



Thomas Jefferson National Accelerator Facility

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**MEMORANDUM**

**To:** NEPA (National Environmental Policy Act) File  
**From:**   
Linda Even, EH&S Reporting  
**Subject:** **NEPA Activity Characterization CXA-2005-005**  
**Construction and Use of South Connector Road and Main Entrance Building**  
**Date:** June 24, 2005

This characterization is based on discussions with Christine Snetter and on drawings and specifications provided earlier. An Action Information Checklist (AIC) has been prepared for this action (which disturbs about 2 acres of land) and will result in moderate disturbance to the affected area. Erosion and sediment control (E&SC) concerns, especially in regard to applicability under the Commonwealth storm water discharge permit, have been taken into account in the project drawings and specifications.

To address permit conditions, which will aid in minimizing impacts, the Jefferson Lab Storm Water Pollution Prevention Plan (SWP3) will be updated to incorporate this project. The SWP3 will include the subcontractor's approved Environmental Protection Plan (EPP). The Lab will request the new permit to authorize storm water discharges from the construction site from the Virginia Department of Conservation and Recreation upon approval of the updated SWP3.

The AIC that describes the activity in detail, including NEPA areas of concern, is attached. Some project scope elements follow.

- Erosion and sediment control measures will be installed prior to the start of any work in the area
- Tree clearing and grubbing, and recycling as possible
- Construction of a connector road to link with two existing roads
- Construction of a 22' x 22' standard metal frame Main Entrance Building and an adjacent controlled access area
- Connection to associated utility systems to support the new building
- All disturbed areas, not to be paved, will be graded, tilled and seeded
- Use of the building for general administrative functions

There will be minor temporary effects to pedestrian traffic and noise during the work. There will be a major amount of increased storm water runoff due to removal of trees, use of impervious pavement over much of the area, and from general compacting of the rest of the construction site. Storm water runoff mitigation will be addressed locally by reseeding affected areas at the

completion of the job and then downstream by the use of the new retention pond that will soon serve this drainage area.

Based on the documentation provided by Facilities Management staff, and that E&SC measures will be installed and maintained as shown on the drawings and in accordance with the Commonwealth of Virginia Erosion and Sediment Control Handbook and the SWP3, and that seeding will be performed in disturbed areas, it appears that this project's environmental concerns are moderate and can be addressed under the following site NEPA documents:

<b>Applicable NEPA Document</b>	<b>Discussion</b>
DOE/EA-0257, Environmental Assessment (EA) for the Continuous Electron Beam Accelerator Facility, Newport News, Virginia	This EA covers the general functioning of Jefferson Lab to support its research mission.
DOE/EA-1384, EA for Proposed Improvements at the Thomas Jefferson National Accelerator Facility, Newport News, Virginia	This EA covers associated parking and access roads that would be related to the CEBAF Center Addition projects.
CEBAF-005-94, Siting, Construction, and Operation of Small-Scale Support Buildings and Structures	Small buildings to support site functioning is addressed in this categorical exclusion (CX).
TJNAF-014-00, Construction and Relocation of On-Site Pathways and Short On-Site Access Roads	This CX covers the construction of small roadways such as this short connector road.
CX-GEN-011, Categorical Exclusion for Maintenance Activities	This covers providing ongoing support to maintain such buildings.

The provided information, along with the noted NEPA documents, serves as the basis for the Jefferson Lab determination that the subject activities fall within existing site NEPA documentation and that no further NEPA review is required.

It is understood that all conditions identified in the above NEPA documents and the general notes listed below will be followed. A list of a few key conditions follows.

#### General Conditions

- Though one new permit for storm water discharges during construction will be obtained, other permitted site activities will not be affected so no other notification to Virginia agencies is necessary.
- There are no expected contaminated soil issues.
- There are no new waste storage or special disposal concerns.
- There will be moderate earth disturbance in the area which is adjacent to highly disturbed areas, thus no environmentally sensitive resources will be disturbed.

#### Construction and Use Notes

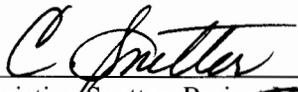
- There will be no disturbance to areas outside of the limits of construction.

- E&SC measures will be installed, maintained, and inspected as called out in the specifications and the SWP3 and maintained until the area is stabilized.
- Secondary containment will be provided for any storage of fuels or oils for construction equipment use.
- Any construction wastes generated will be temporarily stored within the limits of construction.

