



## Environmental Review Form for Argonne National Laboratory

<b>Form:</b>	ANL-985
<b>Version:</b>	5
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<b>Created By:</b>	Harris, Shana E

### Creator

Badge:	311196	Name:	Harris, Shana E
Cost Center:	254	Division:	ESH
Job Title:	ESH Multi-Functional 3	Employee Type:	Regular Full-Time Exempt
Building:	203	Lab Extension:	2-5482

### General Information

Project/Activity Title: Generic CX for Environmental Characterization and Monitoring

ASO NEPA Tracking No.: 1	Type of Funding:
B & R Code:	Identifying Number: 1
SPP Proposal Number:	CRADA Proposal Number:
Work Project Number:	ANL Accounting Number: (Item 3a in Field Work Proposal)
Other (explain):	

List appropriate NEPA Owners:

Division: AET	NEPA Owner:
Division: CLS	NEPA Owner:
Division: MSD	NEPA Owner:
Division: OTD	NEPA Owner:
Division: IS	NEPA Owner:
Division: AES	NEPA Owner:

### Financial Plans

To select a Financial Plan, click the magnifying glass icon to open a search window.

Cost Center:    Project:    Phase:    Task:

### Description of Proposed Action

This ERF is an update to DOE ASO-CX-324: Site Environmental Characterization and Monitoring. Typical activities under this generic CX would include environmental characterization and monitoring, atmospheric and geological monitoring, general research and work in support of Argonne's Environment, Safety & Health programs. Characterization and monitoring would include sites with suspected or known contamination, including the characterization phase of newly discovered contaminated sites or sites that require further characterization. Monitoring would be conducted in the vicinity of known or suspected contamination for the purpose of tracking the condition of the environment, following the implementation of a remedial action, the fulfillment of permit requirements, to quantify effluent release(s), to establish existing background/baseline environmental condition(s) or assessment of site and facility condition(s). Refer to DOE ASO-CX 322 and/or ASO-CX-338, and subsequent versions, for use of unmanned aircraft systems (UAS), as applicable. \*\*REFER TO THE ATTACHMENT FOR COMPLETE LIST OF ACTIVITIES INCLUDED\*\* (all text does not fit on form)

### Description of Affected Environment

Proposed activities would occur at Argonne National Laboratory in DuPage County, Illinois, as well as other locations in the United States for characterization or monitoring on behalf of the DOE. For projects with multiple DOE or agency sponsors, those federal parties would collaborate to determine which party would take the NEPA compliance lead. Characterization and monitoring activities would typically be conducted at sites including but not limited to, developed areas, existing natural areas, agricultural sites, wind or solar energy facilities, sites of known or suspected contamination, remediation sites and sites identified as primary areas to conduct environmental sciences research. At the close of projects that involve ground disturbance, areas would be restored to their prior condition or otherwise as directed by the landowner. The activities would not adversely impact wetlands, floodplains, streams, archaeology sites that are not the focus of the project work, historic structures, or parts thereof.

## Potential Environmental Effects

- Attach explanation for each "yes" response near bottom of form.
- **See Instructions for Completing Environmental Review Form.**

