

STATUS REPORT

NPDES PERMIT No. NM0030759

SITE DISCHARGE POLLUTION PREVENTION PLAN VOLUME 5

ANCHO/CHAQUEHUI WATERSHED AGGREGATE



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

LA-UR-11-11474

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 5 (V5 SDPPP), Ancho/Chaquehui Watershed Aggregate area and is prepared in partial fulfillment of requirements set forth in NPDES Permit No. NM0030759 (IP or Permit). The V5 STRIP is one of five documents summarizing ongoing activities that will be reflected in the annual update to the V5 SDPPP. Within the V5 SDPPP, there are 39 Sites monitored in 21 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, less than 1% of the watershed above the Ancho/Chaquehui Watershed Aggregate area was burned.

II. CONTROL ACTIVITIES

BASELINE COMPLETIONS

All baseline control measures associated with the V5 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 V5 STRIP, 15 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 15 PMI's conducted, 5 inspections noted repair or replacement needed. Five maintenance actions were conducted on arrival or at the time of inspection.

ADDITIONAL CONTROL INSTALLATIONS

Based on the results of early informal field reviews, additional controls have been installed at 2 SMAs within the V5 STRIP.

Table II.A Additional Controls at SMAs in V5 STRIP

SMA	Additional Control	Install Date
A-SMA-4	03010009 earthen berm	6/7/2011
CHQ-SMA-3.05	03010008 earthen berm	6/7/2011

CORRECTIVE ACTION PLANNING

Planning for corrective action responses have begun at all high priority Sites within the V5 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 V5 STRIP, 3 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
RG265	4	0	0
RG267.4	2	0	0
RG340	15	0	0

STORM EVENT INSPECTIONS

No storm-event inspections have been required or conducted in the V5 STRIP aggregate through the period ending June 30, 2011.

VISUAL INSPECTIONS

No Visual Inspections have been required or conducted at Sites/SMAs within the V5 STRIP for the reporting period.

SAMPLER PLACEMENT

All 21 samplers associated with monitoring locations for Sites in this STRIP have been placed in accordance with coordinate locations provided in the V5 SDPPP. Minor adjustments were made to one sampler, CHQ-SMA-4.1, post-publication.

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. Seventeen (17) samplers were activated in the second quarter of the calendar year at SMAs within the V5 STRIP.

SAMPLES COLLECTED

No confirmation samples have been collected at Sites/SMAs within the V5 STRIP for the reporting period.

IV. CERTIFICATION ACTIVITIES

BASELINE CERTIFICATIONS

Baseline controls for all Sites monitored in SMAs in the V5 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.shtm?2>) and a summary of certification documents relevant to Sites in V5 SDPPP are also provided in Part IV, Certification Activities of this STRIP.

Table IV.A Baseline Certifications in V5 STRIP

Baseline Certification Documents	Document Title	Document Date
LA-UR-10-07681	Certification of baseline control measures completion for 63 site monitoring areas	12/1/2010
LA-UR-11-00912	Certification of baseline control measures completion for 26 site monitoring areas	2/11/2011

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.

No new Certificates of Completion under the Consent Order have been issued by the New Mexico Environment Department for SMAs within the V5 STRIP.

COMPLETION OF CORRECTIVE ACTION

Completions of corrective action under NMED's Consent Order were certified pursuant to Part 1.E.2 (d) for 2 Sites within the V5 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.

