

STATUS REPORT

NPDES PERMIT No. NM0030759

SITE DISCHARGE POLLUTION PREVENTION PLAN VOLUME 4

WATER/CAÑON DE VALLE WATERSHED AGGREGATE



Reporting Period: July 1, 2011 – July 31, 2011

LA-UR-11-11625

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 4 (V4 SDPPP), Water/Cañon de Valle Watershed Aggregate area and is prepared in partial fulfillment of requirements set forth in NPDES Permit No. NM0030759 (IP or Permit). The V4 STRIP is one of five documents summarizing ongoing activities that will be reflected in the annual update to the V4 SDPPP. Within the V4 SDPPP, there are 89 Sites monitored in 50 Permitted Features.

II. CONTROL ACTIVITIES

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 V4 STRIP, 47 PMI inspections have been conducted for the reporting period, thus completing the PMI effort. 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 47 PMIs conducted in July, seven inspections noted repair or replacement needed. Eight maintenance actions were conducted on arrival or at the time of inspection.

CORRECTIVE ACTION PLANNING

Planning for corrective action responses have begun at all high priority Sites within the V4 STRIP.

ADVERSE WEATHER

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 V4 STRIP, 4 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 five (5) days where qualifying storm events or events with precipitation

intensity of 0.25" in thirty minutes were recorded.

Table III.A Precipitation Activity for Reporting Period

Rain Gage	Related SMAs	Qualifying Storm Events	Storm Event Inspections Conducted
RG253	8	07/20/2011 07/27/2011 07/30/2011	16
RG257	27	0	0
RG262.4	12	07/25/2011 07/30/2011	15
RG267.4	3	07/29/2011 07/30/2011	3

STORM EVENT INSPECTIONS

Eleven (11) storm-event inspections have been conducted in the V4 STRIP aggregate area through the period ending July 31, 2011. Remaining inspections were completed in early August. Details of these inspections are provided in Appendix B.

SAMPLES COLLECTED

One confirmation sample has been collected at Sites/SMAs within the V4 STRIP for the reporting period. A table presenting the SMA, the date the sample was collected, and analysis requested is presented in Appendix C.

RESULTS OF STORM WATER MONITORING

There were no validated analytical results of storm water monitoring samples received during the reporting period.

VISUAL INSPECTIONS

No Visual Inspections have been required or conducted at Sites/SMAs within the V4 STRIP for the reporting period.

IV. CERTIFICATION ACTIVITIES

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.

No additional Certificates of Completion under the Consent Order have been issued by the New Mexico Environment Department for Sites in the V4 STRIP.

COMPLETION OF CORRECTIVE ACTION

Completions of corrective action under NMED's Consent Order were certified pursuant to Part 1.E.2 (d) for 1 Site within the V4 STRIP as provided in the [Individual Permit Annual Report](#).

This Site 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.

