



DEPARTMENT OF THE AIR FORCE

21ST SPACE WING (AFSPC)

Chief Environmental Flight
21st Civil Engineer Squadron
580 Goodfellow St
Peterson AFB CO 80914-2370



31 MAR 2003

Mr. Vern Berry (8 EPR-EP)
Small MSA Storm Water NOI
U.S. Environmental Protection Agency Region 8
999 18th Street, Suite 300
Denver CO 80202-2466

Dear Mr. Berry

Attached is the complete submittal of our Storm Water Management Program Plan for Phase II General Permit Requirements Peterson Air Force Base, Colorado. This document includes the measurable goals sent with our NOI on 10 March 2003.

Please do not hesitate to contact me at (719) 556-7305 if you have any questions regarding this submission.

Sincerely

DANIEL M. RODRIGUEZ, GS-13
Chief, Environmental Flight

Attachment:

Storm Water Management Program Plan for Phase II General Permit Requirements
Peterson Air Force Base, Colorado

STRENGTH AND PREPAREDNESS



DEPARTMENT OF THE AIR FORCE

21ST SPACE WING (AFSPC)

MAR 10 2003

MEMORANDUM TO Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246-1530

FROM: 21 CES/CC
580 Goodfellow Street
Peterson AFB CO 80914-2370

SUBJECT: Small Municipal Separate Storm Sewer Systems Notice of Intent
Information for General Permit MS4: Peterson Air Force Base, Colorado

1. Attached is the Small Municipal Separate Storm Sewer Systems Notice of Intent Information for General Permit MS4: Peterson Air Force Base, Colorado.
2. Please do not hesitate to contact Mr. Mark Miller, at (719) 556-7707 if you have any questions regarding this submission.



DAVID B. McCORMICK, Lt Col, USAF
Commander, 21 Civil Engineer Squadron

Postmarked
March 12, 2003
VB

Attachments:

1. Notice of Intent

CC:
21 CES/CC
21 CES/CEVQ

STRENGTH AND PREPAREDNESS

**Small Municipal Separate Storm Sewer Systems
Notice of Intent Information for General Permit
MS4: Peterson Air Force Base, Colorado**

1. Legal Name of Federal Facility	Peterson Air Force Base
2. Full Facility Mail Address	21 CES/CEVQ 580 Goodfellow Street, Stop 2370 Peterson AFB, Colorado 80914-2370
3. The name and phone number of the person or persons responsible for overall coordination of the SWMP	Mr. Daniel M. Rodriguez Chief, Environmental Flight 21 CES/CEV Telephone: (719) 556-7305 Fax: (719) 556-5201 E-mail: daniel.rodriguez@peterson.af.mil
4. Attach a location map showing the boundaries of the MS4 under the applicant's jurisdiction. The map must include topography, and streets or other demarcations so that the exact boundaries can be located	See Attached Map (Figure 1)
5. The area of land that drains to the applicant's MS4 (in square miles)	Approximately 2.0 square miles (0.29 square miles owned by Federal Government and 1.7 square miles leased to the Government by the City of Colorado Springs)
6. The latitude and longitude of the approximate center of the MS4	LAT. 38° 49' 30" LONG. 104° 42' 00"
7. The names of the waters of the United States that receive discharges from the system	East Fork of Sand Creek
8. If the applicant is relying on another entity to satisfy one or more permit obligations, the identity of that entity(ies) and the element(s) the entity(ies) will be implementing	Not Applicable
9. Attach information on each of the storm water minimum control measures in Part 3.2 of the permit. For each minimum control measure include the following: a. Measurable goals for each BMP b. Description of the best management practices (BMPs) that will be implemented c. Timeframes (i.e., month and year) for implementing each BMP	See Attached Tables (Table A-1 to A-6)



10. Based on the requirements of Part 1.5, describe how the eligibility criteria for listed species and critical habitat have been met:

Currently, there are no federally listed threatened or endangered species, or known critical habitat for any threatened or endangered species on Peterson AFB, Colorado.

