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Mr. Jerry Schoeppner, Chief
Ground Water Quality Bureau
New Mexico Environment Department
Harold Runnels Building, Room N2261
1190 St. Francis Drive
P.O. Box 26110
Santa Fe, NM 87502

RECEIVED

OCT 25 2013

**NMED
Hazardous Waste Bureau**

Dear Mr. Schoeppner:

**SUBJECT: DISCHARGE PLAN DP-1132 QUARTERLY REPORT, THIRD QUARTER 2013,
TA-50 RADIOACTIVE LIQUID WASTE TREATMENT FACILITY**

This letter from the U.S. Department of Energy and Los Alamos National Security, LLC (DOE/LANS) is the third quarter 2013 Discharge Plan DP-1132 report for the Technical Area (TA)-50 Radioactive Liquid Waste Treatment Facility (RLWTF). Since the first quarter of 1999, DOE/LANS have provided the New Mexico Environment Department (NMED) with voluntary quarterly reports containing analytical results from effluent and groundwater monitoring.

During the third quarter of 2013, no effluent was discharged to either the National Pollutant Discharge Elimination System (NPDES) Outfall 051 or to the recently constructed solar evaporative tank system (SET) at Technical Area (TA)-52; all effluent was evaporated on-site at the mechanical evaporator system (MES).

Quarterly Monitoring Results, Mortandad Canyon Alluvial Groundwater Wells

Table 1.0 presents the analytical results from sampling conducted at Mortandad Canyon alluvial well MCO-3 during the third quarter of 2013. No samples were collected from alluvial wells MCO-4B, MCO-6, and MCO-7 because there was insufficient water present. A sample from MCO-3 was submitted to GEL Laboratories LLC (GEL) for analysis. All of the analytical results were below the New Mexico Water Quality Control Commission (NMWQCC) 3103 standards for nitrate-nitrogen (NO₃-N), fluoride (F), and total dissolved solids (TDS). Analytical results from the sampling of intermediate and regional aquifer wells in Mortandad Canyon can be accessed online at the Intellus New Mexico environmental monitoring data web site (<http://www.intellusnmdata.com>).



TA-50 RLWTF Effluent Monitoring Results

No final weekly composite (FWC) samples were collected during the third quarter of 2013 because no effluent was discharged to Mortandad Canyon.

No final monthly composite (FMC) samples were collected during the third quarter of 2013 because no effluent was discharged to Mortandad Canyon.

Please contact Robert S. Beers by telephone at (505) 667-7969 or by email at bbeers@lanl.gov if you have questions regarding this report.

Sincerely,



Alison M. Dorries
Division Leader
Environmental Protection Division
Los Alamos National Security LLC
Nuclear Waste Bureau

Sincerely,



Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
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Discharge Plan DP-1132 Quarterly Report
3rd Quarter, 2013

Table 1.0. Mortandad Canyon Alluvial Well Sampling, 3rd Quarter, 2013.

Sampling Location	Sample Field Prep (F/UF) ¹	Sample Date	Perchlorate (ug/L)	NO ₃ +NO ₂ -N (mg/L)	TKN (mg/L)	NH ₃ -N (mg/L)	TDS (mg/L)	F (mg/L)
MCO-3	F	7/22/2013	3.33	0.45	0.64	0.10	310	0.32
MCO-4B	F	7/15/2013	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴
MCO-6	F	7/15/2013	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴
MCO-7	F	7/15/2013	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴	Dry ⁴
<i>NM WQCC 3103 Groundwater Standards</i>			NA ²	10 mg/L ³	NA ²	NA ²	1000 mg/L	1.6 mg/L

Notes:

¹F means the sample was filtered. UF means the sampled was not filtered.

²NA means that there is no NM WQCC 3103 standard for this analyte.

³The NM WQCC 3103 Groundwater Standard is for NO₃-N.

⁴Dry means that there was insufficient water in the well for sampling.