

# **STATUS REPORT**

## **NPDES PERMIT No. NM0030759**

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### **SITE DISCHARGE POLLUTION PREVENTION PLAN VOLUME 2**

### **SANDIA/MORTANDAD WATERSHED AGGREGATE**



**Reporting Period: April 1, 2011 – June 30, 2011**

LA-UR-11-11471

## I. OVERVIEW

The Status Report for the Individual Permit (STRIP) summarizes work conducted at Sites permitted and reported in the Site Discharge Pollution Prevention Plan, Volume 2 (V2 SDPPP), Sandia/Mortandad Watershed Aggregate area and is prepared in partial fulfillment of requirements set forth in NPDES Permit No. NM0030759 (IP or Permit). The V2 STRIP is one of five documents summarizing ongoing activities that will be reflected in the annual update to the V2 SDPPP. Within the V2 SDPPP, there are 119 Sites monitored in 64 Permitted Features.

On June 26, 2011 the Las Conchas Fire started northwest of the Laboratory. The wildfire burned over 150,000 acres of New Mexico forest ultimately becoming the largest forest fire in the state's history. Impacts from the Las Conchas fire were primarily north of the monitored areas in the watershed. Within this aggregate area, none of the watershed was burned.

## II. CONTROL ACTIVITIES

### BASELINE COMPLETIONS

All baseline control measures associated with the V2 SDPPP have been installed and certified in accordance with Part 1.A requirements of the IP. These certification documents were prepared and submitted as control installations were completed.

### PREVENTATIVE MAINTENANCE INSPECTIONS

Following the completion of control installations and the certification of this work, preventative maintenance inspections (PMIs) were conducted in preparation for the 2011 season. These inspections were voluntary inspections conducted prior to the significant

precipitation typically experienced in the latter months of the field season.

PMIs conducted, associated reference numbers, and related maintenance actions, as applicable, are summarized in sections below.

### PREVENTATIVE MAINTENANCE INSPECTIONS CONDUCTED

In the V2 STRIP, 25 PMI inspections have been conducted for the reporting period. Appendix A provides the summary details of these inspections, inspection findings, and the corresponding reference numbers for the individual inspection reports.

### PREVENTATIVE REPAIR AND REPLACEMENT

Of the 25 PMI's conducted, 5 inspections noted repair or replacement needed.

### ADDITIONAL CONTROL INSTALLATIONS

Based on the results of early informal field reviews, additional controls have been installed at 13 SMAs within the V2 STRIP.

Table II.A Additional Controls at Sites in V2 STRIP

SMA	Additional Control	Install Date
S-SMA-1.1	03120010 rock berm	4/28/2011
	03120011 rock berm	
S-SMA-5	03010006 earthen berm	5/20/2011
S-SMA-6	03010006 earthen berm	4/28/2011
	03010007 earthen berm	
	03010008 earthen berm	
	03010009 earthen berm	
	03010010 earthen berm	
	03010011 earthen berm	
CDB-SMA-1.54	03010019 earthen berm	4/28/2011
M-SMA-3	05020012 sediment basin	4/28/2011
M-SMA-3.5	03010016 earthen berm	5/9/2011
	03010017 earthen berm	
M-SMA-6	06010017 rock check dam	4/28/2011
	06010018 rock check dam	
	06010019 rock check dam	
	06010020 rock check dam	
M-SMA-7.9	03010012 earthen berm	5/9/2011
M-SMA-10.3	03100013 gravel bags	4/12/2011

SMA	Additional Control	Install Date
M-SMA-12.5	03010009 earthen berm	6/15/2011
	03010010 earthen berm	
	03010011 earthen berm	
M-SMA-12.6	03010010 earthen berm	6/15/2011
	03010011 earthen berm	
T-SMA-7	03010009 earthen berm	6/15/2011
	03010010 earthen berm	
T-SMA-7.1	03010007 earthen berm	6/15/2011
	03010008 earthen berm	

**CORRECTIVE ACTION PLANNING**

Planning for corrective action responses have begun at all high priority Sites within the V2 STRIP.