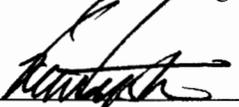
Condition Citations not addressed above

1. No straw bales should be used within a storm channel.
2. To ensure that sensitive resources are protected, contact EH&S staff upon identification of any unusual conditions or creatures.

**Acknowledged:**

  
 \_\_\_\_\_  
 Christine Snetter, Project Manager

7/1/05  
 Date

  
 \_\_\_\_\_  
 Keith Royston, Construction and Maintenance Manager

7/1/2005  
 Date

**Approved and Dated:**

  
 \_\_\_\_\_  
 Linda Even, EH&S Reporting Officer

7/1/05  
 Date

- cc: L. Even  
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 K. Royston  
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**NEPA BACKGROUND**  
**Proposed Action Information Checklist (AIC)**

**Proposed Action Title:**     **Construction of South Connector Road and Main Entrance Building**

**NEPA Action Manager:**             **Christine Snetter**

**NEPA Action Funding:**             GPP Funding

**Total Estimated Cost:**             \$480,000

**Estimated Activity Start Date:**     July 1, 2005

**Information Compiled by:**         Christine Snetter and Linda Even

**General Information:**

Are the described actions part of an ongoing EA or other NEPA activity?

**Yes**                    ~~No~~

Explanation: Basic site support buildings are addressed in the 1987 EA. The construction of the Main Entrance Building only is addressed in CEBAF-005-94, Siting, Construction, and Operation of Small-Scale Support Buildings. The Road has been addressed in TJNAF-14-00, Construction and Relocation of On-Site Pathways and Short On-Site Access Roads and indirectly in the 2002 EA.

Are any extraordinary circumstances related to these actions?

~~Yes~~                         **No**

Explanation: Taking care not to disturb existing building operations or traffic flow during construction. The subcontractor access point will be from Lawrence Drive.

Are actions connected to other actions with potentially significant impacts?

~~Yes~~                         **No**

Explanation: This project involves only the area noted on the drawings and operations and use will not cause any significant environmental impacts.

**Locations for the Proposed Actions:**

The South Connector Road will be located to the west of the CEBAF Center circle, which is directly to the south of CEBAF Center. The Road will connect Lawrence Drive, which parallels

Jefferson Avenue, to the CEBAF Center traffic circle. The Main Entrance Building is located about 200' to the southwest of CEBAF Center at the intersection of the planned South Connector Road and Lawrence Drive. The approximately 500 SF building will be accessed from Lawrence Drive. A total of about 2.0 acres of DOE property will be affected.

The construction site for the road and building is forested. The road site and a designated area at the building site will be cleared of trees (about 1.75 acres).

### **DESCRIPTION OF THE PROPOSED ACTION**

The proposed action is the setup, including placement of erosion and sediment control measures for the entire area to be disturbed (~ 2 acres), tree and brush clearing and grubbing, excavation for the South Connector Road and Main Entrance Building, stockpiling and disposal of earth, parking lot and road paving, and grading and seeding of any disturbed areas.

The project shall include widening the curb at the circle in front of CEBAF Center and relocating the bollards closer to the entrance of CEBAF Center. Landscaped plants in the construction area will be relocated and final seeding and landscaping activities will be performed under a separate subcontract. The utilities will be extended from an existing corridor and be adjacent and parallel to the new road.

There shall be one outgoing and two incoming lanes through the entrance gate at the Main Entrance Building on Lawrence Drive and the road section shall be designed to accommodate tractor-trailer delivery trucks moving at 25 mph or less.

The subcontractor will perform all the activities noted including processing of suitable removed trees into lumber or other wood products. The stumps will be removed and disposed of in a landfill. The excavated soil will be stockpiled and reused as much as possible on-site; otherwise, the soil will be hauled for disposal.

The project site drains to Brick Kiln Creek. There will be a moderate increase in storm water runoff at the completion of this project. The temporary impacts from increased runoff due to compacting during construction will be mitigated as the permanent seeding becomes established.

### **Activities**

The actions will affect both previously disturbed areas and areas that have not been recently disturbed.

#### **Area Preparation**

- Provision by subcontractor of an Environmental Protection Plan (EPP) that will be used by Jefferson Lab to finalize the project-specific Storm Water Pollution

Prevention Plan. The EPP will include the subcontractor's plan for addressing erosion and sediment control (E&SC), with most of the E&SC elements as shown on the construction drawings.

