



## Site Inspection Report

**To:** Lancaster Conservation Commission and Lancaster Planning Board

**From:** Bob Hartzel, Comprehensive Environmental Inc. (CEI)

**Re:** 90 Duval Road

**Date:** November 19, 2021

CEI conducted an inspection of ongoing site stabilization activities at 90 Duval Road (the Site) on November 12, 2021. Jeff Vaine of U-Haul and Michael Scott of Land Design Collaborative accompanied Bob Hartzel of CEI during the site inspection. It was sunny at the time of the site inspection, with rainfall during the preceding night and early morning.

CEI's observations with regard to progress and the condition of stabilization practices and site areas are as follows:

- **Erosion Control Blanket:** As shown in Photo 1, significant progress has been made over the past week with installation of erosion control blanket (ECB) in the western portion of the site. ECB has now been installed over most of the area to the west of the stormwater basin area that is being actively worked. CEI noted some relatively small areas where ECB has been installed that had uneven grading and poor soil contact. Mr. Vaine stated that these areas would be re-worked to ensure proper ground contact.
- **Temporary Haul Road:** As shown in Photo 2, a temporary haul road is in place between the area stabilized with ECB and the area of ongoing work in the vicinity of the stormwater basin. Mr. Vaine stated that this area would be graded, seeded, and stabilized with ECB after the haul road is no longer needed.
- **Soil Stockpiles:** As noted in the site inspection report from last week (11/12/2021) several loam stockpiles remain unstabilized (see Photo 3), Mr. Vaine stated that this loam will continue to be used over the next week for ongoing final construction/grading of the sediment basin area.
- **Temporary Sediment Basin:** The rough-graded temporary stormwater basin was observed holding water from the rainfall event during the preceding evening and early morning hours (Photo 4). The basin appeared to be performing as expected for this stage of construction and there was no indication that its confining berms had been compromised or overtopped by stormwater.
- **Silt Fence with Straw Bale:** Perimeter control silt fencing with straw bales were in good condition at the time of inspection. As shown in Photo 5, an additional row of straw bales has been properly installed on the downslope side of the silt fence within the interior of the site.
- **Removal of Earthen Berm/Stumps:** The 11/12/2021 inspection report noted that a berm of earthen material and stumps on the eastern side of the sediment basin was creating a temporary flow path towards wetland flag W20. As shown in Photo 6, there has been significant progress in removing this berm so that water from the stormwater basin can eventually discharge to its intended outlet. Photo 7 shows the temporary stockpile location of the stumps.
- **Unstabilized Area:** As shown in Photo 9, an unstabilized area along the northern boundary of the site is actively eroding, with an observed buildup of sediment that is being confined by an ungraded

earthen berm on its northeastern end. Although this area does not appear to pose an immediate risk of off-site discharge of sediment to wetlands (due to the berm), CEI recommends that it should be stabilized as soon as is feasible. Mr. Vaine stated that temporary stabilization by equipment tracking/terracing was not feasible in this location due to the presence of stumps and that this area would be graded and stabilized within a 2-week period.





**Photo 1:** ECB has now been installed over most of the area to the west of the stormwater basin.



**Photo 2:** A temporary haul road is in place between the area stabilized with ECB and the area of ongoing work in the vicinity of the stormwater basin.





**Photo 3:** Several loam stockpiles remain unstabilized. Mr. Vaine stated that this loam will be actively used over the next week for ongoing final construction/grading of the sediment basin area.



**Photo 4:** The rough-graded temporary stormwater basin was holding water from recent rainfall. The basin appeared to performing as expected, with no indication that its perimeter berms had been compromised or overtopped.





**Photo 5:** A row of straw bales has been properly installed on the downslope side of the silt fence within the interior of the site. Silt fence/straw bales along the downgradient (eastern) limit of disturbance were in good condition



**Photo 6:** To the east of the stormwater basin, there has been significant progress in removing the berm of earthen material and stumps so that water from the basin can flow to its intended outlet.





**Photo 7:** View of temporary stockpile of stumps from eastern perimeter of the site.



**Photo 8:** An unstabilized area at the northern site perimeter is eroding, with sediment buildup confined by an ungraded berm. Mr. Vaine stated that this area would be graded and stabilized within 2-weeks.