- (a) The Colorado Natural Heritage Program (CNHP) conducted a biological inventory of Peterson AFB and adjacent areas in 1996 (Natural Heritage Inventory of the Rare Plants, Significant Natural Communities, and Animals of Peterson AFB, Colorado, 15 March 1997). No state or federally listed rare, threatened or endangered species (plant, vertebrate, or butterfly) were identified.*
- (b) The East Fork of Sand Creek is classified as an intermittent drainage, and does not support any riparian association in the reach that bisects the northwest corner of the base or its immediate vicinity. Although marginal potential habitat, this and adjacent areas were surveyed for presence/absence of the Preble's Meadow Jumping Mouse in 1995 by the CNHP IAW established US Fish and Wildlife Service trapping protocol/guidelines, and no Preble's were found.*
- (c) There is no known or potential habitat for any of the federally listed species that occur in El Paso, County Colorado on Peterson AFB, CO.*

Conclusion: Because there are no federally listed species or designated critical habitat on Peterson AFB, the 21 CES/CEV concludes there will be no adverse effects resulting from the National Pollution Discharge Elimination System (NPDES) permit or related discharge activities.

11. Based on the requirements of Part 1.6, describe how the eligibility criteria for historic properties have been met:

The Colorado Springs Municipal Airport Historic District (District) is located on Peterson AFB. The District consists of an 8.3-acre site with one non-contributing and four contributing structures and is listed on the National Register of Historic Places, Site #5EP744. As per the Cultural Resources Program Manager at Peterson AFB, no additional facilities, affected by storm water discharges or BMPs, are eligible or are planned for listing on the National Register of Historic Places in the near future.

There is a system of storm water collectors within the District that outfall to Peterson AFB Pond #3. There are no discharges directly into the District.

Therefore, criteria of the small MS4 general permit has been satisfied, which certifies that, "...the storm water discharges, allowable non-storm water discharges, and discharge-related activities do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior".



12. Signature and certification by an appropriate official (see Part 5.7). The NOI must include the certification statement from Part 5.7:

I certify under penalty 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 this 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: David B. McCormick, Lt Col, USAF, Commander, 21 Civil Engineer Squadron

Signature: _____

Date: _____

MAR 10 2003

Table A-1 Public Education and Outreach Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 1 (2003)					
1. March 2003	1. Meet with City of Colorado Springs, El Paso County, Department of Transportation, Air Force Academy, Ft. Carson, and others to discuss public education and outreach ideas and available materials.	1. Set up meeting, attend meeting to discuss public education and outreach materials/distribution, and obtain copy of meeting minutes.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914		
2. September 2003	2. Assist in the development of storm water brochures and distribute basewide.	2. Brochures distributed to every organization and every residence on base.			
3. December 2003	3. Write an article to be published biannually in the <i>Space Observer</i> , the PAFB newspaper.	3. Article appears biannually (spring/fall) in the <i>Space Observer</i> .			
Year 2 (2004)					
1. June 2004	1. Establish a storm water telephone hotline and e-mail address for storm water pollution prevention information.	1. Establish the storm water pollution prevention hotline and e-mail address and publish in the base newspaper.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. September 2004	2. Participate in a storm water working group that includes the base, City of Colorado Springs, El Paso County, DOT, and other Phase II permit holders.	2. Set up meeting, attend storm water working group meeting, and obtain copy of meeting minutes.			
3. December 2004	3. Provide storm water pollution prevention training to all industrial organization representatives (biannual).	3. Training provided to industrial organization representatives and training records kept on file.			

Table A-1 Public Education and Outreach Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 3 (2005)					
1. March 2005	1. Establish a local (base access) storm water web site and point-of-contact.	1. Web site established with number of visitors and correspondence recorded.		Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305	
2. September 2005	2. Formalize the existing pet waste management policy of the base to include storm water management.	2. Finalized the revised pet waste management policy.			
Year 4 (2006)					
1. April 2006	1. Create and distribute magnets with a storm water pollution prevention theme.	1. Magnets created and distributed to base personnel and workers.		Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305	
2. September 2006	2. Provide information for proper disposal of used automobile and small engine fluids to base personnel.	2. Information provided to every organization and every residence.			
Year 5 (2007)					
1. March 2007	1. Establish information transfer of storm water goals to newly assigned military families.	1. Establish the program and present information to every new military family.		Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305	
2. October 2007	2. Create and distribute storm water pollution prevention posters to public base areas (BX, bowling alley, Commissary, etc.)	2. Storm water pollution prevention posters created and distributed (# of posters created and places distributed)			

