

What is FUSRAP?

FUSRAP stands for the Formerly Utilized Sites Remedial Action Program, a program initiated in 1974 to identify, investigate and clean up or control sites that were part of the Nation's early atomic energy and weapons program. Activities at sites that are eligible for FUSRAP were conducted by the Manhattan Engineer District (MED) or the Atomic Energy Commission (AEC), both predecessors of the Department of Energy (DOE).

Mission and Objectives

The FUSRAP mission is to identify, evaluate, and clean up or control sites where residual radioactivity exceeding current guidelines remains from MED/AEC contract activities and other sites assigned by Congress. The Corps' FUSRAP objectives are to safely, effectively and efficiently:

- Identify and evaluate sites where authority and a need for response action exist.
- Clean-up or control the sites to ensure protection of human health and the environment.
- Dispose or stabilize radioactive material in a way that is safe for the public and the environment.
- Perform work in compliance with applicable Federal, State, and local environmental laws and regulations.
- Release sites for appropriate future use.

Community Involvement

The U.S. Army Corps of Engineers is committed to informing and involving the public as it continues with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process during the remedial action of the Luckey Site and has established the following overall goals for the community involvement program.

The Corps will:

- Foster and maintain a climate of understanding and trust between the public and the Corps.
- Communicate our commitment to protect human health and the environment during FUSRAP activities at the Luckey Site.
- Listen carefully to what the public says.
- Identify and deal responsively with public concerns.

Administrative Record File

A disk containing documents that were considered during the decision-making process for the Luckey Site is available in the:

Luckey Public Library
228 Main Street
Luckey, OH 43443

Contact Information

If you have questions, please contact:

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<http://www.lrb.usace.army.mil/fusrap/luckey/index.htm>



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LUCKEY SITE
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM

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.



3-D topographical surveying

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 were 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.



Soil sampling

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.

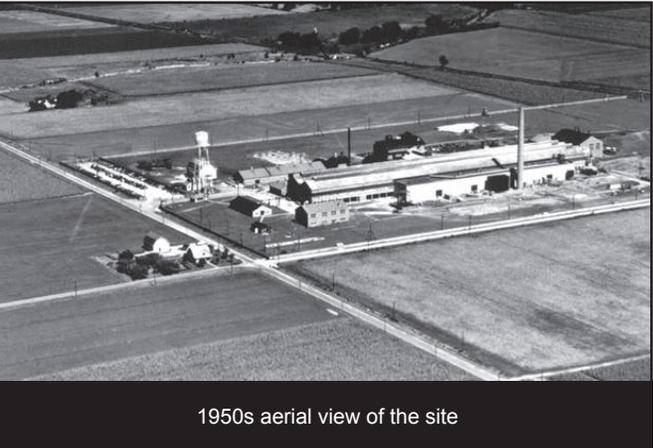
The Corps completed additional soil sampling and radiological, geophysical and topographic surveys on the Luckey Site in March 2010. The results of this work will provide the Corps with the information necessary to update the estimated costs associated with the Luckey Site cleanup, and complete the remedial 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. The cleanup of site soils is currently projected to be initiated in 2014.



Gamma surveys

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.

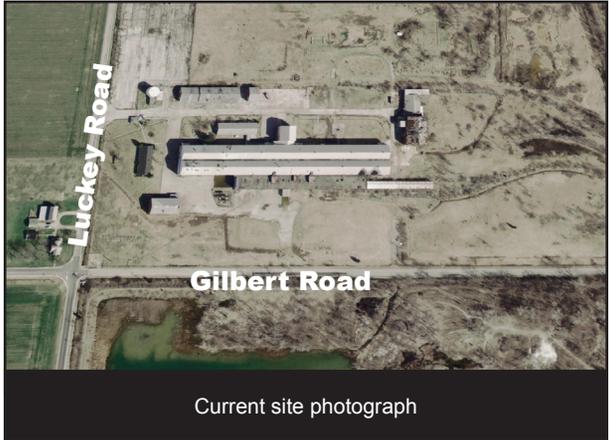


1950s aerial view of the site

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



Current site photograph



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