Environmental Protection Division
Water Quality & RCRA Group (ENV-RCRA)
P.O. Box 1663, K490
Los Alamos, New Mexico 87545
(505) 667-0666/FAX (505) 667-5224

National Nuclear Security Administration
Los Alamos Site Office, A316
3747 West Jemez Road
Los Alamos, New Mexico 87545
(505) 667-5794/FAX (505) 667-5948

Date: February 11, 2011
Refer To: ENV-RCRA-11-0026
LAUR: 11-00912

Ms. Paulette Johnsey, Chief
Compliance Assurance and Enforcement Division (6EN)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Dear Ms. Johnsey:

SUBJECT: NPDES PERMIT NO. NM0030759 - SUBMITTAL OF CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURES FOR 26 SITE MONITORING AREAS, DATED FEBRUARY 11, 2011

These documents are being submitted in accordance with the requirements of NPDES Permit No. NM0030759 (the Permit) for the Los Alamos National Laboratory, issued to Los Alamos National Security, LLC, and the U.S. Department of Energy, effective November 1, 2010. As specified in Part I, Section B.1, Installation of Baseline Control Measures, "Permittees shall certify completion of baseline control measures to address the non-numeric effluent limits to EPA within 30 days of completion of such measures, or if such measures have already been installed, then within 30 days after the effective date of the Permit."

The certification documentation for baseline control measures installed at 26 SMAs which are listed in Appendix E, Table E-1 is enclosed. The certification documentation is organized into reports which group the Permitted Features and SMAs according to the corresponding watershed and canyon assignments in Appendix D, Permitted Feature Assignment. Each certification report includes a description and photographs of all completed baseline control measures, and the certification is signed in accordance with Part III, Section D.11 of the Permit and 40 CFR 122.22(b).

This baseline control measure certification submittal consists of six (6) report enclosures for the following Watersheds, Permitted Features, and SMAs. The Sites associated with each SMA are given in Appendix A of the Permit and are also listed below.

Permitted Feature	SMA Number	Site Number
Enclosure 1: DP Canyon		
D003	DP-SMA-3	21-013(c)
		21-021
Total Number of Permitted Features / SMAs: 1		
Enclosure 2: Mortandad Canyon		
M002B	M-SMA-1.22	03-045(h)
M011	M-SMA-9.1	35-016(f)
Total Number of Permitted Features / SMAs: 2		
Enclosure 3: Pajarito Canyon		
J003	PJ-SMA-3.05	09-004(o)
Total Number of Permitted Features / SMAs: 1		
Enclosure 4: Cañon de Valle		
V010	CDV-SMA-3	14-009
V011	CDV-SMA-4	14-010
V012	CDV-SMA-6.01	14-001(g)
		14-006
V012A	CDV-SMA-6.02	14-002(d)
		14-002(e)
Total Number of Permitted Features / SMAs: 4		
Enclosure 5: Ancho Canyon		
A002	A-SMA-2	39-004(b)
		39-004(e)
A003	A-SMA-2.5	39-010
A004	A-SMA-2.7	39-002(c)
		39-008
A005	A-SMA-2.8	39-001(b)
A007	A-SMA-3.5	39-006(a)
A008	A-SMA-4	33-010(d)
A009	A-SMA-6	33-004(k)
		33-007(a)
		33-010(a)
Total Number of Permitted Features / SMAs: 7		

Permitted Feature	SMA Number	Site Number
Enclosure 6: Chaquahui Canyon		
Q001	CHQ-SMA-0.5	33-004(g)
		33-007(c)
		33-009
Q002	CHQ-SMA-1.01	33-002(d)
Q002A	CHQ-SMA-1.02	33-004(h)
		33-008(c)
		33-011(d)
		33-015
Q002B	CHQ-SMA-1.03	33-008(c)
		33-012(a)
		33-017
		C-33-001
		C-33-003
Q003	CHQ-SMA-2	33-004(d)
		33-007(c)
		C-33-003
Q004	CHQ-SMA-3.05	33-010(f)
Q005	CHQ-SMA-4	33-011(e)
Q006	CHQ-SMA-4.1	33-016
Q007	CHQ-SMA-4.5	33-011(b)
Q009	CHQ-SMA-6	33-004(j)
		33-006(a)
		33-007(b)
		33-010(c)
		33-010(g)
		33-010(h)
		33-014
Q010	CHQ-SMA-7.1	33-010(g)
Total Number of Permitted Features / SMAs: 8		

Please contact Terrill Lemke at (505) 665-2397 of the Water Quality and RCRA Group (ENV-RCRA) if you have questions.

Sincerely,

A R Grieggs

Anthony R. Grieggs
Group Leader
Water Quality & RCRA Group
Los Alamos National Laboratory

Sincerely,

Gene E Turner

Gene E. Turner
Environmental Permitting Manager
Environmental Projects Office
Los Alamos Site Office
National Nuclear Security Administration

ARG:GET:CH/lm

Enclosures: a/s

Cy: Brent Larsen, USEPA/Region 6, 6WQ-PP, Dallas, TX, w/enc.
Glenn Saums, NMED/SWQB, Santa Fe, NM, w/enc.
Tom Skibitski, NMED/DOE/OB, Albuquerque, NM, w/enc.
Gene Turner, LASO-EO, w/enc., A316
Steve Yanicak, LASO-GOV, w/enc., M894
Michael B. Mallory, PADOPS, w/o enc., A102
J. Chris Cantwell, ADESHQ, w/o enc., K491
Terrill Lemke, ENV-RCRA, w/o enc., (E-File)
Catherine Hayes, ENV-RCRA, w/o enc., (E-File)
Steve Veenis, EP-CAP-DO, w/o enc., (E-File)
Suzanne Coyne, IRM-DCS, w/enc., K490
ENV-RCRA File, w/enc., K490
IRM-RMMSO, w/enc., A150

ENCLOSURE 1

Certification of Completion of Baseline Control Measures for 1 Site Monitoring Area in DP Canyon in the Los Alamos/Pueblo Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
D007	DP-SMA-3

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penaly of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

A R Grieggs

Anthony R. Grieggs
Group Leader, ENV-RCRA
Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Office
National Nuclear Security Administration

2/09/11
Date

PF: D007 SMA: DP-SMA-3

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
D00703020014	Berms	Base Course Berm	11701-4r.JPG		X		X
D00703120015	Berms	Rock Berm	11701-5r.JPG		X		X
D00706010012	Check Dam	Rock Check Dam	11701-3r.JPG		X		X
D00706010011	Check Dam	Rock Check Dam	11701-3r.JPG		X		X
D00706010009	Check Dam	Rock Check Dam	11701-1r.JPG		X		X
D00706010010	Check Dam	Rock Check Dam	11701-2r.JPG		X		X
D00706010013	Check Dam	Rock Check Dam	11701-6r.JPG		X		X
D00706010008	Check Dam	Rock Check Dam	11701-1r.JPG		X		X
D00702010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	11701-7r.JPG	X			

Comments

None applicable.

