U. S. DEPARTMENT OF ENERGY OFFICE OF SCIENCE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "financial assistance award" organization receiving Federal funding. For assistance (including a point of contact), see "Instructions for Preparing SC F-560, Environmental Evaluation Notification Form".

Solicitation/Award No. (if		
applicable):		
Organization Lawrence Bo	erkeley National Laboratory (LBNL)	
Title of Proposed	Old Town Decontamination, Demolition, and Environmental Restoration	
Project/Research:	Recovery Act Project	ند
Total DOE Funding/Total Project	⁶ ~\$44M ¹⁷⁹⁷	
Funding:		

- I. Project Description (use additional pages as necessary):
 - A. Proposed Project/Action (delineate Federally funded/Non-Federally funded portions)
 The proposed action would include the decontamination and demolition of some buildings at the original site of the Lawrence Berkeley National Laboratory (LBNL), commonly referred to as "Old Town". Subsurface investigation would be carried out to identify any past releases of contamination underneath and within the vicinity of the buildings. Appropriate remedial actions would be used to remediate any newly identified sites. Depending on the level of funding, up to fourteen buildings (approx. 55,000 gsf) would be decontaminated and demolished, including Buildings: 4, 5, 7, 7C, 14, 16, 25A, 40, 41, 44, 44A, 44B, 52, and 52A.

Any soil contamination identified at these sites would be remediated to the levels identified in the DOE/EA-1527, Environmental Assessment and Corrective Measures Study for Remediating Contamination at Lawrence Berkeley National Laboratory Regulated under Resource Conservation and Recovery Act (EA/CMS). If any new groundwater contamination is identified, remedial measures would be implemented in accordance with the goals indentified in the EA/CMS.

The project work would take place over a 60 month period, beginning in 2010 and completing in 2014. Approximately 75-100 workers would be employed on-site during peak activity. The existing groundwater remediation, as approved by CAL/EPA Department of Toxic Substances Control (DTSC), will be continued during the project period in accordance with the EA/CMS.

This American Recovery and Reinvestment Act (Recovery Act) Project supports the mission of DOE and the Office of Environmental Management (EM) by 1) Completing decontamination and demolition (D&D) of facilities that provide no further value and reducing long-term liabilities, 2) Remediating radioactive and chemical sources of soil and groundwater, and 3) Reconfiguring/relocating/replacing systems impacted by D&D in a safe and cost effective manner that are required to support remaining site operations.

	LB-ER-09-6
SC NEPA	Tracking Number
Yes	No
	\square

B. Would the project proceed without Federal funding?

If "yes", describe the impact to the scope:

II. <u>Description of Affected Environment</u>:

Historical operations within the subject "Old Town" buildings included radiochemistry, radioactive and hazardous waste management, metal plating, and metal cleaning with chlorinated solvents and acid solutions. As a result, there is subsurface contamination in the site, which includes: volatile organic compounds (VOC) in the groundwater; and PCBs, VOCs, and possibly radioactivity in the soil. Building contamination in the site includes asbestos, lead, and PCB's, and low levels of radioactive contamination inside buildings 4, and 5.

LBNL's Old Town is in the "Research and Academic" Zone of the Lab, within the "Charter Hill" research cluster, and in the geographic center of the main hill site. Old Town, which was originally known as "Charter Hill," was the first area developed by LBNL. Many of the Old Town buildings were built in the 1940s and 1950s. Due to the age of these buildings, they do not provide effective space for LBNL's modern research needs, and they are not constructed to current fire, seismic, and other safety standards. A historical assessment conducted in 2003 found that these buildings are not eligible to be listed on the National Register of Historical Places pursuant to the National Historic Preservation Act, neither individually nor as a historic district.

