

## **Information for geomembrane repairs at the City of Kimball Landfill, Kimball NE**

The Kimball landfill had a perimeter fence installed around a closed portion of the landfill and the fencing contractor drove some of the fence posts through the cover geomembrane.

- There are approximately 20 holes in the geomembrane cover from fence posts that need to be repaired (example photos of the damaged liner are provided below).
- The cover soil is 12" to 18" thick where the repairs need to be made. The site has excavated holes to expose the damaged liner. The excavated holes are approximately 3 feet in diameter.
- The cover geomembrane is AGRU America 40-mil single-sided linear low density polyethylene (LLDPE) geomembrane. Repair contractor can supply any 40-mil LLDPE material to make the repairs.
- The repair contractor will be required to perform trail seams for each extrusion welder at the beginning of the day and after any shutdowns (lunch) to demonstrate quality welds. The extrusion welds on the 40-mil LLDPE will be required to meet the minimum GRI GM19 peel/shear requirements of 60 ppi for shear and 44 ppi for peel.
- A copy of the current tensiometer calibration will be required for submittal prior to performing any work.
- Each repair will be required to be non-destructively tested via vacuum test. Any leaks discovered during vacuum testing will be required to be repaired and retested.
- The repair contractor will be required to clean up all scrap repair materials prior to leaving site.
- The repair contractor will be required to perform the work in a safe manor and notify the client immediately of any unsafe work conditions or of any injuries or incidents.
- A third party CQA Monitor will be on-site for the Client observing all trail seams, repairs, and testing.
- Bids for repairs shall include itemized costs for work including: mob/demob costs, material costs, labor costs, equipment costs, per diem (lodging) costs, taxes, and all other related costs to complete the work.
- The repair contractor will be required to provide a schedule for the repair work. Due to the anticipated 1 to 2-day repair schedule, the repair contractor will not be able to charge for any out of scope items once the bids are submitted (example: no stand-by time will be allowed in the event of bad weather).
- If the repair contractor thinks that the 3-foot diameter holes (12" – 18" deep) are not large enough, they will need to provide their required hole excavation dimensions in their bid. It is anticipated the repair contractor will need to make some minor adjustments (with hand tools-spade) to the hole dimensions or to clean the bottom of the hole (small broom or shop vacuum) sufficiently to make the repairs.