APPENDIX A

PREVENTATIVE MAINTENANCE INSPECTION SUMMARY

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
CDV-SMA-1.2	7/12/11	All Controls Operating Effectively	BMP-13844	None	Not Applicable	None
CDV-SMA-1.3	7/12/11	All Controls Operating Effectively	BMP-13845	None	Not Applicable	None
CDV-SMA-1.4	7/8/11	All Controls Operating Effectively	BMP-13846	None	Not Applicable	None
CDV-SMA-1.45	7/8/11	All Controls Operating Effectively	BMP-13847	None	Not Applicable	None
CDV-SMA-1.7	7/8/11	All Controls Operating Effectively	BMP-13849	None	Not Applicable	None
CDV-SMA-2	7/8/11	Trash observed on site.	BMP-13850	Picked up trash during inspection.	7/8/11	BMP-13850
CDV-SMA-2.3	7/12/11	All Controls Operating Effectively	BMP-13851	None	Not Applicable	None
CDV-SMA-2.41	7/11/11	All Controls Operating Effectively	BMP-13852	None	Not Applicable	None
CDV-SMA-2.42	7/11/11	All Controls Operating Effectively	BMP-13856	None	Not Applicable	None
CDV-SMA-2.5	7/11/11	All Controls Operating Effectively	BMP-13853	None	Not Applicable	None
CDV-SMA-2.51	7/11/11	All Controls Operating Effectively	BMP-13857	None	Not Applicable	None
CDV-SMA-3	7/13/11	All Controls Operating Effectively	BMP-13854	None	Not Applicable	None
CDV-SMA-4	7/13/11	All Controls Operating Effectively	BMP-13855	None	Not Applicable	None
CDV-SMA-6.01	7/13/11	All Controls Operating Effectively	BMP-13860	None	Not Applicable	None
CDV-SMA-6.02	7/13/11	Repair requested for erosion control matting on berm V012A03010002	BMP-13861	Repaired erosion control matting on berm V012A03010002.	7/18/11	BMP-14732
CDV-SMA-7	7/13/11	All Controls Operating Effectively	BMP-13858	None	Not Applicable	None
CDV-SMA-8	7/13/11	All Controls Operating Effectively	BMP-13859	None	Not Applicable	None
CDV-SMA-8.5	7/13/11	Repair requested for erosion control matting on berm V01503010005	BMP-13863	Repaired damaged erosion control matting on berm V01503010005.	7/19/11	BMP-14735
F-SMA-2	7/8/11	All Controls Operating Effectively	BMP-13883	None	Not Applicable	None
PT-SMA-0.5	7/11/11	All Controls Operating Effectively	BMP-13965	None	Not Applicable	None
PT-SMA-1	7/11/11	All Controls Operating Effectively	BMP-13966	Made temporary repair to earthen berm I00203010021 with extra staples and rocks at time of inspection.	7/11/11	BMP-13966

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
PT-SMA-2	7/11/11	All Controls Operating Effectively	BMP-13968	None	Not Applicable	None
PT-SMA-2.01	7/11/11	All Controls Operating Effectively	BMP-13974	None	Not Applicable	None
PT-SMA-3	7/8/11	All Controls Operating Effectively	BMP-13969	None	Not Applicable	None
PT-SMA-4.2	7/8/11	Rip rap I00704060002 filled with sediment and garbage, flow diverted around rip rap.	BMP-13970	Repaired and extended rip rap I00704060002.	7/18/11	BMP-14372
W-SMA-1	7/13/11	All Controls Operating Effectively	BMP-13997	Reshaped rock check dam W00106010003 at time of inspection.	7/13/11	BMP-13997
W-SMA-1.5	7/13/11	Trash observed on site.	BMP-13996	Picked up trash during inspection.	7/13/11	BMP-13996
W-SMA-2.05	7/18/11	All Controls Operating Effectively	BMP-13990	None	Not Applicable	None
W-SMA-3.5	7/15/11	All Controls Operating Effectively	BMP-13989	None	Not Applicable	None
W-SMA-4.1	7/15/11	All Controls Operating Effectively	BMP-13988	None	Not Applicable	None
W-SMA-5	7/13/11	All Controls Operating Effectively	BMP-13987	Reshaped rock check dam W00606010012 at time of inspection.	7/13/11	BMP-13987
W-SMA-6	7/11/11	All Controls Operating Effectively	BMP-13986	None	Not Applicable	None
W-SMA-7	7/11/11	Wattle W00803060010 slightly dislodged with 2 stakes pulled up.	BMP-13985	Moved wattle W00803060010 back into place and pounded in all stakes at time of inspection.	7/11/11	BMP-13985
W-SMA-7.8	7/11/11	All Controls Operating Effectively	BMP-13984	None	Not Applicable	None
W-SMA-7.9	7/11/11	All Controls Operating Effectively	BMP-13983	None	Not Applicable	None
W-SMA-8	7/11/11	All Controls Operating Effectively	BMP-13982	None	Not Applicable	None
W-SMA-8.7	7/12/11	All Controls Operating Effectively	BMP-13981	None	Not Applicable	None