DTSC issued a Hazardous Waste Facility Permit to LBNL in May 1993. As a part of the permit, DTSC required LBNL to follow the Resource Conservation and Recovery Act (RCRA) process to investigate and clean up all historical releases of hazardous chemicals. LBNL completed the investigation, determined the extent of soil and groundwater contamination and proposed remedial measures to DTSC. On August 31, 2005, DTSC approved the LBNL Corrective Measure Study Report (CMS) and Remedy Selection establishing the clean up standards for soil and groundwater. The accessible parts of the Old Town area were included in the RCRA process and the groundwater plumes in this area are covered by the CMS

The Old Town site is completely developed and contains no surface water or sensitive biological habitat. It is generally surrounded by other Lab buildings and Lab perimeter zones with steep slopes and vegetation. The Lawrence Hall of Science, a children's museum, is located approximately 800 feet to the north, although it is further separated by a steep elevation difference (approximately 150-feet higher than Old Town). A small (approx. one-quarter acre) landscaped area with grass and approximately 11 mature trees is in the southeast corner of the Old Town area; this area would remain unaffected by the proposed action.

III. Preliminary Questions:

Α.	Is the DOE-funded work entirely a "paper study"?	Yes	No
	If "Yes", ensure that the description in Section I reflects this and go directly to Section	ion V.	
B.	Will the work to be performed take place entirely in existing buildings or facilities?		\boxtimes
	And:		
	1. Threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health?		\boxtimes

			SC NI	LE EPA Tracking	B-ER-09-6
		2.	Require the siting, construction or major expansion of waste treatment, storage, or disposal facilities? If any new groundwater contamination is identified, remedial measures would be implemented in accordance with the		y ivamber
		3.	goals indentified in the EA/CMS. Disturb hazardous substances, pollutants, or contaminants preexisting in the environment? There is building and subsurface chemical contamination. In addition, the		
		4.	buildings also have radioactive contamination and the subsurface may have radioactive contamination. Adversely affect environmentally-sensitive resources identified in Section		
			IV.A.? See below.		
		5.	Be connected to another existing/proposed activity that could potentially create a cumulatively significant impact?		\boxtimes
		6.	Have an inherent <i>possibility</i> for high consequence impacts to human health or the environment (e.g., Biosafety Level 3-4 laboratories, activities involving high levels of radiation)?		
			o" to Question III.B. and ALL six subsequent questions, ensure the description I reflect this and go directly to Section V .	ıs in Seci	tions I
IV.	Pote	ential I	Environmental Effects:		
	Atta	ach/in	sert an explanation for each "Yes" response.		
•					
•	A.		tive Resources: Will the proposed action result in changes and/or disturbances to ving resources?	any of t	<u>he</u>
,	A.	follov	ving resources?	any of t	<u>he</u> No ⊠
	A.		Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and		
•	A.	follov 1.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and bat roosts in the area.		
,	A.	1. 2.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and		
	A.	1. 2. 3.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and bat roosts in the area. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Archaeological/Historic Resources A historical assessment conducted in 2003 and the California State Historic Preservation Officer concurred that these buildings are not eligible to be listed on the National Register of Historical Places pursuant to the National Historic Preservation Act, neither individually nor as a historic district.		
	A.	1. 2. 3. 4.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and bat roosts in the area. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Archaeological/Historic Resources A historical assessment conducted in 2003 and the California State Historic Preservation Officer concurred that these buildings are not eligible to be listed on the National Register of Historical Places pursuant to the National Historic Preservation Act, neither individually nor as a historic district. Important Farmland Non-Attainment Areas for Ambient Air Quality Standards. Bay Area Air Basin is in non-attainment for ozone and particulate matter. Bay Area Air Quality Management District best management practices for		
	A.	1. 2. 3. 4. 5. 6. 7.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and bat roosts in the area. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Archaeological/Historic Resources A historical assessment conducted in 2003 and the California State Historic Preservation Officer concurred that these buildings are not eligible to be listed on the National Register of Historical Places pursuant to the National Historic Preservation Act, neither individually nor as a historic district. Important Farmland Non-Attainment Areas for Ambient Air Quality Standards. Bay Area Air Basin is in non-attainment for ozone and particulate matter. Bay Area Air Quality Management District best management practices for dust suppression and air quality would be followed, along with LBNL 2006 LRDP EIR mitigation measures for construction and demolition. Class I Air Quality Control Region		
	A.	1. 2. 3. 4. 5. 6.	Threatened/Endangered Species and/or Critical Habitats Other Protected Species (e.g., Burros, Migratory Birds) Surveys would be performed, as appropriate, for the presence of raptors and bat roosts in the area. Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Archaeological/Historic Resources A historical assessment conducted in 2003 and the California State Historic Preservation Officer concurred that these buildings are not eligible to be listed on the National Register of Historical Places pursuant to the National Historic Preservation Act, neither individually nor as a historic district. Important Farmland Non-Attainment Areas for Ambient Air Quality Standards. Bay Area Air Basin is in non-attainment for ozone and particulate matter. Bay Area Air Quality Management District best management practices for dust suppression and air quality would be followed, along with LBNL 2006 LRDP EIR mitigation measures for construction and demolition.		

