



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

EMLA-23-BF43-2-1

December 13, 2022

Mr. Rick Shean
Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6313



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

References

1. New Mexico Environment Department Letter, J.P. Bearzi to D. Gregory and D. McNroy, "Approval with Modifications, Supplemental Investigation Work Plan for Consolidated Units 16-007(a)-99 and 16-008(a)-99 at Technical Area 16," dated December 31, 2008
2. Los Alamos National Laboratory, November 2016. "Inspection and Maintenance of Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16," Los Alamos National Laboratory document LA-UR-16-28853
3. New Mexico Environment Department Letter, J.E. Kieling to D. Hintz and M.T. Brandt, "Approval Inspection and Maintenance of Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16," dated December 30, 2016
4. Letter EM-LA-40AD-00373, A.Q. Duran to J.E. Kieling, "Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16," dated December 17, 2018
5. Letter EMLA-2021-0018-02-001, A.Q. Duran to K. Pierard, "Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16," dated December 10, 2020
6. New Mexico Environment Department Letter, J. Bearzi to G. Rael and M. Graham, "Notice of Approval Supplemental Investigation Report for Consolidated Units 16-007(a)-99 and 16-008(a)-99 at Technical Area 16," dated February 16, 2010
7. New Mexico Environment Department Letter, R. Shean to A. Duran, "Review Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16," dated March 14, 2022

Dear Mr. Shean:

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, for calendar years 2021 and 2022. This letter is required as part of the New Mexico Environment Department's (NMED's) "Approval

with Modifications, Supplemental Investigation Work Plan for Consolidated Units 16-007(a)-99 and 16-008(a)-99 at Technical Area 16,” dated December 31, 2008 (Reference 1).

The individual solid waste management units within Consolidated Unit 16-008(a)-99 are located on a level, well-vegetated 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.

On November 16, 2016, the annual “Inspection and Maintenance of Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16” was submitted to NMED (Reference 2). In that report a request was made to reduce the report submittal schedule to once every 2 yr and no later than December 31 of the reporting year. On December 30, 2016, NMED approved the annual inspection report and the request to submit reports biennially (Reference 3). The biennial inspection and maintenance report for calendar years 2017 and 2018 was submitted on December 17, 2018 (Reference 4). On December 10, 2020, the biennial “Inspection and Maintenance of Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16” for calendar years 2019 and 2020 was submitted to NMED (Reference 5). In that report a request was made to discontinue and remove the biennial inspections and reporting as a requirement in NMED’s approval of the “Supplemental Investigation Report for Consolidated Units 16-007(a)-99 and 16-008(a)-99 at Technical Area 16,” dated February 16, 2010 (Reference 6). On March 14, 2022, NMED denied the request, concluding that inspections and biennial reports must continue (Reference 7). This inspection report details activities performed during 2021 and 2022.

Best management practices were installed in 2008 in the drainages to the 90s Line Pond, consisting of five juniper bale controls designed to block sediment transport down the drainages into the pond. Controls were inspected annually on October 22, 2021, and September 13, 2022. A photograph of the run-on earthen berm control was not taken at the September 2022 inspection but was taken on November 8, 2022, for inclusion in this submittal (Enclosure 1, Figure 4). The results indicate all controls are currently in good operating condition with no evidence of erosion in the drainages, as shown in Enclosure 1.

If you have any questions, please contact Ryan Flynn at (505) 470-0624 (ryan.flynn@em-la.doe.gov) or Cheryl Rodriguez at (505) 414-0450 (cheryl.rodriguez@em.doe.gov).

Sincerely,

**ARTURO
DURAN**

Digitally signed by
ARTURO DURAN
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Arturo Q. Duran
Compliance and Permitting Manager
U.S. Department of Energy
Environmental Management
Los Alamos Field Office

Enclosure(s):

1. Two hard copies with electronic files:

Figures for the Biennial Inspection and Maintenance Report on Erosion Controls in Drainages to the 90s Line Pond at Technical Area 16 (EM2022-0786)

CC (letter and enclosure[s] emailed):

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Public Reading Room (EPRR)

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Enclosure 1

*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, October 2021



Figure 2 Vegetated Consolidated Unit 16-008(a)-99 draining to 90s Line Pond, September 2022



Figure 3 Run-on control earthen berm in the vegetated area draining to 90s Line Pond, October 2021



Figure 4 Run-on control earthen berm in the vegetated area draining to 90s Line Pond, November 2022



Figure 5 Juniper bale check dams located in drainage channel to 90s Line Pond, October 2021. Note vegetation in channel.



Figure 6 Juniper bale check dams located in drainage channel to 90s Line Pond, September 2022. Note vegetation in channel.



Figure 7 Juniper bale check dam located in drainage channel to 90s Line Pond, October 2021. Note vegetation in channel.



Figure 8 Juniper bale check dam located in drainage channel to 90s Line Pond, September 2022. Note vegetation in channel.



Figure 9 Juniper bale check dam located in drainage channel to 90s Line Pond, October 2021. Note vegetation in channel.



Figure 10 Juniper bale check dam located in drainage channel to 90s Line Pond, September 2022. Note vegetation in channel.



Figure 11 Juniper bale check dam located in drainage channel to 90s Line Pond, October 2021. Note vegetation in channel.



Figure 12 Juniper bale check dam located in drainage channel to 90s Line Pond, September 2022. Note vegetation in channel.



Figure 13 90s Line Pond, October 2021



Figure 14 90s Line Pond, September 2022