PF: D007 SMA: DP-SMA-3

Photo 11701-1r.JPG (taken 11/15/10) D00706010008 : Check Dam - Rock Check Dam; D00706010009 : Check Dam - Rock Check Dam.

Photo 11701-2r.JPG (taken 11/15/10) D00706010010 : Check Dam - Rock Check Dam.

PF: D007 SMA: DP-SMA-3

Photo 11701-3r.JPG (taken 11/15/10) D00706010011 : Check Dam - Rock Check Dam; D00706010012 : Check Dam - Rock Check Dam.

Photo 11701-4r.JPG (taken 11/15/10) D00703020014 : Berms - Base Course Berm.

PF: D007 SMA: DP-SMA-3

Photo 11701-5r.JPG (taken 11/15/10) D00703120015 : Berms - Rock Berm.

Photo 11701-6r.JPG (taken 11/15/10) D00706010013 : Check Dam - Rock Check Dam.

PF: D007 SMA: DP-SMA-3

Photo 11701-7r.JPG (taken 11/15/10) D00702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

ENCLOSURE 2

Certification of Completion of Baseline Control Measures for 2 Site Monitoring Areas in the Mortandad Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
M002B	M-SMA-1.22
M011	M-SMA-9.1

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penaly of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

A R Grieggs

Anthony R. Grieggs
Group Leader, ENV-RCRA
Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Ofiice
National Nuclear Security Administration

2/09/11
Date

PF: M002B SMA: M-SMA-1.22

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
M002B04050002	Channel/Swale	Water Bar	12125-2r.JPG	X		X	
M002B06010007	Check Dam	Rock Check Dam	12125-1r.JPG		X		X
M002B06010009	Check Dam	Rock Check Dam	12125-1r.JPG		X		X
M002B06010006	Check Dam	Rock Check Dam	12125-1r.JPG		X		X
M002B06010005	Check Dam	Rock Check Dam	12125-5r.JPG		X		X
M002B06010008	Check Dam	Rock Check Dam	12125-1r.JPG		X		X
M002B06010004	Check Dam	Rock Check Dam	12125-4r.JPG		X		X
M002B06010003	Check Dam	Rock Check Dam	12125-3r.JPG		X		X
M002B02010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	12125-1r.JPG	X			

Comments

Water bar installed instead of berm to manage run-on control function at site. Sediment control function managed by check dams.

PF: M002B SMA: M-SMA-1.22

Photo 12125-1r.JPG (taken 12/02/10) M002B02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; M002B06010006 : Check Dam - Rock Check Dam; M002B06010007 : Check Dam - Rock Check Dam; M002B06010008 : Check Dam - Rock Check Dam; M002B06010009 : Check Dam - Rock Check Dam.

Photo 12125-2r.JPG (taken 12/02/10) M002B04050002 : Channel/Swale - Water Bar.

PF: M002B SMA: M-SMA-1.22

Photo 12125-3r.JPG (taken 12/02/10) M002B06010003 : Check Dam - Rock Check Dam.

Photo 12125-4r.JPG (taken 12/02/10) M002B06010004 : Check Dam - Rock Check Dam.

PF: M002B SMA: M-SMA-1.22

Photo 12125-5r.JPG (taken 12/02/10) M002B06010005 : Check Dam - Rock Check Dam.

PF: M011 SMA: M-SMA-9.1

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Channel/Swale	X		X	
Check Dam		X		X
Established Vegetation	X			
Seed and Mulch	X		X	

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
M01104040004	Channel/Swale	Culvert	7467-1.JPG	X		X	
M01106010005	Check Dam	Rock Check Dam	7467-4.JPG		X		X
M01102020006	Established Vegetation	Permanent Vegetation Forested/Needle Cast	7467-3.JPG	X			
M01101020001	Seed and Mulch	Seed and Gravel Mulch	7467-2.JPG	X		X	

Comments

None applicable.

Photo 7467-1.JPG (taken 08/06/10) M01104040004 : Channel/Swale - Culvert.

PF: M011 SMA: M-SMA-9.1

Photo 7467-2.JPG (taken 08/06/10) M01101020001 : Seed and Mulch - Seed and Gravel Mulch.

Photo 7467-3.JPG (taken 08/06/10) M01102020006 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.

PF: M011 SMA: M-SMA-9.1

Photo 7467-4.JPG (taken 08/06/10) M01106010005 : Check Dam - Rock Check Dam.

ENCLOSURE 3

Certification of Completion of Baseline Control Measures for 1 Site Monitoring Area in the Pajarito Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
J003	PJ-SMA-3.05

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penaly of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

A R Grieggs

Anthony R. Grieggs
Group Leader, ENV-RCRA
Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Office
National Nuclear Security Administration

2/09/11
Date

PF: J003 SMA: PJ-SMA-3.05

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
J00303040008	Berms	Asphalt Berm	10882-1r.JPG			X	X
J00306010007	Check Dam	Rock Check Dam	10882-3r.JPG		X		X
J00306010006	Check Dam	Rock Check Dam	10882-3r.JPG		X		X
J00302010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	10882-2r.JPG	X			

Comments

None applicable.

Photo 10882-1r.JPG (taken 10/04/10) J00303040008 : Berms - Asphalt Berm.

PF: J003 SMA: PJ-SMA-3.05

Photo 10882-2r.JPG (taken 10/04/10) J00302010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 10882-3r.JPG (taken 10/04/10) J00306010006 : Check Dam - Rock Check Dam; J00306010007 : Check Dam - Rock Check Dam.

ENCLOSURE 4

Certification of Completion of Baseline Control Measures for 4 Site Monitoring Areas in Cañon de Valle in the Water/Cañon de Valle Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
V010	CDV-SMA-3
V011	CDV-SMA-4
V012	CDV-SMA-6.01
V012A	CDV-SMA-6.02

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

CERTIFICATION STATEMENT OF AUTHORIZATION

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Anthony R. Grieggs
Group Leader, ENV-RCRA
Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Ofiice
National Nuclear Security Administration

2/09/11
Date

PF: V010 SMA: CDV-SMA-3

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
V01003120009	Berms	Rock Berm	8533-1r.JPG		X		X
V01003120005	Berms	Rock Berm	8533-3r.JPG			X	X
V01004060007	Channel/Swale	Rip Rap	8533-4r.JPG	X		X	
V01004060008	Channel/Swale	Rip Rap	8533-1r.JPG	X	X		
V01006010004	Check Dam	Rock Check Dam	8533-2r.JPG		X		X
V01002010003	Established Vegetation	Permanent Vegetation Grasses and Shrubs	8533-5r.JPG	X			

Comments

None applicable.

Photo 8533-1r.JPG (taken 08/23/10) V01003120009 : Berms - Rock Berm; V01004060008 : Channel/Swale - Rip Rap.

PF: V010 SMA: CDV-SMA-3

Photo 8533-2r.JPG (taken 08/23/10) V01006010004 : Check Dam - Rock Check Dam.

