



John  
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Date: August 28, 2006  
Refer to: EP2006-0781

Ms. Sonia Hall  
U.S. Environmental Protection Agency, Region 6  
Compliance Assurance and Enforcement Division  
Water Enforcement Branch (6EN-WC)  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202-2733

**SUBJECT: FEDERAL FACILITY COMPLIANCE AGREEMENT DOCKET NO. CWA-06-2005-1701, AND ADMINISTRATIVE ORDER DOCKET NO. CWA-06-2005-1734 AT LOS ALAMOS NATIONAL LABORATORY, PERMIT APPLICATION NO. NM0030759, QUARTERLY STATUS REPORT (APRIL 1, 2006, TO JUNE 30, 2006)**

Dear Ms. Hall:

Enclosed for your review is the Quarterly Status Report for Los Alamos National Laboratory in accordance with the Federal Facility Compliance Agreement (FFCA) Docket No. CWA-06-2005-1701, dated February 3, 2005, and the Administrative Order (AO) Docket No. CWA-06-2005-1734 dated March 22, 2005. The Quarterly Status Report includes corrective action activities required under the FFCA and AO for the period from April 1, 2006, through June 30, 2006. The Quarterly Status Report includes the following:

- (1) Overall Progress on FFCA, 2nd Quarter 2006 – April 1, 2006 to June 30, 2006
- (2) Table-1, Planned Activities, Sampling Status
- (3) Table-2, Current Site Status and Corrective Action Progress



Ms. Sonia Cantu  
EP2006-0781

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August 28, 2006

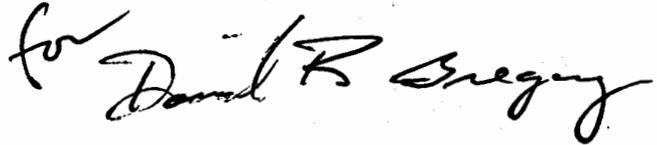
Please contact Steve Veenis at (505) 667-0013 or Danny Katzman at (505) 667-6333 if you need additional information concerning the status of the Laboratory's corrective action activities.

Sincerely,



Andrew Phelps  
Associate Director  
Environmental Programs  
Los Alamos National Laboratory

Sincerely,



Gene Turner  
Environmental Permitting Manager  
Department of Energy  
Los Alamos Site Office

AP/DG/SV/ew

Enclosures: a/s

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P. Wardwell, LC-ESH, MS A187  
IRM-RMMSO, MS A150

**A. DEADLINES, AND MILESTONES**

April 28, 2006	wSAL Exceedance Report submittal, EPA and NMED
May 26, 2006	wSAL Exceedance Report submittal, EPA and NMED
May 30, 2006	2006 Q1 Status Report submittal, EPA and NMED
June 28, 2006	wSAL Exceedance Report submittal, EPA and NMED

**B. PROGRESS MADE IN MEETING OTHER DEADLINES & MILESTONES**

In accordance with Table B-1, Detailed Sampling Plan for SMAs Initiated in 2006, included in Attachment B to the *Storm Water Pollution Prevention Plan for SWMUs and AOCs, LA-UR-06-1840 (SWMU/SWPPP)*, site-specific storm water monitoring has been initiated at 31 of the 32 SMAs (97%) planned for site-specific monitoring in CY 2006. Details of these installations and the sampling status for the second quarter (Q2) of 2006 are provided in Table-1, *2006 Planned Activities and Sampling Status*.

- ✓ Site-specific monitoring continues at 43 SMAs previously monitored in CY 2005 that were reported with analytical results exceeding wSALs from one or more samples in 2005.
- ✓ Completed 282 inspections at 151 sites.
- ✓ 76 storm water samples collected from 53 SMAs.

**C. REASONS FOR ANY NON-COMPLIANCE**

There were no instances of non-compliance for this reporting period.