Table A-2 Public Participation/Involvement Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 1 (2003)					
1. July 2003	1. Begin storm drain stenciling, to be performed by volunteers.	1. Storm drain stenciling of storm drain inlets in paved areas is 25% complete.	2. Training provided to commercial and industrial representatives and training records kept on file	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914	
2. August 2003	2. Provide storm water pollution prevention training for commercial and industrial representatives.				
Year 2 (2004)					
1. April 2004	1. Sponsor clean up days for trash and tributaries and outfalls involving base personnel.	1. Base personnel participate in Clean Up Day.	2. Storm drain stenciling of storm drain inlets in paved areas is 50% complete.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305	
2. June 2004	2. Storm drain stenciling to be performed by volunteers.				
Year 3 (2005)					
1. April 2005	1. Coordinate a basewide storm water quality monitoring day to raise pollution prevention awareness.	1. Basewide storm water quality monitoring day held and results collected and summarized by CEV personnel and volunteers.	2. Storm drain stenciling of storm drain inlets in paved areas is 75% complete.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305	
2. August 2005	2. Storm drain stenciling to be performed by volunteers.				

Table A-2 Public Participation/Involvement Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 4 (2006)					
1. August 2006	1. Storm drain stenciling to be performed by volunteers.	1. Storm drain stenciling of storm drain inlets in paved areas is 100% complete.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. September 2006	2. Construct identification signs of the storm water outfalls which include information regarding outfall identification number, receiving streams, and contact information	2. Outfall identification signs are created and erected at each outfall.			
Year 5 (2007)					
1. July 2007	1. Participate in a household hazardous waste collection day (with off-base host).	1. Participate in collection day and record an estimate of the amount collected from base personnel/families.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		

Table A-3 Illicit Discharge Detection and Elimination Measurable Goals

Goal Implementation Time Frame			BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 1 (2003)						
1. March 2003	1. Perform sanitary sewer and storm sewer cross-connection survey.	1. Survey completed, summary report on file.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914			
2. March 2003	2. Conduct oil/water separator survey.	2. Oil/water separator survey completed, summary report on file.				
3. December 2003	3. Update storm water map showing storm sewers, drainage patterns, and outfalls.	3. Storm water map updated and kept on file.				
Year 2 (2004)						
1. July 2004	1. Institute annual dry weather discharge inspections.	1. Dry weather discharge inspection completed, summary report on file.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305			
2. December 2004	2. Provide spill kits and storm drain covers for storm drains susceptible to spills.	2. Spill kits and covers are provided for all susceptible storm drains to be used in case of spill.				
Year 3 (2005)						
1. July 2005	1. Perform annual dry weather discharge inspection.	1. Dry weather discharge inspection completed, summary report on file.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305			
2. August 2005	2. Perform inflow and infiltration survey.	2. Inflow and infiltration survey completed, summary report on file.				
Year 4 (2006)						
1. July 2006	1. Perform annual dry weather discharge inspection.	1. Dry weather discharge inspection completed, summary report on file.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305			

Table A-3 Illicit Discharge Detection and Elimination Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented	Metric	Person(s) Responsible for Implementing BMP
Year 5 (2007)				
1. July 2007		1. Perform annual dry weather discharge inspection.	1. Dry weather discharge inspection completed, summary report on file.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305

Table A-4 Construction Site Runoff Control Measurable Goals

BMP to be Implemented					Metric	Person(s) Responsible for Implementing BMP
Goal Implementation Time Frame						
Year 1 (2003)						
1. April 2003	1. Develop a policy directive that requires all new construction site plans to develop runoff control measures.	1. Policy directive developed and put into effect.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914			
2. August 2003	2. Develop boilerplate contractual language specifying BMP usage for construction projects.	2. Contractual language is put in place specifying BMP usage for construction projects.				
3. December 2003	3. Develop a menu of BMPs that prove to be reliable and effective for PAFB.	3. Menu of BMPs is developed.				
Year 2 (2004)						
1. April 2004	1. Develop program to perform periodic inspections during construction activities to evaluate BMP usage and effectiveness.	1. Construction activity site inspections program developed.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305			
2. April 2004	2. Develop and use a construction site BMP inspection checklist.	2. BMP inspection checklist developed and used during construction activity site inspections.				
3. September 2004	3. Track performance of BMPs at each construction site.	3. BMP performance tracked and summaries kept on file.				

