NEW MEXICO STATE UNIVERSITY

NPDES SMALL MS4 ANNUAL REPORT
SEPTEMBER 2010

NPDES TRACKING NO. NMR04L002
JULY 1, 2009 – JUNE 30, 2010

CERTIFICATION

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 gathered and evaluated 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed by:

<See Printed Certification for Signature>

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ACRONYMS

ASNMSU	Associated Students of New Mexico State University
BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit
CWA	Clean Water Act
EBID	Elephant Butte Irrigation District
EH&S	Environmental Health & Safety
EPA	U.S. Environmental Protection Agency
HHW	Household Hazardous Waste
IDDE	Illicit Discharge Detection and Elimination
IPM	Integrated Pest Management
LEED	Leadership in Energy and Environmental Design
LID	Low Impact Development
MAP	Monitoring/Assessment Plan
MEP	Maximum Extent Practicable
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NMSU	New Mexico State University
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
OPR	Owner's Project Requirements
SWMP	Storm Water Management Program
SWPPP	Storm Water Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UA	Urbanized Area

1.0 INTRODUCTION

New Mexico State University (NMSU) is the operator of a Small Municipal Separate Storm Sewer System (MS4), as defined in the NPDES General Permit for Discharges from Small MS4s (General Permit for Small MS4s). Therefore, NMSU is required to obtain permit authorization for its storm water discharges within the Las Cruces Urbanized Area. NMSU submitted a Notice of Intent (NOI) to the EPA in July 2009, indicating NMSU's intent to comply with the permit. With the NOI, NMSU submitted a Storm Water Management Program (SWMP) to the EPA for review and approval.

Part 5.8 of the General Permit for Small MS4s requires NMSU to submit an annual report to the EPA. The purpose of the report is to document NMSU's status of compliance with permit conditions and its progress toward accomplishing the goals in the SWMP. The report is due to the EPA by October 1st of each year.

NMSU, with the assistance of Martich Professional Services, PLLC, prepared this report to satisfy the reporting requirement for the permit year of July 1, 2009, through June 30, 2010, also called the third permit year (Year 3). NMSU is not relying on another government entity to satisfy any of its permit requirements.

2.0 COMPLIANCE STATUS

During the past year, NMSU's NOI and SWMP were reviewed by the EPA and deemed administratively and technically complete. EPA then posted the NOI and SWMP for public comment at www.epa.gov/region6/water/npdes/sw/sms4/sms4noi.htm. Comments were due by December 7, 2009. After no comments were received, the EPA issued permit authorization for NMSU to discharge storm water by letter dated December 28, 2009.

In addition to obtaining permit authorization this past year, NMSU started implementation of its SWMP. Similar to many state and local governments in 2009-10, NMSU experienced resource constraints and budget shortfalls due to the economic climate. These constraints limited the resources available for implementing the SWMP last year. Although many BMPs were implemented on schedule, some have been delayed due to resource constraints. All BMPs are still on schedule to be completed before the end of the permit term in 2012.

NMSU had no discharges last year that violated the conditions of its authorization under the General Permit for Small MS4s. NMSU is in compliance with the conditions of the permit at the time of this annual report.

2.1 WATER QUALITY PRIORITIES

NMSU's MS4 does not discharge to waters on the State of New Mexico's Clean Water Act 303(d) list of impaired waters. Nor does the MS4 discharge to Outstanding Natural Resource Waters or Tier 2 or Tier 3 waters. Due to the absence of these types of receiving waters, NMSU's water quality priorities consist of eliminating the discharge of pollutants to the maximum extent practicable using the Minimum Control Measures authorized by the General Permit for Small MS4s.

2.2 POLLUTANT REDUCTION GOALS

NMSU's SWMP is designed to achieve the statutory goal of reducing the discharge of pollutants to the maximum extent practicable (MEP). The EPA has defined MEP for a Small MS4 to be effectively implementing six Minimum Control Measures (MCMs). The six MCMs are:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

Effective implementation is defined by achieving measurable goals for each of the MCMs. Tables 1 – 6 summarize NMSU's progress towards accomplishing its measurable goals during the past year (Year 3 of the permit). The tables also include the BMP activities scheduled to be implemented during the next reporting cycle (Year 4 of the permit).