Photo 8533-3r.JPG (taken 08/23/10) V01003120005 : Berms - Rock Berm.

PF: V010 SMA: CDV-SMA-3

Photo 8533-4r.JPG (taken 08/23/10) V01004060007 : Channel/Swale - Rip Rap.

Photo 8533-5r.JPG (taken 08/23/10) V01002010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: V011 SMA: CDV-SMA-4

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
V01103120002	Berms	Rock Berm	8535-1r.JPG			X	X
V01106010003	Check Dam	Rock Check Dam	8535-1r.JPG		X		X
V01102010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	8535-1r.JPG	X			
V01101010004	Seed and Mulch	Seed and Wood Mulch	8535-1r.JPG	X			

Comments

None applicable.

Photo 8535-1r.JPG (taken 08/23/10) V01101010004 : Seed and Mulch - Seed and Wood Mulch; V01102010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; V01103120002 : Berms - Rock Berm; V01106010003 : Check Dam - Rock Check Dam.

PF: V012 SMA: CDV-SMA-6.01

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Established Vegetation	X			
Seed and Mulch	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
V01203020003	Berms	Base Course Berm	10883-2r.JPG		X		X
V01203010006	Berms	Earthen Berm	11625-1r.JPG			X	X
V01203130005	Berms	S-Fence	10883-1r.JPG		X		X
V01203130004	Berms	S-Fence	10883-1r.JPG		X		X
V01203060008	Berms	Straw Wattles	11625-1r.JPG			X	X
V01203060009	Berms	Straw Wattles	11625-1r.JPG			X	X
V01202010002	Established Vegetation	Permanent Vegetation Grasses and Shrubs	10883-3r.JPG	X			
V01201060007	Seed and Mulch	Erosion Control Blanket	10883-1r.JPG	X			
V01201010010	Seed and Mulch	Seed and Wood Mulch	11625-1r.JPG	X			

Comments

None applicable.

PF: V012 SMA: CDV-SMA-6.01

Photo 10883-1r.JPG (taken 10/04/10) V01201060007 : Seed and Mulch - Erosion Control Blanket; V01203130004 : Berms - S-Fence; V01203130005 : Berms - S-Fence.

Photo 10883-2r.JPG (taken 10/04/10) V01203020003 : Berms - Base Course Berm.

PF: V012 SMA: CDV-SMA-6.01

Photo 10883-3r.JPG (taken 10/04/10) V01202010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 11625-1r.JPG (taken 11/02/10) V01201010010 : Seed and Mulch - Seed and Wood Mulch; V01203010006 : Berms - Earthen Berm; V01203060008 : Berms - Straw Wattles; V01203060009 : Berms - Straw Wattles.

PF: V012A SMA: CDV-SMA-6.02

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
V012A03010003	Berms	Earthen Berm	10880-1r.JPG		X		X
V012A03010002	Berms	Earthen Berm	10880-2r.JPG			X	X
V012A02010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	10880-2r.JPG	X			

Comments

None applicable.

Photo 10880-1r.JPG (taken 10/04/10) V012A03010003 : Berms - Earthen Berm.

PF: V012A SMA: CDV-SMA-6.02

Photo 10880-2r.JPG (taken 10/04/10) V012A02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; V012A03010002 : Berms - Earthen Berm.

ENCLOSURE 5

Certification of Completion of Baseline Control Measures for 7 Site Monitoring Areas in the Ancho Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
A002	A-SMA-2
A003	A-SMA-2.5
A004	A-SMA-2.7
A005	A-SMA-2.8
A007	A-SMA-3.5
A008	A-SMA-4
A009	A-SMA-6

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

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Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Ofiice
National Nuclear Security Administration

2/09/11
Date

PF: A002 SMA: A-SMA-2

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Channel/Swale	X		X	
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00203010008	Berms	Earthen Berm	7344-6.JPG			X	X
A00203010007	Berms	Earthen Berm	7344-7.JPG			X	X
A00203060015	Berms	Straw Wattles	11702-1r.JPG			X	X
A00203060010	Berms	Straw Wattles	7344-5.JPG		X		X
A00204010013	Channel/Swale	Earthen Channel/Swale	11702-2r.JPG	X		X	
A00204060004	Channel/Swale	Rip Rap	7344-1.JPG	X		X	
A00206010012	Check Dam	Rock Check Dam	7344-3.JPG			X	X
A00206010011	Check Dam	Rock Check Dam	7344-3.JPG			X	X
A00202010003	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7344-4.JPG	X			

Comments

None applicable.

PF: A002 SMA: A-SMA-2

Photo 11702-1r.JPG (taken 11/15/10) A00203060015 : Berms - Straw Wattles.

Photo 11702-2r.JPG (taken 11/15/10) A00204010013 : Channel/Swale - Earthen Channel/Swale.

PF: A002 SMA: A-SMA-2

Photo 7344-1.JPG (taken 07/26/10) A00204060004 : Channel/Swale - Rip Rap.

Photo 7344-3.JPG (taken 07/26/10) A00206010011 : Check Dam - Rock Check Dam; A00206010012 : Check Dam - Rock Check Dam.

PF: A002 SMA: A-SMA-2

Photo 7344-4.JPG (taken 07/26/10) A00202010003 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 7344-5.JPG (taken 07/26/10) A00203060010 : Berms - Straw Wattles.

PF: A002 SMA: A-SMA-2

Photo 7344-6.JPG (taken 07/26/10) A00203010008 : Berms - Earthen Berm.

Photo 7344-7.JPG (taken 07/26/10) A00203010007 : Berms - Earthen Berm.

PF: A003 SMA: A-SMA-2.5

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00303010003	Berms	Earthen Berm	7346-1.JPG		X		X
A00303060006	Berms	Straw Wattles	7346-3.JPG			X	X
A00303060005	Berms	Straw Wattles	7346-3.JPG			X	X
A00302010002	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7346-2.JPG	X			
A00301060004	Seed and Mulch	Erosion Control Blanket	7346-1.JPG	X			

Comments

None applicable.

Photo 7346-1.JPG (taken 07/26/10) A00301060004 : Seed and Mulch - Erosion Control Blanket; A00303010003 : Berms - Earthen Berm.

PF: A003 SMA: A-SMA-2.5

Photo 7346-2.JPG (taken 07/26/10) A00302010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 7346-3.JPG (taken 07/26/10) A00303060005 : Berms - Straw Wattles; A00303060006 : Berms - Straw Wattles.

PF: A004 SMA: A-SMA-2.7

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Channel/Swale	X		X	
Check Dam			X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00403060005	Berms	Straw Wattles	7347-5.JPG		X		X
A00403060006	Berms	Straw Wattles	7347-5.JPG		X		X
A00403060011	Berms	Straw Wattles	7347-2.JPG		X		X
A00404040003	Channel/Swale	Culvert	7347-6.JPG	X		X	
A00404010001	Channel/Swale	Earthen Channel/Swale	7347-3.JPG	X		X	
A00406010007	Check Dam	Rock Check Dam	7347-4.JPG			X	X
A00406010008	Check Dam	Rock Check Dam	7347-4.JPG			X	X
A00406010009	Check Dam	Rock Check Dam	7347-4.JPG			X	X
A00406010010	Check Dam	Rock Check Dam	7347-3.JPG		X		X
A00402010002	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7347-1.JPG	X			

Comments

None applicable.

