

9 LINER DESIGN

As required by 252:515-11-2(a), waste disposal areas of new C&D landfills and expansions of waste disposal areas of existing C&D landfills are required, at a minimum, to be constructed with either a reconstructed clay liner meeting the requirements of Part 3 of OAC 252:515-11 or an in-situ liner meeting the requirements of Part 9 OAC 252:515-11. This section outlines the liner system proposed by the Creek County Landfill for this Tier III Permit Application.

9.1 252:515-11-3 Separation from Groundwater

OAC 252:515-11-3 requires C&D landfills utilizing an in-situ liner to be designed to maintain a minimum 15-foot vertical separation between the highest groundwater elevation and the lowermost surface on which waste will be placed. If a clay liner is used, the top of the clay liner is to be designed to maintain more than a five foot vertical separation between the highest groundwater elevation and the lowermost surface on which waste will be placed. The Creek County Expansion proposes to utilize in-situ liners. The base of the expansion area is the lowermost surface on which waste will be deposited and is designed to be at least 15 feet above the highest groundwater elevation as demonstrated on Drawing No. 5B in Appendix D.

9.2 252:515-11-4(a) Quality Assurance/Quality Control (QA/QC) Plan

As required by 252:515-11-4(a), a Quality Assurance/Quality Control (QA/QC) Plan is required to demonstrate that the liner system will be constructed in accordance with the design as outlined in this Section. See Appendix H for the QA/QC Plan.

9.3 252:515-11-4(a)(1) QA/QC Plan Technical Information

The QA/QC Plan in Appendix H complies with 252:515-11-4.

9.4 252:515-11-5 Notification of Construction

As required by 252:515-11-5, the ODEQ will be notified at least two (2) weeks in advance of any liner construction that will be completed at the Creek County Landfill.

9.5 252:515-11-6 Liner Installation and Testing (LIT) Report

A Liner Installation and Testing (LIT) Report will be submitted to the ODEQ at the end of any cell construction to document that the liner system was installed in accordance with ODEQ requirements. The LIT Report will contain, at a minimum, the following:

- Summaries of all construction activities;