

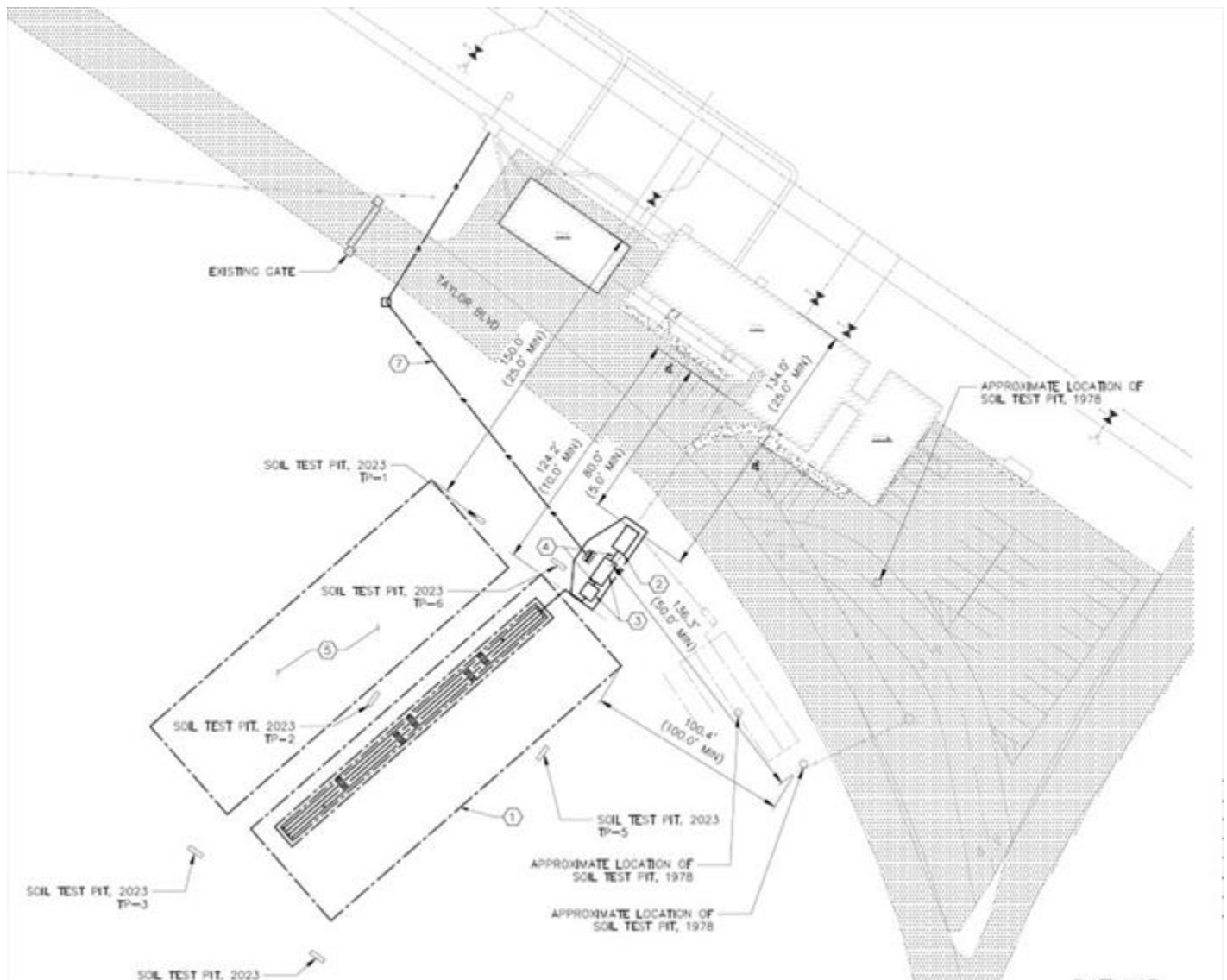
SECTION A. Project Title: MFC-721 TREAT Office Building Septic System R1

SECTION B. Project Description and Purpose:

Revision 1

BEA is planning to replace an existing subsurface sewage disposal (septic) system with a new subsurface sewage disposal system (3,000-gal septic tank, dosing chamber, pumps, drain field, replacement drain field, etc.) located across the road (Harrison Boulevard) to the southwest of Transient Reactor Test (TREAT) Facility buildings MFC-721 and -724. See figure below. The new subsurface sewage disposal system will be a sand mound type and will have a larger capacity than the existing gravity subsurface sewage disposal system. The 4" pipe that runs from MCF-721 under the road is not anticipated to be replaced unless an inspection identifies deficiencies. A new underground duct bank will be constructed to provide power from MFC-724 to the new septic system. The new system will intrude into previously undisturbed soil to the north of the existing system. Test pits were dug in several locations to characterize the soil and depth to bedrock (see figure). The new system will require an installation permit and will be installed by a licensed installer.