- The subcontractor will perform all necessary E&SC actions for this project per the State storm water permit that covers construction activity. These actions are to include the installation of E&SC structures, such as a construction entrance off of Lawrence Drive, prior to the construction that will remain in place until the area is stabilized. Landscaping, mulch, and seeding in any disturbed areas will be performed under another subcontract.

#### Clearing Activities

- Removal of trees and brush within limits shown on drawings.
- Temporary stockpiling of trees, brush, and soil. Burnoff is prohibited.

#### Construction

- Earth removal in all areas and stockpiling earth.
- Installation of any storm water appurtenances.
- Road and Building construction.

#### Disposal and Area Stabilization

- Disposal of trees, brush, and stumps at off site mills as possible or at other approved offsite disposal facilities.
- Restoring disturbed areas, including regrading upon completion of the removal/fill activities as required. Seeding will be done under a different subcontract.
- Removing non-earthen materials, including demolition and construction debris, to an off site disposal facility.
- Cleaning earth off of paved areas and repaving any areas broken during the action upon completion of the removal activity.
- Excess soil will be removed from the site and appropriately disposed.

#### **Environmental Protection and Energy Conservation Factors, including Waste Minimization and Pollution Prevention**

This action has only a few items that can be considered. Disturbance is to be limited to only the area needed for this project. Proper use of E&SC measures will limit impacts to surface storm water flows. Providing an option to the subcontractor to deliver trees to local mills will reduce our waste and its effect on local landfills.

Jefferson Lab is using an Integrated Sustainable Design approach to design the building. Specific areas of emphasis include:

1. Energy Efficiency – The design shall strive to meet Energy Star criteria for energy performance and indoor environmental quality.
2. Water Conservation
3. Environmentally Preferred Products (EPP)
  - a. No material or building components that were manufactured with ozone-depleting compounds, including CFCs and HCFCs.
  - b. No material or building components that were manufactured with, or that contain Polyvinyl Chloride (PVC) or other chlorine-based compounds, excluding utilities.
  - c. No materials that contain Volatile Organic Compounds (VOC). In the cases such as roof assemblies and paints where zero VOC content is not available, low VOC materials will be acceptable; but low VOC content must be specified.
  - d. Use only dimensional wood and wood products certified as originating in certified well-managed forest, as identified by the Forest Stewardship Council (FSC).

**JUSTIFICATION AND NEED FOR THE PROPOSED ACTION/PROJECT**

**What problem is this action intended to solve, and how will this action solve it?**

New construction activities planned for this site will provide a single point of controlled access onto the Jefferson Lab site. In addition, it will provide a more secured way of monitoring employees, visitors and deliveries entering and leaving the site. Also, having a centralized building will enable visitors to be announced prior to entering site buildings.

*Were there any Alternate Technologies? - No.*

*Were there other Alternate Solutions? - No.*

*Were alternative sites for this project considered? If so, why were they rejected?*

The other alternatives considered are noted below.

- 1) Doing nothing – Rejected: This is one step to facilitate having a single controlled access path onto the site.
- 2) Alternative location – Rejected: Another location would have caused a traffic problem onto a major adjacent artery; therefore the most suitable (from an engineering perspective) spot was found.

What would be the consequence(s) of taking NO ACTION toward the problem?

The options to restrict access to the Jefferson Lab site for security purposes would remain limited.

**DESCRIPTION OF THE AFFECTED ENVIRONMENT**

**Would any part of this activity involve work outside existing buildings? YES**

A total of about 2 acres of land (pine-oak forest with some undergrowth) will be disturbed for this project. Other affected areas are maintained grassed areas and the paved areas that the new road will connect.

Although there will be temporary and permanent negative effects from the construction activity and long term usage, the new building and road will improve traffic flow and security on the Jefferson Lab site.

There are no known concerns with the environmental status of the area to be disturbed.

**POTENTIAL ENVIRONMENTAL EFFECTS CHECKLIST**

*[Consider all activities that will be part of or necessary in support of this project. Include any work to be performed by subcontractors.]*

**1. ACTIVITY: The primary and related activities for this project would be:**

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Indoor Bench-Scale Research	
	X		Indoor Pilot-Scale Research	
	X		Outdoor Research	
	X		Technology Development	
	X		Technology Demonstration	
	X		Chemical/Physical Analysis	
x			Maintenance / Modification	Reseeding disturbed and new areas.
	X		Fabrication	
	X		Production	
x			Routine Operation	Building operations.
	X		Nonroutine Operation	
	X		Renovation Indoors	
X			New Construction	
X			Transportation On-site	
X			Transportation Offsite	
X			Clearing / Removal of Vegetation	Throughout most of the construction area.
	X		Other	

**2. Industrial Safety: Would activities (during construction or during building operations) involve any of the following:**

Yes                      No                      Uncertain  
 Explain:                Standard construction activities.