Table 1. Public Education and Outreach on Storm Water Impacts

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
1-1	Communications Plan	News and Media Relations	Complete a Communications Plan by December 31, 2009	Completed	Track methods used and estimate number of contacts made
1-2	Storm Water Web Page	News and Media Relations	Establish web page by September 30, 2009	Delayed	Establish a storm water web page
1-3	@NMSU Articles	News and Media Relations	Publish two articles	Completed	Publish two articles
1-4	Family Housing Information Packet	Housing and Residential Life	Develop and print an information sheet or brochure about storm water pollution prevention for family housing residents	Completed	Track number of packets distributed (contacts made) that include pollution prevention information
1-5	Family Housing Newsletter	Housing and Residential Life	Include pollution prevention information in two newsletters		Include pollution prevention information in two newsletters
1-6	Special Event Pollution Prevention	Athletics	No activity scheduled for year 3	Not applicable	Complete review of facility use agreements by December 31, 2010 Develop pollution prevention educational material and requirements for facility use agreements
1-7	Public Radio and Television	News and Media Relations	No activity scheduled for year 3	Not applicable	No activity scheduled for year 4

Table 2. Public Involvement/Participation

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
2-1	Web Access to the SWMP	News and Media Relations	Post SWMP on the web page by July 31, 2009	Completed	Add the Annual Report to the web page by August 31, 2010
2-2	Advertisements in The Round Up	News and Media Relations	Publish an advertisement soliciting comments on and involvement in the SWMP by Nov. 15, 2009	Not met	Publish an advertisement soliciting comments on and involvement in the SWMP by Nov. 15, 2010
2-3	Public Report Phone Number	Office of Facilities and Services	Establish the phone number and procedures for handling reports	Completed	Develop written procedures for tracking the number and types of reports received
2-4	Student Government Activities	News and Media Relations	Meet with ASNMSU Executive Branch and SGCR once each fall and spring semester	Partially completed: met spring semester	Meet with ASNMSU Executive Branch and SGCR once each fall and spring semester

Table 3. Illicit Discharge Detection and Elimination

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
3-1	Outfall Mapping	Office of Facilities and Services	Complete map of outfalls to arroyos in the main campus	Completed	Add new MS4 outfalls to the maps as they are constructed
3-2	Outfall Screening	Facilities Maintenance	No activity scheduled for year 3	Not applicable	Inspect 100% of mapped outfalls for signs of illicit discharges
3-3	Recycling	Facilities Maintenance	Track the types and amount of material recycled	Completed	Track the types and amount of material recycled
3-4	HHW Information for Residents	Housing and Residential Life	Formalize agreement for family housing residents to use the City of Las Cruces HHW collection center	Completed	Include information about HHW in the family housing information package
3-5	Public Trash Receptacles	Facilities Maintenance	Maintain trash receptacles and dumpsters throughout campus	Completed	Track number of receptacles provided
3-6	Inspections for Trash and Debris	Facilities Maintenance	Inspect for and remove trash and debris from the campus grounds once a week	Completed	Inspect for and remove trash and debris from the campus grounds once a week
3-7	Grounds Maintenance Employee Training	Facilities Maintenance	Train employees by March 30, 2010 to identify illicit discharges	Completed June 14, 2010	Train new employees within 3 months of being hired

Table 4. Construction Site Storm Water Runoff Control

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
4-1	NMSU Employee SWPPP Training	Facilities Planning and Construction	Train NMSU employees who review SWPPPs and inspect construction sites by March 30, 2010	Delayed	Train NMSU employees who review SWPPPs Update training within 4 months of EPA issuing the new Construction General Permit (CGP)
4-2	SWPPP Review Checklist	Facilities Planning and Construction	Develop a SWPPP review checklist by December 31, 2009	Delayed	Develop a SWPPP review checklist Update checklist within 2 months of EPA issuing the new CGP
4-3	SWPPP Inspection Report	Facilities Planning and Construction	Develop a SWPPP Inspection Report by March 30, 2010	Completed	Revise the SWPPP Inspection Report, if needed, within 2 months of EPA issuing the new CGP
4-4	Tenant Construction Compliance	Office of Real Estate	Review leases and determine legal authority to enforce erosion, sediment and waste control requirements that are in the Construction General Permit		Within legal authority, modify existing leases to require compliance with the CGP Ensure new leases require compliance with the CGP
4-5	Tenant Construction Inspection	Office of Facilities and Services	Within NMSU's legal authority, develop procedures to inspect for tenant's compliance with the Construction General Permit	Delayed	Within legal authority, develop procedures for NMSU to inspect tenants' compliance with the CGP Track number of tenant construction inspections performed by NMSU and type of enforcement actions

Table 5. Post-Construction Storm Water Management in New Development and Redevelopment