PF: A004 SMA: A-SMA-2.7

Photo 7347-1.JPG (taken 07/26/10) A00402010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 7347-2.JPG (taken 07/26/10) A00403060011 : Berms - Straw Wattles.

PF: A004 SMA: A-SMA-2.7

Photo 7347-3.JPG (taken 07/26/10) A00404010001 : Channel/Swale - Earthen Channel/Swale; A00406010010 : Check Dam - Rock Check Dam.

Photo 7347-4.JPG (taken 07/26/10) A00406010007 : Check Dam - Rock Check Dam; A00406010008 : Check Dam - Rock Check Dam; A00406010009 : Check Dam - Rock Check Dam.

PF: A004 SMA: A-SMA-2.7

Photo 7347-5.JPG (taken 07/26/10) A00403060005 : Berms - Straw Wattles; A00403060006 : Berms - Straw Wattles.

Photo 7347-6.JPG (taken 07/26/10) A00404040003 : Channel/Swale - Culvert.

PF: A005 SMA: A-SMA-2.8

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Established Vegetation	X			
Seed and Mulch	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00503010002	Berms	Earthen Berm	11692-1r.JPG		X		X
A00502010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	11692-1r.JPG	X			
A00501030003	Seed and Mulch	Hydromulch	11692-2r.JPG	X			

Comments

No source of run-on to this site. Run-on controls are not needed.

Photo 11692-1r.JPG (taken 11/10/10) A00502010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; A00503010002 : Berms - Earthen Berm.

PF: A005 SMA: A-SMA-2.8

Photo 11692-2r.JPG (taken 11/10/10) A00501030003 : Seed and Mulch - Hydromulch.

PF: A007 SMA: A-SMA-3.5

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00703060002	Berms	Straw Wattles	7348-2.JPG		X		X
A00702010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7348-1.JPG	X			

Comments

No source of run-on to this site. Run-on controls are not needed.

Photo 7348-1.JPG (taken 07/26/10) A00702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: A007 SMA: A-SMA-3.5

Photo 7348-2.JPG (taken 07/26/10) A00703060002 : Berms - Straw Wattles.

PF: A008 SMA: A-SMA-4

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Channel/Swale			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00803010007	Berms	Earthen Berm	7349-4.JPG			X	
A00803060002	Berms	Straw Wattles	7349-3.JPG			X	X
A00804050005	Channel/Swale	Water Bar	7349-1.JPG			X	
A00804050006	Channel/Swale	Water Bar	7349-1.JPG			X	
A00806010004	Check Dam	Rock Check Dam	7349-5.JPG		X		X
A00806010003	Check Dam	Rock Check Dam	7349-6.JPG			X	X
A00802010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7349-2.JPG	X			
A00801060008	Seed and Mulch	Erosion Control Blanket	7349-4.JPG	X			

Comments

Sediment control managed by berms and check dams at SMA. Sediment control function of channel/swale not needed.

PF: A008 SMA: A-SMA-4

Photo 7349-1.JPG (taken 07/26/10) A00804050005 : Channel/Swale - Water Bar; A00804050006 : Channel/Swale - Water Bar.

Photo 7349-2.JPG (taken 07/26/10) A00802010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: A008 SMA: A-SMA-4

Photo 7349-3.JPG (taken 07/26/10) A00803060002 : Berms - Straw Wattles.

Photo 7349-4.JPG (taken 07/26/10) A00801060008 : Seed and Mulch - Erosion Control Blanket; A00803010007 : Berms - Earthen Berm.

PF: A008 SMA: A-SMA-4

Photo 7349-5.JPG (taken 07/26/10) A00806010004 : Check Dam - Rock Check Dam.

Photo 7349-6.JPG (taken 07/26/10) A00806010003 : Check Dam - Rock Check Dam.

PF: A009 SMA: A-SMA-6

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Channel/Swale	X	X		
Check Dam		X	X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
A00903010021	Berms	Earthen Berm	8537-1.JPG		X		X
A00903060001	Berms	Straw Wattles	8537-1.JPG			X	X
A00904020007	Channel/Swale	Concrete/Asphalt Channel/Swale	8537-10r.JPG	X	X		
A00904060005	Channel/Swale	Rip Rap	8537-10r.JPG	X	X		
A00906010017	Check Dam	Rock Check Dam	8537-6.JPG		X		X
A00906010008	Check Dam	Rock Check Dam	8537-9.JPG		X		X
A00906010014	Check Dam	Rock Check Dam	8537-3.JPG		X		X
A00906010015	Check Dam	Rock Check Dam	8537-5.JPG		X		X
A00906010016	Check Dam	Rock Check Dam	8537-6.JPG		X		X
A00906010011	Check Dam	Rock Check Dam	8537-11.JPG		X		X
A00906010018	Check Dam	Rock Check Dam	8537-6.JPG		X		X
A00906010019	Check Dam	Rock Check Dam	8537-1.JPG		X		X
A00906010013	Check Dam	Rock Check Dam	8537-4.JPG			X	X
A00906010012	Check Dam	Rock Check Dam	8537-11.JPG		X		X
A00906010020	Check Dam	Rock Check Dam	8537-1.JPG		X		X
A00906010010	Check Dam	Rock Check Dam	8537-7.JPG		X		X
A00906010009	Check Dam	Rock Check Dam	8537-8.JPG		X		X
A00902010006	Established Vegetation	Permanent Vegetation Grasses and Shrubs	8537-2.JPG	X			
A00901060022	Seed and Mulch	Erosion Control Blanket	8537-1.JPG	X			

Comments

None applicable.

PF: A009 SMA: A-SMA-6

Photo 8537-1.JPG (taken 07/26/10) A00901060022 : Seed and Mulch - Erosion Control Blanket; A00903010021 : Berms - Earthen Berm; A00903060001 : Berms - Straw Wattles; A00906010019 : Check Dam - Rock Check Dam; A00906010020 : Check Dam - Rock Check Dam.

Photo 8537-10r.JPG (taken 07/26/10) A00904020007 : Channel/Swale - Concrete/Asphalt Channel/Swale; A00904060005 : Channel/Swale - Rip Rap.

PF: A009 SMA: A-SMA-6

Photo 8537-11.JPG (taken 07/26/10) A00906010011 : Check Dam - Rock Check Dam; A00906010012 : Check Dam - Rock Check Dam.

Photo 8537-2.JPG (taken 07/26/10) A00902010006 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: A009 SMA: A-SMA-6

Photo 8537-3.JPG (taken 07/26/10) A00906010014 : Check Dam - Rock Check Dam.

