



## DEPARTMENT OF ENERGY

Environmental Management Los Alamos Field Office (EM-LA)  
Los Alamos, New Mexico 87544

EMID-700154

Mr. John E. Kieling  
Bureau Chief  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, NM 87505-6303



DEC 17 2018

Dear Mr. Kieling:

Subject: Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16

This letter documents the annual inspection and maintenance of erosion control measures associated with the drainages entering the 90s Line Pond, Consolidated Unit 16-008(a)-99. This letter is required as part of the New Mexico Environment Department's (NMED's) "Approval with Modifications [for the] Supplemental Investigation Work Plan for Consolidated Units 16-007(a)-99 and 16-008(a)-99 at Technical Area 16," dated December 31, 2008.

The individual solid waste management units within Consolidated Unit 16-008(a)-99 are located within a level, well-vegetated area mesa top in Technical Area 16. Surface flows generated in the area discharge to the 90s Line Pond through two narrow drainage channels and have little potential to reach any waters of the U.S. The 90s Line Pond was remediated in 2009 and has no outlet.

Since the first inspection in 2009 to the inspection conducted in 2016, no evidence of erosion has been documented for 90s Line Pond drainages, including after a 3.52-in. rain event on September 13, 2013. On December 30, 2016, NMED approved the annual inspection report "Inspection and Maintenance of Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16" (dated November 16, 2016). Inspection reports are now submitted once every 2 yr and no later than December 31 of the second reporting year. This inspection report details activities for the 2017 and 2018 monitoring periods.

Best management practices were installed in 2008 in the drainages to the 90s Line Pond and consist of five juniper bale controls designed to block sediment transport down the drainages into the pond. Controls were inspected annually on September 1, 2017, and November 29, 2018; the results indicate all controls are currently in good operating condition (Figures 1 to 7, enclosed) with no evidence of erosion in the drainages.

If you have any questions, please contact Steve Veenis at (505) 309-1362 (steve.veenis@em-la.doe.gov) or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,



Arturo Q. Duran  
Designated Agency Manager  
Environmental Management  
Los Alamos Field Office

Enclosures:

1. Figures for the Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16 (EM2018-0136)

cc (letter and enclosure[s] emailed):

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EM-LA-40AD-00373

**Figures for the Biennial Inspection and Maintenance Report on  
Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16**



**Figure 1** Vegetated Consolidated Unit 16-008(a)-99 draining to 90s Line Pond, November 2018



**Figure 2** Run-on control earthen berm in the vegetated area draining to 90s Line Pond, November 2018





**Figure 3** Juniper bale check dams located in drainage channel to 90s Line Pond, November 2018. Note needle cast and vegetation in channel.



**Figure 4** Juniper bale check dam located in drainage channel to 90s Line Pond, November 2018. Note vegetation in channel.





**Figure 5** Juniper bale check dam located in drainage channel to 90s Line Pond, November 2018. Note vegetation in channel.



**Figure 6** Juniper bale check dam located in drainage channel to 90s Line Pond, November 2018. Note vegetation in channel.



**Figure 7 90s Line Pond, November 2018**