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
5-1	LEED Silver Standards for Capital Improvement Projects	Facilities Planning and Construction	Establish design policies for LEED Silver Certification of new capital improvement projects	Completed	Track percentage of capital improvement projects that receive LEED silver certification
5-2	Drainage Design Guidelines	Office of Facilities and Services	No activity scheduled for year 3	Ahead of schedule: Started requiring drainage analysis of 100-yr storm event	Develop Drainage Design Guidelines that include water quality criteria
5-3	Tenant Development Requirements	Office of Real Estate	Review leases and determine legal authority to enforce development requirements on tenants	In progress	Complete lease reviews Modify existing leases (within legal authority) to require compliance with drainage design guidelines, and include the requirement in all new leases
5-4	Plan Review	Office of Facilities and Services	No activity scheduled for year 3	Ahead of schedule: Reviewed development plans for drainage analysis	Review NMSU and tenant development plans (within legal authority) for compliance with new Drainage Design Guidelines
5-5	MS4 Inspection and Repair Program	Office of Facilities and Services	Inventory all non-natural drainage channels and structures	Completed	Update MS4 inventory as new infrastructure is constructed Develop an inspection schedule for the inventoried structures
5-6	LID Workshop	Office of Facilities and Services	Meet with the City of Las Cruces and Doña Ana County to determine level of interest in a regional LID Workshop	Completed	Participate in GI (LID) Conference scheduled for August 26, 2010

Table 6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP NO.	BMP DESCRIPTION	RESPONSIBLE DEPARTMENT	MEASURABLE GOALS PERMIT YEAR 3 (2009 - 2010)	PROGRESS ON GOALS PERMIT YEAR 3 (2009 - 2010)	PLANNED ACTIVITIES PERMIT YEAR 4 (2010 - 2011)
6-1	Good Housekeeping Procedures for Shops and Maint. Facilities	Facilities Maintenance	Develop written procedures for each shop		Use written procedures to train employees by Sep. 30, 2010 Train new employees within 3 months of hiring
6-2	Annual Storm Water Pollution Prevention Inspections	Environmental Health & Safety	No activity scheduled for year 3	Not applicable	Develop an inspection form by September 30, 2010 for the shops and facilities Track number of shops inspected and percentage that need corrective measures
6-3	Integrated Pest Management (IPM) Program	Facilities Maintenance	No activity scheduled for year 3	Not applicable	Develop a written IPM program
6-4	Street Sweeping	Facilities Maintenance	Sweep each major thorough-fare monthly Track the amount of material removed by street sweeping	Completed	Sweep each major thorough-fare monthly Track the amount of material removed by street sweeping
6-5	Material Handling Procedures for MS4 Maintenance	Facilities Maintenance	Develop written procedures		Use written procedures to train employees by Sep. 30, 2010 Train new employees within 3 months of hiring
6-6	Composting of Landscaping Waste	Facilities Maintenance	Track amount of material composted and amount of compost applied to open spaces	Completed	Track amount of material composted and amount of compost applied to open spaces
6-7	Feasibility Study of Controls for Animal Pens	Office of Facilities and Services	No activity scheduled for year 3	Not applicable	Complete feasibility study

3.0 ASSESSMENT OF BEST MANAGEMENT PRACTICES

3.1 PUBLIC EDUCATION AND OUTREACH

During the past year, NMSU's most significant accomplishments in public education and outreach were:

- Completion of a Communications Plan to direct its storm water education efforts; and
- Initiation of its storm water outreach to students.

Students are NMSU's largest target audience and the largest potential source of target pollutants (drink bottles and cans, paper litter, plastic bags, and household hazardous waste). The following subsections assess the progress made on each public education and outreach BMP.

3.1.1 Communications Plan (BMP1-1)

NMSU's Office of News and Media Relations developed a Communications Plan to inform faculty, staff, students and tenants of their impact on storm water quality. A copy of this plan is in Appendix A. The Office of News and Media Relations will be implementing the plan during the next two years of the permit.

3.1.2 Storm Water Web Page (BMP1-2)

A web page addressing storm water issues is an easily accessible source of information for the faculty, staff, students and tenants of NMSU. Development of a storm water web page on NMSU's website was scheduled for the third permit year, but it has been delayed. During the fourth permit year, NMSU will create a web page that provides information about things targeted audiences can do to reduce pollutants in storm water and protect water quality. The web page will provide links to NMSU's SWMP and its annual reports.

3.1.3 @NMSU Articles (BMP1-3)

@NMSU is an electronic newsletter that is distributed to faculty and staff twice a month. Two articles about storm water were published in @NMSU in the spring of 2010. The first article gave a brief summary of the SWMP. The second article provided information on illicit discharges compared to allowable non-storm water discharges. Both articles included an electronic link to the entire SWMP. Copies of the @NMSU articles are in Appendix A.