**ADVERSE WEATHER**

As described in the introduction, an adverse weather event occurred beginning Sunday, June 26, 2011. All work associated with the IP project was interrupted from June 27 through July 7, 2011 due to the Las Conchas fire. This event mandated the evacuation of Los Alamos and prompted the subsequent closure of the Laboratory. Work resumed at the Laboratory on July 7 although many areas were still inaccessible due to the proximity of the fire.

**III. CONFIRMATION ACTIVITIES**

**PRECIPITATION**

During the field season (April 1 – November 30), the IP project monitors precipitation through a network of 17 rain gages mapped to specific areas across the Complex. Within the V2 STRIP, 7 precipitation gages monitor and report precipitation activity. These gages and the activity for the reporting period are shown in the table below. For the reporting period, there were no qualifying storm events or events with precipitation intensity of 0.25” in thirty minutes.

**Table III.A Precipitation Activity for Reporting Period**

Precipitation Gage	Associated SMAs	Qualifying Storm Events	Storm Event Inspections Conducted
RG-TA-06	2	0	0
RG-TA-53	5	0	0
RG-TA-54	1	0	0
RG121.9	13	0	0
RG200.5	23	0	0
RG203	12	0	0
RG245.5	8	0	0

**STORM EVENT INSPECTIONS**

No storm-event inspections have been required or conducted in the V2 STRIP aggregate area through the period ending June 30, 2011.

**VISUAL INSPECTIONS**

No Visual Inspections have been required or conducted at Sites/SMAs within the V2 STRIP for the reporting period.

**SAMPLER PLACEMENT**

All 64 samplers associated with monitoring locations for Sites in this STRIP have been placed in accordance with coordinate locations provided in the V2 SDPPP. As described in Section 700.2 of the SDPPP, minor adjustments were made to samplers at S-SMA-4.5, S-SMA-5.5, and M-SMA-6. Minor adjustments were also made to sampler S-SMA-5 post publication. Within the V2 STRIP, nine samplers had incorrect Y-coordinate data published in the SDPPP. These SMAs are noted and corrected values are provided in Appendix B of this report.

2011 sampler-location data and activation dates are provided in Appendix B for

clarity. Except as noted above; samplers are located consistent with the locational data provided in the Permit and the SDPPP.

**SAMPLERS ACTIVATED**

Samplers within this aggregate area have been activated and are ready for sample collection. Sixty-one (61) samplers were activated in the second quarter of the calendar year at SMAs within the V2 STRIP.

**SAMPLES COLLECTED**

No confirmation samples have been collected at Sites/SMAs within the V2 STRIP for the reporting period.

**IV. CERTIFICATION ACTIVITIES**

**BASELINE CERTIFICATIONS**

Baseline controls for all Sites monitored in SMAs in the V2 SDPPP have been installed and certified. A crosswalk of these certifications and the relevant documents are provided in Table IV.A, below. Certification documents have been posted to the public reading room (<http://www.lanl.gov/environment/h2o/ip.shtml?2>) and a summary of certification documents relevant to Sites in V2 SDPPP are also provided in Part IV, Certification Activities of this STRIP.

**Table IV.A Baseline Certifications in V2 STRIP**

Baseline Certification Documents	Document Title	Document Date
<a href="#">LA-UR-10-07681</a>	Certification of baseline control measures completion for 63 site monitoring areas	12/1/2010
<a href="#">LA-UR-10-08294</a>	Certification of baseline control measures completion for 65 site monitoring areas	12/16/2010
<a href="#">LA-UR-11-00114</a>	Certification of baseline control measures completion for 57 site monitoring areas	1/12/2011
<a href="#">LA-UR-11-00912</a>	Certification of baseline control measures completion for 26 site monitoring areas	2/11/2011
<a href="#">LA-UR-11-10500</a>	Certification of baseline control measures completion for 21 site monitoring areas	4/27/2011
<a href="#">LA-UR-11-10593</a>	Certification of completion of baseline control measures for 18 site monitoring areas	5/16/2011

**CERTIFICATES OF COMPLETION UNDER NMED CONSENT ORDER**

Sites monitored under the IP are in some stage of investigation under the Consent Order issued by the New Mexico Environment Department (NMED). At the conclusion of extensive investigation, and/or remediation, and reporting, the NMED issues a Certificate of Completion of Corrective Action under the Consent Order. Sites that have received such certifications from NMED have been thoroughly investigated and have met the standards set by the collective parties under this agreement.