B. Regulated Substances/Activities: Will the proposed action involve any of the following regulated

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		Y es	No
13.	Natural Resource Damage Assessments		\boxtimes
14.	Exotic Organisms		\bowtie
15.	Noxious Weeds		\boxtimes
16.	Clearing or Excavation (Less than one acre. See Section II, above)		
	Buildings would be cleared and potentially contaminated soil removed and/or		
	remediated to institutional reuse levels. Entire project site is approximately		
	three acres.		
17.	Dredge or Fill (under Clean Water Act, Section 404, indicate if greater than		\boxtimes
	ten acres)		
18.	Noise (in excess of regulations)		\boxtimes
19.	Asbestos Removal	\boxtimes	
	Asbestos is known and/or expected in older Old Town buildings. Project		
	demolition activities would be undertaken in close coordination with Lab		
	EH&S to ensure that all requirements in 40 CFR 763 (Subpart G) and 40		
	CFR 61 (Subpart M) will be met, including asbestos removal certification.		
20.	PCB's	\boxtimes	
	PCBs are known and/or expected in older Old Town buildings. Prior to		
	project demolition activities, Lab EH&S would determine the location,		نود
	quantity, and concentration of PCB oil and prepare a disposal plan pursuant		
	to 40 CFR Part 761, the TSCA, and applicable state regulations.		
21.	Import, Manufacture, or Processing of Toxic Substances		\boxtimes
22.	Chemical Storage/Use		
23.	Pesticide Use		\boxtimes
24.	Hazardous, Toxic, or Criteria Pollutant Air Emissions	\boxtimes	
	Particulate matter / dust and diesel exhaust from demolition and construction		
	are expected. The Bay Area Air Quality Management District determines		
	that LBNL will not cause significant criteria pollutant impacts if it follows		
	applicable Air District mitigation measures and best management practices,		
	which are identified in the 2006 LRDP EIR.		
25.	Liquid Effluents	\boxtimes	
	Contaminated groundwater may be encountered. Dewatering is possible.		
	Any groundwater would be treated to applicable permit standards prior to		
	discharge.		
26.	Underground Injection	\boxtimes	
	As approved by the regulatory agencies, Any groundwater injected		
	underground for remediation purpose would be treated to nondetectable		+
	levels of contamination.	à	
27.	Hazardous Waste	\boxtimes	
	Some building material contamination may exceed hazardous waste		
	thresholds.		-
28.	Underground Storage Tanks		\bowtie
29.	Radioactive Mixed Waste	\boxtimes	
	It is possible that sediment from removed drain lines may contain low level		
	radioactive mixed waste. Such waste materials would be removed, treated,		
	and disposed of in appropriately licensed and permitted facilities.		
	Department of Energy Orders for the management of radioactive waste		
	would be followed for any radioactively-contaminated building materials and		
	soil.		
30.	Radioactive Waste	\bowtie	
	Low level radioactive contamination is expected in some buildings.		