The existing system, which consists of a 1,000-gallon septic tank and drain field, will be abandoned in accordance with IDAPA 58.01.03.007.23, which includes pumping the scum and septage with approved disposal, disconnecting the inlet and outlet piping, and either filling the septic tank with earthen materials, physically destroying the septic tank, or removing the septic tank from the ground.



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Original ECP

The project would install a new septic system (septic tank and drain field) at the MFC-721 Transient Reactor Test (TREAT) office building. See figure below. The system would replace a 1,000-gallon septic tank and seepage system with a two compartment 2,500-gallon septic tank.

The 4" pipe that runs from MCF-721 to the south side of the road (Harrison Boulevard) is not anticipated to be replaced, However, this piping will be inspected for deficiencies. If the inspection identifies deficiencies with the piping, then the piping will be replaced.

The 4" pipe that runs from the south side of Harrison Boulevard to the new 2,500-gallon tank will be replaced.

The drain field will be extended. This extension may intrude into previously undisturbed soil. Areas of soil that have not been previously disturbed will require a cultural resource review of the area before the area is disturbed.

The existing 1,000-gallon septic tank will be backfilled in place after being pumped.

Constructing the septic system and installing a new septic tank requires an 'Installation Permit' and a licensed installer. INL would use a licensed subcontractor to perform this work.

The "Individual/Subsurface Sewage & Cleaning of Septic Tanks Rules" (IDAPA 58.01.03) establish minimum standards for the design, construction, siting, and use of individual and subsurface sewage disposal systems. These rules also establish requirements for obtaining an installation permit and an installer's registration permit and septic tank abandonment. See project specific instructions for septic tank abandonment.



SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Project construction activities may involve the use of portable generators and equipment used by subcontractors. In addition, construction activities have the potential to create fugitive dust that may require dust suppression by water or other means.

Discharging to Surface-, Storm-, or Ground Water

The project will be constructing a new septic system that will discharge to the ground.

Disturbing Cultural or Biological Resources

There is the potential for this work to impact vegetation and for project personnel to interact with various wildlife species. A Biological Resource Review will be arranged within two weeks prior to the initiation of any activities that might disturb soil or vegetation and again following completion of project activities. A nesting bird survey is included with the Biological Resource Review for actions occurring between April 1 - October 1 per compliance with the Migratory Bird Treaty Act. Bat surveys are also included with the Biological Resource Review in accordance with the INL Bat Protection Plan.

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Excavation and grading activities will disturb soil and vegetation in previously undisturbed areas, which may affect cultural resources. A Section 106 review was completed under CRMO project number (BEA-21-40 R1) and resulted in No Historic Properties Affected.

Generating and Managing Waste

When wastes are generated, how they are disposed can adversely affect the environment. Managing wastes appropriately and responsibly and implementing recycling or reuse practices, where feasible, during project activities can reduce the potential impact on the environment.

Releasing Contaminants

When chemicals are used during the project there is the potential for spills that could impact the environment (air, water, soil).

Using, Reusing, and Conserving Natural Resources

Project description indicates materials will need to be purchased or used that require sourcing materials from the environment. Being conscientious about the types of materials used could reduce the impact to our natural resources.

Environmental Justice

According to the CEQ Climate and Economic Justice Screening Tool, the INL site as well as the Research and Education Campus in Idaho Falls, ID are located in U.S. Census tracts that are identified as disadvantaged communities. Census tracts identified as disadvantaged meet or exceed socioeconomic, environmental, health, or demographic thresholds identified by CEQ. Given that activities analyzed in this document will happen within the boundaries of existing DOE/INL land and/or facilities where there are no permanent residents, any impacts to Environmental Justice in surrounding communities are anticipated to be negligible.

SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification: Identify the applicable categorical exclusion from 10 Code of Federal Regulation (CFR) 1021, Appendix B, give the appropriate justification, and the approval date.

For Categorical Exclusions (CXs), the proposed action must not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, or similar requirements of Department of Energy (DOE) or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; (3) disturb hazardous substances, pollutants, contaminants, or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist that would affect the significance of the action. In addition, the action is not "connected" to other action actions (40 CFR 1508.25(a)(1) and is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1608.27(b)(7)).

References: B1.26 "Small water treatment facilities", B2.5 "Facility safety and environmental improvements"

Justification: Based on the purpose and need and description of the proposed action and potential environmental impacts, the proposed action fits within the class of actions that is listed in Appendix B CX B1.26 and B2.5. There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal. The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)) and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Authorizing the proposed action will not (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, including DOE and/or Executive orders; (2) require siting of new facilities or expansion of existing facilities; (3) disturb hazardous substances, pollutants, or contaminants; (4) adversely affect environmentally sensitive resources; or (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species.

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Robert Douglas Herzog, DOE-ID NEPA Compliance Officer on: 8/12/2024