3.1.4 Family Housing Information Packet (BMP1-4)

At the start of each school year, resident students receive a packet of information as part of the registration process. In August 2009, the packet included EPA 833-F-00-002 (Fact Sheet 2.0), "*Stormwater Phase II Final Rule: Small MS4 Stormwater Program Overview*." A copy of the fact sheet is in Appendix A. It provided students with basic information about small MS4s. During permit year four, NMSU will continue to provide printed information about storm water pollution prevention to the residents of family housing.

3.1.5 Family Housing Newsletter (BMP1-5)

The Office of Housing and Residential Life publishes a monthly newsletter for residents of family housing. The intent of this BMP is to use that newsletter to regularly communicate pollution prevention information to the residents.

3.1.6 Special Event Pollution Prevention (BMP1-6)

The goal of this BMP is to reduce the amount of trash, debris and other pollutants that enter the MS4 during special events held at campus facilities. No activities were scheduled for this BMP during the past year. It is on schedule to be completed by the end of the next permit year. To complete the BMP, NMSU will review its facility lease agreements to determine how they can be modified to require pollution prevention measures during special events. NMSU will then develop the educational materials and agreement sections needed to implement the requirements.

3.1.7 Public Radio and Television (BMP1-7)

To complete this BMP, NMSU will produce a public radio or television program through KRWG media that focuses on sources of storm water pollutants. No activities were scheduled for this BMP during the past year. It is on schedule to be completed by the end of the fifth permit year.

3.2 PUBLIC INVOLVEMENT/PARTICIPATION

During the past year, NMSU's most significant accomplishments in public involvement and participation were:

- Making the SWMP available for review online; and
- Establishing a phone number for faculty, staff and students to report illicit discharges, construction site discharges and other sources of storm water pollution.

The following subsections assess the progress made on each public involvement and participation BMP.

3.2.1 Web Access to the SWMP (BMP2-1)

NMSU's SWMP can be accessed through the Office of Facilities and Services web page. A copy of the web page with the SWMP link is in Appendix B. The SWMP can also be accessed directly online at:

http://www.ofs.nmsu.edu/NMSU%20Storm%20Water@20Plan.pdf

During permit year four, NMSU will move the SWMP link to the storm water web page (BMP1-2). NMSU will also add a web page link to this annual report.

3.2.2 Advertisements in The Round Up (BMP2-2)

The Round Up is a printed newspaper distributed to NMSU students. An electronic version is also available. NMSU's goal last year was to publish an advertisement in the

newspaper encouraging review of the SWMP and soliciting comments on it. This goal was not met. NMSU will place this advertisement in The Round Up by November 15, 2010.

3.2.3 Public Report Phone Number (BMP2-3)

NMSU established 575-646-2101 as the public report line in the Office of Facilities and Services. An Administration Specialist was trained to receive the calls and direct them to the appropriate NMSU personnel. During permit year four, written procedures will be developed for tracking the number and types of calls received. The procedures will assist in ensuring calls are directed to the correct person and handled in a timely manner.

3.2.4 Student Government Activities (BMP2-4)

One of the goals of the Executive Branch of the Associated Students of NMSU (ASNMSU) is to involve students in campus-wide special events. To encourage student involvement in pollution prevention events, NMSU's News Director met with the ASNMSU President, ASNMSU Chief of Staff, and ASNMSU Director of Public Relations in May 2010. Discussion included ways to reach the students, such as Facebook's social networking website, fliers to Housing, The Feed, and e-mail. Ideas were also shared on ways to involve students and student groups in an activity or event like Earth Day to increase student awareness of storm water quality and their role in protecting it. An NSMU staff member will continue to meet with the student government leadership to develop and implement activities during permit year four.

3.2.5 Other Activities

3.2.5.1 Facebook Postings

As a result of the meeting with members of the ASNMSU Executive Branch (BMP2-4), entries about storm water were posted on May 6, 2010 to eight different Facebook pages: NMSU Round Up, NMSU College Republicans, NMSU College Democrats, NMSU Students and Alums, "I bet NMSU can get 100,000 fans before UNM!", NMSU Class of 2012, NMSU Class of 2013 and NMSU Graduate Student Group. The entries provided a link to the NMSU SWMP. An example of the Facebook posting is in Appendix B.

3.2.5.2 RecycleMania

From January 17 through March 27, 2010, NMSU participated in RecycleMania, a 10-week challenge to create awareness and build momentum for recycling. The competition helps students rethink their waste and recognize that bottles, cans, cardboard and paper are valuable recyclables. Changing students' attitude and behavior in this manner reduces the number of these items that are discarded on the ground as litter, which is then blown or carried into the MS4 by storm water.