Table A-4 Construction Site Runoff Control Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 3 through 5 (2005 – 2007)					
1. April 2005 through 2007	1. Perform periodic inspections during construction activities to evaluate BMP usage and effectiveness.	1. Construction activity site inspections documented.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. April 2005 through 2007	2. Perform construction site BMP inspection using checklist.	2. Construction BMP inspections documented.			
3. September 2005 through 2007	3. Record performance of BMPs at each construction site.	3. Performance of BMPs at each construction site documented.			

Table A-5 Post-Construction Site Runoff Control Measurable Goals

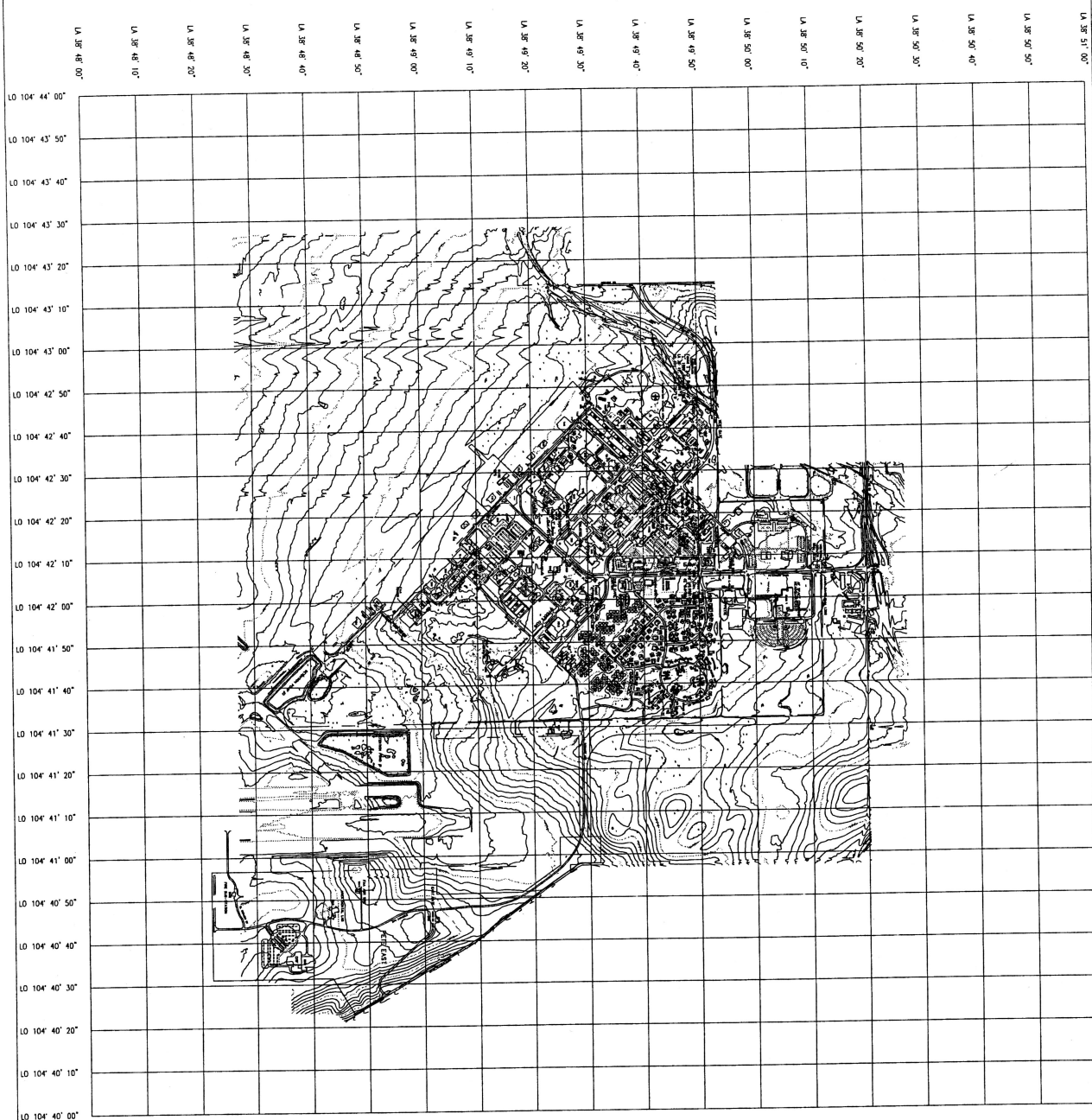
Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 1 (2003)					
1. May 2003	1. Institute policy directive that requires all new construction site plans to develop post-construction runoff control measures.	1. Policy directive developed and put into effect.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914		
2. October 2003	2. Develop boilerplate contractual language specifying post-construction BMP usage for all new projects.	2. Contractual language is put in place specifying post-construction BMP usage for all new projects.			
Year 2 (2004)					
1. April 2004	1. Implement program to conduct inspections of completed post-construction BMPs verifying design specifications.	1. Program set up and documented.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. July 2004	2. Perform periodic visual monitoring of post-construction BMP performance.	2. Inspections conducted. Record number of inspections performed and findings.			
3. July 2004	3. Track status of post-construction BMPs.	3. Post-construction BMPs tracked and summaries kept on file.			
Year 3 through 5 (2005 – 2007)					
1. May 2005 through 2007	1. Conduct inspections of completed post-construction BMPs verifying design specifications.	1. Inspections of post-construction BMP completed and documented.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. July 2005 through 2007	2. Perform periodic visual monitoring of post-construction BMP performance.	2. Inspections conducted. Record number of inspections performed and findings.			