Section A (Complete For All Projects)		Yes	No	Explanation
1.	Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable	<input checked="" type="radio"/>	<input type="radio"/>	See individual explanations below. The proposed action would be evaluated before implementation to identify options to reduce or eliminate generation of waste materials
2.	Air Pollutant Emissions	<input checked="" type="radio"/>	<input type="radio"/>	Minor emissions from cars, light duty vehicles, gas powered pumps and generators may occur. Any applicable work at Argonne must be within the limits of Argonne's current air permit requirements.
3.	Noise	<input checked="" type="radio"/>	<input type="radio"/>	Minor noise from construction and operational/maintenance of equipment may occur. All appropriate standards would be followed and personal protective equipment used as required.
4.	Chemical/Oil Storage/Use	<input checked="" type="radio"/>	<input type="radio"/>	Small quantities (less than one gallon) of standard construction, maintenance and operational chemicals may be used such as oil, cleaning products, sample preparation preservatives, drilling fluids, and cement.
5.	Pesticide Use	<input checked="" type="radio"/>	<input type="radio"/>	Pesticides and herbicides may be used as necessary to control pests such as wasps and hornets, mosquitoes, and invasive plants. Areas around sampling locations may be herbicided to allow access. Any pesticides would be applied by licensed applicators and safety data sheets (SDS) made available.
6.	<b>Toxic Substances Control Act (TSCA) Substances</b>			
6a.	Polychlorinated Biphenyls (PCBs)	<input checked="" type="radio"/>	<input type="radio"/>	PCB material may be found in samples and drilling operations. Any potentially contaminated waste material would be appropriately characterized to identify PCBs, and if present, managed according to Argonne's or other applicable requirements.
6b.	Asbestos or Asbestos Containing Materials	<input checked="" type="radio"/>	<input type="radio"/>	The proposed activities may produce asbestos waste. The waste would be accumulated and managed in accordance with Argonne's or other applicable requirements.
6c.	Other TSCA Regulated Substances	<input type="radio"/>	<input checked="" type="radio"/>	
6d.	Import or Export of Chemical Substances	<input type="radio"/>	<input checked="" type="radio"/>	
7.	Biohazards	<input type="radio"/>	<input checked="" type="radio"/>	
8.	Effluent/Wastewater (If yes, see question #12 and contact Peter Lynch (HSE) at 2-4582 or <a href="mailto:lynch@anl.gov">lynch@anl.gov</a> )	<input checked="" type="radio"/>	<input type="radio"/>	These activities may generate small amounts of wastewater that would not require sewer disposal. Effluent from drilling, well development and sampling would be containerized if the effluent is not characterized and then disposed of appropriately. No discharge of process water or wastewater to a storm sewer system would occur.
9.	<b>Waste Management</b>			
9a.	Construction or Demolition Waste	<input checked="" type="radio"/>	<input type="radio"/>	Any wastes generated would be acceptable for disposal in existing permitted/approved or exempt facilities. Construction debris may be generated from these actions. All debris would be collected and placed in appropriate collection systems for recycling where appropriate. Wastes generated would be characterized to determine if they meet the Clean Construction or Demolition Debris (CCDD) criteria. If not, wastes would be disposed of in accordance with

					Argonne or other applicable authorities. At Argonne sites, all debris and clean excess soil or gravel would be disposed of off-site unless expressly authorized by PMO for on-site recycling or storage.
	9b.	Hazardous Waste	<input checked="" type="radio"/>	<input type="radio"/>	Hazardous waste may be generated from these actions. The waste would be characterized, stored, treated and disposed according to Argonne's or other applicable authorities.
	9c.	Radioactive Mixed Waste	<input checked="" type="radio"/>	<input type="radio"/>	Radioactive mixed waste may be generated from these actions. The waste would be characterized, stored and disposed according to Argonne's or other applicable authorities.
	9d.	Radioactive Waste	<input checked="" type="radio"/>	<input type="radio"/>	Radioactive waste may be generated from these actions. The waste would be characterized, stored and disposed according to Argonne's or other applicable authorities.
	9e.	Asbestos Waste	<input checked="" type="radio"/>	<input type="radio"/>	asbestos waste may be generated from these actions. The waste would be characterized, stored and disposed of according to Argonne's or other applicable authorities.
	9f.	Biological Waste	<input type="radio"/>	<input checked="" type="radio"/>	
	9g.	No Path to Disposal Waste	<input type="radio"/>	<input checked="" type="radio"/>	
	9h.	Nano-material Waste	<input type="radio"/>	<input checked="" type="radio"/>	
10.	Radiation		<input checked="" type="radio"/>	<input type="radio"/>	Monitoring equipment may contain radioactive material and would be used according to the manufacturers instructions. PPE would be used as necessary. ANL Radiological Protection Program calibration activities include irradiators that contain sealed sources used for calibration of hand-held survey instrumentation, as well as performing blind audit testing for our external dosimetry program. These irradiators generate radiation but are contained within a shield facility that is interlocked and locked to prevent unauthorized or inadvertent access to the facility. There is no radiation concern outside of the facility. Workers are not exposed to the radiation. None of the handheld survey or monitoring equipment survey instruments contain a sealed source
11.	Threatened Violation of ES&H Regulations or Permit Requirement		<input type="radio"/>	<input checked="" type="radio"/>	
12.	New or Modified Federal or State Permits		<input checked="" type="radio"/>	<input type="radio"/>	Characterization or monitoring activities may be carried out in preparation for the submission of a permit application, in order to meet the requirements of a permit that has been issued, or to determine whether a new or modified permit is needed. No actions taking place under this generic CX are to require modification to Argonne's existing permits such as IL EPA air permits or U.S. Army Corps of Engineers dredge and fill or wetland permits. Ground disturbing activities may require local or state permits. All permit requirements would be met prior to work taking place.
13.	Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste		<input type="radio"/>	<input checked="" type="radio"/>	
14.	Public Controversy		<input type="radio"/>	<input checked="" type="radio"/>	The actions under this CX would not include any issues of public controversy or disproportionately affect populations.
15.	Historic Structures and Objects		<input checked="" type="radio"/>	<input type="radio"/>	Activities may include surveying and research to identify historic structures or objects. The activities would not adversely impact archaeological sites, historic structures, or objects that are not the focus of the project work, or parts thereof
16.	Disturbance of Pre-existing Contamination		<input checked="" type="radio"/>	<input type="radio"/>	Activities may disturb contaminated or potentially contaminated areas in order to monitor and characterize them. These activities would follow the applicable safety and health plans to prevent personnel contamination. The actions would not cause uncontrolled release of contaminants to the environment.
17.	Energy Efficiency, Resource Conserving, and Sustainable Design Features		<input type="radio"/>	<input checked="" type="radio"/>	
Section B (For Projects that Occur Outdoors)			Yes	No	
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species		<input checked="" type="radio"/>	<input type="radio"/>	Activities may include field surveys, monitoring and observation to identify locations of, or the presence of, T&E species or habitats. Work would not adversely impact species or habitat.