**D. CORRECTIVE ACTIONS TAKEN TO ADDRESS wSAL EXCEEDANCES**

For the reporting period, wSAL exceedances for one or more samples were observed at 21 SMAs associated with the following canyon drainage areas:

- Chaquehui – 1 SMA
- Los Alamos – 4 SMAs
- Mortandad – 6 SMAs
- Pajarito – 2 SMA
- Sandia – 3 SMAs
- Water – 5 SMAs

Details of the current site controls, site inspections conducted in CY 2006, and actions undertaken to mitigate any additional wSAL exceedances at these SMAs are provided in Table-2, *Current Site Status and Corrective Action Progress*. Generally, corrective actions are selected from one or more of three responses: a re-investigation of the possible sources of contaminant migration from the site; a re-assessment of the existing site controls; or a planned installation of new site controls. Continued storm water sampling at all 21 SMAs associated with the wSAL exceedances was conducted during this reporting period.

**OVERALL PROGRESS**

- ★ *SITE-SPECIFIC EROSION CONTROL MEASURES ARE IN PLACE AT ALL 294 PRIORITY SITES.*
- ★ *SITE-SPECIFIC MONITORING AND REPORTING IS 75% COMPLETE. WITH ~220 PRIORITY SITES BEING MONITORED OR HAVE COMPLETED MONITORING.*
- ★ *SITE-SPECIFIC INSPECTIONS AND MAINTENANCE ACTIVITIES ARE BEING CONDUCTED FOR ALL PRIORITY SITES.*

**E. DESCRIPTION OF MATTERS RELEVANT TO STATUS OF COMPLIANCE**

A Surface Water Assessment Team meeting was held on April 26, 2006 to discuss FFCA-related matters with the New Mexico Environment Department.

Participated in the Pajarito Plateau Watershed Partnership and East Jemez Resource Council meetings in April and June 2006 to discuss:

- ★ NMED/SWQB sampling plan proposal on establishing TMDLs for Pajarito Plateau;
- ★ A collaborative effort between LANL and Los Alamos County to develop County-wide storm water BMP standards; and
- ★ Potential impacts of Los Alamos County construction projects on LANL SWMUs and the site-specific monitoring currently underway.

Water Quality and Hydrology Group and Remediation Services continued collaborative efforts to evaluate storm water data to assess background conditions and to determine Laboratory and non-Laboratory derived pollutants.

Table B-1, Detailed Sampling Plan for SMAs Initiated in the 2006 SWMU/SWPPP incorrectly identified W-SMA-3 for sampler installation and storm water monitoring in 2006. The associated site, 16-006(g), has no exposure to storm water as discussed in Section 3.2.3.1, No Exposure Sites. Site-specific monitoring will not be initiated at W-SMA-3 in 2006.

**TABLE-1 2006 PLANNED ACTIVITIES AND SAMPLING STATUS**

Drainage Network	SMA	2006 Sampler Initiated?	Station Designation	Station Type	Associated Site(s)	Q2, 2006 Sampling Status
ANCHO	A-SMA-4	✓	SS276	Single Stage	33-010(d)	No Flow
	A-SMA-5	✓	SS320	Single Stage	33-010(b)	No Flow
	A-SMA-6	✓	SS310	ISCO	33-010(a)	No Flow
CANADA DEL BUEY	CDB-SMA-0.1	✓	SS2165	ISCO	04-003(a)	No Flow
					04-004	
	CDB-SMA-0.2	✓	SS217	Single Stage	46-004(c2)	No Flow
	CDB-SMA-0.5	✓	SS2171	Single Stage	46-004(g)	No Flow
					46-004(m)	
	CDB-SMA-1.1				46-004(a)	Planned
					46-004(y)	
					46-004(z)	
					46-006(d)	
	CDB-SMA-1.3	✓	SS2174	ISCO	46-004(a2)	No Flow
					46-004(u)	
					46-004(v)	
					46-004(x)	
CDB-SMA-1.5	✓	SS2175	Single Stage	46-004(h)	No Flow	
				46-004(q)		
CDB-SMA-1.6	✓	SS2183	Single Stage	46-003(b)	No Flow	
				46-003(e)		
CDB-SMA-1.7	✓	SS2189	Single Stage	46-005	Q2, 2006 Sample Collection	
CHAQUEHUI	CHQ-SMA-1	✓	SS3397	Single Stage	33-004(h)	Q2, 2006 Sample Collection
					33-008(c)	
					33-015	
					C-33-001	
	CHQ-SMA-2	✓	SS3374	ISCO	33-004(d)	Q2, 2006 Sample Collection
					33-005(a)	
					33-005(b)	
					33-005(c)	
	C-33-003					
	CHQ-SMA-3	✓	SS3397	Single Stage	33-010(f)	Q2, 2006 Sample Collection
	CHQ-SMA-4	✓	SS3375	Single Stage	33-016	Q2, 2006 Sample Collection
	CHQ-SMA-4.5	✓	SS341	ISCO	33-011(b)	No Flow
	CHQ-SMA-5	✓	SS3376	Single Stage	33-007(b)	Q2, 2006 Sample Collection
CHQ-SMA-6	✓	SS3377	Single Stage	33-004(j)	No Flow	
				33-006(a)		
				33-007(b)		