APPENDIX A

PREVENTATIVE MAINTENANCE INSPECTION SUMMARY

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
A-SMA-3.5	6/23/11	All Controls Operating Effectively	BMP-13828	None	Not Applicable	None
A-SMA-4	6/20/11	Repair Erosion Blanket A00801060008.	BMP-13829	Repair erosion blanket	6/23/11	BMP-14150
A-SMA-6	6/20/11	All Controls Operating Effectively	BMP-13830	None	Not Applicable	None
CHQ-SMA-0.5	6/20/11	All Controls Operating Effectively	BMP-13862	Water bars Q00104050006 and Q00104050007 reshaped during inspection.	Not Applicable	None
CHQ-SMA-1.01	6/20/11	All Controls Operating Effectively	BMP-13867	None	Not Applicable	None
CHQ-SMA-1.02	6/20/11	Trash observed in channel.	BMP-13868	Picked up trash from channel during	Not Applicable	None
CHQ-SMA-1.03	6/20/11	All Controls Operating Effectively	BMP-13869	None	Not Applicable	None
CHQ-SMA-2	6/20/11	Asphalt berm Q00303040015 breached.	BMP-13865	Repaired berm during inspection.	Not Applicable	None
CHQ-SMA-3.05	6/20/11	All Controls Operating Effectively	BMP-13870	None	Not Applicable	None
CHQ-SMA-4	6/23/11	Increased erosion potential found. Repair Grasses and shrubs Q00502010001, repair hydromulch Q00501030015, repair wattles Q00503060002, Q00503060006, Q00503060007, Q00503060008, Q00503060009, Q00503060010, Q00503060011, Q00503060012, Q00503060014.	BMP-13866	Installed earthen berms Q00503010016, Q00503010017, Q00503010018, retired hydromulch Q00501030015, retired straw wattles Q00503060002, Q00503060007, Q00503060008, Q00503060009, Q00503060010, Q00503060011, Q00503060012, Q00503060014.	7/20/11	CCN-14886
CHQ-SMA-4.1	6/23/11	All Controls Operating Effectively	BMP-13872	None	Not Applicable	None
CHQ-SMA-4.5	6/23/11	Wattle Q00703060007 in need of stabilization.	BMP-13873	Reinstalled 2 stakes in wattle Q00703060007 at inspection.	Not Applicable	None
CHQ-SMA-5.05	6/22/11	Debris observed on site.	BMP-13876	Removed debris from site at time of inspection.	Not Applicable	None
CHQ-SMA-6	6/22/11	All Controls Operating Effectively	BMP-13874	None	Not Applicable	None

SMA	DATE INSPECTED	FINDINGS	INSPECTION REFERENCE	MAINTENANCE CONDUCTED	DATE MAINTENANCE CONDUCTED	MAINTENANCE REFERENCE
CHQ-SMA-7.1	6/22/11	Request Seed and matting for earthen berms Q01003060005, Q01003060006, Q01003060007.	BMP-13875	Installed earthen berms Q01003010010 and Q01003010011, retire straw wattles Q01003060002, Q01003060005, Q01003060006, Q01003060007.	7/18/11	CCN-14846

APPENDIX B

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
A-SMA-1.1	35.80893796	-106.2670852	1635351	1749719	SS100209	5/11/2011
A-SMA-2	35.80868514	-106.2677597	1635151	1749627	SS2732	5/11/2011
A-SMA-2.5	35.80612799	-106.2636905	1636357	1748696	SS090204	6/2/2011
A-SMA-2.7	35.80195012	-106.2616015	1636977	1747175	SS090205	6/2/2011
A-SMA-2.8	35.80211365	-106.2612606	1637078	1747235	SS090206	6/2/2011
A-SMA-3	35.80008089	-106.2637514	1636339	1746495	SS100210	5/11/2011
A-SMA-3.5	35.78595078	-106.2505990	1640239	1741352	SS090208	6/2/2011
A-SMA-4	35.77320026	-106.2304254	1646223	1736711	SS276	7/26/2011
A-SMA-6	35.77149675	-106.2296977	1646439	1736091	SS310	5/10/2011
CHQ-SMA-0.5	35.78388135	-106.2591746	1637696	1740598	SS090601	5/11/2011
CHQ-SMA-1.01	35.78250063	-106.2547178	1639017	1740096	SS090612	6/2/2011
CHQ-SMA-1.02	35.78276544	-106.2548183	1638988	1740192	SS090613	5/10/2011
CHQ-SMA-1.03	35.78294680	-106.2546287	1639044	1740258	SS090614	5/10/2011
CHQ-SMA-2	35.78154251	-106.2580974	1638015	1739747	SS3374	5/11/2011
CHQ-SMA-3.05	35.78178615	-106.2541283	1639192	1739836	SS090615	7/26/2011
CHQ-SMA-4	35.78048763	-106.2558181	1638691	1739363	SS3375	5/10/2011
CHQ-SMA-4.1 ¹	35.77886860	-106.2553743	1638823	1738774	SS100617	5/10/2011
CHQ-SMA-4.5	35.77624586	-106.2467016	1641395	1737819	SS341	7/26/2011
CHQ-SMA-5.05	35.77155658	-106.2535753	1639356	1736112	SS090616	5/26/2011
CHQ-SMA-6	35.77084112	-106.2522024	1639763	1735852	SS3377	5/10/2011
CHQ-SMA-7.1	35.77149847	-106.2504101	1640295	1736091	SS100618	7/26/2011

¹ This sampler 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