

**MEMORANDUM**

**To:** NEPA (National Environmental Policy Act) File  
**From:** Linda Even, ESH&Q Division  
**Subject:** NEPA Activity Characterization CXA-2009-003  
**Erosion Control Improvements on Accelerator Site**  
**Date:** March 12, 2009

This characterization is based on discussions with Ed Winslow, and on the attached site map and supporting information included. All actions will take place in an area that has been previously disturbed.

**Project Description:** Regrade south bank of storm channel located on south side of CEBAF Boulevard across from MCC to a more easily maintained slope, augment regraded soils with mulch and amendments required to promote healthy growth and cover disturbed areas with new sod.

**Benefits:** This area has never supported ground cover growth well and as a result has eroded causing degradation of storm-water runoff. This project will establish maintainable ground cover in the area and prevent further erosion. A total of about 2400 square feet will be disturbed and then improved under this subcontract. If the project proves successful we may use similar techniques to correct similar problems at other locations along this channel.

As the work disturbs less than 2,500 SF and is in a developed area, it was determined an Activity Information Checklist is not necessary.

There will be a minor temporary impact to the environment during construction and improvements at completion due to minimizing erosion at this section of storm channel. No negative impacts from flow or from sediments to the downstream retention pond will occur.

The scheduled activity will take under one month to complete and about a year to assess the erosion control improvements. Some scope elements involving NEPA concerns follow.

- Subcontractor is to install Erosion and sediment control (E&SC) measures according to the Virginia Erosion and Sediment Control Handbook. Identified measures will be in place prior to any disturbance and maintained per project specifications.
- Jefferson Lab to assume role of inspection of E&SC measures if the area affected is  $\geq 2500$  SF.
- Excavated earth materials and will be blended with existing surface materials and regraded and topped with sod.
- Any other disturbed areas will be graded, tilled and seeded as described in the project scope.

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There will be no increased storm water runoff and no loss of habitat due to this project so no such mitigations are necessary. There will only be minor short term effects to pedestrian traffic, road traffic, and noise during the work. There are, therefore, minimal short term environmental concerns with this activity, and expected long-term positive environmental improvements.

Environmental aspects associated with the project follow.

Construction – spills (potential oil leaks/petroleum spills from vehicles) – ES&H Manual Chapter 6732, Oil Spill Prevention, Control, and Countermeasures. The subcontract includes controls necessary to mitigate potential impacts; and Use - no aspects identified.

General – *Appendix EPS 33 R1 Jefferson Lab Best Management Practices and Measurable Goals - MCM 4 - Construction site storm water runoff control* - For all earth disturbing activities, ensure that E&SC identified by the SOTR are installed as directed.

Based on the documentation provided by Facilities Management and Logistics staff, and that E&SC measures will be installed and maintained by the subcontractor at locations noted and that the resultant disturbed conditions are temporary and will be mitigated as identified by ESH&Q and Facilities Management and Logistics at the termination of the job, it appears that the environmental concerns due to this project are minor and can be addressed under the following site NEPA documents:

Jefferson Lab NEPA Documentation	Discussion
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.
CX-GEN-006, Dike Construction, and Modification, new secondary containment ...	This CX covers such improvements to minimize environmental impacts.

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

- There will be no other effect on permitted site activities.
- There are no expected contaminated soil issues.
- There will be minor earth disturbance in a highly disturbed area, and there are no expected environmentally sensitive resources in the area. If a sensitive resource is identified, immediate notifications to JSA will be made.

### Construction and Use Notes

- Traffic in the vicinity will be controlled and restricted as identified necessary by the SOTR.
- There will be no disturbance to areas outside of the limits of construction.

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- E&SC measures to be installed and maintained by the subcontractor per the Virginia Erosion & Sediment Control Handbook, or as otherwise identified wherever the soil is disturbed. E&SC Measures to be maintained until the project is completed.
- Secondary containment will be provided for any storage of fuels or oils for construction equipment use.
- Any construction wastes generated will be temporarily stored per SOTR.

### Condition Citations not addressed above

- To ensure that sensitive resources are protected, contact ESH&Q staff upon identification of any unusual conditions or creatures.

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

### Acknowledged:



Ed Winslow, Project Engineer

3/13/09  
Date



Suresh Chandra, Facility Maintenance and Construction Manager

3/13/09  
Date

### Approved and Dated:



Linda Even, Environmental Engineer

3/20/09

Date

Attached: Site drawing with E&SC measures noted.