Photo 8537-4.JPG (taken 07/26/10) A00906010013 : Check Dam - Rock Check Dam.

PF: A009 SMA: A-SMA-6

Photo 8537-5.JPG (taken 07/26/10) A00906010015 : Check Dam - Rock Check Dam.

Photo 8537-6.JPG (taken 07/26/10) A00906010016 : Check Dam - Rock Check Dam; A00906010017 : Check Dam - Rock Check Dam; A00906010018 : Check Dam - Rock Check Dam.

PF: A009 SMA: A-SMA-6

Photo 8537-7.JPG (taken 07/26/10) A00906010010 : Check Dam - Rock Check Dam.

Photo 8537-8.JPG (taken 07/26/10) A00906010009 : Check Dam - Rock Check Dam.

PF: A009 SMA: A-SMA-6

Photo 8537-9.JPG (taken 07/26/10) A00906010008 : Check Dam - Rock Check Dam.

ENCLOSURE 6

Certification of Completion of Baseline Control Measures for 11 Site Monitoring Areas in the Chaquehui Watershed

February 11, 2011

ENV-RCRA-11-0026

LA-UR-11-00912

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CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

PERMITTED FEATURE	SITE MONITORING AREA
Q001	CHQ-SMA-0.5
Q002	CHQ-SMA-1.01
Q002A	CHQ-SMA-1.02
Q002B	CHQ-SMA-1.03
Q003	CHQ-SMA-2
Q004	CHQ-SMA-3.05
Q005	CHQ-SMA-4
Q006	CHQ-SMA-4.1
Q007	CHQ-SMA-4.5
Q009	CHQ-SMA-6
Q010	CHQ-SMA-7.1

CERTIFICATION OF COMPLETION OF BASELINE CONTROL MEASURE IMPLEMENTATION AT THE FOLLOWING PERMITTED FEATURES / SITE MONITORING AREAS

CERTIFICATION STATEMENT OF AUTHORIZATION

"I certify under penaly of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

A R Grieggs

Anthony R. Grieggs
Group Leader, ENV-RCRA
Environmental Protection Division
Los Alamos National Laboratory

2/9/11
Date

Gene Turner

Gene Turner, Environmental Permitting
Los Alamos Site Office
National Nuclear Security Administration

2/09/11
Date

PF: Q001 SMA: CHQ-SMA-0.5

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Channel/Swale			X	X
Check Dam			X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00103020002	Berms	Base Course Berm	7350-1.JPG		X		X
Q00104050007	Channel/Swale	Water Bar	7350-3.JPG			X	X
Q00104050006	Channel/Swale	Water Bar	7350-3.JPG			X	X
Q00106010005	Check Dam	Rock Check Dam	7350-4.JPG			X	X
Q00106010003	Check Dam	Rock Check Dam	7350-6.JPG			X	X
Q00106010004	Check Dam	Rock Check Dam	7350-5.JPG			X	X
Q00102010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7350-2.JPG	X			

Comments

None applicable.

PF: Q001 SMA: CHQ-SMA-0.5

Photo 7350-1.JPG (taken 07/26/10) Q00103020002 : Berms - Base Course Berm.

Photo 7350-2.JPG (taken 07/26/10) Q00102010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: Q001 SMA: CHQ-SMA-0.5

Photo 7350-3.JPG (taken 07/26/10) Q00104050006 : Channel/Swale - Water Bar; Q00104050007 : Channel/Swale - Water Bar.

Photo 7350-4.JPG (taken 07/26/10) Q00106010005 : Check Dam - Rock Check Dam.

PF: Q001 SMA: CHQ-SMA-0.5

Photo 7350-5.JPG (taken 07/26/10) Q00106010004 : Check Dam - Rock Check Dam.

Photo 7350-6.JPG (taken 07/26/10) Q00106010003 : Check Dam - Rock Check Dam.

PF: Q002 SMA: CHQ-SMA-1.01

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00203020007	Berms	Base Course Berm	7351-2.JPG			X	X
Q00203060005	Berms	Straw Wattles	7351-3.JPG		X		X
Q00203060003	Berms	Straw Wattles	7351-3.JPG		X		X
Q00202010002	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7351-1.JPG	X			
Q00201020001	Seed and Mulch	Seed and Gravel Mulch	7351-1.JPG	X		X	

Comments

None applicable.

Photo 7351-1.JPG (taken 07/27/10) Q00201020001 : Seed and Mulch - Seed and Gravel Mulch; Q00202010002 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: Q002 SMA: CHQ-SMA-1.01

Photo 7351-2.JPG (taken 07/27/10) Q00203020007 : Berms - Base Course Berm.

Photo 7351-3.JPG (taken 07/27/10) Q00203060003 : Berms - Straw Wattles; Q00203060005 : Berms - Straw Wattles.

PF: Q002A SMA: CHQ-SMA-1.02

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Cap	X			
Check Dam		X	X	X

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q002A08030004	Cap	Concrete/Asphalt Cap	7352-8.JPG	X			
Q002A06010002	Check Dam	Rock Check Dam	7352-1.JPG		X		X
Q002A06010003	Check Dam	Rock Check Dam	7352-2.JPG		X		X
Q002A06010008	Check Dam	Rock Check Dam	7352-7.JPG			X	X
Q002A06010009	Check Dam	Rock Check Dam	11463-1r.JPG		X		X
Q002A06010001	Check Dam	Rock Check Dam	7352-3.JPG		X		X
Q002A06010007	Check Dam	Rock Check Dam	7352-6.JPG			X	X

Comments

None applicable.

Photo 11463-1r.JPG (taken 10/22/10) Q002A06010009 : Check Dam - Rock Check Dam.

PF: Q002A SMA: CHQ-SMA-1.02

Photo 7352-1.JPG (taken 07/27/10) Q002A06010002 : Check Dam - Rock Check Dam.

Photo 7352-2.JPG (taken 07/27/10) Q002A06010003 : Check Dam - Rock Check Dam.

PF: Q002A SMA: CHQ-SMA-1.02

Photo 7352-3.JPG (taken 07/27/10) Q002A06010001 : Check Dam - Rock Check Dam.

Photo 7352-6.JPG (taken 07/27/10) Q002A06010007 : Check Dam - Rock Check Dam.

PF: Q002A SMA: CHQ-SMA-1.02

Photo 7352-7.JPG (taken 07/27/10) Q002A06010008 : Check Dam - Rock Check Dam.

Photo 7352-8.JPG (taken 07/27/10) Q002A08030004 : Cap - Concrete/Asphalt Cap.