TABLE-1 2006 PLANNED ACTIVITIES AND SAMPLING STATUS

Drainage Network	SMA	2006 Sampler Initiated?	Station Designation	Station Type	Associated Site(s)	Q2, 2006 Sampling Status
					33-010(c)	
					33-010(g)	
	CHQ-SMA-7	√	SS342	Single Stage	33-010(g)	No Flow
MORTANDAD	M-SMA-3.1	√	SS192	Single Stage	48-007(b)	Q2, 2006 Sample Collection
	M-SMA-3.5	√	SS193	Single Stage	48-003	Q2, 2006 Sample Collection
	M-SMA-10.3	√	SS20025	Single Stage	35-014(e2)	Q2, 2006 Sample Collection
					35-016(i)	
	T-SMA-2.8	√	SS20133	Single Stage	35-016(n)	Q2, 2006 Sample Collection
	T-SMA-7	√	SS20143	ISCO	04-001	Q2, 2006 Sample Collection
04-002						
04-003(b)						
PAJARITO	2M-SMA-1.4	√	SS2433	ISCO	03-009(d)	No Flow
SANDIA	S-SMA-0.2	√	SS1219	ISCO	03-013(a)	Q2, 2006 Sample Collection
					03-013(b)	
					03-052(f)	
	S-SMA-3.6	√	SS12255	ISCO	60-007(b)	No Flow
	S-SMA-5.1	√	SS1247	Single Stage	20-003(c)	No Flow
WATER	CDV-SMA-0.5	√	SS2565	ISCO	16-029(s)	No Flow
					16-029(t)	
	W-SMA-12	√	SS26237	Single Stage	49-001(g)	No Flow
	W-SMA-13	√	SS26234	Single Stage	49-001(a)	Q2, 2006 Sample Collection
	W-SMA-15	√	SS2624	Single Stage	49-005(a)	No Flow

TABLE-2 CURRENT SITE STATUS AND CORRECTIVE ACTION PROGRESS

DRAINAGE AREA	SMA	SITE	CONSTITUENTS ▶WSAL	INSPECTION DATE(S)	EXISTING SITE CONTROLS	CORRECTIVE ACTION
CHAQUEHUI	CHQ-SMA-5	33-007(b)	Metals	06/23/2006	Berm (Earth) Georidges / Enviroberms Jute Matting Reinforcement (Rock) Riprap (General) Check Dam (Rock) Riprap (Outlet Protection)	Re-evaluate existing site controls
LOS ALAMOS	LA-SMA-4	01-001(c)	Metals	4/03/2006 5/15/2006 6/30/2006	Gabions (Channel Stabilization) Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Rock) Riprap (General) Check Dam (Log)	Re-evaluate existing site controls
		01-006(b)	Metals	4/03/2006 4/03/2006 5/15/2006 5/31/2006 6/30/2006 6/30/2006	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Log) Check Dam (Rock) Gabion (Channel Stabilization) Riprap (General)	Re-evaluate existing site controls
		01-006(c)	Metals	4/03/2006 5/15/2006 6/30/2006	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Rock) Riprap (General) Check Dam (Log)	Re-evaluate existing site controls
		01-006(d)	Metals	4/03/2006 5/15/2006 6/30/2006	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Rock) Riprap (General) Check Dam (Log)	Re-evaluate existing site controls
		01-006(n)	Metals	4/03/2006 5/15/2006 6/30/2006	Silt Fence Straw Bale Barrier Straw Wattles Check Dam (Rock) Riprap (General) Check Dam (Log)	Re-evaluate existing site controls
	LA-SMA-5.2	01-003(d)	Metals Gross alpha	4/04/2006 6/23/2006 6/30/2006	Straw Wattles Check Dam (Log)	Re-evaluate existing site controls
	LA-SMA-6	21-013(b)	Gross alpha	4/03/2006 6/23/2006 6/30/2006	Asphalt / Concrete Straw Wattles Check Dam (Log)	Re-evaluate existing site controls
		21-013(g)	Gross alpha	4/03/2006 6/23/2006 6/30/2006	Georidges / Enviroberms Straw Wattles Check Dam (Log)	Re-evaluate existing site controls
		21-024(e)	Gross alpha	6/30/2006	Check Dam (Rock) Straw Wattles	Re-evaluate existing site controls
		21-027(d)	Gross alpha	4/03/2006 6/23/2006 6/30/2006	Georidges / Enviroberms Straw Wattles Check Dam (Log)	Re-evaluate existing site controls
	LA-SMA-6.3	21-027(a)	Metals	4/03/2006 6/30/2006	Berm (Asphalt)	Re-evaluate existing site controls

