

Bridgeton Landfill, LLC

13570 St. Charles Rock Road
Bridgeton, Missouri 63044

March 18, 2014

Ms. Charlene S. Fitch, P.E.
Chief Engineering Section
Missouri Department of Natural Resources
1738 East Elm Street
Jefferson City, Missouri 65101

Dear Ms. Fitch:

Subject: Slope Stability
Bridgeton Landfill, Bridgeton, Missouri
Permit No. 0118912

In response to your inquiry concerning slope stability at the Bridgeton Landfill, we requested an evaluation by our slope stability expert, Peter J. Carey. Mr. Carey performed a deliberate, thorough inspection of the entire North and South Quarry areas and reported his findings on the attached letter. As you know, Mr. Carey also reviews the monthly settlement data for the South Quarry and has performed a number of site inspections over the past two years. Mr. Carey concluded that there was no evidence of impending instability of consequence.


Mr. Carey did observe a potential minor movement near CT-6 and concluded that it is contained very locally and does not appear to be affecting CT-6 or the cap membrane. He verbally recommended enhanced monitoring in the CT-6 area, including periodic survey of gas wells and features in the area to confirm that no waste movement was occurring. We will be implementing that enhanced monitoring.

Subsequently, Mr. Michael R. Beaudoin and I walked the top of the South Quarry to observe reports of possible cracks or voids under FML cap material. Mr. Beaudoin has determined that the cracks and settled areas are oriented such that they are attributed to inward movement adjacent to high settlement areas. We have removed cap from some of those areas and confirmed that the cracks and voids can be filled with soil to restore a level ground surface. Since we expect the formation of these cracks and settled areas to be an ongoing issue, we are currently developing alternative plans for filling in the cracks and, in the meantime, have cordoned those areas off.

If you have any questions or comments, please contact me at 314-744-8165.

Sincerely,

Bridgeton Landfill, LLC


Brian Power
Environmental Manager

cc: Mr. Chris Nagel

P. J. Carey & Associates, P.C.

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February 16, 2014

Brian J. Power
Environmental Manager
Bridgeton Landfill, LLC.
13570 Saint Charles Rock Road
Bridgeton, MO 63044

RE: Bridgeton Stability

Dear Brian,

On February 6 and 7 2014 I performed an inspection of the sloping area of the Bridgeton Landfill Quarry Fill, including the areas highlighted by the MDNR as areas of stability concern.

The inspection consisted of walking over the areas of the slopes looking for telltale signs of movements related to instability, including areas of suspension of the membrane on the upslope areas that would result if scarping, not visible due to the temporary membrane cap, existed.

The inspection revealed no indications of instability with the exception of the area directly downslope of CT-6. In this area, the construction of access to the device has resulted in a relatively steep tack on segment that is under membrane. The area surrounding the sump shows a wrinkle pattern in the membrane indicative of some localized movements of limited extent. This is a local issue and can be addressed when other maintenance is performed in the area. No indications of significant membrane distress or tilting of the CT-6 riser is apparent at this time.

This is the seventh review I have performed of this type at the facility since the fall of 2012. To date, no signs of impending instability of any consequence has been identified or occurred.

I hope this information is helpful to you. Please call if there are any questions.

Sincerely,

A handwritten signature in blue ink that reads "Peter J. Carey". The signature is written in a cursive style with a large initial "P".

Peter J. Carey, PE
President