During the ten weeks of RecyleMania, colleges from 49 states, the District of Columbia and Canada competed in several areas including the "Grand

Champion" category. This category measures material recycled as a percentage of total waste generation. NMSU won second place in this category. The university recycled 69.05% of its total waste during the 10-week challenge. The press release showing the results of the 2010 RecycleMania Competition is in Appendix B.

3.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

During the past year, NMSU's most significant accomplishments in illicit discharge detection and elimination were:

- Reached an agreement with the South Central Solid Waste Authority (SCSWA) for them to accept household hazardous waste from NMSU's student family housing residents; and
- Trained grounds maintenance workers to identify and report illicit discharges.

NMSU received no reports of illicit discharges during the past permit year, nor were any found by staff during normal operations around campus. The following subsections assess the progress made on each illicit discharge detection and elimination BMP.

3.3.1 Outfall Mapping (BMP3-1)

NMSU has identified seven outfalls from its MS4. The outfalls were mapped in AutoCAD as shown in Appendix C. Five of the outfalls discharge directly to an arroyo and are believed to be all of NMSU's outfalls that discharge to arroyos. The other two outfalls discharge to a storm drain that is part of the City of Las Cruces MS4. The city's storm drain discharges to the Park Drain, part of the Elephant Butte Irrigation District (EBID), a short distance southwest of campus. NMSU will add new outfalls to the map as they are constructed or found in the field.

3.3.2 Outfall Screening (BMP3-2)

No outfall screening activities were scheduled for permit year three. Beginning in permit year four, NMSU will annually inspect 100% of mapped outfalls for signs of illicit discharges.

3.3.3 Recycling (BMP3-3)

NMSU has an active recycling program, as evidenced by its participation in RecycleMania. The intent of this BMP is to use positive attitudes toward recycling to reduce the illicit discharge of litter. The goal for permit year three was to track the types and amounts of material recycled on the NMSU campus, so trends can be studied in future years.

3.3.4 HHW Information for Residents (BMP3-4)

Residents of student family housing have the potential to generate HHW, such as household cleaners, used motor oil, vehicle batteries and paint. An agreement was

made between NMSU and South Central Solid Waste Authority (SCSWA) via e-mail to allow the residents to properly dispose of their HHW at SCSWA's facility. An e-mail was sent to these residents on May 11, 2010 notifying them of the agreement. A copy of this e-mail is in Appendix C.

Family housing residents may take HHW to 2855 W. Amador Ave. This location accepts the following: household cleaners, pesticides, herbicides, motor oil, antifreeze, rechargeable and vehicle batteries, paints, stains, and items considered ignitable, poisonous or corrosive. Starting in fall 2010, NMSU will include information about HHW disposal in the information packet given to all new family housing residents.

3.3.5 Public Trash Receptacles (BMP3-5)

To make proper disposal of waste material easy, NMSU maintained 152 trash receptacles and over 90 dumpsters on the campus last year. See Appendix C for a list of NMSU's Solid Waste Collection Points where dumpsters are maintained. Trash receptacles were emptied twice a week on regularly scheduled days. Dumpsters were emptied on schedules varying from twice a week to daily, depending on usage levels, to ensure they did not overflow. The waste is collected by Southwest Disposal and taken to the Las Cruces transfer station for proper disposal. During permit year four, NMSU will continue to empty trash receptacles and dumpsters on a regular schedule.

3.3.6 Inspections for Trash and Debris (BMP3-6)

To minimize the amount of trash (floatables) that enters storm water, the Facilities Maintenance staff routinely inspects the campus grounds for loose trash and debris. Inspections occur every Monday, Wednesday and Friday. The staff also picks-up any trash found during the course of their daily routine. The loose trash and debris collected are placed in the dumpsters around campus. A copy of the Facility Maintenance Schedule is in Appendix C. NMSU will continue regular inspections and trash collections during permit year four.

3.3.7 Grounds Maintenance Employee Training (BMP3-7)

The Grounds Maintenance workers are the employees most likely to find illicit discharges on the NMSU campus. All Grounds Maintenance employees, consisting of 19 full time and 10 temporary employees, were trained on June 14, 2010. The training included detection of illicit discharges. Refer to Appendix C for the illicit discharge information that was covered in the training. During next year, NMSU will train new Grounds Maintenance employees within three months of being hired. In addition, temporary employees will be trained as part of their orientation at the start of work.

