

# Luckey FUSRAP Site

Luckey, Ohio

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

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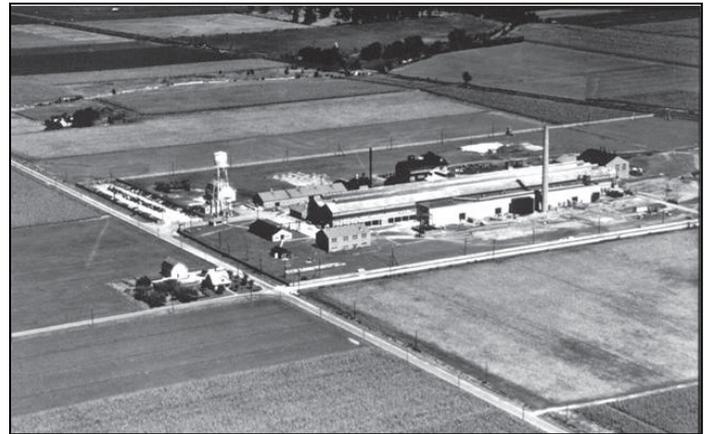
## **Formerly Utilized Sites Remedial Action Program (FUSRAP)**

July 2012

### Formerly Utilized Sites Remedial Action Program (FUSRAP)

FUSRAP was initiated in 1974 to identify, investigate, and clean up or control sites throughout the United States that were part of the Nation's early atomic weapons and energy programs during the 1940s, 1950s, and 1960s.

When implementing FUSRAP, the Corps follows the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 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 Luckey Road to the west, Gilbert Road to the south, and abandoned railroad tracks to the east. 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. The facility was operated for the U.S. Government by National Lead during World War II until 1945. In 1949, the Atomic Energy Commission (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, the 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 also indicate that beryllium scrap from other AEC operations was sent to the Luckey Site. Indications are that some of this scrap 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, USACE 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 remediation. The remedy for soils is the excavation and offsite disposal of FUSRAP-contaminated materials.

In 2008, USACE 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 remediation required under the Luckey Site Soils ROD.

The Corps completed additional soil sampling and radiological, geophysical and topographic surveys on the Luckey Site in March 2010. The results of this work provided the Corps with the information necessary to update the estimated costs associated with the Luckey Site cleanup, and complete the remedial design phase. Once soil remediation begins, the Corps will excavate impacted soils to achieve cleanup goals for unrestricted use of the site (for farming or other use). Excavated soils will be shipped off site for disposal at a licensed/permitted disposal facility. Remediation of the Luckey Site is projected to begin pending the completion of currently ongoing cleanups at other FUSRAP sites and the availability of program funding.

## Next Steps

The next steps involve establishing criteria that will be implemented during site work to: 1) protect the health and safety of the public and site workers, 2) prevent the spread of contamination, and 3) establish the type and quality of soils that can be used to backfill the excavations. Other activities will include preparing a remedial action scope of work, identifying qualified contractors to perform the remediation, and making site arrangements. A contract will be awarded to perform the soils remediation. Construction work plans and design documents will be prepared prior to starting work 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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