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Date: **AUG 18 2011**
Refer To: EP2011-0220

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

Subject: Submittal of the July 2011 Monthly Progress Report Corrective Measures Evaluation/Corrective Measures Implementation for Consolidated Unit 16-021(c)-99

Dear Mr. Kieling:

Enclosed are two hard copies with electronic files of the July 2011 Monthly Progress Report Corrective Measures Evaluation/Corrective Measures Implementation for Consolidated Unit 16-021(c)-99. The report is submitted according to the approved corrective measures study plan for Consolidated Unit 16-021(c)-99.

If you have questions, please call John McCann at (505) 665-1091 (jmccann@lanl.gov) or Woody Woodworth at (505) 665-5820 (lance.woodworth@nnsa.doe.gov).

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

George J. Rael, Assistant Manager
Environmental Projects Office
Los Alamos Site Office



MG/GR/DM/JM/DH:sm

Enclosures: Two hard copies with electronic files – July 2011 Monthly Progress Report
Corrective Measures Evaluation/Corrective Measures Implementation for
Consolidated Unit 16-021(c)-99 (LA-UR-11-3672)

Cy: (w/enc.)
Neil Weber, San Ildefonso Pueblo
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John McCann, EP-CAP, MS M992
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Cy: (Letter and CD only)
Laurie King, EPA Region 6, Dallas, TX
Steve Yanicak, NMED-DOE-OB, MS M894
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Cy: (w/o enc.)
Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamp copy emailed)
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**Monthly Progress Report
Corrective Measures Evaluation (CME)/Corrective Measures Implementation (CMI) for
Consolidated Unit 16-021(c)-99
July 2011**

This report summarizes Los Alamos National Laboratory (LANL) activities completed during July of fiscal year 2011 on the CME/CMI for Consolidated Unit 16-021(c)-99, the Technical Area 16 (TA-16) 260 Outfall. Activities outlined in the corrective measures study (CMS) plan ([LA-UR-98-3918] approved by the New Mexico Environment Department [NMED] Hazardous Waste Bureau [HWB] on 9/8/99) and other related activities are described herein.

Description of Activities and Contacts – No contacts during July.

Surface CME/CMI

Best Management Practices (BMPs) – BMPs are inspected quarterly and following significant precipitation events. Several rain events occurred in July; none exceeded 0.5 in.

CME Hydrogeologic Investigations – Hydrogeologic investigations include periodic water sampling as outlined in the Phase II Resource Conservation and Recovery Act facility investigation (RFI) work plan as well as continuing investigations delineated in the CMS plan. The ongoing water sampling program, conducted under the auspices of LANL's interim facility-wide groundwater monitoring plan, includes biannual sampling at Martin, SWSC, and Burning Ground Springs.

Flow in the TA-16 canyons remained low in July because of minimal spring runoff. Martin Spring is flowing at a rate of < 0.1 L/s, Burning Ground Spring is flowing at a rate of < 0.3 L/s, and SWSC Spring did not flow over the weir-box exit.

The 90s Line Pond remains wet but is very small in extent. Surface water is present in Cañon de Valle from upstream of the 260 Outfall channel to beyond the former location of Material Disposal Area P. Most alluvial wells in Cañon de Valle and Martin Spring Canyon are wet, but those in Fishladder Canyon are dry.

CMI – Permitting for CMI activities continues to proceed slowly. It was previously determined the storm-filter systems in the springs required National Pollutant Discharge Elimination System (NPDES) permits because of elevated levels of aluminum. The problem is that naturally occurring levels of aluminum in the spring water exceed current water standards.

TerranearPMC continued water-level monitoring activities for the PRB in July. TPMC personnel completed reconfiguration of the PRB cells in late July. Zero-valent iron media were removed and replaced with granular activated carbon. The amount of zeolite material was also increased. Waste waters from the TA-16 260 troughs were containerized and shipped to an off-site treatment storage and disposal facility.

Subsurface CME/CMI

RFI/Investigation Report and CME for Deep Groundwater – Well R-25c, completed in September 2008, has not produced water since it was completed.

Well CdV-16-4(ip) was drilled to a depth of 1150 ft in August 2010 (NMED complete on August 23, 2010).

The report for the recent hydrologic tests at CdV-16-4ip and R-25b was submitted to NMED on June 8, 2011.

Public and Stakeholder Involvement – None.

Problems Encountered/Actions to Rectify Problems

The status of aluminum under potential NPDES permits for the storm-filter systems is problematic, as noted above.

Key Personnel Issues – None

Projected Work for August 2011

Surface CME/CMI

BMPs

- Continue inspection of existing BMPs following significant precipitation events

CME Hydrogeologic Investigations

- Maintain the TA-16 trailers
- Check for the presence and levels of water in Cañon de Valle alluvial system
- Continue precipitation monitoring

CMI

- Continue NPDES permitting discussions with NMED
- Continue monitoring water levels and field parameters in PRB wells
- Repair of PRB piezometers, wells, and sampling ports following flooding
- Continue waste management activities for remaining water at CMI remedy sites

Subsurface CME/CMI

- Analysis of deep groundwater data in context of investigation report for Water Canyon/Cañon de Valle

Public and Stakeholder Involvement – Continue discussions with NMED personnel regarding the issue of aluminum detected in springs.