TABLE-2 CURRENT SITE STATUS AND CORRECTIVE ACTION PROGRESS

DRAINAGE AREA	SMA	SITE	CONSTITUENTS ▶WSAL	INSPECTION DATE(S)	EXISTING SITE CONTROLS	CORRECTIVE ACTION
MORTANDAD	M-SMA-3.1	48-007(b)	Metals	04/12/2006	Berm (Earth) Check Dam (Rock) Mulch (Wood Chip) Reseed Straw Wattles	Re-evaluate existing site controls
	M-SMA-3.5	48-003	Metals Gross alpha	04/12/2006	Contour Tree Felling Check Dam (Rock) Seeding (Permanent)	Re-evaluate existing site controls
	M-SMA-8	50-006(d)	Metals Gross alpha	6/29/2006	Straw Wattles	Re-evaluate existing site controls
	M-SMA-10.3	35-014(e2)	Metals	06/23/2006	Berm (Base Course) Check Dam (Rock) Contour Tree Felling	Re-evaluate existing site controls
		35-016(i)	Metals	06/23/2006	Geotextiles (Natural) Check Dam (Rock) Contour Tree Felling	Re-evaluate existing site controls
	T-SMA-1	50-006(a)	Metals Gross alpha	4/5/2006	Straw Bale Barriers Silt Fencing	Planned installation of new site controls. The area is currently under construction.
		50-009	Metals Gross alpha	6/19/2006 6/19/2006	Earth Cap Swale Vegetative Buffer Strip	Re-evaluate existing site controls
T-SMA-3	35-016(b)	Copper	06/23/2006	Check Dam (Rock)	Re-evaluate existing site controls	
PAJARITO	2M-SMA-2	03-054(b)	Metals Gross alpha	4/06/2006 4/28/2006 5/01/2006 5/08/2006 5/08/2006	Riprap (General)	Re-evaluate existing site controls
	PJ-SMA-15	54-014(d)	Metals Gross alpha	5/01/2006	Jersey Barrier Sediment Trap	Re-evaluate existing site controls
		54-017	Metals Gross alpha	5/01/2006	Berm (Asphalt) Berm (Earth) Check Dam (Rock) Riprap (General) Sediment Trap Weir	Re-evaluate existing site controls
		54-018	Metals Gross alpha	5/01/2006	Check Dam (Rock) Swale Riprap (General) Sediment Trap	Re-evaluate existing site controls
		54-020	Metals Gross alpha	5/01/2006	Jersey Barrier Sediment Trap	Re-evaluate existing site controls
SANDIA	S-SMA-0.2	03-013(a)	Metals	6/22/2006 6/25/2006 6/29/2006	Riprap (Outlet Protection) Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure	Re-evaluate existing site controls
		03-013(b)	Metals	6/22/2006 6/25/2006 6/29/2006	Riprap (Outlet Protection) Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure	Re-evaluate existing site controls