3.4 CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

During the past year, NMSU evaluated the manner in which compliance with the NPDES General Permit for Storm Water Discharges from Construction Activities (Construction General Permit) was being handled for its capital improvement projects. NMSU had been placing the responsibility for the Storm Water Pollution Prevention Plan (SWPPP) solely on the construction contractor. After studying the Construction General Permit (CGP) and its requirements for the

operator that controls the project's plans and specifications, NMSU made the decision to become more involved in SWPPP development and implementation.

NMSU's most significant accomplishments in construction site storm water runoff control last year were:

- Establishing a process for reviewing and approving the SWPPP on capital improvement projects; and
- Switching to unit item payment instead of lump sum payment for SWPPP activities on capital improvement projects, to better enforce compliance on the projects.

The following subsections assess the progress made on each construction site storm water runoff BMP.

3.4.1 NMSU Employee SWPPP Training (BMP4-1)

During the 2009-10 reporting period, NMSU was scheduled to train the employees who review SWPPPs for NMSU's projects and the employees who inspect construction sites for compliance with the SWPPP. The training was to cover the requirements for a SWPPP and SWPPP inspections that are in the Construction General Permit. This training was delayed until the next permit year.

3.4.2 SWPPP Review Checklist (BMP4-2)

NMSU established a process for SWPPP review and approval during the past year. The SWPPP is initially reviewed by the project manager to ensure it is complete and appropriate for the project. The SWPPP is then reviewed by the engineer responsible for NMSU's SWMP to ensure the SWPPP is consistent with the requirements of the program. The review process also ensures the correct authority is certifying the Notice of Intent (NOI) for NMSU.

The review checklist that was scheduled to be developed last year was delayed while NMSU established the process for review and NOI certification. The checklist will be developed and implemented during the next year.

3.4.3 SWPPP Inspection Report (BMP4-3)

The goal of this BMP is to develop a standard SWPPP Inspection Report to ensure complete and consistent inspection of NMSU's construction projects. EPA 833-R-060-04, "*Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites,*" provides a sample inspection report. A copy of the sample report is in Appendix D of this annual report. NMSU adopted this form as its SWPPP Inspection Report. Within two months of EPA issuing the new CGP next year, NMSU will revise the SWPPP Inspection Report as necessary.

3.4.4 Tenant Construction Compliance (BMP4-4)

During permit year three, NMSU was scheduled to review its leases with tenants to determine NMSU's legal authority to enforce the erosion, sediment, and waste control

requirements in the CGP. The review of tenant leases was delayed until the next permit year.

3.4.5 Tenant Construction Inspection (BMP4-5)

To the extent authorized by its property leases to tenants, NMSU was scheduled to inspect tenant construction sites last year for compliance with the CGP. The previous BMP is intended to determine NMSU's legal authority to inspect tenant construction sites. Potentially, NMSU's only legal authority may be to check NMSU streets (part of the MS4) adjacent to a tenant's construction site for discharges into the street. NMSU's ability to enforce may be limited to providing an informational notice of the CGP requirements or referring construction sites to the EPA for enforcement.

NMSU did not conduct inspections of tenant construction sites last year. The legal authority issue needs to be resolved through BMP4-4 before the inspections in BMP4-5 can be fully implemented. Until that time, NMSU will establish a schedule to do drive-by street inspections and inform the tenant of the CGP requirements when discharges to an NMSU street are observed.

3.4.6 Other Activities

During the reporting period, NMSU identified the use of lump sum payment for the SWPPP as an obstacle to CGP compliance on its construction projects. NMSU switched to payment using unit items for the SWPPP, including an item for maintenance of construction controls, to better manage the contractor's compliance. Use of unit items enables NMSU to withhold payment on controls and maintenance until they are correctly implemented.

3.5 POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

During the past year, NMSU's most significant accomplishments in post-construction storm water management were:

- Incorporation of green infrastructure into projects during the design phase; and
- Participation in planning a green infrastructure conference with the City of Las Cruces.

The following subsections assess the progress made on each post-construction storm water management BMP.

3.5.1 LEED Silver Standards for Capital Improvement Projects (BMP5-1)

NMSU adopted a policy that all new construction will be designed to apply for the U.S. Green Building Council's LEED Silver certification. A copy of this policy is in Appendix E. NMSU was successful in obtaining its first LEED Silver certification last year for the Football Coaches Office. NMSU will apply for certification of the following projects that were under construction last year:

- Gardiner Hall Addition and Renovation;

- Health and Social Services Building Addition; and
- Native American Cultural Center.

