



**Environmental Review Form for Argonne
National Laboratory**

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Your Form ID:	ANL-985-845
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Date:	2/21/2017 1:44:51 PM
Created By:	Negri, Maria C.

Creator

Badge:	40330	Name:	Negri, Maria C.
Cost Center:	155	Division:	ES
Job Title:	Principal Agronomist/Environmental Engineer	Employee Type:	Regular Full-Time Exempt
Building:	362	Lab Extension:	2-9662

General Information

Project/Activity Title: Experimental Phytotechnology at the Koppers facility in Stickney, IL

ASO NEPA Tracking No.:	Type of Funding: SPP
B & R Code:	Identifying Number: P-17069
SPP Proposal Number: P-17069	CRADA Proposal Number:
Work Project Number:	ANL Accounting Number: (Item 3a in Field Work Proposal)
Other (explain):	

List appropriate NEPA Owners:
Division: ES NEPA Owner:

Cost Code

Task: Center: Project: Activity:

Description of Proposed Action

Koppers is currently leasing a property along the Illinois and Michigan Canal in Stickney, IL from the MWRD. This land, historically used since the early 1900s for industrial activities, has residual polycyclic aromatic hydrocarbons (PAH) contamination from past creosote manufacturing in shallow soil. Parts of this property are in use as a transfer facility (active railroad and barge terminals are on the property); however much of the area, approximately 2 hectares (Ha), is now being considered for additional remediation. Argonne will: 1. Conduct a site evaluation, in collaboration with Koppers' Corporate Engineering department, of environmental conditions such as depth and extent of contamination, main contaminants and their concentrations, hydrogeological conditions, soil quality and suitability for plant growth, analysis of existing vegetation and soil). This assessment will include the supplementation of existing data with ad-hoc sample collection and investigations as needed. Argonne will provide instructions regarding sampling methods and suggest analytical labs in case the capability is not available within the Koppers network. 2. Develop a deployment plan, and a planting and experimental plan in which several different plants will be planted based on previous research, environmental conditions, and adaptation to local climate. Argonne will recommend to Koppers several plant suppliers and oversee site planting by a contractor 3. Develop and submit a monitoring and maintenance plan for the first five years from planting; 4. Assist Koppers in the installation of the experimental planting and monitoring infrastructure Manage the installed system, guide the collection of samples and retrieve monitoring data per monitoring plan, periodically inspect the planting for troubleshooting and progress recording 5. Prepare a yearly report.

Description of Affected Environment

The research will be conducted on a piece of property alongside the Illinois Michigan Canal. The property, approximately 2 Ha, is owned by the Metropolitan Water Reclamation District of Greater Chicago and leased by Koppers. The area is an old industrial site with legacy contamination and a barge/rail terminal which serves the Koppers plant. The site is a brownfield and the MWRD is interested in Koppers entering in an experimental remediation study as part of their lease renewal agreements.

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 respective fields
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 type="radio"/>	<input checked="" type="radio"/>	
5.	Pesticide Use	<input type="radio"/>	<input checked="" type="radio"/>	
6.	Toxic Substances Control Act (TSCA) Substances			
6a.	Polychlorinated Biphenyls (PCBs)	<input checked="" type="radio"/>	<input type="radio"/>	PCBs and creosote components are part of the legacy soil contamination from Koppers and previous industries since the early 1900's
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 (FMS-SEP) 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 checked="" type="radio"/>	<input type="radio"/>	It is possible that ANL may collect soil samples, approx 2 lb each, which may be hazardous. All samples will be returned to Koppers for proper disposition after analysis.
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 type="radio"/>	<input checked="" type="radio"/>	
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 checked="" type="radio"/>	<input type="radio"/>	Our project is studying ways to degrade existing contaminants through microbial activity and plant root interactions.
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 type="radio"/>	<input checked="" type="radio"/>	
19.	Wetlands	<input type="radio"/>	<input checked="" type="radio"/>	
20.	Floodplain	<input type="radio"/>	<input checked="" type="radio"/>	
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 type="radio"/>	<input checked="" type="radio"/>	
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: DOE approves this ERF under the following category of 10 CFR, Part 1021, Subpart D, Appendix B: B 3.8 Outdoor terrestrial ecological and environmental research, and B 6.1 Cleanup actions		
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: work scope [View Attachment](#)

Comments

In this project Argonne will limit itself to field monitoring and recommending work at the site. Any site preparation will be the responsibility of Koppers and its contractors. Koppers will be responsible for their own NEPA documentation on their site as required by existing regulations.

Add Approver

Approver Name	Approver Badge	Reason	Delete
Brocker, William A.	49659	NEPA manager for EGS	
Harris, Amy M.	49490	ES ESH rep	

Notifications

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

Badge	Name	Division	Delete
49490	Harris, Amy M.	ES	
49659	Brocke, William A.	HSE	

ASO-CX Number

ASO-CX- 340

Comments:

This ERF CX approval is tracked and published as ASO-CX-340

Approval

<u>Approver</u>	<u>Action</u>	<u>Date Routed</u>	<u>Action Date</u>	<u>Approval Reason / Comments</u>	<u>Approval Type</u>
Negri, Maria C.	APPROVED	2017-02-27	2017-02-27 12:43:57.0	Creator :	PRIMARY
Negri, Maria C.	APPROVED	2017-02-27	2017-02-27 12:43:57.0	Allows access to the form :	PRIMARY
Negri, Maria C.	APPROVED	2017-02-27	2017-02-27 12:43:57.0	Project Manager :	PRIMARY
Brocke, William A.	APPROVED	2017-02-27	2017-02-28 13:21:46.0	NEPA manager for EGS :	PRIMARY
Harris, Amy M.	APPROVED	2017-02-27	2017-02-27 12:46:51.0	ES ESH rep : Amy's and Will's corrections addressed.	PRIMARY
Brocke, William A.	APPROVED	2017-02-28	2017-02-28 13:21:46.0	NEPA Owner Approval for Argonne Environmental Review :	PRIMARY
Ptak, Jill S.	APPROVED	2017-02-28	2017-03-03 13:52:55.0	ANL NEPA Reviewer :	PRIMARY
Hellman, Karen B.	APPROVED	2017-03-03	2017-03-09 09:39:07.0	ANL-985 Review and Approval :	PRIMARY
Stine, Gail Y.	APPROVED	2017-03-09	2017-03-13 09:08:03.0	ANL-985 Review and Approval :	PRIMARY
Lee, Alice J. for Kearns, Paul K.	APPROVED	2017-03-13	2017-03-13 09:17:31.0	ANL-985 ANL COO Review and Approval :	DELEGATE
Joshi, Kaushik N.	APPROVED	2017-03-13	2017-03-16 10:26:23.0	ANL-985 DOE-ASO Review and Approval : Tracked and published as ASO-CX-340	PRIMARY
Siebach, Peter R.	APPROVED	2017-03-16	2017-03-28 16:22:36.0	ANL-985 DOE NEPA Compliance Officer Review and Approval :	PRIMARY