19.	Wetlands	<input checked="" type="radio"/>	<input type="radio"/>	Activities may occur in or near wetland areas. Activities would not adversely impact wetlands.
20.	Floodplain	<input type="radio"/>	<input checked="" type="radio"/>	Activities would not construct permanent structures in a floodplain or adversely impact floodplains
21.	Landscaping	<input checked="" type="radio"/>	<input type="radio"/>	Areas may be cleared to perform the proposed activities. The disturbed areas would be restored to their original condition and, when possible, vegetation which is native to the region would be used.
22.	Navigable Air Space	<input type="radio"/>	<input checked="" type="radio"/>	Unmanned aerial systems (UAS) may be used for monitoring. UASs operated within the boundaries of Argonne National Laboratory should follow DOE-ASO-CX 322 whereas offsite should use DOE-ASO-CX-338, and subsequent versions
23.	Clearing or Excavation	<input checked="" type="radio"/>	<input type="radio"/>	Areas may be cleared of vegetation to perform the proposed activities. Erosion control measures would be utilized. These areas would be restored to their original condition after project completion. When possible, vegetation that is native to the region would be used. Projects are to use Argonne's digging permit or the national call before you dig notification system, ie., Call 811, for utility locates prior to digging
24.	Archaeological Resources	<input checked="" type="radio"/>	<input type="radio"/>	Work may include field surveys to identify the extent or presence of, archaeological resources in an area. Archaeological surveys are destructive work by nature and would be performed according to professional standards. Other survey or ground disturbing activities would not adversely impact archaeological sites or objects that are not the focus of the project work, or parts thereof. Consultation would occur as appropriate with the local SHPO or other agencies
25.	Underground Injection	<input type="radio"/>	<input checked="" type="radio"/>	
26.	Underground Storage Tanks	<input type="radio"/>	<input checked="" type="radio"/>	Testing of UST may occur to sample and monitor for contamination. No new USTs would be constructed or installed.
27.	Public Utilities or Services	<input type="radio"/>	<input checked="" type="radio"/>	Argonne projects would follow the digging permit process to locate utilities. Activities outside of Argonne should use 811, the national call before you dig phone number to identify the locations of utilities before any ground disturbing activities take place. New utilities or services would not be installed under this CX.
28.	Depletion of a Non-Renewable Resource	<input type="radio"/>	<input checked="" type="radio"/>	
<b>Section C (For Projects Outside of ANL)</b>		<b>Yes</b>	<b>No</b>	
29.	Prime, Unique, or Locally Important Farmland	<input type="radio"/>	<input checked="" type="radio"/>	If work would occur in these areas, a separate NEPA review is required.
30.	Special Sources of Groundwater (such as sole source aquifer)	<input type="radio"/>	<input checked="" type="radio"/>	If work would occur in these areas, a separate NEPA review is required.
31.	Coastal Zones	<input type="radio"/>	<input checked="" type="radio"/>	If work would occur in these areas, a separate NEPA review is required.
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	<input type="radio"/>	<input checked="" type="radio"/>	If work would occur in these areas, a separate NEPA review is required.
33.	Action of a State Agency in a State with NEPA-type Law	<input type="radio"/>	<input checked="" type="radio"/>	Actions in a state with NEPA-like environmental requirements should be reviewed for adherence to state review requirements. Review <a href="https://ceq.doe.gov/laws-regulations/states.html">https://ceq.doe.gov/laws-regulations/states.html</a> . If work would occur in these areas, a separate NEPA review is required.
34.	Class I Air Quality Control Region	<input type="radio"/>	<input checked="" type="radio"/>	If work would occur in these areas, a separate NEPA review is required.