At the start of project design, NMSU prepares the Owner's Project Requirements (OPR), which include the LEED Silver design requirement. NMSU's policy is to use the U.S Green Building Council's current rating systems and checklists for new construction to guide project design. Through-out design, NMSU meets regularly with the architect and engineer to review the LEED checklist. During the review, NMSU checks that the features being proposed by the design team are acceptable, satisfy the OPR, and are likely to qualify for enough LEED credits to be certified at the Silver level.

Phase I of the Arts Complex, Chamisa Village Phase II (student apartments) and the new NMSU bookstore were in the design phase last year. A landscape architect has been involved in the design of these projects. The designs currently include infiltration trenches to harvest rainwater for landscaping. The Arts Complex also includes a greenbelt with porous pavement. It will be used as a driveway to drop-off people attending functions at the complex.

3.5.2 Drainage Design Guidelines (BMP5-2)

No activities were scheduled for this BMP during the past year. However, NMSU took its first step toward developing drainage design guidelines by including the requirement for a drainage analysis of the 100-year storm event in the Facilities Planning and Construction Design Procedures issued in May 2010. These were the first written design procedures that NMSU has issued in approximately 20 years. A copy of the procedures page with the drainage requirement is in Appendix E.

NMSU is on schedule to complete drainage design guidelines, including water quality criteria, by the end of the next permit year. The guidelines will encourage minimization of impervious area, preservation of natural drainage systems and the incorporation of design features to protect and improve storm water quality.

3.5.3 Tenant Development Requirements (BMP5-3)

The General Permit for Small MS4s requires the MS4 operator to address controls for post-construction runoff from development "*to the extent allowable under the legal authorities of the small MS4*." NMSU is doing so for its own development under BMP5-1; however, its authority to do so for a tenant's development project is limited to the requirements of the tenant's lease agreement. During the past year, NMSU was scheduled to review these leases to determine its authority to enforce development requirements on tenants.

NMSU has started reviewing the leases. One of the first results of the review was the discovery that the leases did not exclude drainage ways, including natural arroyos, from the tenant's property. NMSU is revising its lease agreements to exclude the drainage ways, so NMSU may retain authority over discharges into them.

During the fourth permit year, NMSU will continue its lease review. Within its legal authority, NMSU will modify existing leases and require tenants to comply with the

Drainage Design Guidelines (BMP5-2) when they are issued. All new leases will include this requirement.

3.5.4 Plan Review (BMP5-4)

The goal of this BMP is to ensure that development plans comply with Drainage Design Guidelines (BMP5-2) after they are established. No activities were scheduled for the past year; however, NMSU initiated reviews ahead of schedule when it started requiring a drainage analysis for the 100-year storm event.

During last year, NMSU's Office of Facilities and Services reviewed plans for:

- Arts Complex Phase I;
- Chamisa Village Phase II;
- New bookstore (to be operated by Barnes and Nobles);
- Lot 33 paving;
- Payne Street Extension (Arrowhead Drive); and
- Two tenant buildings in Arrowhead Research Center.

NMSU will continue reviewing development plans during permit years four and five. The reviews will expand to cover all the drainage requirements after the Drainage Design Guidelines (BMP5-2) are completed. Reviews of tenant development projects may be restricted depending on the results of BMP5-3.

3.5.5 MS4 Inspection and Repair Program (BMP5-5)

In permit year three, NMSU inventoried its drainage infrastructure. The inventory includes: constructed ponds and basins, inlets, storm drain pipe, curbs and gutters, constructed swales and culverts. The Drainage Channel and Structures Inventory is in Appendix E. In the following permit years, NMSU will add new infrastructure to the inventory as it is built. During permit year four, NMSU will develop an inspection schedule for all the structures on the MS4 inventory.

3.5.6 LID Workshop (BMP5-6)

The scheduled activity for last year was to meet with representatives from the City of Las Cruces and Doña Ana County to discuss interest in a regional Low Impact Development (LID) workshop. This goal was accomplished when the City of Las Cruces invited NMSU to participate in a regional Green Infrastructure Conference. NMSU met with the City's conference planning committee several times and became a Bronze Level sponsor by committing $250 in support. A copy of the conference registration information with the County listed as a sponsor is in Appendix E.

The Green Infrastructure Conference is scheduled for August 26, 2010. NMSU will attend the conference. NMSU has also committed resources to compile the presentations for distribution after the conference.

3.6 POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

During the past year, NMSU's most significant accomplishments in pollution prevention and good housekeeping for its municipal operations were:

- Swept 1500 to 2000 pounds of material per month from NMSU streets that are part of the campus drainage system; and
- Applied 150 to 200 tons of compost to landscaping instead of using chemical fertilizers.

The following subsections assess the progress made on each municipal operation BMP.

