



**U.S. Army Corps of Engineers
Buffalo District**

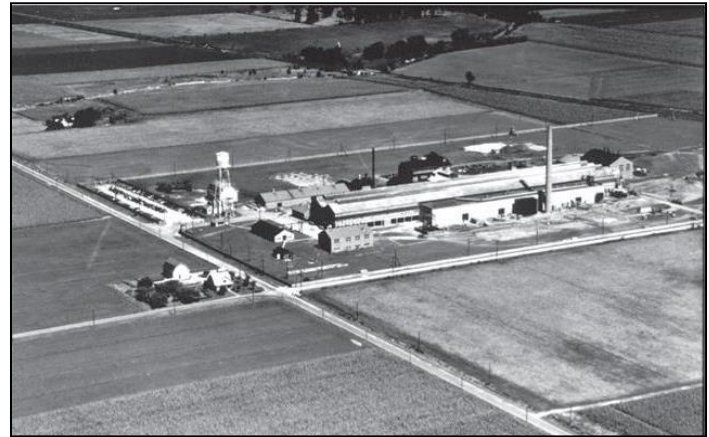
Building Strong®

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Formerly Utilized Sites Remedial Action Program

The Formerly Utilized Sites Remedial Action Program (FUSRAP) was initiated in 1974 to identify, investigate, and if necessary, clean up or control sites throughout the United States contaminated as a result of Manhattan Engineer District or early Atomic Energy Commission (AEC) activities.

When implementing FUSRAP, the Corps of Engineers follows the investigation and response framework of the Comprehensive Environmental Response, Compensation, and Liability Act, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan.



1950s Aerial View of the Site

Site Description

The Luckey Site is located at 21200 Luckey Road near the Village of Luckey, Ohio, 22 miles southeast of Toledo. The site is bordered by farmland to the north, abandoned railroad tracks to the east, Gilbert Road to the south, and Luckey Road to the west. The site is zoned industrial and is currently vacant. The Luckey Site covers approximately 40 acres. Numerous open areas are covered with grasses and brush. Several areas were previously used to store byproducts from magnesium and beryllium processing.

Site History

In 1942, a magnesium processing facility was built at the Luckey Site on U.S. government land. National Lead operated the facility for the U.S. government during World War II until 1945. In 1949, the AEC built a beryllium production facility at the site where Brush Beryllium Company (later Brush Wellman) produced beryllium oxide, beryllium hydroxide, and beryllium pebbles. The products were then shipped to other facilities for further processing.

In late 1951 and early 1952, AEC sent approximately 1,000 tons of radioactively contaminated scrap metal to the site in anticipation of resuming magnesium processing at the facility. The scrap metal, which contained radioactivity within guidelines at the time, was stored at the site and never used for its intended purpose. Records indicate that beryllium scrap from other AEC operations was also sent to the Luckey Site. Indications are that some of it was contaminated with radioactivity. Brush Beryllium Company operated the facility until 1958 when beryllium production ceased. However, sintering and powder blending operations, established at the Luckey facility in 1957, continued until 1960.

In 1959, AEC contracted with Brush Beryllium Company to close the facility. Closing operations included constructing a two-acre, dike-enclosed landfill on the northeast corner of the property. Sludge material from three lagoons adjacent to the production building was moved to the landfill, which was reportedly capped, graded, and seeded. General Services Administration sold the facility in 1961. The facility has had various owners since then.

Status of the Site

In 2006, the Corps of Engineers signed a record of decision (ROD) addressing beryllium, lead, and radionuclide (radium-226, thorium-230, uranium-234, uranium-235, and uranium-238) contamination in soils. This soil contamination extends to the north of the site to Toussaint Creek, although it was determined that residual contamination in the creek did not pose an ecological concern that warranted cleanup. The remedy for soils is the excavation and off-site disposal of FUSRAP-contaminated materials.

In 2008, the Corps of Engineers signed a ROD addressing uranium, lead, and beryllium contamination that currently exists in groundwater below the site. The remedy for groundwater is monitored natural attenuation of groundwater. Once the contaminated soil is removed from the site, concentrations of these contaminants in groundwater will decrease naturally in the subsurface. Groundwater wells will be sampled annually for beryllium, lead, and uranium until sampling results show a progressive trend that indicates safe drinking water standards have been met. Land use controls during the monitoring period will ensure there are no changes in groundwater use. Enhanced monitoring, to meet the requirements of the groundwater ROD, will begin during the initiation of the soils cleanup required under the Luckey Site soils ROD.

The Corps of Engineers completed additional soil sampling and radiological, geophysical, and topographic surveys on the Luckey Site in March 2010. The results provided the Corps of Engineers with information necessary to update estimated costs associated with the Luckey Site cleanup, and complete the remedial design phase. Once soil cleanup begins, the Corps of Engineers will excavate impacted soils to achieve cleanup goals for unrestricted use of the site (for instance farming). Excavated soils will be shipped off-site for disposal at a licensed/permitted disposal facility.

In 2015, the Corps of Engineers awarded a contract for cleanup of FUSRAP-contaminated soils at the Luckey Site. The contractor completed developing work plans for the project in 2016. The work plans will guide the cleanup and ensure it is performed in a manner that is protective of the health and safety of site workers, the local community, and the environment.

Beginning in September 2016, the contractor began mobilizing equipment and personnel to the site to setup the site infrastructure and equipment needed to perform the remediation. The contractor also conducted necessary background soil and air sampling and monitoring. In April 2018, the contractor completed site infrastructure setup activities and began excavation and off-site disposal of FUSRAP-contaminated site soils.

During 2019, the Corps of Engineers plans to complete the remedial activities in the Phase 1 area, begin remediation in the Phase 2 area, and anticipates removing and shipping approximately 18,400 cubic yards of FUSRAP-contaminated materials off site. In addition, the remediation contractor will begin final status survey activities and site restoration work in the Phase 1 area. The Corps of Engineers has developed a project infographic, which is available on the Luckey FUSRAP website, to keep the community informed of progress at the site.

Administrative Record File

The administrative record file for the Luckey Site contains documents that were considered during the decision-making process for the Luckey Site and is available electronically at the:

Luckey Public Library
228 Main Street
Luckey, OH 43443

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