PF: Q002B SMA: CHQ-SMA-1.03

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Cap	X	X		
Channel/Swale	X		X	
Check Dam		X		X
Established Vegetation	X	X	X	

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q002B08030003	Cap	Concrete/Asphalt Cap	8654-9.JPG	X	X		
Q002B04060006	Channel/Swale	Rip Rap	8654-2.JPG	X		X	
Q002B04060009	Channel/Swale	Rip Rap	8654-3.JPG	X	X		
Q002B04060010	Channel/Swale	Rip Rap	8654-7.JPG	X	X		
Q002B04060007	Channel/Swale	Rip Rap	8654-6.JPG	X	X		
Q002B06010004	Check Dam	Rock Check Dam	8654-6.JPG		X		X
Q002B06010011	Check Dam	Rock Check Dam	10548-1r.JPG		X		X
Q002B06010005	Check Dam	Rock Check Dam	8654-4.JPG		X		X
Q002B06010008	Check Dam	Rock Check Dam	8654-5.JPG		X		X
Q002B02010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	8654-8.JPG	X			
Q002B02030002	Established Vegetation	Permanent Vegetation Vegetative Buffer Strip	8654-1.JPG	X	X	X	

Comments

None applicable.

PF: Q002B SMA: CHQ-SMA-1.03

Photo 10548-1r.JPG (taken 09/20/10) Q002B06010011 : Check Dam - Rock Check Dam.

Photo 8654-1.JPG (taken 07/27/10) Q002B02030002 : Established Vegetation - Permanent Vegetation Vegetative Buffer Strip.

PF: Q002B SMA: CHQ-SMA-1.03

Photo 8654-2.JPG (taken 07/27/10) Q002B04060006 : Channel/Swale - Rip Rap.

Photo 8654-3.JPG (taken 07/27/10) Q002B04060009 : Channel/Swale - Rip Rap.

PF: Q002B SMA: CHQ-SMA-1.03

Photo 8654-4.JPG (taken 07/27/10) Q002B06010005 : Check Dam - Rock Check Dam.

Photo 8654-5.JPG (taken 07/27/10) Q002B06010008 : Check Dam - Rock Check Dam.

PF: Q002B SMA: CHQ-SMA-1.03

Photo 8654-6.JPG (taken 07/27/10) Q002B04060007 : Channel/Swale - Rip Rap; Q002B06010004 : Check Dam - Rock Check Dam.

Photo 8654-7.JPG (taken 07/27/10) Q002B04060010 : Channel/Swale - Rip Rap.

PF: Q002B SMA: CHQ-SMA-1.03

Photo 8654-8.JPG (taken 07/27/10) Q002B02010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 8654-9.JPG (taken 07/27/10) Q002B08030003 : Cap - Concrete/Asphalt Cap.

PF: Q003 SMA: CHQ-SMA-2

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Channel/Swale	X		X	
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00303040015	Berms	Asphalt Berm	10887-02r.JPG			X	X
Q00303020001	Berms	Base Course Berm	10887-05r.JPG			X	X
Q00303020006	Berms	Base Course Berm	10887-13r.JPG			X	X
Q00303060021	Berms	Straw Wattles	10887-08r.JPG			X	X
Q00303060020	Berms	Straw Wattles	10887-07r.JPG			X	X
Q00303060016	Berms	Straw Wattles	10887-07r.JPG			X	X
Q00303060019	Berms	Straw Wattles	10887-07r.JPG			X	X
Q00303060018	Berms	Straw Wattles	10887-07r.JPG			X	X
Q00303060017	Berms	Straw Wattles	10887-07r.JPG			X	X
Q00304060007	Channel/Swale	Rip Rap	10887-12r.JPG	X		X	
Q00304060002	Channel/Swale	Rip Rap	10887-05r.JPG	X		X	
Q00306010003	Check Dam	Rock Check Dam	10887-09r.JPG		X		X
Q00306010009	Check Dam	Rock Check Dam	10887-04r.JPG			X	X
Q00306010008	Check Dam	Rock Check Dam	10887-11r.JPG		X		X
Q00306010014	Check Dam	Rock Check Dam	10887-06r.JPG			X	X
Q00306010010	Check Dam	Rock Check Dam	10887-04r.JPG			X	X
Q00306010011	Check Dam	Rock Check Dam	10887-04r.JPG			X	X
Q00306010012	Check Dam	Rock Check Dam	10887-03r.JPG			X	X
Q00306010013	Check Dam	Rock Check Dam	10887-03r.JPG			X	X
Q00302020005	Established Vegetation	Permanent Vegetation Forested/Needle Cast	10887-10r.JPG	X			
Q00302010004	Established Vegetation	Permanent Vegetation Grasses and Shrubs	10887-10r.JPG	X			
Q00301030022	Seed and Mulch	Hydromulch	10887-01r.JPG	X			

Comments

None applicable.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-01r.JPG (taken 10/06/10) Q00301030022 : Seed and Mulch - Hydromulch.

Photo 10887-02r.JPG (taken 10/06/10) Q00303040015 : Berms - Asphalt Berm.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-03r.JPG (taken 10/06/10) Q00306010012 : Check Dam - Rock Check Dam; Q00306010013 : Check Dam - Rock Check Dam.

Photo 10887-04r.JPG (taken 10/06/10) Q00306010009 : Check Dam - Rock Check Dam; Q00306010010 : Check Dam - Rock Check Dam; Q00306010011 : Check Dam - Rock Check Dam.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-05r.JPG (taken 10/06/10) Q00303020001 : Berms - Base Course Berm; Q00304060002 : Channel/Swale - Rip Rap.

Photo 10887-06r.JPG (taken 10/06/10) Q00306010014 : Check Dam - Rock Check Dam.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-07r.JPG (taken 10/06/10) Q00303060016 : Berms - Straw Wattles; Q00303060017 : Berms - Straw Wattles; Q00303060018 : Berms - Straw Wattles; Q00303060019 : Berms - Straw Wattles; Q00303060020 : Berms - Straw Wattles.

Photo 10887-08r.JPG (taken 10/06/10) Q00303060021 : Berms - Straw Wattles.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-09r.JPG (taken 10/06/10) Q00306010003 : Check Dam - Rock Check Dam.

Photo 10887-10r.JPG (taken 10/06/10) Q00302010004 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; Q00302020005 : Established Vegetation - Permanent Vegetation Forested/Needle Cast.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-11r.JPG (taken 10/06/10) Q00306010008 : Check Dam - Rock Check Dam.

Photo 10887-12r.JPG (taken 10/06/10) Q00304060007 : Channel/Swale - Rip Rap.

PF: Q003 SMA: CHQ-SMA-2

Photo 10887-13r.JPG (taken 10/06/10) Q00303020006 : Berms - Base Course Berm.

PF: Q004 SMA: CHQ-SMA-3.05

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00403060004	Berms	Straw Wattles	7353-4.JPG		X		X
Q00403060005	Berms	Straw Wattles	7353-4.JPG		X		X
Q00403060002	Berms	Straw Wattles	7353-1.JPG			X	X
Q00403060003	Berms	Straw Wattles	7353-2.JPG			X	X
Q00406010006	Check Dam	Rock Check Dam	7353-3.JPG		X		X
Q00406010007	Check Dam	Rock Check Dam	7353-3.JPG		X		X
Q00402010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7353-5.JPG	X			

Comments

None applicable.