Table A-6 Pollution Prevention/Good Housekeeping Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 1 (2003)					
1. March 2003	1. Provide annual storm water pollution prevention training to base environmental managers.	1. Train personnel and maintain training records.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305 Address: 21 CES/CEV 580 Goodfellow Street Stop 2370 Peterson AFB, CO 80914		
2. March 2003	2. Develop a basewide grass mulching policy.	2. Basewide grass mulching policy established and distributed.			
3. July 2003	3. Establish a basewide recycling and waste minimization program.	3. Basewide recycling and waste minimization program established.			
Year 2 (2004)					
1. March 2004	1. Provide annual storm water pollution prevention training refresher course.	1. Train personnel and maintain training records.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. August 2004	2. Conduct basewide inspections for exposed construction materials.	2. Inspection performed and documented.			
3. August 2004	3. Conduct annual basewide visual inspections to ensure that raw materials are not stored exposed to storm water.	3. Inspection performed and documented (to be performed with phase I inspection).			
Year 3 (2005)					
1. March 2005	1. Provide annual storm water pollution prevention training refresher course.	1. Train personnel and maintain training records.	Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305		
2. October 2005	2. Develop and implement a schedule for cleaning of storm sewer grates and drainage ditches.	2. Storm sewer grate and drainage ditch cleaning implemented.			

Table A-6 Pollution Prevention/Good Housekeeping Measurable Goals

Goal Implementation Time Frame		BMP to be Implemented		Metric	Person(s) Responsible for Implementing BMP
Year 4 (2006)					
1. March 2006	1. Provide annual storm water pollution prevention training refresher course.	1. Train personnel and maintain training records.	2. Program developed and distributed.		Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305
2. September 2006	2. Develop program for implementation of BMPs for raw materials at the CE Storage Yard.				
Year 5 (2007)					
1. March 2007	1. Provide annual storm water pollution prevention training refresher course.	1. Train personnel and maintain training records.	2. Program implemented and procedures documented, along with improvements realized.		Name: Dan Rodriguez Title: Chief, Environmental Flight Telephone: (719) 556-7305
2. September 2007	2. Implement program for CE Storage Yard materials storage.				



C1	PP-001
	PP-002
PP-003	PP-004
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PETERSON AFB, CO
21 SPACE WING / U.S. AIR FORCE SPACE COMMAND
21 CIVIL ENGINEERING SQUADRON / TECHNICAL SERVICES



BASE INFORMATION MAP	MAR 99
SITE PLAN	