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
W-SMA-8.71	7/12/11	Northeast end of base course berm W012A03020003 flattened by drill rig activities.	BMP-13980	Shoveled and built back up northeast end of base course berm W012A03020003 at time of inspection.	7/12/11	BMP-13980
W-SMA-9.05	7/7/11	All Controls Operating Effectively	BMP-13801	None	Not Applicable	None
W-SMA-9.5	7/7/11	All Controls Operating Effectively	BMP-13979	None	Not Applicable	None
W-SMA-9.7	7/7/11	All Controls Operating Effectively	BMP-13978	None	Not Applicable	None
W-SMA-9.8	7/7/11	Small portion of base course berm W01603020007 displaced possibly by winter snow plow. Repair/replace wattle W01603060009.	BMP-13977	Base course berm W01603020007 pulled back over and re-shaped properly at time of inspection. Replaced wattle W01603060009 with new wattle W01603060011 at same location.	7/7/2011 7/15/2011	BMP-13977 BMP-14365
W-SMA-9.9	7/7/11	All Controls Operating Effectively	BMP-13976	None	Not Applicable	None
W-SMA-10	7/7/11	All Controls Operating Effectively	BMP-13995	None	Not Applicable	None
W-SMA-11.7	7/14/11	Replace wattles W01903060027, W01903060029, W01903060032, W01903060035.	BMP-13994	Retired wattles W01903060027, W01903060029, W01903060032, W01903060035. Backup controls in place.	7/14/11	CCN-14837
W-SMA-12.05	7/14/11	All Controls Operating Effectively	BMP-13993	None	Not Applicable	None
W-SMA-15.1	7/14/11	All Controls Operating Effectively	BMP-13991	None	Not Applicable	None

APPENDIX B

STORM EVENT INSPECTIONS AND DETAILS

JULY 1 – JULY 31, 2011

Storm Event Inspections And Details Volume 4, STRIP 2 07-01-2011 - 07-31-2011								
SMA	RAIN GAGE	QUALIFYING STORM EVENT	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
CDV-SMA-1.2	RG253	07/20/2011 07/27/2011 07/30/2011	07/26/2011 08/01/2011	All Controls Operating Effectively	BMP-14938 BMP-15267	None	Not Applicable	None
CDV-SMA-1.3	RG253	07/20/2011 07/27/2011 07/30/2011	07/26/2011 08/01/2011	All Controls Operating Effectively	BMP-14939 BMP-15268	None	Not Applicable	None
CDV-SMA-1.4	RG253	07/20/2011 07/27/2011 07/30/2011	07/26/2011 08/01/2011	All Controls Operating Effectively	BMP-14940 BMP-15269	None	Not Applicable	None
CDV-SMA-1.45	RG253	07/20/2011 07/27/2011 07/30/2011	07/26/2011 08/01/2011	All Controls Operating Effectively	BMP-14941 BMP-15270	None	Not Applicable	None
CDV-SMA-1.7	RG253	07/20/2011 07/27/2011 07/30/2011	07/22/2011 08/05/2011	All Controls Operating Effectively	BMP-14942 BMP-15271	None	Not Applicable	None
CDV-SMA-8	RG262.4	07/25/2011 07/30/2011	8/4/2011	All Controls Operating Effectively	BMP-15090	None	Not Applicable	None
CDV-SMA-8.5	RG262.4	07/25/2011 07/30/2011	8/1/2011	All Controls Operating Effectively	BMP-15091	None	Not Applicable	None
CDV-SMA-9.05	RG262.4	07/25/2011 07/30/2011	8/1/2011	All Controls Operating Effectively	BMP-15092	None	Not Applicable	None
F-SMA-2	RG267.4	07/29/2011 07/30/2011	8/3/2011	Modification requested on F00106010004. RDC is filling with sediment. Still operating properly but will need to be cleaned out soon.	BMP-15592	Cleared debris, built up, and extended rock check dams F00106010004 and F00106010005.	8/17/2011	BMP-16170 BMP-16624
PT-SMA-0.5	RG262.4	07/25/2011 07/30/2011	8/2/2011	All Controls Operating Effectively	BMP-15093	None	Not Applicable	None
PT-SMA-1	RG262.4	07/25/2011 07/30/2011	8/2/2011	All Controls Operating Effectively	BMP-15094	None	Not Applicable	None