PF: Q004 SMA: CHQ-SMA-3.05

Photo 7353-1.JPG (taken 07/27/10) Q00403060002 : Berms - Straw Wattles.

Photo 7353-2.JPG (taken 07/27/10) Q00403060003 : Berms - Straw Wattles.

PF: Q004 SMA: CHQ-SMA-3.05

Photo 7353-3.JPG (taken 07/27/10) Q00406010006 : Check Dam - Rock Check Dam; Q00406010007 : Check Dam - Rock Check Dam.

Photo 7353-4.JPG (taken 07/27/10) Q00403060004 : Berms - Straw Wattles; Q00403060005 : Berms - Straw Wattles.

PF: Q004 SMA: CHQ-SMA-3.05

Photo 7353-5.JPG (taken 07/27/10) Q00402010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: Q005 SMA: CHQ-SMA-4

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X	X	X
Check Dam		X		X
Established Vegetation	X			
Seed and Mulch	X		X	

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00503060012	Berms	Straw Wattles	10888-3r.JPG		X		X
Q00503060011	Berms	Straw Wattles	10888-5r.JPG		X		X
Q00503060007	Berms	Straw Wattles	10888-6r.JPG			X	X
Q00503060008	Berms	Straw Wattles	10888-6r.JPG			X	X
Q00503060013	Berms	Straw Wattles	10888-3r.JPG		X		X
Q00503060006	Berms	Straw Wattles	10888-6r.JPG			X	X
Q00503060002	Berms	Straw Wattles	10888-4r.JPG		X		X
Q00503060010	Berms	Straw Wattles	10888-5r.JPG		X		X
Q00503060014	Berms	Straw Wattles	10888-3r.JPG		X		X
Q00503060009	Berms	Straw Wattles	10888-7r.JPG			X	X
Q00506010003	Check Dam	Rock Check Dam	10888-2r.JPG		X		X
Q00506010005	Check Dam	Rock Check Dam	10888-2r.JPG		X		X
Q00506010004	Check Dam	Rock Check Dam	10888-2r.JPG		X		X
Q00502010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	10888-6r.JPG	X			
Q00501030015	Seed and Mulch	Hydromulch	10888-1r.JPG	X			

Comments

Run-on control function managed by berms at site. Run-on control function of seed and mulch not needed.

PF: Q005 SMA: CHQ-SMA-4

Photo 10888-1r.JPG (taken 10/06/10) Q00501030015 : Seed and Mulch - Hydromulch.

Photo 10888-2r.JPG (taken 10/06/10) Q00506010003 : Check Dam - Rock Check Dam; Q00506010004 : Check Dam - Rock Check Dam; Q00506010005 : Check Dam - Rock Check Dam.

PF: Q005 SMA: CHQ-SMA-4

Photo 10888-3r.JPG (taken 10/06/10) Q00503060012 : Berms - Straw Wattles; Q00503060013 : Berms - Straw Wattles; Q00503060014 : Berms - Straw Wattles.

Photo 10888-4r.JPG (taken 10/06/10) Q00503060002 : Berms - Straw Wattles.

PF: Q005 SMA: CHQ-SMA-4

Photo 10888-5r.JPG (taken 10/06/10) Q00503060010 : Berms - Straw Wattles; Q00503060011 : Berms - Straw Wattles.

Photo 10888-6r.JPG (taken 10/06/10) Q00502010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs; Q00503060006 : Berms - Straw Wattles; Q00503060007 : Berms - Straw Wattles; Q00503060008 : Berms - Straw Wattles.

PF: Q005 SMA: CHQ-SMA-4

Photo 10888-7r.JPG (taken 10/06/10) Q00503060009 : Berms - Straw Wattles.

PF: Q006 SMA: CHQ-SMA-4.1

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00603060006	Berms	Straw Wattles	7354-1.JPG			X	X
Q00603060007	Berms	Straw Wattles	7354-2.JPG			X	X
Q00603060004	Berms	Straw Wattles	7354-1.JPG			X	X
Q00603060005	Berms	Straw Wattles	7354-1.JPG			X	X
Q00606010002	Check Dam	Rock Check Dam	7354-5.JPG		X		X
Q00606010003	Check Dam	Rock Check Dam	7354-4.JPG		X		X
Q00602010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7354-3.JPG	X			

Comments

None applicable.

PF: Q006 SMA: CHQ-SMA-4.1

Photo 7354-1.JPG (taken 07/27/10) Q00603060004 : Berms - Straw Wattles; Q00603060005 : Berms - Straw Wattles; Q00603060006 : Berms - Straw Wattles.

Photo 7354-2.JPG (taken 07/27/10) Q00603060007 : Berms - Straw Wattles.

PF: Q006 SMA: CHQ-SMA-4.1

Photo 7354-3.JPG (taken 07/27/10) Q00602010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 7354-4.JPG (taken 07/27/10) Q00606010003 : Check Dam - Rock Check Dam.

PF: Q006 SMA: CHQ-SMA-4.1

Photo 7354-5.JPG (taken 07/27/10) Q00606010002 : Check Dam - Rock Check Dam.

PF: Q007 SMA: CHQ-SMA-4.5

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Check Dam		X		X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00703060006	Berms	Straw Wattles	7355-2.JPG		X		X
Q00703060007	Berms	Straw Wattles	7355-2.JPG		X		X
Q00703060008	Berms	Straw Wattles	7355-6.JPG		X		X
Q00703060005	Berms	Straw Wattles	7355-2.JPG		X		X
Q00703060004	Berms	Straw Wattles	7355-3.JPG		X		X
Q00706010002	Check Dam	Rock Check Dam	7355-5.JPG		X		X
Q00706010003	Check Dam	Rock Check Dam	7355-4.JPG		X		X
Q00702010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7355-1.JPG	X			

Comments

None applicable.

PF: Q007 SMA: CHQ-SMA-4.5

Photo 7355-1.JPG (taken 07/26/10) Q00702010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

Photo 7355-2.JPG (taken 07/26/10) Q00703060005 : Berms - Straw Wattles; Q00703060006 : Berms - Straw Wattles; Q00703060007 : Berms - Straw Wattles.

PF: Q007 SMA: CHQ-SMA-4.5

Photo 7355-3.JPG (taken 07/26/10) Q00703060004 : Berms - Straw Wattles.

Photo 7355-4.JPG (taken 07/26/10) Q00706010003 : Check Dam - Rock Check Dam.

PF: Q007 SMA: CHQ-SMA-4.5

Photo 7355-5.JPG (taken 07/26/10) Q00706010002 : Check Dam - Rock Check Dam.

Photo 7355-6.JPG (taken 07/26/10) Q00703060008 : Berms - Straw Wattles.

