



Figure 3. U. S. Radium High and Alden Streets Site

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This is part 2 of the U.S. Radium Corporation Health Consultation.

Part 1 can be downloaded at:
<http://www.state.nj.us/health/eoh/hhazweb/radpt1.pdf>

To receive a larger copy of this map, please call the Hazardous Site Health Evaluation Program at the New Jersey Department of Health and Senior Services, 609-984-2193.

Appendix 2A. Completed On-Site Exposure Pathways
U. S. Radium

| Pathway Name: | Source | Medium | Exposure Point | Exposure Route | Receptor Population | Time of Exposure | Exposure Activities | Estimated Number Exposed | Chemicals (identify by name or reference to tables in document) |
|------------------|-----------------------|-----------------------------|----------------|---------------------|---------------------|------------------|---------------------|--------------------------|---|
| External Gamma | Radioactive Materials | Soil and Building Materials | Whole Body | External absorption | Workers on site | About 70 years | Occupational | 360 | Radium |
| Radon Inhalation | Radon gas | Indoor Air | Lungs | Inhalation | Workers on site | About 70 years | Occupational | 360 | Radon |
| Dust Inhalation | Radioactive Materials | Suspended dust | Lungs | Inhalation | Workers on site | About 70 years | Occupational | 360 | Radium |
| Soil Ingestion | Radioactive Soil | Soil | GI Tract | Ingestion | Workers on site | About 70 years | Occupational | 360 | Radium |

Appendix 2B. Completed Off-Site Exposure Pathways
U. S. Radium

| Pathway Name: | Source | Medium | Exposure Point | Exposure Route | Receptor Population | Time of Exposure | Exposure Activities | Estimated Number Exposed | Chemicals (identify by name or reference to tables in document) |
|------------------|-----------------------|-----------------------------|----------------|---------------------|-----------------------|------------------|---------------------|--------------------------|---|
| External Gamma | Radioactive Materials | Soil and Building Materials | Whole Body | External Absorption | Primarily Residential | About 70 years | Residential | Several hundred | Radium |
| Radon Inhalation | Radon gas | Indoor Air | Lungs | Inhalation | Primarily Residential | About 70 years | Residential | Several hundred | Radon |
| Dust Inhalation | Radioactive Materials | Suspended dust | Lungs | Inhalation | Primarily Residential | About 70 years | Residential | Several hundred | Radium |
| Soil Ingestion | Radioactive Soil | Soil | GI Tract | Ingestion | Primarily Residential | About 70 years | Residential | Several hundred | Radium |

Appendix 4.
 Total Population Estimates
 U. S. Radium

| Pathway Name | Unknown | Estimated Pop. in Pathway | Range Minimum | Range Maximum |
|---------------------------------|---------|---------------------------|---------------|---------------|
| Completed Pathways On-site | | 360 | 360 | 360 |
| Completed Pathways Off-site | | Several hundred | 101 | 999 |
| Total Completed On and Off-site | | Several hundred | 461 | 1359 |