

To: Mayor and City Council

Cc: Gregg Mandsager, City Administrator

Brian Stineman, Public Works Director

From: Kristy Korpi, Solid Waste Manager

Date: Tuesday, October 17, 2017

Re: Request for approval of purchase of Skrim Cap (Rain Shed cover) for Cell #5

Introduction: Construction on Cell #5 is near completion. The liner arrived on site on Friday, October 13, 2017 and will be installed this week, weather permitting. Upon completion, we have been advised by Barker Lemar to utilize a rain shed cover to protect the slope of the landfill. The rain cover keeps storm water out of the leachate system and protects the integrity of the sand layer, allowing full utilization of the cell.

Per the manufacturer, the product consists of two sheets of high-strength polyethylene film laminated together with a third layer of molten polyethylene. The black outer layers contain carbon black to enhance outdoor life. A heavy-duty scrim reinforcement is placed between these layers which greatly enhances tear and puncture resistance. It is designed to withstand longer term outdoor applications requiring up to five years of exposure or more. We will begin to peel away sections to fill in approximately two years.

Following completion of Cell #4, a rain shed cover was not utilized. Sand washed into the cell and we were required to pay to have the sand "dressed". Leachate production also increased. The increase in leachate was due to rainwater running into the cell. All leachate is pumped from the tank and hauled to WPCP which meant added expense. This could have been minimized with the use of a rain cover and an installed berm to divert rain water into our storm water system, not into the cell. A portion of Cell #4 was not utilized due to damage from washout. We have regained that area with Cell #5 Construction.

Recommendation: Staff recommends we proceed with Barker Lemar's recommendation to install a Skrim Cap (Rain shed cover) to protect the integrity of the landfill slope. The estimate for a 1.5-acre cover is \$26,462.70. The installation is \$7,000.00. For a total of \$33,462.70. I would like to request approval not to exceed \$34,000.00 since the 1.5-acre cover is based on a field estimate by Barker Lemar. The exact size will be quoted before ordering.