### Categorical Exclusion

Other (Use field below to enter other categorical exclusion)

### ANL NEPA Reviewer Use Only

☐ My approval is the final approval necessary

☒ This form requires additional approval from DOE

To be Completed by DOE/ASO

Section D	Yes	No
Are there any extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal?	<input type="radio"/>	<input checked="" type="radio"/>
Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts?	<input type="radio"/>	<input checked="" type="radio"/>
If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211?	<input type="radio"/>	<input type="radio"/>
Can the project or activity be categorically excluded from preparation of an Environment Assessment or Environmental Impact Statement under Subpart D of the DOE NEPA Regulations?	<input checked="" type="radio"/>	<input type="radio"/>
If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded: The project may be excluded under Appendix B of 10 CFR 1021 Subpart D: Category B 3.1 Site Characterization and Environmental Monitoring		
If no, indicate the NEPA recommendation and class(es) of action from Appendix C or D to Subpart D to Part 1021 of 10 CFR.		

Attachments

File Description: Proposed Action Full Description [View Attachment](#)

Comments

This updates the DOE-ASO-CX-324 and includes offsite locations in the scope of proposed actions.

Add Approver

Approver Name	Approver Badge	Reason	Delete
Mesarch, Matthew B	291600	Environmental Protection Program Manager	
McCormick, Diep Quan	58921	Radiological Protection Program Manager	

Notifications

The approval notification email will be copied to the people listed below.

Badge	Name	Division	Delete

ASO-CX Number

ASO-CX- 395

Comments:

This approval is an update to DOE ASO-CX-324, and includes offsite locations in the scope of proposed actions.

Approval

Approver	Action	Date Routed	Action Date	Approval Reason / Comments	Approval Type
Harris, Shana E	APPROVED	2022-08-12	2022-08-12 15:12:40.0	Creator :	PRIMARY
Harris, Shana E	APPROVED	2022-08-12	2022-08-12 15:12:40.0	Project Manager :	PRIMARY
McCormick, Diep Quan	APPROVED	2022-08-12	2022-08-15 11:59:20.0	Radiological Protection Program Manager :	PRIMARY
Mesarch, Matthew B	APPROVED	2022-08-12	2022-08-16 16:10:46.0	Environmental Protection Program Manager :	PRIMARY
Geiser, Urs W.	APPROVED	2022-08-16	2022-08-16 18:36:24.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY

Harris, Amy M.	APPROVED	2022-08-16	2022-08-17 07:56:09.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Wozny, Bryan M.	APPROVED	2022-08-16	2022-08-16 18:22:20.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Rossi, Paul	APPROVED	2022-08-16	2022-08-16 16:48:15.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Patchak, Raymond J.	APPROVED	2022-08-16	2022-08-17 14:35:49.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Andersen, Karyn Elizabeth Schoch	APPROVED	2022-08-16	2022-08-30 09:13:43.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2022-08-30	2022-08-31 10:26:34.0	ANL NEPA Reviewer : <b>Renewal of existing DOE-ASO-CX-324, for DOE approval</b>	PRIMARY
Hellman, Karen B.	APPROVED	2022-08-31	2022-09-06 14:05:47.0	ANL-985 Review and Approval :	PRIMARY
Dunn, Michael W.	APPROVED	2022-09-06	2022-09-15 14:58:14.0	ANL-985 ANL Deputy COO Review and Approval :	PRIMARY
Joshi, Kaushik N.	APPROVED	2022-09-15	2022-10-04 08:49:03.0	ANL-985 DOE-ASO Review and Approval : <b>This approval is given a new number (ASO-CX-395), and is an update to ASO-CX-324, because it includes offsite locations in the scope of proposed actions.</b>	PRIMARY
Siebach, Peter Rudolf	APPROVED	2022-10-04	2022-10-11 15:46:53.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY

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