

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE ER REGULATORY CONTACT RECORD

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<b>Date/Time:</b>	June 29, 2005 / 1:30 pm	
<b>Site Contact(s):</b>	Bob Birk/DOE	Bob Davis/K-H
<b>Phone:</b>	303 966-5921	303 966-7026

<b>Regulatory Contact:</b>	Pat Smith	Carl Spreng
<b>Phone:</b>	303 312-6504	303 692-3358
<b>Agency:</b>	EPA	CDPHE

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**Purpose of Contact:** Summarize the Present Landfill Accelerated Action Meeting Discussion with DOE, K-H, EPA and CDPHE

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### Discussion

In light of differences between the approved design for the East Face of the Present landfill, and the as-built conditions, EPA requested information to determine whether slope stability has been preserved. This request included updated design analysis for both general slope stability and cover stability. General slope stability analysis results were provided to the EPA on June 16, 2005. The computer runs and backup calculations for the slope stability analysis were provided to EPA/CDPHE on June 22, 2005. The stability analysis for the landfill cover is in progress. Adequate factors of safety for both general and cover stability are required by EPA and CDPHE.

1. The calculations verify that the safety factors for the general East face slope, post-construction conditions are above the required factor of safety criteria. These calculations and results were accepted by both the EPA and CDPHE at the above referenced meeting. The EPA and CDPHE do not have any further questions on these slope stability calculations, however the stability calculations for the East face cover (liner, geotextile, rock layer, and cover soil) are in progress and will require review by the EPA/CDPHE.
2. Updated stability analysis for the as-built East face landfill cover—the geosynthetics and the soil & rock layers above the geosynthetics—will be provided. The EPA and CDPHE have requested that the cover slope stability calculations be updated to reflect the “as-built” configuration. Specifically, calculations should account for seepage forces that could occur within the 10-inch cushion layer above the geosynthetics. K-H has directed Earth Tech to revise the calculations of the cover system as requested. Due to vacation schedules, these calculations will be completed in about 2 weeks.
3. Based on recent storm events, additional contouring at the toe of the east face is needed to reduce erosion at the seep treatment system structure from the flow of stormwater off the east face of the landfill. Kaiser-Hill (through Earth Tech) is in the process of preparing construction sketches and calculations to size engineered channels to control this stormwater flow and reduce erosion at the toe of the east face. The preliminary design has determined that the channel would have a bottom width of 5-feet with a depth of 1-1/2 feet. The preliminary water flow depth for the 100-year storm event is under 0.3 feet in this channel configuration. The construction sketches and the calculations will be provided to the EPA/CDPHE early next week for their review and comment. At this time, the construction is tentatively planned for late next week or the following week. The proposed grade changes at the toe of the east slope to reduce erosion will not influence the stability of the east face and no further stability calculations will be required. Approval of a design

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change for this will be contingent on the updated cover design analysis for item 2 providing an adequate factor of safety. The construction certification report (CCR) is not complete until these items are resolved and all construction is approved, completed, and documented.

The EPA and CDPHE agree with this contact record.

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**Contact Record Prepared by: Bob Davis**

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Required Distribution:

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Additional Distribution:

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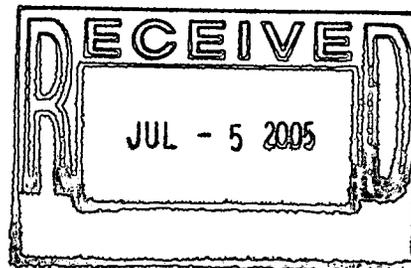
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ADMIN RECORD

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