



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

OCT 16 2015

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Kathryn Roberts
Director
Resource Protection Division
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502-5469

Dear Ms. Roberts:

Subject: Transmittal of the Fiscal Year 2015 Fourth Quarter Status Report

The Los Alamos National Laboratory (LANL) Water Protection Status Report for the fourth quarter of Fiscal Year (FY) 2015 has been completed and hereby submitted for your information.

This transmittal letter provides both a water protection status and a status on disposing of newly generated transuranic waste. However, given the Waste Isolation Pilot Plan (WIPP) shutdown, quarterly status will only be provided for water protection until WIPP is re-opened.

The enclosed quarterly status report will be highlighted from a link on the LANL website and will be available for public review. If you have any questions, please contact David Rhodes of my staff at (505) 665-5325.

Sincerely,

Douglas E. Hintze
Manager
Environmental Management
Los Alamos Field Office

Enclosure

cc w/enclosure:

John Kieling

Chief

Hazardous Waste Bureau

New Mexico Environment Department

2905 Rodeo Park Drive East, Building 1

Santa Fe, NM 87505-6303

I. Valdez, NSM, NA-LA

D. Rhodes, EM-LA

C. Rodriguez, EM-LA

D. Nickless, EM-LA

R. Erickson, ADEP, LANS, MS-K788

Records Center, EM-LA

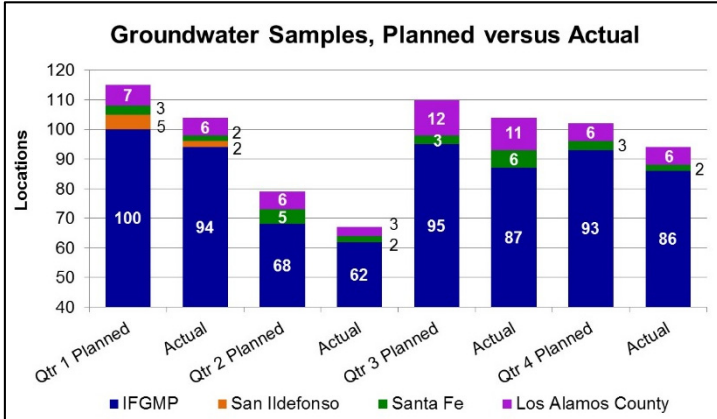
Official Contract File, EM-LA

EPO-32DR-848-647217

LANL Water Protection Status Report — Fiscal Year 2015 Fourth Quarter (July to September 2015)

	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
Groundwater Protection — Continued monitoring of the Buckman Direct Diversion and Los Alamos County Water Supply Wells	☑	☑	☑	☑
Groundwater Protection — Continued implementation of the Interim Facility-Wide Groundwater Monitoring Plan (IFGMP)	☑	☑	☑	☑
Surface Water Protection — Continued protection of surface water through implementation of the Individual Permit for Storm Water	☑	☑	☑	☑
Buckman Early Notification System operability at 100% per memorandum of understanding requirements	☑	☑	☑	☑

Groundwater Protection



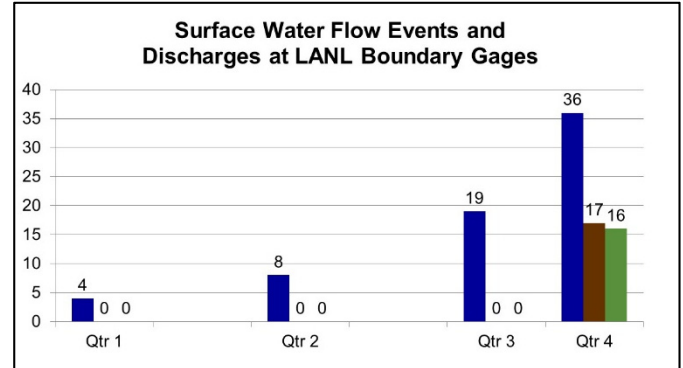
Fourth Quarter Sampling Deviation Explanations:

- (1) **IFGMP:** MCOI-4, CDBO-6, LADP-3, LAOI-7, FLC-16-25280, WCO-1r, and SWSC Spring were dry.
- (2) **San Ildefonso:** None, no sampling scheduled in 4th quarter.
- (3) **City of Santa Fe:** Buckman well no. 1 offline.
- (4) **Los Alamos County:** No deviations.