Yes	No	Unc	ACTIVITY	EXPLANATION
X			Excavation/Trenching/ Clearing [indicate total area affected]	About 2 acres
x			Utilities Lockout/ Tagout	
		x	Crane Operations	
x			Welding / Cutting	As required for building construction
x			Tree and Brush Cutting	
	x		Confined Space Entry	
x			Blocking of Roads	As required for new road construction and existing road expansion.
x			Use of Scaffolds	
x			Use of Fall Protection	
	x		Use of Explosives	
	x		Use of Corrosives	
	x		Use of Incompatible Chemicals	
	x		Use of Compressed Gas Cylinders	
	x		High Operating Pressures	
	x		X-Rays	
	x		Radiation Protection	
			Other	

**3. INDUSTRIAL HYGIENE PROTECTION:**

Yes

No

Uncertain

*Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
x			High Noise Level	
	x		Extreme Temperature	
	x		Non-ionizing Radiation	
	x		Ionizing Radiation [refer to #10]	
x			Ergonomic Situations	
x			Respirator or Other Air Purifying Device	Sawdust
	x		Anti-contamination Protective Clothes	
	x		Confined Space	
x			Sanitation	
	x		Other	

**4. RESPIRATORY PROTECTION:**

Yes

No

Uncertain

*Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Abrasive Blasting	
	x		Acid or Alkali Cleaning of Metals	
	x		Degreasing	
	x		Decontamination	
x			Use of Coolant and Cutting Fluids	Saws and equipment
x			Welding, Cutting, or Brazing	
	x		Grinding, Polishing, or Buffing	
	x		Metal Thermal Spraying	
x			Painting	
	x		Electroplating	
	x		Heat Treatment of Metal Alloys	
	x		Boiler Deslagging	
	x		Furnaces	
	x		Hoods	
x			Respirator or Other Air Purifying Devices	Dust
	x		Other, including work with radioactive materials	

**5. MATERIALS: Would any of the following be encountered (E), handled (H), stored (S), used (U) or disposed (D) during any phase of the project?**

Yes	No	Unc	ACTIVITY	Other Info.	Est. On-hand Qty.	Est. normal usage or on-hand Qty
	x		Fissionable Materials			
	x		Radioactive Materials			
x			Hazardous Materials	Normal materials used for such activities H, S, U	Small quantities only	
	x		Mixed Materials (Haz & Rad)			
	x		Toxic Materials			
	x		PCBs			
x			Oils	Cutting equipment and vehicles H, S, U	Small quantities only	
	x		Asbestos			

	x		Fibrous Insulation			
	x		Organic Chemicals			
	x		Heavy Metals			
	x		Compressed Gases			
x			Pesticides / Herbicides	Termite Control		
x			Petroleum	For equipment H, S, U		
		x	Other			

**6. EQUIPMENT:** Would any of the following types of oil-containing equipment be used during any phase of the project?

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Transformers	
	x		Capacitors	
	x		Hydraulic Presses	
	x		Other Hydraulic Equipment	
	x		Large Light Ballasts	
	x		Vacuum Pumps	
x			Other	Construction equipment containing oil

**7. LIQUID WASTES:** Would the project involve disposal or discharge of liquid wastes into any of the following collection and/or treatment systems? What and how much?

Yes	No	Unc	ACTIVITY	EXPLANATION
x			Sanitary Wastewater	
	X		Low-Level Rad Waste	
	X		Process Waste	
	X		Other Liquid Waste, e.g. sump discharges	
	X		Discharge to Soil	
x			Storm Sewer / Surface Water	
			Other	

**8. SINKS/DRAINS:** Would any of the following be present in the project area? What and how much? *Not applicable*

**9. SOLID WASTES: Would solid wastes be generated (G), stored (S), or disposed (D) of as a result of this project? What, how much, and characteristics, if known?**

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Asbestos	
	x		Radioactive	
	x		RCRA Hazardous	
	x		Mixed	
x			Non-hazardous	Standard debris
	x		Radioactively Contaminated Wipes	
	x		Contaminated Wipes	
	x		Biohazard Wastes	
		x	Oily Wastes	
x			Other	Construction debris, nothing harmful

**10. AIRBORNE EMISSIONS: Would the project generate airborne emissions?**

Yes	No	Unc	ACTIVITY	EXPLANATION
	X		Radioactive	
	X		Hazardous or Toxic	
	X		Mixed	
x			Other	Construction dust.

