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*Title:* **Status Report, Water/Cañon de Valle Watershed  
January 1–June 30, 2014**

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*Intended for:* Public

*Purpose:* This Status Report has been prepared to facilitate public review of activities under the Individual Permit for Storm Water (IP) (National Pollutant Discharge Elimination System Permit No. NM0030759). This report, not required by the IP, updates the 2013 Annual Report (published on March 1, 2014). Further, it summarizes precipitation, monitoring, inspection and maintenance, corrective action, and compliance status at specific solid waste management units and areas of concern listed in the IP. The report will be available on Los Alamos National Laboratory's public website established as required under Part I.I.7 of the IP.



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# **STATUS REPORT**

**Water/Cañon de Valle Watershed  
January 1–June 30, 2014**

**INDIVIDUAL PERMIT FOR STORM WATER  
NPDES PERMIT No. NM0030759**



## OVERVIEW

Los Alamos National Security, LLC, under the direction of the U.S. Department of Energy, has prepared this Status Report to facilitate public review of activities under the Individual Permit for Storm Water (IP) (National Pollutant Discharge Elimination System Permit No. NM0030759). This report, not required by the IP, updates the 2013 Annual Report published on March 1, 2014. Further, for the January 1–June 30, 2014, time period, it summarizes precipitation, monitoring, inspection and maintenance, corrective action, and compliance status at specific solid waste management units and areas of concern, commonly referred to as “Sites.” This report will be available on Los Alamos National Laboratory’s (the Laboratory’s) public website established as required under Part I.I.7 of the IP. This website may be found at <http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php>.

The site monitoring area (SMA) maps are available on the web (<http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/site-monitoring-area-maps.php>) and are updated when any change is made.

Within the Water/Cañon de Valle watershed, 89 Sites are monitored at 50 SMAs. Highlights of the work performed from January 1–June 30, 2014, include the following:

- Additional controls were installed at 5 SMAs, and no augmented controls were installed at any SMAs. One baseline control replacement was completed at 1 SMA, and no enhanced controls were certified as corrective action measures.
- There were 5 measurable storm events, and no confirmation samples were collected. Sixty-six event inspections were completed during the reporting period.
- As of June 30, 2014, baseline monitoring is continuing at 18 SMAs, and corrective action was initiated at 10 SMAs (29 Sites).
- There were no incidents of noncompliance that could potentially endanger human health or the environment during this time period (January 1–June 30, 2014).

## PRECIPITATION

Within the watershed, 4 precipitation gages monitor and report precipitation activity during the field season. These gages and their activity levels from January 1–June 30, 2014, are shown in Table 1. There were 5 measurable storm events (an event with precipitation intensity of 0.25 in. within 30 min).

### Adverse Weather

No adverse weather events affected IP activities.

## MONITORING

### Samplers Activated

Thirty-seven samplers were activated at the beginning of this field sampling season (April 1, 2014)

**Table 1**  
**Precipitation Activity for**  
**January 1–June 30, 2014**

Rain Gage	Related SMAs	Measurable Storm Events	Storm Event Inspections Conducted
RG253	8	None	0
RG257	27	05/23/2014	27
RG262.4	12	05/23/2014 06/07/2014 06/21/2014	12 12 12
RG267.4	3	06/21/2014	3

### **Samples Collected**

No confirmation samples were collected during the reporting period.

### **Sampler Placement**

Samplers associated with monitoring locations for Sites were placed in accordance with coordinate locations provided in the Site Discharge Pollution Prevention Plan, Revision 1, Volume 4 (SDPPP, R1, V4).

## **INSPECTION AND MAINTENANCE**

### **Post-Storm Inspections**

Sixty-six post-storm inspections were required for the Sites because of the 5 measurable storm events that were observed during the reporting period.

### **Visual Inspections**

No visual inspections were required to be conducted during the reporting period.

### **Significant Event Inspections**

No significant event that could impact control measures and environmental conditions occurred that required a Site to be reevaluated and inspected under Part I.G.1 of the IP.

### **Annual Erosion Inspections**

Annual erosion reevaluation inspections were conducted at all 50 SMAs as required under Part I.G.1 of the IP.

### **Construction Inspection**

No construction inspections were conducted.

### **Control Maintenance**

Twenty-three control maintenance activities were conducted.

## **CORRECTIVE ACTION**

### **Augmented Control Installations**

Additional controls were installed at 5 SMAs and are presented in Appendix A. The additional controls were installed at these Sites to “augment” baseline controls; these Sites are not in corrective action because monitoring has not shown a target action level (TAL) exceedance.

### Baseline Control Replacements

Baseline control replacements were completed at 1 SMA and are presented in Appendix A.

The purpose of a control replacement is to maintain or upgrade the existing certified baseline controls at an SMA.

### Enhanced Control Installations

When a sample that exceeds TALs is collected from an SMA, the associated Sites advance to corrective action. One of the corrective action options is to construct enhanced controls. No enhanced controls were installed at any SMAs.

When all the enhanced controls are installed, a certification of the installed controls is submitted to the U.S. Environmental Protection Agency (EPA) and New Mexico Environment Department (NMED) and is made available on the IP website. There were 4 enhanced control certifications completed during the reporting period.

- CDV-SMA-1.4 on May 12, 2014
- CDV-SMA-2.41, PT-SMA-1.7, and F-SMA-2 on June 27, 2014

## COMPLIANCE STATUS

### Baseline Confirmation Complete

Baseline confirmation monitoring was completed on September 12, 2013, for CDV-SMA 1.2 [2 associated Sites: 16-017(b)-99 and 16-029(k)]; on July 26, 2013, for CDV-SMA-2.5 [3 associated sites: 16-010(k), 16-010(c), and 16-010(d)]; and on September 13, 2013, for W-SMA-9.05 [1 associated site: 16-030(g)]. No TAL exceedances were observed per Part I.D.4 (b) of the IP. For this reason, corrective action is not required for these Sites, and monitoring is no longer required for the duration of the IP.

### Baseline Monitoring Extended

As of June 30, 2014, baseline monitoring is continuing at 18 SMAs (27 Sites). A confirmation monitoring sample has not been collected at these SMAs. Baseline monitoring will be extended under the IP until analytical results have been received from the first confirmation sample collected.

### Compliance Status Categories

Compliance status is tracked for each Site throughout the year. The categories used for tracking include the following:

- *Baseline Confirmation Complete*—All confirmation monitoring results for all pollutants of concern at the SMA are at or below TALs, and corrective action is not required at the Sites. No further sampling is required.
- *Baseline Monitoring Extended*—Baseline confirmation monitoring is in progress, and no storm water from a measurable storm event has been collected. There has been no TAL exceedance.
- *Corrective Action Initiated*—A sample was collected during baseline confirmation monitoring, and analytical results show at least one pollutant concentration is above TALs, resulting in initiation of corrective action. Corrective action may include
  - ❖ installing enhanced control measures,
  - ❖ installing control measures that totally retain storm water,
  - ❖ installing control measures that totally eliminate the exposure of pollutants, or
  - ❖ receiving a Certificate of Completion from NMED.
- *Enhanced Control Corrective Action Monitoring*—Confirmation monitoring at an SMA is initiated to determine how well enhanced controls are performing. This monitoring occurs after certification that the enhanced control measures have been installed and are complete.
- *Corrective Action Complete*—Completion of corrective action is demonstrated by one of the following:
  - a. Analytical results from enhanced control monitoring show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable TALs.
  - b. Control measures that totally retain and prevent the discharge of storm water have been installed at the Site.
  - c. Control measures that totally eliminate exposure of pollutants to storm water have been installed at the Site.
  - d. The Site has achieved Resource Conservation and Recovery Act “no further action” status or a Certificate of Completion from NMED.

### **Corrective Action Initiated, Planning Started**

As of June 30, 2014, corrective action has been initiated at 10 SMAs (23 Sites). See Appendix B for a list of these SMAs and associated Sites.

### **Enhanced Control Corrective Action Monitoring**

As of June 30, 2014, enhanced control corrective action monitoring has started at 19 SMAs (36 Sites).

### **Corrective Action Complete**

As of June 30, 2014, no Site has been issued a Certificate of Completion under the Consent Order.

### **DOCUMENTS SUBMITTED**

From January 1–June 30, 2014, four new IP Program documents were submitted to EPA Region 6.

- 2013 Storm Water Individual Permit Annual Report, March 1, 2014
- 2013 Storm Water Individual Permit Compliance Status Reports (discharge monitoring reports), March 1, 2014
- Storm Water Individual Permit Renewal Application, March 27, 2014
- Updates to the SDPPP, R1, Volumes 1–5, May 1, 2014

IP documents submitted in 2014 can be found on the IP website at <http://www.lanl.gov/community-environment/environmental-stewardship/protection/compliance/individual-permit-stormwater/index.php>.

**APPENDIX A**  
**Additional Controls Installed between January 1–June 30, 2014**

Site Monitoring Area	Control Description	Install Date	Control Category
CDV-SMA-2.3	V00706010024 Rock Check Dam	06/25/2014	Additional Control
	V00706010025 Rock Check Dam		
CDV-SMA-2.5	V00906010037 Rock Check Dam	06/25/2014	Additional Control
	V00906010037 Rock Check Dam	06/25/2014	Replaced Baseline Control
PT-SMA-0.5	I00104030012 Rock Channel/Swale	03/27/2014	Additional Control
PT-SMA-4.2	I00703120009 Rock Berm	05/12/2014	Additional Control
W-SMA-9.7	W01503060015 Straw Wattles	06/12/2014	Additional Control

**APPENDIX B**  
**Corrective Action Status for Site Monitoring Areas and**  
**Sites as of June 30, 2014 within the Water/Cañon de Valle Watershed**

Site Monitoring Area	Site	Corrective Action Status*
CDV-SMA-1.3	16-017(a)-99 16-026(m)	CAI
CDV-SMA-1.4	16-020 16-026(l) 16-028(c)	CAM5
	16-030(c)	CACompD
CDV-SMA-1.45	16-026(i)	CAM5
CDV-SMA-1.7	16-019	CAI
CDV-SMA-2	16-021(c)	CAI
CDV-SMA-2.41	16-018	CAM5
CDV-SMA-2.42	16-010(b)	CAI
CDV-SMA-2.51	16-010(i)	CAI
CDV-SMA-3	14-009	CAM5
CDV-SMA-6.02	14-002(c) 14-002(d) 14-002(e)	CAM5
CDV-SMA-7	15-008(d)	CAI
F-SMA-2	36-004(c)	CAM5
PT-SMA-0.5	C-15-004 15-009(e)	CAM5
PT-SMA-1	15-004(f) 15-008(a)	CAM5
PT-SMA-1.7	15-006(a)	CAM5
PT-SMA-2.01	C-36-001 C-36-006(e)	CAM5
W-SMA-1	16-017(j)-99 16-026(c2) 16-026(v)	CAM5
W-SMA-1.5	16-026(b2) 16-028(d)	CAM5
W-SMA-2.05	16-028(e)	CAM5
W-SMA-5	16-001(e) 16-003(f) 16-026(b) 16-026(c) 16-026(d) 16-026(e)	CAI
W-SMA-8	16-016(g) 16-028(b)	CAI



Site Monitoring Area	Site	Corrective Action Status*
W-SMA-8.7	13-001 13-002 16-004(a) 16-026(2) 16-029(h) 16-035	CAI
W-SMA-8.71	16-004(c)	CAM5
W-SMA-9.7	11-011(a) 11-011(b)	CAI
W-SMA-9.9	11-006(b)	CAM5
W-SMA-10	11-002 11-003(b) 11-005(a) 11-005(b) 11-006(c) 11-006(d) 11-011(d)	CAM5
W-SMA-11.7	49-008(c)	CAM5
W-SMA-14.1	15-004(h) 15-014(l)	CAM5
W-SMA-15.1	49-005(a)	CAM5

\*CACompD = Corrective action complete, subpart d: From the Individual Permit for Storm Water (IP), Part I.E.2(d)—A Site has achieved Resource Conservation and Recovery Act “corrective action complete” status or a Certificate of Completion under the Compliance Order on Consent. Collect no sample.

CAI = Corrective action initiated, and CAI2 = second corrective action initiated. From the IP, Part I.E.1(a)—Baseline or enhanced control confirmation monitoring has exceeded a target action level, and the corrective action response is being planned.

CAM3 and CAM5 = Enhanced control corrective action monitoring. From the IP, Part I.E.4(a)(b)—Collect one or more samples after completion of corrective action control measures at moderate priority sites within 5 yr (CAM5) or at high priority sites within 3 yr (CAM3) of effective date of permit.