FY15, 3rd Quarter (Apr–Jun) Analytical Summary: Los Alamos National Laboratory (LANL) has received analytical data for 17 water supply wells and 87 IFGMP (LANL) locations. Of the 104 locations sampled, results for all samples (excluding Buckman well no. 1, sampled April 6, 2015) have been received with a total of 16,936 analyte measurements. A first-time exceedance of a groundwater screening level was detected in a sample from newly constructed regional well CdV-9-1(i) and determined to be from a LANL source.

FY15, 4th quarter (Jul–Sep) analytical results are pending.

Surface Water Protection



- Days with measured flow* at any LANL gage station (>5 cubic feet per second [cfs])
- Days with measured flow* at LANL boundary stations E050.1, E060.1, E125, E204, E229.3, E250, E265, E267, E275, and E338 (>5 cfs)
- Days with measured flow* at Buckman Early Notification Stations E050.1 and E060.1 (>5 cfs) from LANL watersheds.

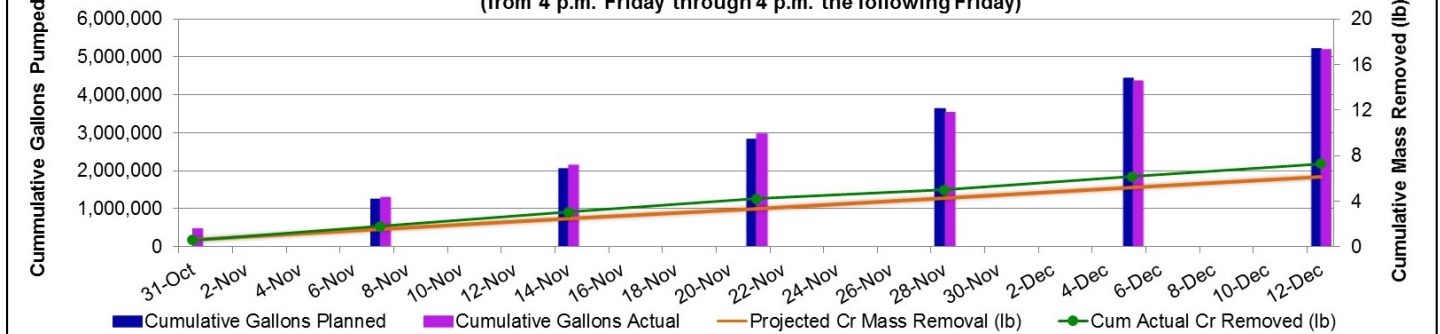
*“Days with measured flow” is computed as the sum of the number of days each station exhibited flows >5 cfs.

Notes:

- (1) In FY15, 3rd quarter (Apr–Jun), the majority of the 19 days of flow were at the three Upper Sandia Canyon gages and the three DP canyon gages.
- (2) In FY15, 4th quarter (Jul–Sep), most of the days with flow at the Boundary and Buckman Early Notification Stations occurred at E050.1 in Los Alamos Canyon where the low-head weir and detention ponds were dewatering from the large amount of rain, including continual flow between July 29 and August 8.

Chromium Project Metrics

(from 4 p.m. Friday through 4 p.m. the following Friday)



Notes:

- (1) Through the end of FY15, 1st quarter, a total of 7.3 lb of chromium was removed from the 5.2 million gallons of groundwater extracted from the aquifer below Mortandad Canyon.
- (2) Pumping at CrEX-1 is expected to begin in October 2015.