



FERMI SITE OFFICE

U.S. Department of Energy
Office of Science

P.O. Box 2000
Batavia, Illinois 60510

June 11, 2025

Mr. Bill Mairson
Chief Safety Officer
Fermilab
P.O. Box 500
Batavia, Illinois 60510

SUBJECT: NATIONAL ENVIRONMENTAL POLICY ACT DETERMINATION
AT FERMI NATIONAL ACCELERATOR LABORATORY
ENVIRONMENTAL MONITORING PROGRAM

Reference: Email from B. Mairson to R. Alber; Subject; National Environmental
Policy Act Environmental Evaluation Notification Form for the
Environmental Monitoring Program; Dated: June 2, 2025

Dear Mr. Mairson,

The Fermi Site Office (FSO), in conjunction with the appointed NEPA Compliance Officer from the Brookhaven Site Office, has reviewed the National Environmental Policy Act (NEPA) Environmental Evaluation Notification Form (EENF) for the Environmental Monitoring Program. Based on the information provided in the EENF, the following categorical exclusion (CX) is approved.

| <u>Project Name</u> | <u>Approved</u> | <u>CX</u> |
|----------------------------------|-----------------|-----------|
| Environmental Monitoring Program | 6/10/2025 | B3.1 |

Enclosed is a signed copy of the EENF for your records. No further NEPA review is required. This project falls under categorical exclusions provided in 40 *CFR* 1021, as amended in November 2011.

If you have any questions, please contact Russ Alber, of my staff, at 630-840-2501 or by email at russ.alber@science.doe.gov.

Sincerely,

Whitney Begner-
Romozzi

Digitally signed by
Whitney Begner-Romozzi
Date: 2025.06.17
12:04:44 -05'00'

Whitney S. Begner-Romozzi
Acting Manager, Fermi Site Office

Enclosures: As Stated

cc:

J. Sawyer, FFDG

R. Bushek, FFDG

S. Panock, FFDG

R. Alber, DOE-FSO

J. Scott, DOE-FSO

**FERMILAB ENVIRONMENTAL EVALUATION NOTIFICATION FORM
(EENF) for documenting compliance with the National Environmental Policy
Act (NEPA), Department of Energy (DOE) NEPA Implementing Regulations,
and the DOE NEPA Compliance Program of DOE Policy 451.1**

Project/Activity Title: Environmental Monitoring Program

ES&H Tracking Number: 2025-31161

I hereby verify, via my signature, the accuracy of information in the area of my contribution for this document and that every effort would be made throughout this action to comply with the commitments made in this document and to pursue cost-effective pollution prevention opportunities. Pollution prevention (source reduction and other practices that eliminate or reduce the creation of pollutants) is recognized as a good business practice which would enhance site operations thereby enabling Fermilab to accomplish its mission, achieve environmental compliance, reduce risks to health and the environment, and prevent or minimize future Department of Energy (DOE) legacy wastes.

Fermilab Action Owner: Eric Korzeniowski

Eric T. Korzeniowski

Signature and Date: _____

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Korzeniowski
Date: 2025.05.28 15:26:15 -05'00'

I. Description of the Proposed Action and Need

Purpose and Need:

The purpose of the Fermi National Accelerator Laboratory (Fermilab) Environmental Monitoring Program is to assist Fermilab management in decision-making by providing environmental data relevant to impacts from Fermilab construction, operation, maintenance, and/or demolition/decommissioning on the surrounding environment. This program is needed to ensure adherence to environmental regulations, including DOE Orders and to support compliance of various environmental permits.

Proposed Action:

The Monitoring Program consists of two elements: effluent monitoring and environmental surveillance. Effluent monitoring pertains to compliance with permits and is conducted at specific locations across the Laboratory. Environmental surveillance is conducted at various locations in the path of potential pollutants toward receptors such as plants, animals, the Laboratory community, subcontractors, and members of the public. Environmental data is collected for monitoring and/or reporting purposes or as determined necessary or useful in conducting the business of the Laboratory. Non-routine and project-specific monitoring may also be conducted. These monitoring efforts are conducted on an as-needed basis, often in response to specific events or situations. The primary aim of these activities is to investigate unusual occurrences such as accidental spills, contamination events, complaints, to study specific research questions, or emerging issues. The program includes monitoring and surveillance of air emissions (including radionuclides), surface water, storm water, sumps, sediment, pesticide use, sanitary systems, groundwater, drinking water wells, and drinking water systems.

Alternatives Considered:

The Do Nothing alternative would not ensure adherence to environmental regulations or support compliance of various environmental permits.

II. Description of the Affected Environment

The program is implemented site wide. Potential environmental impacts are described in Section. IV.

III. Potential Environmental Effects (If the answer to the questions below is “yes”, provide comments for each checked item and where clarification is necessary.)