A Certificate of Completion under the Consent Order has been issued by the

New Mexico Environment Department for Site listed in the table below. This certificate is pending certification in the 2011 Annual Report.

**Table IV.B Certificates of Completion for Sites in V2 STRIP**

Site	NMED Document
03-056(c)	Certificates of Completion Upper Sandia Canyon Aggregate Area Los Alamos National Laboratory, HWB-LANL-10-099

the V2 STRIP as provided in the [Individual Permit Annual Report](#).

These Sites will continue to be monitored according to the requirements specified in the Permit until the Sites can be formally petitioned for removal from the IP.

#### **DELETION FROM PERMIT**

Currently there are no Sites/SMAs meeting the criteria for deletion from the Permit.

#### **COMPLETION OF CORRECTIVE ACTION**

Completions of corrective action under NMED's Consent Order were certified pursuant to Part 1.E.2 (d) for 3 Sites within

# **APPENDIX A**

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## **PREVENTATIVE MAINTENANCE INSPECTION SUMMARY**

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
CDB-SMA-0.15	6/20/11	All Controls Operating Effectively	BMP-13835	None	Not Applicable	None
CDB-SMA-0.25	6/20/11	Seed and mulch requested	BMP-13837	Applied seed and mulch	7/12/11	BMP-14151
CDB-SMA-0.55	6/20/11	All Controls Operating Effectively	BMP-13838	None	Not Applicable	None
CDB-SMA-1	6/20/11	All Controls Operating Effectively	BMP-13836	None	Not Applicable	None
CDB-SMA-1.15	6/20/11	All Controls Operating Effectively	BMP-13839	None	Not Applicable	None
CDB-SMA-1.35	6/20/11	All Controls Operating Effectively	BMP-13840	None	Not Applicable	None
CDB-SMA-1.54	6/20/11	All Controls Operating Effectively	BMP-13848	None	Not Applicable	None
CDB-SMA-1.55	6/20/11	All Controls Operating Effectively	BMP-13841	None	Not Applicable	None
CDB-SMA-1.65	6/20/11	All Controls Operating Effectively	BMP-13842	None	Not Applicable	None
M-SMA-3	6/22/11	All Controls Operating Effectively	BMP-13925	None	Not Applicable	None
M-SMA-3.1	6/22/11	All Controls Operating Effectively	BMP-13926	None	Not Applicable	None
M-SMA-3.5	6/22/11	All Controls Operating Effectively	BMP-13927	None	Not Applicable	None
M-SMA-4	6/22/11	All Controls Operating Effectively	BMP-13928	None	Not Applicable	None
M-SMA-12	6/21/11	All Controls Operating Effectively	BMP-13918	None	Not Applicable	None
M-SMA-12.5	6/23/11	Replace grasses and shrubs M01602010001, repair/replace seed & mulch M01601010006, map modification to M01603060002 and M01603060005	BMP-13919	Retired seed & mulch M01601010006, installed hydromulch M01601030011	7/28/11	CCN-13783
M-SMA-12.6	6/23/11	Replace seed & mulch M01701010004 and grasses and shrubs M01702010001	BMP-13920	Retire seed & mulch M01701010004, install hydromulch M01701030011	6/15/11	CCN-13784
M-SMA-12.7	6/23/11	Replace Wattle M01803060007 and log check dam M01806020009	BMP-13921	Replaced wattle M01803060007	7/13/11	BMP-14279
M-SMA-12.8	6/23/11	Replace Wattles M01903060004, -0006,-0007	BMP-13932	Replaced wattle M01903060004	7/13/11	BMP-14282
M-SMA-12.9	6/23/11	All Controls Operating Effectively	BMP-13933	None	Not Applicable	None
M-SMA-12.92	6/23/11	All Controls Operating Effectively	BMP-13934	None	Not Applicable	None
PRATT-SMA-1.05	6/21/11	All Controls Operating Effectively	BMP-14034	None	Not Applicable	None
T-SMA-1	6/20/11	All Controls Operating Effectively	BMP-14006	None	Not Applicable	None



SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
T-SMA-6.8	6/21/11	All Controls Operating Effectively	BMP-14000	None	Not Applicable	None
T-SMA-7	6/21/11	All Controls Operating Effectively	BMP-13999	None	Not Applicable	None
T-SMA-7.1	6/21/11	Map modification to T01003060003 and-0004	BMP-13998	Spatial correction noted for project map	Not Applicable	None



## **APPENDIX B**

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### **2011 SAMPLER LOCATIONS AND ACTIVATION DATES**

SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (US Survey Ft.)	NMSP (US Survey Ft.)	Sampler No.	Activation Date
S-SMA-0.25	35.87622788	-106.3223002	1618998	1774220	SS091601	5/6/2011
S-SMA-1.1	35.87569059	-106.3180707	1620251	1774023	SS101622	5/6/2011
S-SMA-2 <sup>1</sup>	35.87516968	-106.3184955	1620125	1773834	SS101626	5/6/2011
S-SMA-2.01	35.87294282	-106.3175840	1620394	1773023	SS091602	7/7/2011
S-SMA-2.8	35.87493226	-106.3167785	1620634	1773747	SS091621	6/2/2011
S-SMA-3.51	35.87351912	-106.3161544	1620818	1773232	SS091603	5/6/2011
S-SMA-3.52	35.87384827	-106.3164130	1620742	1773352	SS091604	5/6/2011
S-SMA-3.53	35.87530368	-106.3159717	1620873	1773882	SS091605	5/6/2011
S-SMA-3.6	35.87348462	-106.3128705	1621791	1773219	SS12255	5/25/2011
S-SMA-3.7	35.86828957	-106.2744454	1633174	1771323	SS091620	6/6/2011
S-SMA-3.71	35.86907518	-106.2739532	1633320	1771609	SS091610	5/26/2011
S-SMA-3.72	35.86804423	-106.2740735	1633284	1771234	SS091611	5/26/2011
S-SMA-3.95	35.86535807	-106.2638444	1636315	1770255	SS091606	5/26/2011
S-SMA-4.1	35.86750034	-106.2620619	1636843	1771035	SS101623	5/6/2011
S-SMA-4.5 <sup>3</sup>	35.86394938	-106.2601048	1637423	1769742	SS101624	6/6/2011
S-SMA-5 <sup>2</sup>	35.86375546	-106.2578407	1638094	1769672	SS111627	5/6/2011
S-SMA-5.2	35.86407209	-106.2573093	1638251	1769787	SS101625	6/6/2011
S-SMA-5.5 <sup>3</sup>	35.86301075	-106.2553901	1638820	1769401	SS091619	5/26/2011
S-SMA-6 <sup>1</sup>	35.86355835	-106.2450460	1641884	1769600	SS1248	5/6/2011
CDB-SMA-0.15	35.85981720	-106.2919882	1627975	1768241	SS091310	5/26/2011
CDB-SMA-0.25	35.85561336	-106.2813490	1631127	1766710	SS091311	7/13/2011
CDB-SMA-0.55	35.85548349	-106.2808256	1631282	1766662	SS091312	5/25/2011
CDB-SMA-1	35.85292557	-106.2797021	1631615	1765731	SS2185	5/26/2011
CDB-SMA-1.15	35.85533572	-106.2801765	1631475	1766608	SS091313	5/25/2011
CDB-SMA-1.35	35.85511383	-106.2794508	1631690	1766528	SS091314	5/25/2011
CDB-SMA-1.54	35.85518516	-106.2791732	1631772	1766553	SS091315	5/13/2011
CDB-SMA-1.55	35.85432769	-106.2786404	1631930	1766241	SS091316	6/2/2011
CDB-SMA-1.65	35.85356145	-106.2784955	1631973	1765962	SS091309	6/2/2011
CDB-SMA-4	35.83288526	-106.2394436	1643546	1758435	SS101317	5/26/2011
M-SMA-1 <sup>1</sup>	35.87026297	-106.3192767	1619892	1772048	SS198	5/25/2011
M-SMA-1.2	35.86991498	-106.3164833	1620720	1771920	SS091202	6/1/2011
M-SMA-1.21	35.87068981	-106.3172145	1620503	1772203	SS091227	6/1/2011
M-SMA-1.22	35.87062622	-106.3180650	1620251	1772180	SS091228	6/2/2011
M-SMA-3 <sup>1</sup>	35.86688404	-106.3065646	1623658	1770815	SS1985	5/25/2011
M-SMA-3.1	35.86693844	-106.3060339	1623815	1770835	SS192	5/25/2011
M-SMA-3.5	35.86692806	-106.3047109	1624207	1770831	SS193	5/6/2011
M-SMA-4 <sup>1</sup>	35.86550255	-106.3048678	1624160	1770312	SS1987	5/25/2011
M-SMA-5	35.86476770	-106.3007635	1625376	1770047	SS199	5/25/2011
M-SMA-6 <sup>3</sup>	35.86377142	-106.2974438	1626360	1769681	SS111234	5/25/2011
M-SMA-7	35.86431517	-106.2987554	1625971	1769879	SS1992	6/1/2011
M-SMA-7.9	35.86498569	-106.2983103	1626103	1770123	SS101230	5/6/2011

