; Viburnum Mine 28 was closed in 2004. Ore from the Viburnum Mine 29 is brought to the Viburnum Central Mill Complex, where it is crushed and then hauled on public roadways, primarily to Buick Mill for concentrating. The lead ore from the Casteel Mine is also hauled on public roadways to other mine ore concentrators within the Viburnum Trend Mining District for processing. In addition to the mines and mills, there are two large tailings piles that were created from processing of ore at the Viburnum Central Mill Complex.

During construction, development, and early operation of these mines, it was not uncommon for lead-contaminated materials such as tailings and/or poor rock to be used for construction materials in building the city of Viburnum, which was done by the St. Joe Minerals Corp. to support mining operations. Poor rock is a term used to describe low-grade ore that is removed during mine development, but purposely not mined or concentrated. Poor rock commonly contains higher than one percent lead [10,000 parts per million (ppm)]. For reference, EPA's action level for lead in residential soil is 400 ppm. The Central Mill in Viburnum was also a likely source of air pollution and lead fallout from hauling, crushing and processing of ore and/or concentrate, particularly prior to requirements to reduce air emissions.

EPA identified Doe Run Resources Corporation, or Doe Run, as the Potentially Responsible Party, or PRP, for the lead contamination found at this site. Beginning in 2005, EPA and Doe Run entered into an agreement for Doe Run to begin cleaning up residential properties where yards had been contaminated with lead at the site. A Preliminary Assessment conducted by Doe Run and EPA in 2006 determined that over 200 residential properties were eligible for cleanup. A time-critical removal action was completed in 2008 for residential properties and child high-use areas at the site that were determined to have sensitive residents (i.e., children, pregnant women, etc.) and/or higher concentrations of lead in soil (i.e., greater than 1,200 ppm). EPA and Doe Run are currently working toward beginning cleanup of the remainder of the residential properties and child high-use areas through a non-time-critical removal action. These properties were found to have less than 1,200 ppm lead in soil and were without sensitive residents.

Site Contamination

As a result of mining-related activities that have occurred in and around the city of Viburnum, lead and lead compounds have been released into the environment in quantities sufficient to present an imminent and substantial danger to public health and welfare. The contaminant of concern at the site is lead, which is a toxic metal that is harmful if inhaled or swallowed. Children are more sensitive to lead than adults and can develop lifelong disabilities and behavior problems from lead exposure. Additional information about this contaminant of concern can be found at: <https://www.atsdr.cdc.gov/toxfaqs/tfacts13.pdf>

SECTION 3

Community Involvement Plan Objectives

EPA endeavors to keep community members informed and involved in the site cleanup process. To promote community involvement, EPA may utilize a variety of tools and techniques. The specific tools and techniques utilized will be based on the level of community interest, identified issues and concerns, and the complexity and duration of the site investigation and cleanup. A list of community involvement activities conducted by EPA may include:

- Providing timely, site-specific information to community members so they are able to participate in, or closely follow, site-related activities to the maximum extent they desire and the process allows.
- Providing a direct contact for community members by identifying an On-Scene Coordinator, or OSC, who will manage and share information about the site.
- Enhancing communications between EPA and local officials to help ensure those officials are informed of site-related activities, and that EPA benefits from the officials' insights regarding the community and its concerns, the site and its history, and local regulatory issues. (Appendix A contains a list of local, state, and federal officials.)
- Enhancing communications between EPA and the media, as appropriate, to help ensure reporters are provided timely information about site-related activities and events and are aware of pertinent site-related topics.

EPA encourages those who want a greater level of participation to consider forming a Community Advisory Group and/or applying for Technical Assistance Grant funding. For additional details, community members are encouraged to view the Superfund Community Involvement Toolkit files online that can be accessed at the following website: <https://www.epa.gov/superfund/community-involvement-tools-and-resources>. You can also contact the Community Involvement Coordinator or On-Scene Coordinator for the site (listed on Page 2 of this CIP).

Site Information Repository

EPA has developed publicly available websites that serve as site information repositories. The repositories include this CIP and other site-related documents. Visit <https://www.epa.gov/superfund/vtlhrou2> and <https://response.epa.gov/VTLHROU2>.

SECTION 4

Community Background

- Community Profile

Viburnum, Missouri, Demographics

Per the United States Census American Fact Finder website:

http://factfinder.census.gov/faces/nav/jsf/pages/community_facts.xhtml:

Population: 693

County: Iron

Median Household Income: \$46,667

Median Age: 37.5

- Environmental Justice (EJ)

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation and enforcement of environmental laws, regulations and policies.

EPA has this goal for all communities and persons across this nation. It will be achieved when everyone enjoys the same degree of protection from environmental and health hazards and equal access to the decision-making process to have a healthy environment in which to live, learn and work.

