FUTURE USE

Overview of post cleanup configuration planning

What work is being done to plan for the post cleanup configuration?

Fluor-B&W Portsmouth has entered into a contract with a civil engineering firm to create an objective post cleanup configuration of the site for consideration. This team is evaluating the topography and existing capabilities, capacities, and remaining useful life of site infrastructure, such as:

- Well fields and raw water supply systems
- Water treatment plant and distribution system
- Wastewater collection, treatment and discharge system
- High Pressure Fire Water supply and distribution system
- Culverts, storm sewers, retention ponds, and overall site drainage systems
- Electrical supply and distribution systems
- Access and site roadway systems
- Railroad transportation system

The team will explore water and wastewater treatment options onsite and offsite, reviewing the economic benefits and practicality of utilizing local utility providers, such as Pike Water, Scioto Water, and the Village of Piketon, to serve the infrastructure needs of the site. The end product will be a report that includes a Post Cleanup Site Configuration Map and recommendations for how to achieve the desired end result for each utility system and transportation infrastructure evaluated.

Who is participating in post cleanup configuration planning?

FBP is working closely with DOE and the community reuse organization (CRO), Southern Ohio Diversification Initiative (SODI), to develop the post cleanup configuration. Local elected officials, the Site Specific Advisory Board (SSAB), and SODI, have provided input in the form of letters, resolutions, and recommendations regarding redevelopment of the site. The Team is creating a post cleanup configuration plan that can be implemented as Decontamination and Decommissioning progresses over the next 10 years to support the desired future use of the site.

PRELIMINARY

Information compiled for PORTS SSAB use by Fluor-B&W Portsmouth, LLC
November 3, 2011
This information represents work in progress for discussion purposes only

FUTURE USE

Assumptions for Proposed Post-Cleanup Configuration

What assumptions are being made to prepare a post cleanup configuration plan?

The following assumptions to prepare a post-cleanup configuration plan have been made:

- Redevelopment will take place on the gaseous diffusion plant footprint.
- No significant impacts to the existing footprints of American Centrifuge Plant (ACP) and the Depleted Uranium Hexafluoride (DUF6) Facilities.
- All contaminated groundwater plumes will be remediated.
- Onsite landfills located within the existing site perimeter roadway will be evaluated for consolidation.
- Demolition of the existing water treatment plant, wastewater treatment plant, and high voltage switchyard.
- Infrastructure and site redevelopment will support economic development projects.
- Infrastructure that is removed will be replaced either onsite or offsite under the D&D mission to support ACP and DUF6 facilities and future redevelopment of the site.

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CLEANUP LEVELS

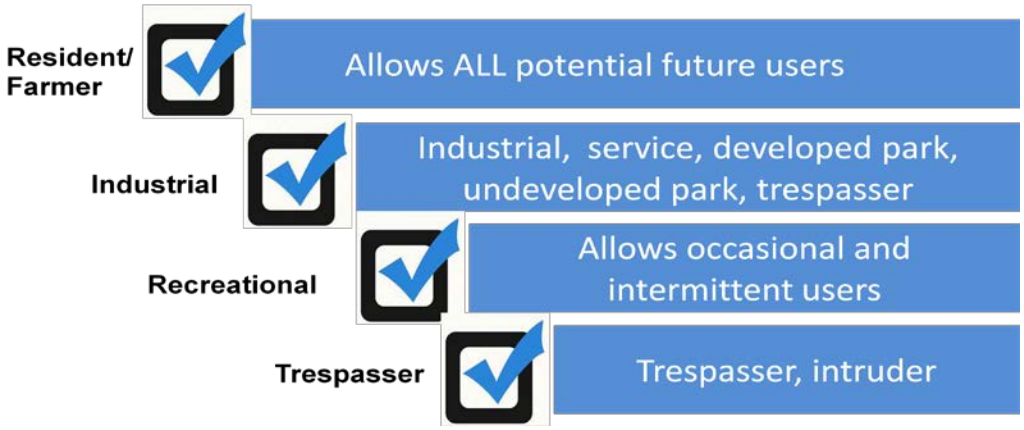
Future User–

Description of Alternatives

What is a Future User and How Does a Potential Future User Impact Cleanup Levels?

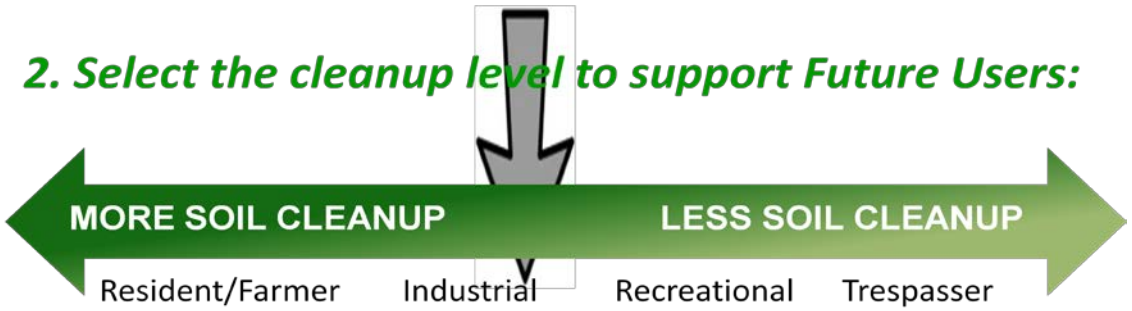
The future user is a term used to describe the future occupants or users of a remediation site. The potential future user is a key part of developing soil cleanup goals through the risk assessment process. EPA requires environmental cleanup at a site if the risk to a hypothetical future user of developing cancer from site contaminants is greater than 1 in 10,000 (1×10^{-4}). Determining the potential future user for the Portsmouth Site is a key part of developing soil cleanup goals through the risk assessment process. As an example, a hypothetical resident/farmer would have longer and more frequent contact with soil and thus requires more soil cleanup compared to other potential future users.

1. Select the type of desired Future User:



The future use cleanup level is not necessarily the required future use. Any use to the right of the chosen future use cleanup level on the continuum above would also be acceptable. For example, a site cleaned up to support Industrial future users would also be protective and acceptable for recreational use and trespassers. It would not, however, allow residential / farming future use.

2. Select the cleanup level to support Future Users:



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