SMA	Latitude (decimal degrees)	Longitude (decimal degrees)	NMSP (US Survey Ft.)	NMSP (US Survey Ft.)	Sampler No.	Activation Date
M-SMA-9.1	35.86400893	-106.2950021	1627083	1769767	SS101231	6/6/2011
M-SMA-10	35.86451183	-106.2942578	1627304	1769950	SS2002	6/1/2011
M-SMA-10.01	35.86396802	-106.2939174	1627404	1769752	SS091229	6/6/2011
M-SMA-10.3	35.86464701	-106.2931664	1627627	1769999	SS20025	5/6/2011
M-SMA-11.1	35.86395555	-106.2906280	1628379	1769747	SS101232	6/6/2011
M-SMA-12 <sup>1</sup>	35.86355083	-106.2892487	1628788	1769600	SS2004	5/25/2011
M-SMA-12.5	35.85790580	-106.2767756	1632483	1767544	SS2055	6/23/2011
M-SMA-12.6	35.85771829	-106.2745014	1633157	1767475	SS2058	6/23/2011
M-SMA-12.7	35.85922371	-106.2706625	1634294	1768023	SS2023	6/2/2011
M-SMA-12.8	35.85918159	-106.2702264	1634423	1768007	SS2024	6/2/2011
M-SMA-12.9	35.85877185	-106.2692626	1634709	1767858	SS2032	6/2/2011
M-SMA-12.92 <sup>1</sup>	35.86086384	-106.2683632	1634976	1768620	SS101233	7/25/11
M-SMA-13	35.85706262	-106.2653910	1635856	1767235	SS205	5/25/2011
PRATT-SMA-1.05	35.86216835	-106.2873093	1629362	1769096	SS093401	5/6/2011
T-SMA-1	35.86148267	-106.2971021	1626460	1768847	SS093713	5/6/2011
T-SMA-2.5	35.86187900	-106.2945789	1627208	1768992	SS103715	6/1/2011
T-SMA-2.85	35.86206383	-106.2937027	1627468	1769059	SS093714	6/1/2011
T-SMA-3 <sup>1</sup>	35.86182247	-106.2931995	1627617	1768971	SS20134	6/1/2011
T-SMA-4 <sup>1</sup>	35.86167380	-106.2923139	1627879	1768917	SS20136	6/1/2011
T-SMA-5	35.86151009	-106.2915959	1628092	1768859	SS20138	6/1/2011
T-SMA-6.8	35.86164995	-106.2838229	1630395	1768907	SS103716	6/1/2011
T-SMA-7	35.86117766	-106.2829182	1630663	1768735	SS20143	6/21/2011
T-SMA-7.1	35.86094696	-106.2825671	1630767	1768651	SS103717	6/21/2011

<sup>1</sup> An error in the SDPPP publication of the Y-coordinates of these Sites was published in the SDPPP R0. The corrected coordinates are provided above and will be corrected in the R1 publication of the SDPPP.

<sup>2</sup> These samplers have had minor adjustments from the locations originally provided in the Permit as provided by Part I.D.2 of the Permit. These minor adjustments were made to collect more representative storm water samples from this area after the SDPPP R0 was published. These data will be updated in the SDPPP R1 publication.

<sup>3</sup> These samplers have had minor adjustments from the locations originally provided in the Permit as provided by Part I.D.2 of the Permit. These minor adjustments were made to collect more representative storm water samples from these areas and were published in SDPPP R0