		Department of Energy Orders for the management of radioactive waste would be followed for any radioactively-contaminated building materials and		, , , , ,
	2.1	soil.		
	31.	Radiation Exposure Radiation work would be performed and controlled in accordance with 10		\boxtimes
		CFR 835 to prevent radiation exposure		
	32.	Surface Water Protection	\bowtie	
	J Z .	Coverage under California's construction storm water permit would be		
		obtained from the State Water Resources Control Board and permit		
		conditions for storm water protection would be followed		
	33.	Pollution Prevention Act		\boxtimes
	34.	Ozone Depleting Substances		\boxtimes
	35.	Off-Road Vehicles		\boxtimes
	36.	Biosafety Level 3-4 Laboratory		\boxtimes
C.	<u>Other</u>	Relevant Information: Will the proposed action involve the following?		
	27	Detection Visited and Control of the	Yes	No
	37. 38.	Potential Violation of Environment, Safety, or Health Regulations/Permits		
	<i>3</i> 0.	Siting/Construction/Major Modification of Waste Recovery, or Waste Treatment, Storage, or Disposal Facilities.		
Majori A		If any new groundwater contamination is identified, remedial measures		.a*
		would be implemented in accordance with the goals indentified in the		
		EA/CMS.		
	39.	Disturbance of Pre-existing Contamination	\boxtimes	
		See above.	<u> </u>	
	40.	New or Modified Federal/State Permits	\boxtimes	
		A Notice of Intent will be submitted to the California Water Resources		
		Control Board to obtain coverage under California's construction storm water		
		permit and storm water protection measures. Soil boring permits/well		
		construction will be obtained from the City of Berkeley.		
	41	Public Controversy	\boxtimes	
		Truck trips to remove demolished material would follow LBNL protocols for		
		managing wastes and debris, including using approved routes and covering		
		all loads that contain radioactive or hazardous material where required.		
		Truck trips would be managed site wide to ensure aggregate trucks entering		
		and leaving the Lab would remain well below established significance thresholds.		
	42.	Environmental Justice	□	
	43.	Action/Involvement of Another Federal Agency (e.g. license, funding,		
	15.	approval)	<u>.</u>	
	44.	Action of a State Agency in a State with NEPA-type law.	\boxtimes	
		California Environmental Quality Act review would be conducted by the		
		University of California.		
	45.	Public Utilities/Services		\boxtimes
	46.	Depletion of a Non-Renewable Resource		$\overline{\boxtimes}$
	47.	Extraordinary Circumstances		$\overline{\boxtimes}$
	48.	Connected Actions		$\overline{\boxtimes}$
	49.	Exclusively Bench-top Research		\boxtimes
	50.	Only a Laboratory Setting		\boxtimes

V. Financial Assistance Award Organization Concurrence:

	A.	. Organization Official (Name and Title): Signature:		Jeff Philliber,	Planner	anner	
				/s/		Date:	9-28-09
		e- <u>JGPl</u> mail:	hilliber@lbl.gov		Phone:		
en	ıaina	ler to be comple	eted by SC				
I.	SC	Concurrence/R	decommendation/Dete	ermination:			
	A.	SC BSO Fede	eral Project Director:				
		Project Direct Contract Spec (Name and Ti	cialist	nt Patel, Federal	Project Director		
		Signature:		/s/		Date:	9/28/69
	В.	SC NEPA Te	am Review:				
		Is the project/ Organization Regulations?					
			Yes	\boxtimes	No 🗌		
		Specific class B1.27, B1.28, Additionally a Assessment a National Labo	the Environ n at Lawrenc	mental e Berkeley			
		Title:					11
		Signature: _		/s/		Date:	9/28/09
	Ç.	SC ISC Coun	sel (if necessary):				
		Name and Title:	,				
		Signature:				Date:	
	D.	SC ISC Field	Office NEPA Comp	liance Officer:			

The preceding pages are a record of documentation required under DOE Final NEPA Regulation, 10 CFR 1021.400.

propo	Action may be categorically excluded from further NEPA review. I have determined that the ed action meets the requirements for Categorical Exclusion referenced above.
	Action requires approval by Head of the Field Organization. Recommend preparation of an Environmental Assessment.
	Action requires approval by Head of the Field Organization or a Secretarial Officer. Recommend preparation of an Environmental Impact Statement.
Comn	ents/Limitations if necessary:
Print l	lame
Signa	Date: /s/ Dec NEPA Compliance