



**Environmental Review Form for Argonne
National Laboratory**

Form:	ANL-985
Version:	5
Your Form ID:	ANL-985-1107
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Date:	4/25/2018 2:06:08 PM
Created By:	Rodi, Diane J.

Creator

Badge:	53199	Name:	Rodi, Diane J.
Cost Center:	331	Division:	HSE
Job Title:	Safety Manager	Employee Type:	Regular Full-Time Exempt
Building:	240	Lab Extension:	2-1617

General Information

Project/Activity Title: Terrestrial Ecology- Field Research
 ASO NEPA Tracking No.: Type of Funding: DOE - BER
 B & R Code: Identifying Number: PRJ1002265, PRJ1002274
 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: EVS 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

The objective of Argonne's terrestrial ecology research includes studies of plant-soil-atmosphere interactions and biogeochemistry at molecular to landscape scales, with specific emphasis on the below ground ecosystem. Field and laboratory studies address terrestrial components of the global carbon cycle; factors controlling the quantity, quality, and spatial distribution of soil organic matter; and the roles of soil microbes and plant roots in ecosystem-scale responses to environmental forcing factors. Field research will consist of the collection of samples of vegetation and soil from within small areas (less than 4 square meters each) and cut-face sampling up to one and a half meters. Multiple samples may be taken at any given site. As planned, the activities will not result in disturbances to any sensitive resources.

Description of Affected Environment

Field projects will be conducted at agricultural, grassland, shrubland, forest, and tundra sites. Research sites include long-term plots established at the Fermilab National Environmental Research Park in Batavia, Illinois, and multiple locations throughout the state of Alaska.

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	<input checked="" type="radio"/>	<input type="radio"/>	See below for details.

	details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable			
2.	Air Pollutant Emissions	<input type="radio"/>	<input checked="" type="radio"/>	
3.	Noise	<input type="radio"/>	<input checked="" type="radio"/>	
4.	Chemical/Oil Storage/Use	<input checked="" type="radio"/>	<input type="radio"/>	Some gasoline powered tools may be used for extracting and collecting samples in isolated areas. The gasoline will be stored and dispensed from approved containers and unused gasoline will be transported out when the sampling is done. No more than three gallons of fuel will be needed at any single site.
5.	Pesticide Use	<input type="radio"/>	<input checked="" type="radio"/>	
6.	Toxic Substances Control Act (TSCA) Substances			
6a.	Polychlorinated Biphenyls (PCBs)	<input type="radio"/>	<input checked="" type="radio"/>	
6b.	Asbestos or Asbestos Containing Materials	<input type="radio"/>	<input checked="" type="radio"/>	
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 lynch@anl.gov)	<input type="radio"/>	<input checked="" type="radio"/>	
9.	Waste Management			
9a.	Construction or Demolition Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9b.	Hazardous Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9c.	Radioactive Mixed Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9d.	Radioactive Waste	<input type="radio"/>	<input checked="" type="radio"/>	
9e.	Asbestos Waste	<input type="radio"/>	<input checked="" type="radio"/>	
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 type="radio"/>	<input checked="" type="radio"/>	
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"/>	When sites are selected for sample collection, the need for new or modified access, sampling, and environmental permits will be determined by contacting the appropriate federal or state agencies, such as the U.S. Bureau of Land Management, U.S. Fish & Wildlife Service, U.S. Forest Service, U.S. National Park Service, U.S. Army Corps of Engineers, the State of Alaska Department of Natural Resources, the North Slope Borough, and the relevant Alaska Native Corporations.
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"/>	
15.	Historic Structures and Objects	<input type="radio"/>	<input checked="" type="radio"/>	
16.	Disturbance of Pre-existing Contamination	<input type="radio"/>	<input checked="" type="radio"/>	
17.	Energy Efficiency, Resource Conserving, and Sustainable	<input type="radio"/>	<input checked="" type="radio"/>	