EPA prepared an EJSCREEN for this site in March 2020. None of the indicators were above the level for which EPA would classify this site as having potential EJ concerns. EJSCREEN is a tool that 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. (See Appendix C for EJSCREEN Map.)

- Community Interests and Concerns

Community interviews have been conducted for this site. Community concerns were focused on human health and lead. The respondents provided recommendations on which communication methods and channels to use to engage members of the public, local officials, and groups. The respondents were generally satisfied with EPA actions at the site to date. A synthesis of the responses indicates:

- Generally positive views toward EPA's commitment to cleaning up hazardous material at the site
- A high level of interest in this site, including the removal actions at residential properties
- Effective engagement and communication can be achieved through direct email and mail, with augmented communication through the Mountain Echo newspaper, J-98 radio, and the Viburnum Trend Group on Facebook (FB). The FB group contains more than 2,300 members.

Appendix A List of Key Contacts

A.1 Federal Elected Officials:

Sen. Roy Blunt
260 Russell Senate Office Building
Washington, DC 20510
Phone: (202) 224-5721

Rep. Jason Smith
Missouri 8th Congressional District
2418 Rayburn House Office Building
Washington, DC 20515
Phone: (202) 226-4404

Sen. Josh Hawley
212 Russell Senate Office Building
Washington, DC 20510
Office: (202) 224-6154
Fax: (202) 228-0526

A.2 State Elected Officials:

Gov. Michael L. Parson
201 West Capitol Avenue, Room 216
Jefferson City, MO 65101
Phone: (573) 751-3222

A.3 City/Local Officials:

Mayor Johnny Setzer
1 Missouri Avenue
Viburnum, Missouri, 65566
Phone: (573) 244-5520

City Clerk Olivia Callahan
1 Missouri Avenue
Viburnum, Missouri, 65566
Phone: (573) 244-5520

Presiding Commissioner Jim Scaggs
Iron County
P.O. Box 42
250 South Main Street
Ironton, MO 63650
Phone: (573) 546-2915

Iron County Health Department
606 W Russell Street
Ironton, MO 63650
Phone: (573) 546-7121

A.4 EPA Site Contacts:

Kirk Mammoliti
On-Scene Coordinator
Phone: (913) 551-7902
Email: mammoliti.kirk@epa.gov
Superfund & Emergency Management
U.S. EPA Region 7
11201 Renner Boulevard
Lenexa, KS 66219

Elizabeth Kramer
Community Involvement Coordinator
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Office of Public Affairs
U.S. EPA Region 7
11201 Renner Boulevard
Lenexa, KS 66219

Jennifer Trotter
Attorney
Office of Regional Counsel
Phone: (913) 551-7180
Email: trotter.jennifer@epa.gov
U.S. EPA Region 7
11201 Renner Boulevard
Lenexa, KS 66219

A.5 Agency for Toxic Substances and Disease Registry (ATSDR) Region 7:

LCDR Erin Evans, MPH, REHS/RS, Regional Director
U.S. Public Health Service
Lenexa, KS 66219
Phone: (913) 551-1311
Cell: (913) 428-6695
Email: evans.erin@epa.gov
11201 Renner Boulevard
ATSDR Website: <https://www.atsdr.cdc.gov/>

A.6 STATE CONTACTS:

Michelle D. Hartman, Environmental
Specialist
Bureau of Environmental Epidemiology
Division of Community and Public Health
Missouri Department of Health and Senior
Services (MDHSS)
Phone: (573) 751-6102
Email: Michelle.Hartman@health.mo.gov
930 Wildwood Drive, P.O. Box 570
Jefferson City, MO 65102-0570

Lorena Locke, MEd, CHES, Health
Educator
Bureau of Environmental Epidemiology
Missouri Department of Health and Senior
Services
Phone: (573) 751-6102
Email: Lorena.Locke@health.mo.gov
P.O. Box 570, 930 Wildwood Drive
Jefferson City, MO 65109
Fax: (573) 526-6946
MDHSS website: <https://health.mo.gov>

Valerie Wilder
Superfund Section Chief
Environmental Remediation Program
Missouri Department of Natural Resources
Phone: (573) 751-7880
Email: valerie.wilder@dnr.mo.gov
P.O. Box 176
Jefferson City, MO 65102-0176
Fax: (573) 751-7869
MDNR website: <https://dnr.mo.gov>
MDNR regions: <https://dnr.mo.gov/regions>

Appendix B

Information Repository, Local Media and Potential Meeting Locations

B.1 Access to Online Information Repository: www.epa.gov/superfund/vtlhrou2

Additional Information is available online at: <https://response.epa.gov/VTLHROU2>

Fact Sheets are available online at: <https://www.epa.gov/mo/missouri-cleanups>

EPA Region 7 Records Center
U.S. Environmental Protection Agency, Region 7
11201 Renner Boulevard
Lenexa, KS 66219
Phone: (800) 223-0425
Hours: 8:00 a.m. to 4:30 p.m.