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DRAINAGE AREA	SMA	SITE	CONSTITUENTS ▶WSAL	INSPECTION DATE(S)	EXISTING SITE CONTROLS	CORRECTIVE ACTION
		03-052(f)	Metals	6/22/2006 6/25/2006 6/29/2006	Riprap (Outlet Protection) Check Dam (Rock) Culvert Gabions (Channel Stabilization) Retention Structure	Re-evaluate existing site controls
	S-SMA-1	03-003(m)	Metals Gross alpha	4/5/2006	Riprap (Outlet Protection) Check Dam (Rock)	Re-evaluate existing site controls
		03-009(a)	Metals Gross alpha	4/5/2006	Berm (Earth) Check Dam (Rock) Jute Matting	Re-evaluate existing site controls
		03-029	Metals Gross alpha	4/5/2006	Gabions (Channel Stabilization) Velocity Dissipation Device Check Dam (Rock) Mulch (Straw) Seeding (Permanent)	Re-evaluate existing site controls
	S-SMA-2	03-012(b)	Metals Aroclor-1260 Gross alpha	4/5/2006	Berm (Earth)	Re-evaluate existing site controls
		03-045(b)	Metals Aroclor-1260 Gross alpha	4/5/2006	Check Dam (Rock) Jute Matting	Re-evaluate existing site controls
		03-045(c)	Metals Aroclor-1260 Gross alpha	4/5/2006	Check Dam (Rock)	Re-evaluate existing site controls
		03-056(c)	Metals Aroclor-1260 Gross alpha	4/5/2006	Riprap (General) Gabions (Channel Stabilization) Check Dam (Rock)	Re-evaluate existing site controls
WATER	CDV-SMA-1.5	16-026(j)	Metals	4/05/2006 5/15/2006 6/23/2006	Straw Wattles	Re-evaluate existing site controls
	W-SMA-7	16-026(h2)	Metals	4/05/2006 5/15/2006 6/23/2006 6/30/2006	Check Dam (Rock)	Re-evaluate existing site controls
	W-SMA-10	11-003(b)	Metals	4/05/2006 6/23/2006 6/30/2006	Berm (Asphalt) Check Dam (Log) Check Dam (Rock) Felled Trees Riprap (Outlet Protection) Splash Basin	Re-evaluate existing site controls
		11-004(a)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(b)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(c)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls

TABLE-2 CURRENT SITE STATUS AND CORRECTIVE ACTION PROGRESS

DRAINAGE AREA	SMA	SITE	CONSTITUENTS WSAL	INSPECTION DATE(S)	EXISTING SITE CONTROLS	CORRECTIVE ACTION
		11-004(d)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(e)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(f)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-005(c)	Metals	4/05/2006 6/23/2006 6/30/2006	Straw Wattles	Re-evaluate existing site controls
		11-006(b)	Metals	4/05/2006 6/23/2006 6/30/2006	Check Dam (Rock) Felled Trees Straw Bale Barrier Jute Matting Riprap (General) Straw Wattles	Re-evaluate existing site controls
		11-006(c)	Metals	4/05/2006 6/23/2006 6/30/2006	Check Dam (Log) Check Dam (Rock) Riprap (General)	Re-evaluate existing site controls
		11-006(d)	Metals	4/05/2006 6/23/2006 6/30/2006	Riprap (General)	Re-evaluate existing site controls
	W-SMA-11	11-004(a)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(b)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(c)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(d)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls

TABLE-2 CURRENT SITE STATUS AND CORRECTIVE ACTION PROGRESS

DRAINAGE AREA	SMA	SITE	CONSTITUENTS ▶WSAL	INSPECTION DATE(S)	EXISTING SITE CONTROLS	CORRECTIVE ACTION
		11-004(e)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
		11-004(f)	Metals	4/05/2006 4/05/2006 5/15/2006 6/23/2006 6/30/2006 6/30/2006	Check Dam (Log) Felled Trees	Re-evaluate existing site controls
	W-SMA-13	49-001(a)	Metals Gross alpha	6/12/2006 6/12/2006 6/23/2006	Vegetative Buffer	Planned installation of new site controls