

Report

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**DEPARTMENT OF ENERGY**  
National Nuclear Security Administration  
Los Alamos Field Office  
Los Alamos, New Mexico 87544



**JAN 15 2015**

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**JAN 21 2015**

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

**NMED  
Hazardous Waste Bureau**

Dear Ms. Roberts:

**Subject: Transmittal of the Fiscal Year 2015 First Quarter Status Reports**

Please review the enclosed Los Alamos National Laboratory (LANL) Water Protection Status Report for the first quarter of Fiscal Year (FY) 2015. As stated in last quarter's submittal, the Environmental Projects Office will no longer submit quarterly status reports for the 3,706 Campaign due to inactivity.

The Laboratory did not accomplish any additional Transuranic (TRU) Waste disposal during the current period. Last quarter's reported progress remains at a cumulative total of 3,327.5 m<sup>3</sup> of waste as of the end of December, 2014. That equates to 93 percent of the campaign's Material at Risk being removed from the site, representing a significant risk reduction.

The Laboratory made no additional progress in removing newly generated waste during this quarter. Again, the Campaign totals of 477 containers of newly generated waste received in Fiscal Year (FY) 12 for disposal, only five (1 percent) remain to be shipped. Of the 567 containers received in FY13, only 34 (6 percent) remain to be shipped.

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 Nickless of my staff at (505) 665-6448.

Peter Maggiore  
Assistant Manager  
Environmental Projects Office

Enclosure

36882



cc w/enclosures:

John Kieling

Chief

Hazardous Waste Bureau

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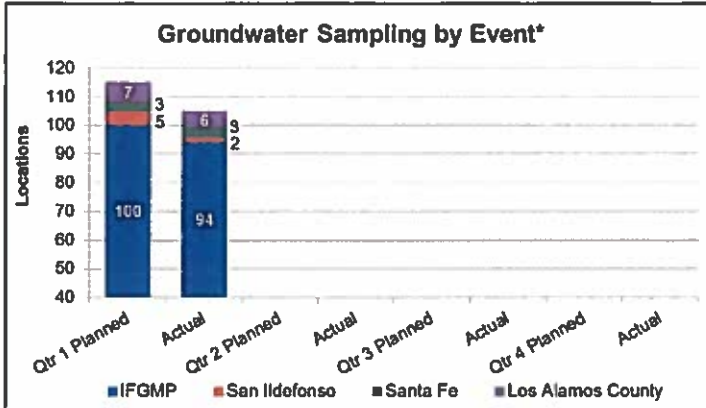
Official Contract File, NA-LA

EPO-32DN-715-609448

# LANL Water Protection Status Report — Fiscal Year 2015 First Quarter (October to December 2014)

	1 <sup>st</sup> Qtr	2 <sup>nd</sup> Qtr	3 <sup>rd</sup> Qtr	4 <sup>th</sup> Qtr
Groundwater Protection — Continued monitoring of the Buckman Direct Diversion and Los Alamos County Water Supply Wells	<input checked="" type="checkbox"/>			
Groundwater Protection — Continued implementation of the Interim Facility-Wide Groundwater Monitoring Plan (IFGMP)	<input checked="" type="checkbox"/>			
Surface Water Protection — Continued protection of surface water through implementation of the Individual Storm Water Permit (IP)	<input checked="" type="checkbox"/>			
Buckman Early Notification System operability at 100% per memorandum of understanding (MOU) requirements	<input checked="" type="checkbox"/>			

## Groundwater Protection



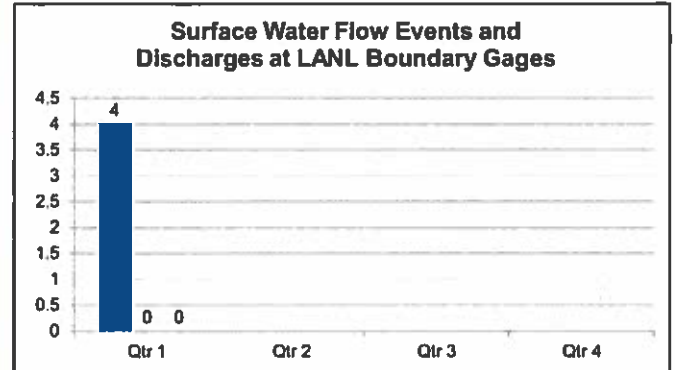
\* An event is a single-screen well location, each individual well screen for multiscreen wells, spring, or base-flow location.

