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Date: May 31, 2007
Refer To: EP2007-0341

James P. Bearzi, 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 Technical Area 54 Well Network Evaluation and Network Recommendations

Dear Mr. Bearzi:

Enclosed please find two hard copies of the proposed outline for the Technical Area (TA) 54 Well Evaluation and Network Recommendation Report due to the New Mexico Environment Department July 31, 2007. The Los Alamos National Laboratory would also like to request that this outline be considered as the outline for the submittal of the Mortandad Canyon and Los Alamos/Pueblo Canyon network evaluation reports.

If you have questions, please contact Danny Katzman at (505) 667-6333 (katzman@lanl.gov) or Mat Johansen at (505) 665-5046 (mjohansen@doel.gov).

Sincerely,

Susan G. Stiger, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office



SGS/DRG/DK/:sm

Enclosure: "Proposed Outline for Well Evaluation and Network Recommendations for TA-54"

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Proposed Outline for Well Evaluation and Network Recommendations for TA-54

1.0 Introduction

Discussion of the regulatory context for the well evaluation

NMED's April 5, 2007 letter

Brief history of the origin of existing wells around TA-54

2.0 Site Conceptual Model

Brief description of the nature and extent of contamination around MDAs H, J, L, G and processes that govern fate and transport

3.0 Monitoring Objectives

Brief discussion of the technical and regulatory objectives for the monitoring network in the vicinity of TA-54

4.0 Monitoring Network Assessment

This section reviews existing wells in the vicinity of TA-54 in context of the network objectives and the technical and regulatory drivers described in Section 3.

Considerations at each well include, but are not limited to:

- physical/hydrologic factors;
 - well construction
 - isolation between water-bearing zones for multi-screen wells
- geochemical performance of screened intervals;
- overall network adequacy in the context of groundwater flow;
 - location of wells
 - supply-well pumping effects
 - well screen depth and length

5.0 Recommendations

This section will factor the results of the assessment into recommendations for the network.

Recommendations might include:

- No action
- well rehabilitation
- replacement of pumping systems
- screen abandonment
- installation of new wells
- plugging and abandonment

6.0 Schedule

This section will provide a schedule for implementation of the recommendations that will reflect the timing of key regulatory decision milestones for the site.