PF: Q009 SMA: CHQ-SMA-6

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms		X		X
Check Dam		X	X	X
Established Vegetation	X			
Seed and Mulch	X	X	X	

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00903010017	Berms	Earthen Berm	11464-16r.JPG		X		X
Q00903060016	Berms	Straw Wattles	11464-08r.JPG		X		X
Q00903060015	Berms	Straw Wattles	11464-08r.JPG		X		X
Q00903060014	Berms	Straw Wattles	11464-08r.JPG		X		X
Q00903060009	Berms	Straw Wattles	11464-18r.JPG			X	X
Q00903060003	Berms	Straw Wattles	11464-08r.JPG		X		X
Q00903060012	Berms	Straw Wattles	11464-17r.JPG			X	X
Q00903060013	Berms	Straw Wattles	11464-17r.JPG			X	X
Q00903060010	Berms	Straw Wattles	11464-17r.JPG			X	X
Q00906010026	Check Dam	Rock Check Dam	11464-10r.JPG			X	X
Q00906010001	Check Dam	Rock Check Dam	11464-06r.JPG		X		X
Q00906010027	Check Dam	Rock Check Dam	11464-02r.JPG			X	X
Q00906010025	Check Dam	Rock Check Dam	11464-09r.JPG			X	X
Q00906010002	Check Dam	Rock Check Dam	11464-06r.JPG		X		X
Q00906010024	Check Dam	Rock Check Dam	11464-09r.JPG			X	X
Q00906010023	Check Dam	Rock Check Dam	11464-11r.JPG		X		X
Q00906010022	Check Dam	Rock Check Dam	11464-12r.JPG		X		X
Q00906010021	Check Dam	Rock Check Dam	11464-13r.JPG		X		X
Q00906010020	Check Dam	Rock Check Dam	11464-14r.JPG			X	X
Q00906010019	Check Dam	Rock Check Dam	11464-15r.JPG			X	X
Q00906010018	Check Dam	Rock Check Dam	11464-03r.JPG			X	X
Q00906010011	Check Dam	Rock Check Dam	11464-03r.JPG			X	X
Q00906010008	Check Dam	Rock Check Dam	11464-04r.JPG		X		X
Q00906010007	Check Dam	Rock Check Dam	11464-05r.JPG		X		X
Q00902010005	Established Vegetation	Permanent Vegetation Grasses and Shrubs	11464-19r.JPG	X			

PF: Q009 SMA: CHQ-SMA-6

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q00901060006	Seed and Mulch	Erosion Control Blanket	11464-07r.JPG	X	X		
Q00901030028	Seed and Mulch	Hydromulch	11464-01r.JPG	X			

Comments

Run-on control function managed by berms and rock check dams. Run-on control function of seed and mulch not needed.

Photo 11464-01r.JPG (taken 10/22/10) Q00901030028 : Seed and Mulch - Hydromulch.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-02r.JPG (taken 10/22/10) Q00906010027 : Check Dam - Rock Check Dam.

Photo 11464-03r.JPG (taken 10/22/10) Q00906010011 : Check Dam - Rock Check Dam; Q00906010018 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-04r.JPG (taken 10/22/10) Q00906010008 : Check Dam - Rock Check Dam.

Photo 11464-05r.JPG (taken 10/22/10) Q00906010007 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-06r.JPG (taken 10/22/10) Q00906010001 : Check Dam - Rock Check Dam; Q00906010002 : Check Dam - Rock Check Dam.

Photo 11464-07r.JPG (taken 10/22/10) Q00901060006 : Seed and Mulch - Erosion Control Blanket.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-08r.JPG (taken 10/22/10) Q00903060003 : Berms - Straw Wattles; Q00903060014 : Berms - Straw Wattles; Q00903060015 : Berms - Straw Wattles; Q00903060016 : Berms - Straw Wattles.

Photo 11464-09r.JPG (taken 10/22/10) Q00906010024 : Check Dam - Rock Check Dam; Q00906010025 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-10r.JPG (taken 10/22/10) Q00906010026 : Check Dam - Rock Check Dam.

Photo 11464-11r.JPG (taken 10/22/10) Q00906010023 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-12r.JPG (taken 10/22/10) Q00906010022 : Check Dam - Rock Check Dam.

Photo 11464-13r.JPG (taken 10/22/10) Q00906010021 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-14r.JPG (taken 10/22/10) Q00906010020 : Check Dam - Rock Check Dam.

Photo 11464-15r.JPG (taken 10/22/10) Q00906010019 : Check Dam - Rock Check Dam.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-16r.JPG (taken 10/22/10) Q00903010017 : Berms - Earthen Berm.

Photo 11464-17r.JPG (taken 10/22/10) Q00903060010 : Berms - Straw Wattles; Q00903060012 : Berms - Straw Wattles; Q00903060013 : Berms - Straw Wattles.

PF: Q009 SMA: CHQ-SMA-6

Photo 11464-18r.JPG (taken 10/22/10) Q00903060009 : Berms - Straw Wattles.

Photo 11464-19r.JPG (taken 10/22/10) Q00902010005 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: Q010 SMA: CHQ-SMA-7.1

Baseline Control Measures Required :

Type of Control Measure	Erosion Control (EC)	Run-Off Control (ROF)	Run-On Control (RON)	Sediment Control (SC)
Berms			X	X
Channel/Swale			X	X
Check Dam		X	X	X
Established Vegetation	X			

Baseline Control Measures Installed :

BMP ID	Type of Control Measure	Control Measure	Photo ID	EC	ROF	RON	SC
Q01003060006	Berms	Straw Wattles	7357-2.JPG			X	X
Q01003060007	Berms	Straw Wattles	7357-3.JPG			X	X
Q01003060002	Berms	Straw Wattles	7357-2.JPG			X	X
Q01003060005	Berms	Straw Wattles	7357-3.JPG			X	X
Q01004060009	Channel/Swale	Rip Rap	7357-5.JPG	X		X	
Q01006010008	Check Dam	Rock Check Dam	7357-5.JPG			X	X
Q01006010003	Check Dam	Rock Check Dam	7357-1.JPG		X		X
Q01002010001	Established Vegetation	Permanent Vegetation Grasses and Shrubs	7357-4.JPG	X			

Comments

Sediment control function managed by berms and rock check dams. Sediment control function of channel/swale not needed.

PF: Q010 SMA: CHQ-SMA-7.1

Photo 7357-1.JPG (taken 07/27/10) Q01006010003 : Check Dam - Rock Check Dam.

Photo 7357-2.JPG (taken 07/27/10) Q01003060002 : Berms - Straw Wattles; Q01003060006 : Berms - Straw Wattles.

PF: Q010 SMA: CHQ-SMA-7.1

Photo 7357-3.JPG (taken 07/27/10) Q01003060005 : Berms - Straw Wattles; Q01003060007 : Berms - Straw Wattles.

Photo 7357-4.JPG (taken 07/27/10) Q01002010001 : Established Vegetation - Permanent Vegetation Grasses and Shrubs.

PF: Q010 SMA: CHQ-SMA-7.1

Photo 7357-5.JPG (taken 07/27/10) Q01004060009 : Channel/Swale - Rip Rap; Q01006010008 : Check Dam - Rock Check Dam.