Signed copy to be filed as CXA-2009-003 at <http://www.jlab.org/ehs/NEPA/>

cc:

Suresh Chandra

Mary Logue

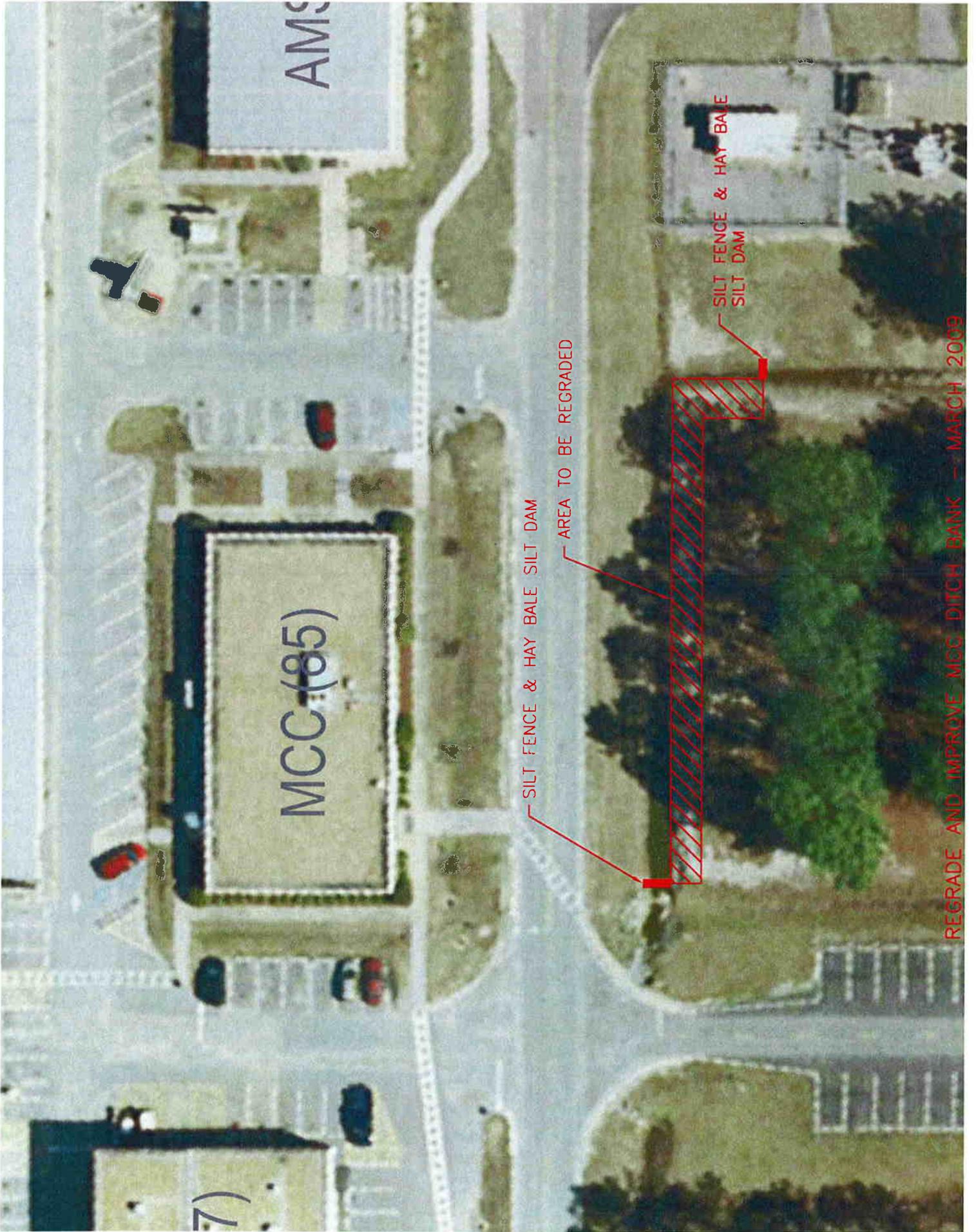
Bob May

Rusty Sprouse

Ed Winslow

Patty Hunt, DOE Site Office

doelog



AMS

MCC (85)

SILT FENCE & HAY BALE SILT DAM

AREA TO BE REGRADED

SILT FENCE & HAY BALE  
SILT DAM

REGRADE AND IMPROVE MCC DITCH BANK - MARCH 2009