**11. POLLUTION PREVENTION (P2): Would any of the following waste minimization & P2 methods be applicable and considered for use for the proposed project?**

Yes	No	Unc	ACTIVITY (Accel. & Physics Div practices)	EXPLANATION
x			P2 Practices	E&SC
	X		Waste Volume Reduction	
	X		Waste Toxicity Reduction	
	X		Waste Segregation	
	X		Equipment Reuse	
x			Materials Recycling	Trees
	X		Product/ Materials Substitution	
	X		Inventory Control	

x			Energy Conservation	Install energy efficient lighting
		x	Other	

**12. OUTDOOR STORAGE: Would the project utilize tank, drum, bottle or other storage of any materials?**

Yes                      No                      Uncertain                      *Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Radioactive	
	x		Hazardous or Toxic	
	x		Mixed	
	x		Flammable Materials	
	x		Reactive Materials	
	x		Corrosive Materials	
	x		Explosive Materials	
	x		Shelf Chemicals	
	x		Old Chemicals	
	x		Oil	
	x		Pesticides / Herbicides	
	x		Petroleum	Subcontractor may keep diesel tank within construction limit and is required to provide secondary containment.
			Other	

**13. CHEMICAL USE: Will this project result in the storage and/or use of chemicals in the workplace, either in the construction or operation phase?**

Yes                      No                      Uncertain                      *Not Applicable*

Explanation: Storage of chemicals. Nothing unusual.

Activity	Chemical & Quantity	Storage Method
Standard Cleaning Products	Not Known	Appropriate

**14. ACCUMULATION, TREATMENT, OR RECYCLE AREAS: Would the project involve any of the following? Describe and quantify.**

Yes                      No                      Uncertain                      *Not Applicable*

**Explain:** There may be a temporary subcontractor recycling area for aluminum cans, bottles, and scrap metal.

15. **BELOW GROUND STORAGE:** *Not Applicable*

16. **RADIOLOGICAL AREAS:** *Not Applicable*

17. **RADIATION PROTECTION CONTROLS:** *Not Applicable*

18. **RADIATION SOURCES:** *Not Applicable*

19. **OPERATIONAL READINESS:** Would the activity involve one or more of the following?

Yes                      No                      Uncertain                      *Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
x			Safety Review	
	x		Safety Class Items	
	x		Items under Configuration Control	
	x		Glove Boxes	
	x		Other	

20. **UNCONTROLLED RELEASES:** Would measures be in place to manage possible uncontrolled emissions, discharge, or spills during any phase of the project?

Yes                      No                      Uncertain

Explain: Secondary containment, construction contractor means and measures plan, and erosion control measures (by Jefferson Lab as identified required) are to be used.

21. **EMERGENCY RESPONSE:** In the event of a release, would the following be readily available in the work area?

Yes	No	Unc	ACTIVITY	EXPLANATION
x			MSDS Information	
x			Spill Control and Containment Materials	
x			Phone Numbers	
x			Portable Fire Extinguishers	
x			Warning Signs	
		x	Other	

**22. PERMITTING: Would the project/activity require application for or modification of any of the following permits?**

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Excavation / Penetration	
	x		Burning Permit	
	x		Radiation Work Permit	
x			Safety Work Procedure	Address hazards that could be applicable in the vicinity of the construction work.
	x		Air Permit	
	x		Fugitive Emissions Permit	
	x		Existing VPDES Permit	
	x		Permit for Groundwater Dewatering at End Stations	
	x		RCRA	
	x		Corps of Engineers	
	X		NESHAPs	
x			Stormwater Management	Requirements under VAR040079 regarding training to prevent pollution of storm water.
x			Stormwater During Construction Activities	Subcontractor to address storm water through contract-required environmental protection plan, which will be included in the Appendix to Lab SWP3.
	X		Other	

**23. GROUNDWATER PROTECTION: Does the proposed project have any of the following existing or planned features or conditions? Will this project result in any activation of soil or groundwater?**

Yes                      No                      Uncertain                      *Not Applicable*

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		Existing Wells or Boreholes	
	x		Existing Contaminated Groundwater	
x			Excavations requiring Dewatering during Construction	Removal of earth for road and building construction / development
	x		Devices that could alter Groundwater Levels	

<input checked="" type="checkbox"/>		New Monitoring Wells
<input checked="" type="checkbox"/>		New Soil Borings
<input type="checkbox"/>		Other

**24. PLANT/ANIMAL SPECIES: Has the project area been surveyed for plants (or habitats of plants) or animals (or habitats) listed as follows?**

**Yes**                      **No**                      **Uncertain**                      *Not Applicable*  
 Explain:                      Included with 1987 and 2002 EAs. No expected impacts to plant/animals expected with this project. Applicable state and federal agencies will be notified through the EA review process.