A. Sensitive Resources: Would the proposed action result in changes and/or disturbances to any of the following resources?

- Threatened or endangered species
- Other protected species
- Wetland/Floodplains
- Archaeological or historical resources
- Non-attainment areas

B. Regulated Substances/Activities: Would the proposed action involve any of the following regulated substances or activities?

- Clearing or Excavation
- Demolition or decommissioning
- Asbestos removal
- PCBs
- Chemical use or storage
- Pesticides
- Air emissions
- Liquid effluents
- Underground storage tanks
- Hazardous or other regulated waste (including radioactive or mixed)
- Radioactive exposures or radioactive emissions
- Radioactivation of soil or groundwater

C. Other Relevant Disclosures: Would the proposed action involve any of the following actions/disclosures?

- Threatened violation of ES&H permit requirements
- Siting/construction/major modification of waste recovery or TSD facilities
- Disturbance of pre-existing contamination
- New or modified permits
- Public controversy
- Action/involvement of another federal agency
- Public utilities/services
- Depletion of a non-renewable resource

IV. Comments on checked items in section III.

Threatened or endangered species

Monitoring and sampling may occur in areas that support habitat for threatened or endangered species. Fermilab Ecology team will be consulted to ensure minimal impact.

Wetland/Floodplains

Monitoring and sampling may occur in potential wetland or floodplain areas. A permit will be obtained, if necessary, and best management practices will be followed to ensure minimal impact.

Archaeological or historical resources

Monitoring and sampling may occur in locations with potential archeological or historical significance. Fermilab’s Cultural Resource Management Plan will be followed, and the State Historic Preservation Office (SHPO) will be consulted, if necessary.

Chemical use or storage

Minimal chemicals or additives may be used in samples for quality assurance purposes.

Pesticides

Samples may incidentally contain pesticides; however, monitoring and surveillance activities do not typically include the application of pesticides.

Hazardous or other regulated waste (including radioactive or mixed)

Samples may include hazardous or regulated substances, such as, but not limited to, tritium and oil. Proper handling protocols will be followed, and Fermilab Radiation Safety Department will be consulted when necessary.

Radioactive exposures or radioactive emissions

Monitoring and sampling locations may be conducted in radiological areas. Radioactive emissions may occur through stacks and the industrial cooling water system. Radiation Safety Department will be consulted, and proper personal protection equipment will be utilized.

Disturbance of pre-existing contamination

Samples may be taken at locations with pre-existing contamination. Monitoring and sampling of these locations will likely be used to determine the level of contamination and assist in decision making for remediation activities.

V. NEPA Recommendation

Fermilab staff has evaluated the proposed action and believe that several Categorical Exclusions apply. It is believed that the proposed action meets the description found in DOE's NEPA Implementation Procedures, 10 CFR 1021, Subpart D, as follows.

B 3.1 Site Characterization and Environmental Monitoring

Site characterization and environmental monitoring (including, but not limited to, siting, construction, modification, operation, and dismantlement and removal or otherwise proper closure (such as of a well) of characterization and monitoring devices, and siting, construction, and associated operation of a small-scale laboratory building or renovation of a room in an existing building for sample analysis). Specific activities include but are not limited to: (a) Geological, geophysical (such as gravity, magnetic, electrical, seismic, radar, and temperature gradient), geochemical, and engineering surveys and mapping, and the establishment of survey marks. Seismic techniques would not include large-scale reflection or refraction testing; (b) Installation and operation of field instruments (such as stream-gauging stations or flow-measuring devices, telemetry systems, geochemical monitoring tools, and geophysical exploration tools); (c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone, well logging, and installation of water-level recording devices in wells; (d) Aquifer and underground reservoir response testing; (e) Installation and operation of ambient air monitoring equipment; (f) Sampling and characterization of water, soil, rock, or contaminants (such as drilling using truck- or mobile-scale equipment, and modification, use, and plugging of boreholes); (g) Sampling and characterization of water effluents, air emissions, or solid waste streams; (h) Installation and operation of meteorological towers and associated activities (such as assessment of potential wind energy resources); (i) Sampling of flora or fauna; and (j) Archeological, historic, and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7.

Fermilab NEPA Program Manager: Samantha Panock
Signature and Date:

Samantha Panock

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Panock
Date: 2025.05.28 14:21:16 -05'00'

VI. DOE/Fermi Site Office (FSO) NEPA Review

Based upon my review of information conveyed to me and in my possession concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Policy 451.1), I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

DOE / NEPA Compliance Officer:

**KATHLEEN
GREEN**
Signature and Date:

 Digitally signed by KATHLEEN
GREEN
Date: 2025.06.10 07:27:56 -04'00'

VII. Diagrams