03 SWMU 03-050(a), AOC C-00-007 SWMU 03-054(e)

ENTERED

RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY LA-UR- 12-24162

Permit Number: NM0028355

Calendar Year: 2012

NPDES or Operational Spill/Release ☑
ER Spill/Release ☐
Other Spill/Release ☐
Indicate with "X" in appropriate box.

Release ID Number: 339

Responsible Facility/User Group: CMR-DO

Contact Person: Tony Stanford Pager #:

Phone #: 665-2434 Cell Phone #:

Release/Discharge Location:

TA: 3

Building: 29

A potable waterline break was discovered at Los Alamos National Laboratory at TA-3 Building 29 on 8/9/2012. An estimated volume of 18,000 gallons of potable water was released. The water flowed into nearby storm drains and into both Sandia and Mortandad Canyons. The water did flow through SWMUs 03-050(a) and 03-054(e). Minimal erosion was observed where the break occurred but sediment was transported downslope by the flow. The sediment along Diamond Drive was removed on 8/10/2012 and 8/11/2012. A small amount of sediment washed down Grable Road (west of TA-3-223). Removal of accumulated sediment near TA-3 Building 223 was completed on 8/22/2012. NMED/DOE Oversight Bureau conducted a site visit on 8/15/2012.

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall: ☐ PRS: ☑ SWMU: ☑ PRS/SWMU Number: 3-050(a)

Indicate with "X" in appropriate box(es).

Relationship of the Discharge to a SWMU or PRS:

SWMU 03-050(a) is an area of potential soil contamination associated with the exhaust emissions from 24 active stacks on the roof of building 03-0029; this SWMU comprises the area between the CMR building and the security fence around all four sides of the CMR building. Building 03-0029, the CMR Building, was built in 1961 and houses an irradiated-fuel examination facility and analytical chemistry operations that involve handling radioactive materials containing uranium, plutonium, iodine, mixed fission products, and tritium. High-efficiency particulate air (HEPA), Aerosolve 95, and charcoal filters are used to remove radioactive particulates from stack effluent gas. None of the potentially contaminated surface and near surface soil within the boundary of SWMU 03-050(a) was washed offsite; soil eroded around the line rupture will be returned to its original location.

Some of the water from the line rupture that ran down Grable Road toward building 03-223 did enter the upper Sandia Canyon drainage (AOC C-00-007) channel north of building 03-223; however the volume and velocity of the water were not sufficient to cause any erosion of the channel. Some of the water from the line rupture ran down Diamond Drive and into the SWMU 03 054(e) storm drain pipe. SWMU 03-054(e) is an outfall located in upper Mortandad Canyon. The outfall typically discharges a steady, low-volume flow of effluent that originates from several sources at the CMR Building (03 29). These sources include drainage from roofs over the west wing, where towers vent filtered exhaust, and surface water runoff from the asphalt area around the building. The volume and velocity of the water were not sufficient to cause any damage to the storm drain or any erosion at the outfall or in the drainage downgradient of the outfall.

	Date & Time		Date & Time		Date & Time
Discharge Occurred:	8/9/2012 ~2:00 p.m.	Discharge Discovered:	8/9/2012 ~2:00 p.m.	Discharge Stopped:	8/9/2012 ~2:45 p.m.
Cleanup Started:	8/9/2012 ~2:00 p.m.	Cleanup Completed:	8/22/2012 ~10:00 a.m.		

Material(s) Released / Discharged:

Potable Water

Release/Discharge Mitigation Method:

The waterline was shut down as soon as practicable for repairs. Repairs to the line were completed on 8/9/2012.

Weather Conditions:

[redacted] 8/22/2012 12:15:52 PM

35454

Clear skies

Duration of Release/ Discharge, In HOURS:	~0.75	Est. Volume released, in gallons:	~18,000	Est. Volume Recovered, in gallons.	0

Corrective Actions Taken (ie, type of BMPs, etc):

The waterline was shut down as soon as practicable for repairs. The sediment resulting from the spill along Diamond Drive was removed following the release. A small amout of sediment was washed down Grable Road near TA-3-223. Removal of the residual sediment near TA-3-223 was completed on 8/22/2012.

Nearest Watercourse (Canyon Name) Sandia Canyon

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

Most of the water flowed to Sandia Canyon. A small portion of the water entered stormdrains that drain to the head of Mortandad Canyon. The release did not appear to cause erosion in Sandia or Mortandad Canyons.

Depth to Groundwater, in FT, if known: ~1,000

Distance to Nearest Drinking Water Well, in FT, if known: ~11,000 **Well ID#** PM-5

24 HOUR RELEASE / DISCHARGE NOTIFICATIONS

	Contact Person	Phone	Fax	Date & Time (or Comment)	
EPA:	Hannah Branning			8/16/2012	7 Day Report
NMED/SWQB:	Richard Powell	827-2798	827-0160	8/9/2012	Verbal
NMED/GWQB:	Jennifer Fullam	827-2900	827-2965	8/9/2012	Verbal
NMED/HRMB:	Ruth Horowitz	476-6025		8/9/2012	Verbal
NMED/DOE-OB:	Steve Yanicak	672-0448	661-4958	8/16/2012	7 Day Report
ENV-RCRA:	Jake Meadows	606-0185	665-9344		
DOE:	Gene Turner	667-5794	505-665-4872	8/9/2012	Verbal
OTHER:	Arturo Duran	665-7772		8/16/2012	7 Day Report
OTHER:	Erik Galloway			8/9/2012	Verbal

Comments: Verbal notifications were provided to NMED-GWQB, NMED-HWB, NMED-SWQB, DOE, and NMED/DOE Oversight Bureau on 8/9/2012. A site visit was conducted by NMED/DOE Oversight Bureau on 8/15/2012. The use of Best Management Practices (BMPs) on the site excavation and the performance of previously installed BMPs at the site were noted as positive practices.

Form Completed By: Jake Meadows

7 DAY RELEASE / DISCHARGE ACTIONS

7 Day Notice ☑ **7 Day Notice Date:** 8/16/2012 **7 Day Notice By:** Jake Meadows

Mark "X" when done.

Comments: Repairs to the line have been completed. The sediment along Diamond Drive has been removed, but the sediment near TA-3-223 still needs to be removed. Additional information regarding completion of corrective actions may be included in the 15 Day Report.

15 DAY RELEASE / DISCHARGE ACTIONS

15 day Follow-up Due: 8/22/2012 **15-day Follow-Up By:** Jake Meadows

Comments: Please note the responsible facility is the CMR-DO, rather than Utilities. Sediment removal near TA-3-223 was completed on 8/22/2012. All corrective actions are complete. LANS, LLC requests administrative closure of this release pursuant to 20.6.2.1203 NMAC.

NMED 30 DAY APPROVAL / DISAPPROVAL

NMED 30 Day Response Date: 9/10/2012

Comments:

Arturo Duran
Office of Los Alamos Site Operations
Department of Energy
Los Alamos, New Mexico 87544
(505) 665-7772

Alison Dorries, ENV Division Director
Los Alamos National Security, LLC.
Los Alamos National Laboratory
P.O. Box 1663, MS K404
Los Alamos, New Mexico 87544
(505) 667-2211