Yes	No	Unc	ACTIVITY	EXPLANATION
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Endangered	Potential exists but no conditions of environmental concern seem to exist in the affected area.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Threatened	"
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Of Special Concern	"
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other	

**25. AQUATIC SPECIES: Have waters in the project area been surveyed for aquatic species listed as follows?**

**Yes**                      ~~No~~                      **Uncertain**                      *Not Applicable*  
 Explain:                      Local conditions were reviewed for the 2002 EA. No aquatic species of any concern have been identified on-site. This area does have species, but will verify that there is nothing worth reporting to the agencies.

**26. HISTORICAL/ARCHEOLOGICAL: Has the proposed site been surveyed for objects of historical/archeological significance?**

**Yes**                      ~~No~~                      **Uncertain**                      *Not Applicable*  
 Explain:                      Included with 1987 and 2002 EAs. No concerns were documented by applicable state and federal agencies. The new EA will be provided to applicable agencies during the EA review process.

**27. FLOODPLAIN: Would the project encroach upon or take place within any of the following areas?**

**Yes**                      **No**                      **Uncertain**                      *Not Applicable*  
 Explain:                      This work does not occur in a 100-year floodplain. The actions will have a small impact on storm water management in that rainfall will no longer be buffered by the surrounding tree cover and will immediately runoff at the impervious areas.

Yes	No	Unc	ACTIVITY	EXPLANATION
	x		100-year Floodplain	Zone C Only
	x		Creek / Stream	
x			Chesapeake Bay Preservation Act	The site is on a local floodplain map but is not located in any specially designated areas under the CBPA. However, do have to follow the CBPA requirements as it is on federal property.
x			Storm Channel	
x			Other	Site has general flooding during large storms. Will be addressed in the storm water permit in item #22.

**28. WETLANDS: Are the following conditions present at any proposed site?**

*Note: Wetlands are not limited to standing water. Areas such as low forest, sedge meadows and stream banks may qualify.*

**Yes** \_\_\_\_\_ **No**                      **Uncertain**                      *Not Applicable, per 2001 Review.*

**29. SITE UTILIZATION: Would the proposed project take place in any of the following?**

Yes	No	Unc	ACTIVITY	EXPLANATION
X			Developed Site(s)	At existing road interfaces.
X			Disturbed Site(s)	Part of the construction/excavation site is previously disturbed.
X			Undeveloped Site(s)	Treed areas have not been disturbed recently / previously.
	x		Pristine Area(s)	
			Other	

**30. EXCAVATION ACTIVITY: If the project will require any construction activity involving excavation or soil disturbance, estimate the:**

**Area to be affected:** Total of approximately 2.0 acres

**Volume of spoils:** Approximately 10,000 Cu. Yards of soil

**Expected disposition of spoils:** Excess earth and trees will be taken off site and recycled as possible. Any other construction debris is to be disposed of off site.

**What control measures will be used to avoid soil erosion? How far away are the nearest surface water bodies or drainage channels (including potential wetlands)?**

DOE/Jefferson Lab have acquired a General Permit involving storm water management during construction activities that will be applicable for this project. For this work, Jefferson Lab is updating the site Storm Water Pollution Prevention Plan. The project-specific appendix to this plan will be prepared by Jefferson Lab, and will include the subcontractor-provided Environmental Protection Plan (EPP). The EPP will identify the subcontractor's plan to control erosion and sediment from the job site and will include all the measures identified in the subcontract specifications and/or on the drawings.

The subcontractor will furnish the EPP for Lab review and approval according to the terms of the subcontract. The program is also identified in Jefferson Lab's EH&S Manual Appendix 6733-T2. The installation of devices will be in place prior to the start of any land disturbance and maintained throughout the course of the job.

The project will not disturb any land that isn't within the limits of construction. The project may make temporary use of adjacent paved or gravel areas.

This has been completed by Facilities Management to the best knowledge of the project scope. If conditions or project scope change or changes become evident, updated information will be provided to EH&S Reporting.