Former Information Repository
Ozark Regional Library
402 North Main Street
Ironton, MO 63650
Phone: (573) 546-2615

Ozark Regional Library Branch
#1 Missouri Avenue
Viburnum, MO 65566
Phone: (573) 244-5986
<http://ozarkregional.org/index.html>

B.2 Local Media Information:

The Mountain Echo
110 North Main Street
Ironton, Missouri 63650
Phone: (573) 546-3917
www.myironcountynews.com

KTJJ (98.5 FM) "The Boot" Radio
1401 KREI Blvd
Farmington, Missouri 63640
Phone: (573) 756-6476

B.3 Potential Meeting Locations:

Viburnum City Hall
1 Missouri Avenue
Viburnum, Missouri, 65566
Phone: (573) 244-5520

35 Hwy 49
Viburnum, MO 65566
Phone: (573) 244-5422
Email: kent.sherrow@ironc4.com

Quad County Fire Department
Training Building
#80 Highway 49 South
Viburnum, MO 65566
Phone: (573) 244-5575

Ozark Regional Library
402 North Main Street
Ironton, MO 63650
Phone: (573) 546-2615

Iron County C-4 High School
Viburnum High School Gymnasium

Appendix C

EJ Screen Report



EJSCREEN Report (Version 2019)

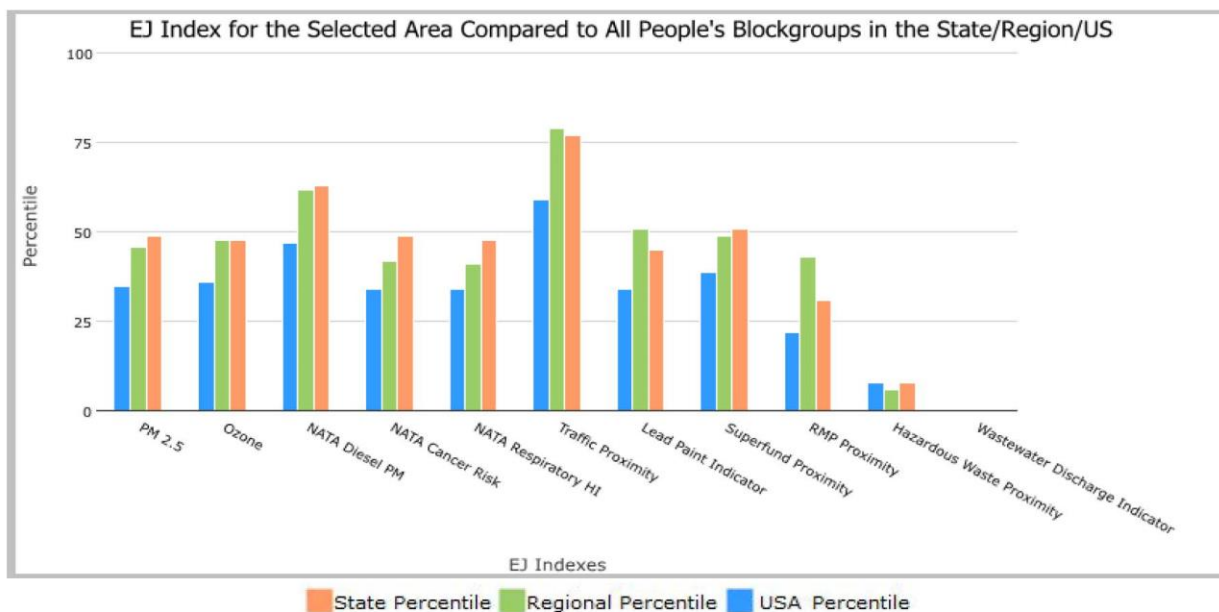


2 miles Ring Centered at 37.716495,-91.135458, MISSOURI, EPA Region 7

Approximate Population: 935

Input Area (sq. miles): 12.56

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	49	46	35
EJ Index for Ozone	48	48	36
EJ Index for NATA* Diesel PM	63	62	47
EJ Index for NATA* Air Toxics Cancer Risk	49	42	34
EJ Index for NATA* Respiratory Hazard Index	48	41	34
EJ Index for Traffic Proximity and Volume	77	79	59
EJ Index for Lead Paint Indicator	45	51	34
EJ Index for Superfund Proximity	51	49	39
EJ Index for RMP Proximity	31	43	22
EJ Index for Hazardous Waste Proximity	8	6	8
EJ Index for Wastewater Discharge Indicator	0	0	0



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.