	Design Features			
Section B (For Projects that Occur Outdoors)		Yes	No	
18.	Threatened or Endangered Species, Critical Habitats, and/or other Protected Species	<input type="radio"/>	<input checked="" type="radio"/>	
19.	Wetlands	<input checked="" type="radio"/>	<input type="radio"/>	Research sampling of isolated areas will involve less than four square meters. Some sampling will require coring to depths of up to three meters or face cut sampling up to depths of one and one half meters. Most sampling will occur when the ground is frozen. Face cuts will be backfilled. No long term effects will result from the localized sampling of small areas.
20.	Floodplain	<input checked="" type="radio"/>	<input type="radio"/>	Some sampling will likely occur in floodplain areas. However, the localized small scale (less than four square meters) of the sampling protocols will not significantly alter the environment.
21.	Landscaping	<input type="radio"/>	<input checked="" type="radio"/>	
22.	Navigable Air Space	<input type="radio"/>	<input checked="" type="radio"/>	
23.	Clearing or Excavation	<input type="radio"/>	<input checked="" type="radio"/>	
24.	Archaeological Resources	<input type="radio"/>	<input checked="" type="radio"/>	
25.	Underground Injection	<input type="radio"/>	<input checked="" type="radio"/>	
26.	Underground Storage Tanks	<input type="radio"/>	<input checked="" type="radio"/>	
27.	Public Utilities or Services	<input type="radio"/>	<input checked="" type="radio"/>	
28.	Depletion of a Non-Renewable Resource	<input type="radio"/>	<input checked="" type="radio"/>	
Section C (For Projects Outside of ANL)		Yes	No	
29.	Prime, Unique, or Locally Important Farmland	<input type="radio"/>	<input checked="" type="radio"/>	
30.	Special Sources of Groundwater (such as sole source aquifer)	<input type="radio"/>	<input checked="" type="radio"/>	
31.	Coastal Zones	<input type="radio"/>	<input checked="" type="radio"/>	
32.	Areas with Special National Designations (such as National Forests, Parks, or Trails)	<input checked="" type="radio"/>	<input type="radio"/>	Some sampling may occur in national forests or national parks. Permission for sampling in these areas will be obtained from the proper authority (i.e., the U.S. Forest Service or U.S. National Park Service), or sampling will be in collaboration with research colleagues associated with these organizations, who already have permission for exactly the same kinds of standard sampling protocols that Argonne would use.
33.	Action of a State Agency in a State with NEPA-type Law	<input type="radio"/>	<input checked="" type="radio"/>	
34.	Class I Air Quality Control Region	<input type="radio"/>	<input checked="" type="radio"/>	

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: This field research can be excluded under the following category of Appendix B of Subpart D of 10 CFR Part 1021: B 3.8 Outdoor terrestrial ecological and environmental research		
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:

Comments

Add Approver

Approver Name	Approver Badge	Reason	Delete

Notifications

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

Badge	Name	Division	Delete
25154	Jastrow, Julie D.	EVS	
53150	Matamala Paradedda, Roser	EVS	
32474	Gaspar, William R.	HSE	
284298	Amacher, Jessica Anne	HSE	
47695	King, Felicia M.	CLS	

ASO-CX Number

ASO-CX- 354

Comments:

This NEPA ERF categorical exclusion (CX) is tracked as ASO-CX-354 Terrestrial Ecology-Field Research

Approval

<u>Approver</u>	<u>Action</u>	<u>Date Routed</u>	<u>Action Date</u>	<u>Approval Reason / Comments</u>	<u>Approval Type</u>
Rodi, Diane J.	APPROVED	2018-04-27	2018-04-27 11:26:11.0	Creator :	PRIMARY
Rodi, Diane J.	APPROVED	2018-04-27	2018-04-27 11:26:11.0	Allows access to the form :	PRIMARY
Rodi, Diane J.	APPROVED	2018-04-27	2018-04-27 11:26:11.0	Project Manager :	PRIMARY
Rodi, Diane J.	APPROVED	2018-04-27	2018-04-27 11:26:11.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2018-04-27	2018-05-03 09:27:31.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2018-05-03	2018-05-04 16:55:16.0	ANL-985 Review and Approval :	PRIMARY
Hellman, Karen B. for Stine, Gail Y.	APPROVED	2018-05-04	2018-05-04 16:58:28.0	ANL-985 Review and Approval :	DELEGATE

Lee, Alice J. for Kearns, Paul K.	APPROVED	2018-05-04	2018-05-14 16:08:40.0	ANL-985 ANL COO Review and Approval :	DELEGATE
Joshi, Kaushik N.	APPROVED	2018-05-14	2018-05-21 14:50:25.0	ANL-985 DOE-ASO Review and Approval : This ERF CX is tracked as ASO-CX-354	PRIMARY
Siebach, Peter R.	APPROVED	2018-05-21	2018-05-21 16:35:48.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY
