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Title: **Status Report, Sandia/Mortandad Watershed
January 1–June 30, 2013**

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Intended for: Public

Purpose: This Status Report has been prepared to facilitate public review of activities under the Individual Storm Water Permit (National Pollutant Discharge Elimination System Permit No. NM0030759) (IP). This report, not required by the IP, updates the 2012 Annual Report (published on March 1, 2013). 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

**Sandia/Mortandad Watershed
January 1–June 30, 2013**

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



OVERVIEW

Los Alamos National Security, LLC, under the direction of the National Nuclear Security Administration, has prepared this Status Report to facilitate public review of activities under the Individual Storm Water Permit (National Pollutant Discharge Elimination System Permit No. NM0030759) (IP). This report, not required by the IP, updates the 2012 Annual Report published on March 1, 2013. Further, for the January 1–June 30, 2013, 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.” A second report will be prepared that summarizes these activities from July 1–December 30, 2013. Both reports will be available on Los Alamos National 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) map format has been updated to make the maps easier to understand and to provide more information, such as the location of established vegetation. The updated 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 Sandia/Mortandad watershed, 119 Sites are monitored at 64 SMAs. Highlights of the work performed from January 1–June 30, 2013, include the following:

- Additional controls were installed at 59 SMAs, and augmented controls were installed at 6 SMAs. Baseline control replacements were completed at 58 SMAs, and enhanced controls were installed as corrective action measures at 3 SMAs.
- Fifty-five samplers were activated. There were three measureable storm events, and three confirmation samples were collected. No storm event inspections were completed during the reporting period.
- As of June 30, baseline monitoring is continuing at 45 SMAs, and corrective action was initiated at 19 SMAs (38 Sites). Five Sites have been issued Certificates of Completion under the Compliance Order on Consent (the Consent Order).
- There were no incidents of noncompliance that could potentially endanger human health or the environment during this time period (January 1–June 30, 2013).

PRECIPITATION

Within the watershed, seven precipitation gages monitor and report precipitation activity during the field season. These gages and their activity levels from January 1–June 30, 2013, are shown in Table 1. There were three measurable storm events (an event with precipitation intensity of 0.25 in. within 30 min).

Adverse Weather

Severe fire hazard conditions resulted in a stand-down of field activities that occurred from June 24 to July 8, 2013, preventing field crews from accessing most SMA locations.

Table 1
Precipitation Activity for
January 1–June 30, 2013

Rain Gage	Related SMAs	Measurable Storm Events	Storm Event Inspections Conducted
RG-TA-06	2	None	0
RG-TA-53	5	None	0
RG-TA-54	1	06/28/13	0
RG121.9	13	None	0
RG200.5	23	06/30/13	0
RG203	12	06/30/13	0
RG245.5	8	None	0

MONITORING

Samplers Activated

Fifty-five samplers were activated at the beginning of this field season (April 1, 2013).

Samples Collected

Two enhanced control corrective action monitoring confirmation samples were collected during the reporting period. The first sample was collected at M-SMA-1 on June 14, 2013; the second sample was collected at S-SMA-3.6 on June 14, 2013; and a baseline monitoring extended sample was collected at M-SMA-10 on June 30, 2013.

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 2, (SDPPP, R1, V2).

INSPECTION AND MAINTENANCE

Post-Storm Inspections

No post-storm inspections were required to be conducted during the reporting period.

Visual Inspections

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

Significant Event Inspections

No significant events that could impact the 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 64 SMAs as required under Part I.G.1 of the IP.

Construction Inspections

Construction inspections were conducted at 2 SMAs.

Control Maintenance

Nine control maintenance activities were conducted.

CORRECTIVE ACTION

Augmented Control Installations

Additional controls were installed at 6 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 58 SMAs 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, associated Sites advance to corrective action. One of the corrective action options is to construct enhanced controls.

When all the enhanced controls are installed, a certification of the installed controls will be submitted to the U.S. Environmental Protection Agency (EPA) and New Mexico Environment Department (NMED) and will be made available on the IP website. Enhanced controls were certified at 2 SMAs:

- S-SMA-3.53 on May 2, 2013
- M-SMA-1.22 on May 2, 2013

COMPLIANCE STATUS

Baseline Confirmation Complete

No SMAs have successfully completed baseline monitoring; therefore, corrective action is required at each of the associated Sites.

Baseline Monitoring Extended

As of June 30, 2013, baseline monitoring is continuing at 45 SMAs (92 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 a 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:
 1. Analytical results from enhanced control monitoring show pollutant concentrations for all pollutants of concern at the Site to be at or below applicable TALs.
 2. Control measures that totally retain and prevent the discharge of storm water have been installed at the Site.
 3. Control measures that totally eliminate exposure of pollutants to storm water have been installed at the Site.
 4. 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, 2013, corrective action has been initiated at 19 SMAs (33 Sites). See Appendix B for a list of these Sites and associated SMAs.

Enhanced Control Corrective Action Monitoring

As of June 30, 2013, enhanced control corrective action monitoring has started at 10 SMAs (18 Sites).

Corrective Action Complete

Five Sites were issued a Certificate of Completion under the Consent Order and have completed corrective action and are presented in Appendix B. Documentation certifying completion of corrective action for these Sites will be submitted to EPA.

DOCUMENTS SUBMITTED

From January 1–June 30, 2013, three IP Program documents were submitted to EPA Region 6 and are listed below.

- 2012 Storm Water Individual Permit Annual Report, March 1, 2013
- 2012 Storm Water Individual Permit Compliance Status Reports (Discharge Monitoring Reports), March 1, 2013
- Updates to the SDPPP, R1, Volumes 1–5, May 1, 2013

IP documents submitted in 2013 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 and
Baseline Controls Replaced between January 1–June 30, 2013

Site Monitoring Area	Control Description	Install Date	Control Category
S-SMA-0.25	S00102040011 Established Vegetation	05/08/2013	Replaced Baseline Control
S-SMA-2	S00302040022 Established Vegetation	05/08/2013	Replaced Baseline Control
S-SMA-2.01	S003A02040009 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-2.8	S00402040008 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.51	S00502040013 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.52	S005A02040005 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.53	S005B01010010 Seed and Wood Mulch	05/16/2013	Additional Control
	S005B02040009 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.6	S00603110027 Eco-Block	04/26/2013	Additional Control
	S00607020024 Gabion Blanket	04/26/2013	
	S00607020025 Gabion Blanket	04/26/2013	
	S00607010026 Gabions	04/26/2013	
	S00604060028 Rip Rap	04/26/2013	
	S00604060029 Rip Rap	04/26/2013	
	S00606010022 Rock Check Dam	04/26/2013	
	S00606010023 Rock Check Dam	04/26/2013	
	S00602040021 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.7	S00702040006 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.71	S00802040015 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.72	S00902040011 Established Vegetation	04/26/2013	Replaced Baseline Control
S-SMA-3.95	S01002040007 Established Vegetation	05/02/2013	Replaced Baseline Control

Site Monitoring Area	Control Description	Install Date	Control Category
S-SMA-4.5	S01202040007 Established Vegetation	05/02/2013	Replaced Baseline Control
S-SMA-5	S01302040007 Established Vegetation	05/02/2013	Replaced Baseline Control
S-SMA-5.2	S01402040016 Established Vegetation	05/02/2013	Replaced Baseline Control
S-SMA-5.5	S01502040005 Established Vegetation	05/02/2013	Replaced Baseline Control
S-SMA-6	S01602040012 Established Vegetation	05/08/2013	Replaced Baseline Control
CDB-SMA-0.15	C00102040015 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-0.25	C00202040019 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-0.55	C00302040021 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-1	C00402040015 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-1.15	C00502040011 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-1.35	C00602040010 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-1.54	C00702040020 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-1.55	C00802040012 Established Vegetation	05/02/2013	Replaced Baseline Control
CDB-SMA-4	C01002040012 Established Vegetation	05/16/2013	Replaced Baseline Control
M-SMA-1	M00102040009 Established Vegetation	04/04/2013	Replaced Baseline Control
M-SMA-1.2	M00202040009 Established Vegetation	04/04/2013	Replaced Baseline Control
M-SMA-1.21	M002A02040007 Established Vegetation	04/04/2013	Replaced Baseline Control
M-SMA-1.22	M002B01010015 Seed and Wood Mulch	04/04/2013	Additional Control
	M002B02040014 Established Vegetation	04/04/2013	Replaced Baseline Control
M-SMA-3	M00302040013 Established Vegetation	04/29/2013	Replaced Baseline Control
M-SMA-3.1	M00402040007 Established Vegetation	04/29/2013	Replaced Baseline Control
M-SMA-3.5	M00502040018 Established Vegetation	04/29/2013	Replaced Baseline Control
M-SMA-4	M00602040014 Established Vegetation	04/29/2013	Replaced Baseline Control

Site Monitoring Area	Control Description	Install Date	Control Category
M-SMA-5	M00702040016 Established Vegetation	05/15/2013	Replaced Baseline Control
M-SMA-6	M00804060025 Rip Rap	04/30/2013	Additional Control
	M00802040024 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-7	M00902040009 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-7.9	M01002040013 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-9.1	M01102040007 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-10	M01202040012 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-10.01	M012A02040008 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-10.3	M01302040014 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-11.1	M01402040008 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-12	M01502040008 Established Vegetation	04/30/2013	Replaced Baseline Control
M-SMA-12.5	M01602040012 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-12.6	M01702040014 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-12.7	M01802040012 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-12.8	M01902040010 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-12.9	M02006020013 Log Check Dam	05/01/2013	Additional Control
	M02002040012 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-12.92	M02102040005 Established Vegetation	05/01/2013	Replaced Baseline Control
M-SMA-13	M02202040014 Established Vegetation	05/01/2013	Replaced Baseline Control
PRATT-SMA-1.05	T00102040020 Established Vegetation	04/30/2013	Replaced Baseline Control
T-SMA-2.85	T00402040007 Established Vegetation	04/30/2013	Replaced Baseline Control
T-SMA-3	T00502040012 Established Vegetation	04/30/2013	Replaced Baseline Control
T-SMA-4	T00602040011 Established Vegetation	04/30/2013	Replaced Baseline Control

Site Monitoring Area	Control Description	Install Date	Control Category
T-SMA-5	T00702040012 Established Vegetation	04/30/2013	Replaced Baseline Control
T-SMA-6.8	T00801060004 Erosion Control Blanket	05/04/2013	Additional Control
T-SMA-7	T00902040011 Established Vegetation	05/01/2013	Replaced Baseline Control
T-SMA-7.1	T01002040009 Established Vegetation	05/01/2013	Replaced Baseline Control

APPENDIX B
Corrective Action Status for Site Monitoring Areas and
Sites as of June 30, 2013, within the Sandia/Mortandad Watershed

Site Monitoring Area	Site	Corrective Action Status*
CDB-SMA-0.25	46-004(c2)	CAM5
	46-004(e2)	
CDB-SMA-1	46-003(c)	CAM5
	46-004(d2)	
	46-004(f)	
	46-004(t)	
	46-004(w)	
	46-008(g)	
	46-009(a)	
	C-46-001	CACompD
M-SMA-1	03-050(a) 03-054(e)	CAM5
M-SMA-1.22	03-045(h)	CAM5
M-SMA-4	48-001	CACompD
	48-005	CAI
	48-007(a) 48-007(d)	CACompD
	48-010	CAI
M-SMA-6	35-016(h)	CAI
M-SMA-7	36-016(g)	CAI
M-SMA-10.01	35-016(e)	CAM5
M-SMA-10.3	35-014(e2)	CAI
	35-016(i)	
S-SMA-0.25	03-013(a)	CAI
	03-052(f)	
S-SMA-1.1	03-029	CAM3
S-SMA-2	03-012(b) 03-045(b) 03-045(c)	CAI
	03-056(c)	
S-SMA-2.01	03-052(b)	CAM3
S-SMA-3.53	03-014(b2)	CAM3
S-SMA-3.6	60-007(b)	CAM3
S-SMA-4.1	53-014	CAM3
S-SMA-6	72-001	CAI

Site Monitoring Area	Site	Corrective Action Status*
T-SMA-1	50-006(a) 50-009	CAI
T-SMA-3	35-016(b)	CAI

* CAM3 and CAM5: From the Individual Storm Water Permit (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 or at high priority sites within 3 yr of effective date of permit.

CAI and CAI2: 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.

CACompD: From the 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.