March 04, 2020

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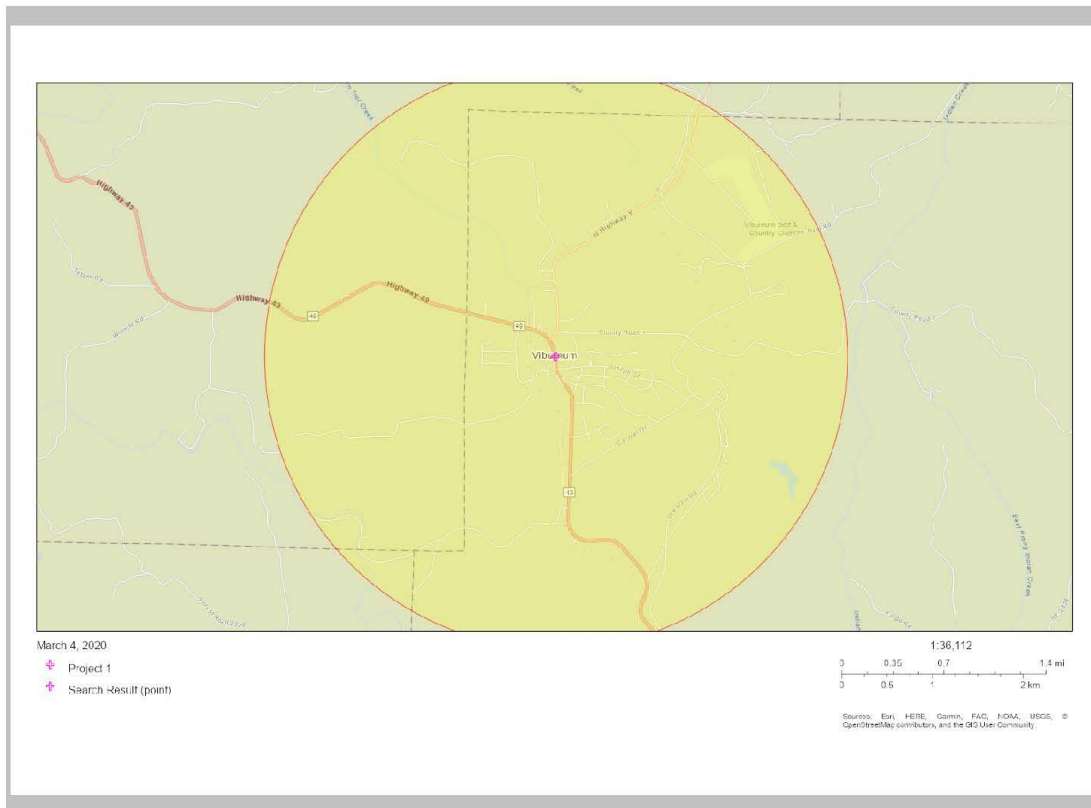
EJSCREEN Report (Version 2019)



2 miles Ring Centered at 37.716495,-91.135458, MISSOURI, EPA Region 7

Approximate Population: 935

Input Area (sq. miles): 12.56



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	2



EJSCREEN Report (Version 2019)

2 miles Ring Centered at 37.716495,-91.135458, MISSOURI, EPA Region 7

Approximate Population: 935

Input Area (sq. miles): 12.56



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 $\mu\text{g}/\text{m}^3$)	7.51	8.29	14	7.77	33	8.3	27
Ozone (ppb)	39.4	43.1	3	42.5	6	43	26
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	0.12	0.447	1	0.367	<50th	0.479	<50th
NATA* Cancer Risk (lifetime risk per million)	28	32	16	27	50-60th	32	<50th
NATA* Respiratory Hazard Index	0.37	0.42	17	0.36	50-60th	0.44	<50th
Traffic Proximity and Volume (daily traffic count/distance to road)	0	370	7	330	6	750	4
Lead Paint Indicator (% Pre-1960 Housing)	0.11	0.29	36	0.34	31	0.28	40
Superfund Proximity (site count/km distance)	0.031	0.099	28	0.1	37	0.13	28
RMP Proximity (facility count/km distance)	0.42	0.63	62	0.94	46	0.74	56
Hazardous Waste Proximity (facility count/km distance)	2.2	0.99	85	0.8	89	4	78
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	12	1.6	99	0.97	99	14	98
Demographic Indicators							
Demographic Index	21%	27%	44	26%	49	36%	31
Minority Population	7%	20%	37	19%	36	39%	17
Low Income Population	34%	34%	53	32%	58	33%	56
Linguistically Isolated Population	0%	1%	72	2%	66	4%	45
Population With Less Than High School Education	17%	11%	79	10%	83	13%	72
Population Under 5 years of age	7%	6%	62	6%	60	6%	62
Population over 64 years of age	17%	16%	60	15%	61	15%	66

* 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.

March 04, 2020

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Appendix D Site Map