### First Quarter Sampling Event Deviation Explanations:

- (1) **IFGMP:** Mortandad at Rio Grande was dry, Sandia Spring had insufficient water, Spring 5A and Spring 5B locations were inundated by the Rio Grande; construction of wells CdV-9-1i and R-63i had not been completed.
- (2) **San Ildefonso:** GU-0.01 Spring was dry, J. Martinez well was not accessible at time of sampling, Black Mesa Well was offline.
- (3) **City of Santa Fe:** None.
- (4) **Los Alamos County:** PM-4 is shut down for the winter.

FY14, 4th Quarter (July–Sep) Analytical Summary: Los Alamos National Laboratory (LANL) has received analytical data from FY14, 4th quarter, for sampling of 9 water supply wells with 256 analyte measurements and for 65 IFGMP samples with 16,820 analyte measurements that will be reported to the New Mexico Environment Department. Of the 74 samples collected in the 4th quarter, results for 72 samples have been received with a total of 17,076 analyte measurements. No new exceedances were confirmed to be from a LANL source. (FY15, 1st quarter 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.

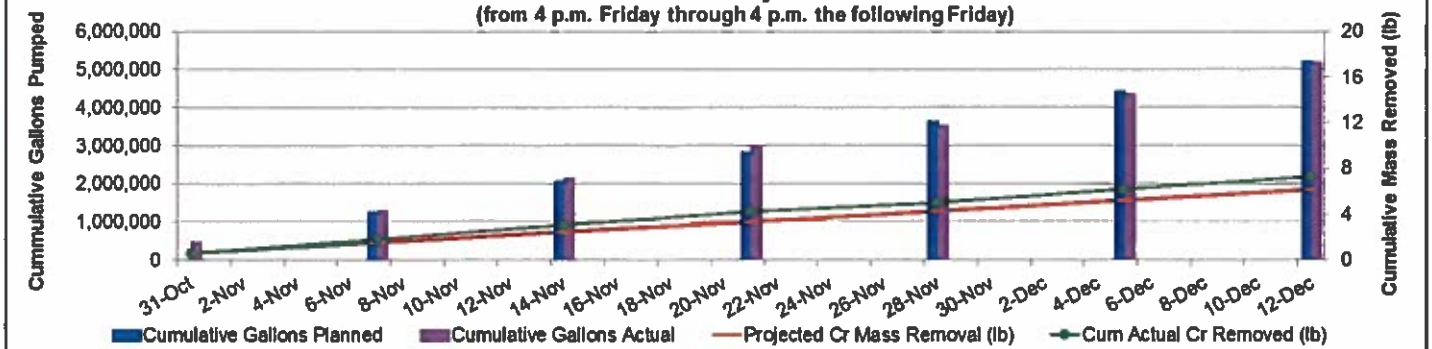
\*"Days with measured flow" is computed as the sum of the number of days each station exhibited flows >5 cfs.

### Notes:

- (1) Only 1 day with measured flow is precipitation-based. Three days of nonstandard flow at E026 are from a water release at the Los Alamos reservoir on October 22 to 24, 2014.
- (2) The following are missing days because of ice interference:
  - E038, 22 days
  - E246, 1 day
  - E123, 22 days
  - E122, 2 days
  - E121, 1 day
  - E201, 11 days
  - E245.5, 2 days

## Chromium Project Metrics

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



### Notes:

- (1) Through the end of FY15, 1<sup>st</sup> 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 is suspended for the winter and will resume during spring 2015.

