

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1

5 Post Office Square, Suite 100
Boston, MA 02109-3912

Superfund Records Center

SITE: Centredale

BREAK: 3-1

OTHER: 492986

Memorandum

Date: April 27, 2010

Subject: Post-flood Inspection of April, 15, 2010

To: Memo to CMRP Site File

From:  OSC Ted Bazen, US EPA Region 1

On April 15, 2010 OSC Ted Bazen met with David Scotti and Jeff Loureiro of LEA, Inc. at the Centredale Manor Restoration Project Site in North Providence, RI to observe, document and evaluate areas of erosion that were caused by the flooding event that had occurred on March 30, 2010 following very heavy rainfall. Photographs from LEA taken on March 30 documented that the Woonasquatucket River had overflowed its eastern bank near the southern end of the Brook Village parking lots. River water flowed down gradient, through a new cedar fence, over the clean backfill and topsoil that had been placed in the fall. The water then flowed toward the main driveway and across the northern Centredale Manor parking area before entering the standing water in the tailrace.



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Some erosion occurred on the steepest gradients where water velocity was highest. Several fence posts washed out, causing three sections of new fence on the riverbank to collapse. This was likely caused by the turbulent flow of water around the posts, causing the soil to erode. Although some excavation had occurred in this area last fall, erosion did not penetrate the geosynthetic fabric that was placed over clean fill in this area.



Swiftly moving water did erode the base materials for the parking lot pavement in several areas, but again did not impact underlying fill materials. Concerns that the earthen cap #'s 1,2,3,4 had been compromised by the water and current were unfounded. Visual inspection showed that although the river water had flowed near the caps, no evidence of erosion or other impact were seen. No contaminated soils were eroded, released, or otherwise impacted by the flood waters.



Some sedimentation did occur on the main driveway. The deposited materials were fairly coarse grained and resembled the clean backfill used to regrade the parking lot following excavation last fall.



The tailrace outfall and drainage channel did not appear to be significantly impacted by the floodwaters. Some stone on the steepest slope had slumped in a few areas, exposing the anchoring web system, but no erosion occurred. The drainage channel is overgrown with vegetation and should be cleared. Although there was evidence that the water had risen to several feet deep, the gravel in the channel did not appear to be disturbed.



One other section of fence was disturbed near the riverbank at the Centredale Manor parking lot. This was an older section of fencing and likely required replacement regardless of the flood impact.