Storm Event Inspections And Details Volume 4, STRIP 2 07-01-2011 - 07-31-2011								
SMA	RAIN GAGE	QUALIFYING STORM EVENT	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
PT-SMA-1.7	RG262.4	07/25/2011 07/30/2011	8/1/2011	All Controls Operating Effectively	BMP-15095	None	Not Applicable	None
PT-SMA-2	RG262.4	07/25/2011 07/30/2011	8/1/2011	All Controls Operating Effectively	BMP-15096	None	Not Applicable	None
PT-SMA-2.01	RG262.4	07/25/2011 07/30/2011	8/2/2011	All Controls Operating Effectively	BMP-15097	None	Not Applicable	None
PT-SMA-3	RG267.4	07/29/2011 07/30/2011	8/3/2011	Modification requested. Rip Rap is effective down center of channel. Flow is diverting around sides. Rip rap needs extension.	BMP-15593	Built up and extend sides of rip rap I00504060004.	8/17/2011	BMP-16397
PT-SMA-4.2	RG267.4	07/29/2011 07/30/2011	8/3/2011	All Controls Operating Effectively	BMP-15594	Cleared sediment and replaced rock at rip rap I007040060003 and rock check dam I00706010002 at time of inspection. Cleaned out culvert I00704040005.	8/3/2011 8/10/2011	BMP-15594 BMP-16177
W-SMA-1	RG253	07/20/2011 07/27/2011 07/30/2011	07/25/2011 08/04/2011	All Controls Operating Effectively Repair recommended to rock check dam W00106010003, water flowing around check dam possibly due to clogging with needle cast and small limbs, removed at time of inspection. Water flowed around RCD on bank of channel, possibly due to clogging with needle cast and small limbs.	BMP-14943 BMP-15272	Removed needle cast and small limbs from behind rock check dams W00106010002 and W00106010003 at time of inspection. Built up and extended rock check dams W00106010002 and W00106010003.	08-04-2011 08-16-2011 08-16-2011	BMP-15272 BMP-16174 BMP-16175

Storm Event Inspections And Details Volume 4, STRIP 2 07-01-2011 - 07-31-2011								
SMA	RAIN GAGE	QUALIFYING STORM EVENT	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
W-SMA-1.5	RG253	07/20/2011 07/27/2011 07/30/2011	07/25/2011 08/04/2011	Trash observed on site. Modification requested to rock check dam W00206010010, water flowing around check dam on south side of channel.	BMP-14944 BMP-15273	During inspection picked up trash and restacked rocks into place that had been scattered from initial install of rock check dam W00206010012. Removed needle cast from channel behind rock check dams W00206010010 and W00106010011 at time of inspection.	07-25-2011 08-04-2011	BMP-14944 BMP-15273
W-SMA-2.05	RG253	07/20/2011 07/27/2011 07/30/2011	07/25/2011 08/04/2011	All Controls Operating Effectively	BMP-14945 BMP-15274	Leaves and needle cast removed from behind rock check dam W00306010004 at time of inspection.	07/25/2011	BMP-14945
W-SMA-11.7	RG262.4	07-25-2011 07-30-2011	07/28/2011 08/02/2011	Map update requested. All Controls Operating Effectively	BMP-15098 BMP-15731	None	Not Applicable	None
W-SMA-12.05	RG262.4	07-25-2011 07-30-2011	07/28/2011 08/02/2011	Modification requested on straw wattle W02003060005. Recommend relocating wattle eastward as drainage is channeling around wattle. Maintenance not conducted at time of inspection due to lightning standdown. All Controls Operating Effectively	BMP-15101 BMP-15734	Modified wattle W02003060005 by extending the east end to address channeling.	08/02/2011	BMP-15383
W-SMA-14.1	RG262.4	07-25-2011 07-30-2011	08/01/2011	All Controls Operating Effectively	BMP-15099	None	Not Applicable	None
W-SMA-15.1	RG262.4	07-25-2011 07-30-2011	07/28/2011 08/02/2011	All Controls Operating Effectively	BMP-15100 BMP-15733	None	Not Applicable	None

APPENDIX C

**SAMPLES COLLECTED AT SITES IN VOLUME 4 STRIP
FOR REPORTING PERIOD**

SAMPLES COLLECTED AT SITES IN VOLUME 4 STRIP 07-01-2011 - 07-31-2011					
SMA	Date Collected	Analysis			
		Metals	Cyanide	Radioactivity	Other
W-SMA-14.1	7/25/2011	x	x	x	HE