3.6.1 Good Housekeeping Procedures for Shops and Maintenance Facilities (BMP6-1)

Activities under this BMP start with identifying the NMSU craft shops, maintenance facilities and similar facilities that have exterior storage or work areas where potential pollutants are exposed for storm water pollutants. During the past year, NMSU was scheduled to develop written good housekeeping procedures for each of the identified facilities.

3.6.2 Annual Storm Water Pollution Prevention Inspections (BMP6-2)

No activities were scheduled for this BMP during the past year. After good housekeeping procedures are implemented (BMP6-1), NMSU will perform annual inspections of its shops and maintenance facilities to ensure the good housekeeping procedures are effective in minimizing storm water pollution. NMSU is on schedule to develop an inspection form and begin inspections in the fourth permit year.

3.6.3 Integrated Pest Management (IPM) Program (BMP6-3)

NMSU adopted many of the IPM methods being used in a contractor's IPM program when NMSU assumed grounds maintenance from the contractor in 2009. An IPM program helps reduce the amount of pesticides that could potentially enter the MS4. NMSU will expand its IPM practices and develop a written IPM program by the end of the next permit year. No activities were scheduled for this BMP during the past year.

3.6.4 Street Sweeping (BMP6-4)

The majority of storm water runoff on the NMSU campus is conveyed by surface flow through the university's streets. To reduce the pollutants discharged with the storm water, NMSU's main thorough-fares are swept once a month and for special campus events. Approximately 1500 to 2000 pounds of material were swept from the streets each month during the third permit year. Street sweeping efforts will continue for the remainder of the permit term.

3.6.5 Material Handling Procedures for MS4 Maintenance (BMP6-5)

During permit year three, NMSU was scheduled to develop written procedures for storing, handling and disposing of the materials it removes from the MS4.

3.6.6 Composting of Landscaping Waste (BMP6-6)

For most lawns, NMSU uses mulching mowers that deposit trimmings back into the lawn. Pruning waste and other organic matter from landscaping operations are taken to the on-campus composting facility. The finished compost is used as a slow-release fertilizer for campus landscaping. In permit year three, NMSU applied approximately 150 to 200 tons of compost to campus landscaping. Using compost reduces the amount of chemical fertilizer applied. NMSU will continue this composting process in permit year four.

3.6.7 Feasibility Study of Controls for Animal Pens (BMP6-7)

The goal of this BMP is to study the feasibility of reducing storm water pollutants from the animal pens in the west corner of the main campus. No activities were scheduled during the past year. NMSU is on schedule to conduct the feasibility study next year.

4.0 ANALYSIS OF MONITORING DATA

4.1 MONITORING OF WATER QUALITY

The General Permit for Small MS4s does not require data collection and monitoring of storm water discharges, unless the MS4 discharges to waters on the Clean Water Act Section 303(d) list of impaired waters. NMSU does not discharge directly to impaired waters; therefore, no data was collected for water quality monitoring, nor is it required.

4.2 MONITORING OF MIMINIMUM CONTROL MEASURES

NMSU's SWMP Monitoring/Assessment Plan establishes the methods and schedules for monitoring the effectiveness of its MCMs. The only MCMs that were scheduled to be monitored last year were Public Education and Public Involvement/Participation.

For Public Education and Outreach, NMSU was scheduled to initiate an annual e-mail survey during spring semester to measure the storm water knowledge of targeted audiences. The survey has been delayed until Spring 2011.

For Public Involvement/Participation, NMSU was scheduled to track the number of times the SWMP was viewed on its website. The tracking has been delayed until the fourth permit year.

5.0 INSPECTION AND ENFORCEMENT ACTIONS

The General Permit for Small MS4s requires inspection and enforcement for:

- Elimination of illicit discharges;
- Controls for construction site storm water runoff; and
- Requirements for post-construction storm water management.

The NMSU Police Department, being a state law enforcement agency, has the authority through the New Mexico Administrative Code to enforce the elimination of illicit discharges

NMSU is the owner and operator of all areas within its MS4 jurisdiction, except for areas leased to tenant operations. NMSU's legal authority to enter, inspect and enforce on these tenants is still under review. Therefore, NMSU has no construction or post-construction enforcement actions to report for last year. In future annual reports, at a minimum, NMSU will include the number of notifications to the tenants when violations are observed and the number of referrals to the EPA for enforcement, as authorized by the General Permit for Small MS4s when the MS4 operator does not have an ordinance or other regulatory means upon which to enforce requirements.

6.0 PROPOSED SWMP CHANGES

NMSU recently completed a reorganization that included departments with responsibilities for implementing BMPs in the SWMP. Figure 1 (next page) shows the new organization.

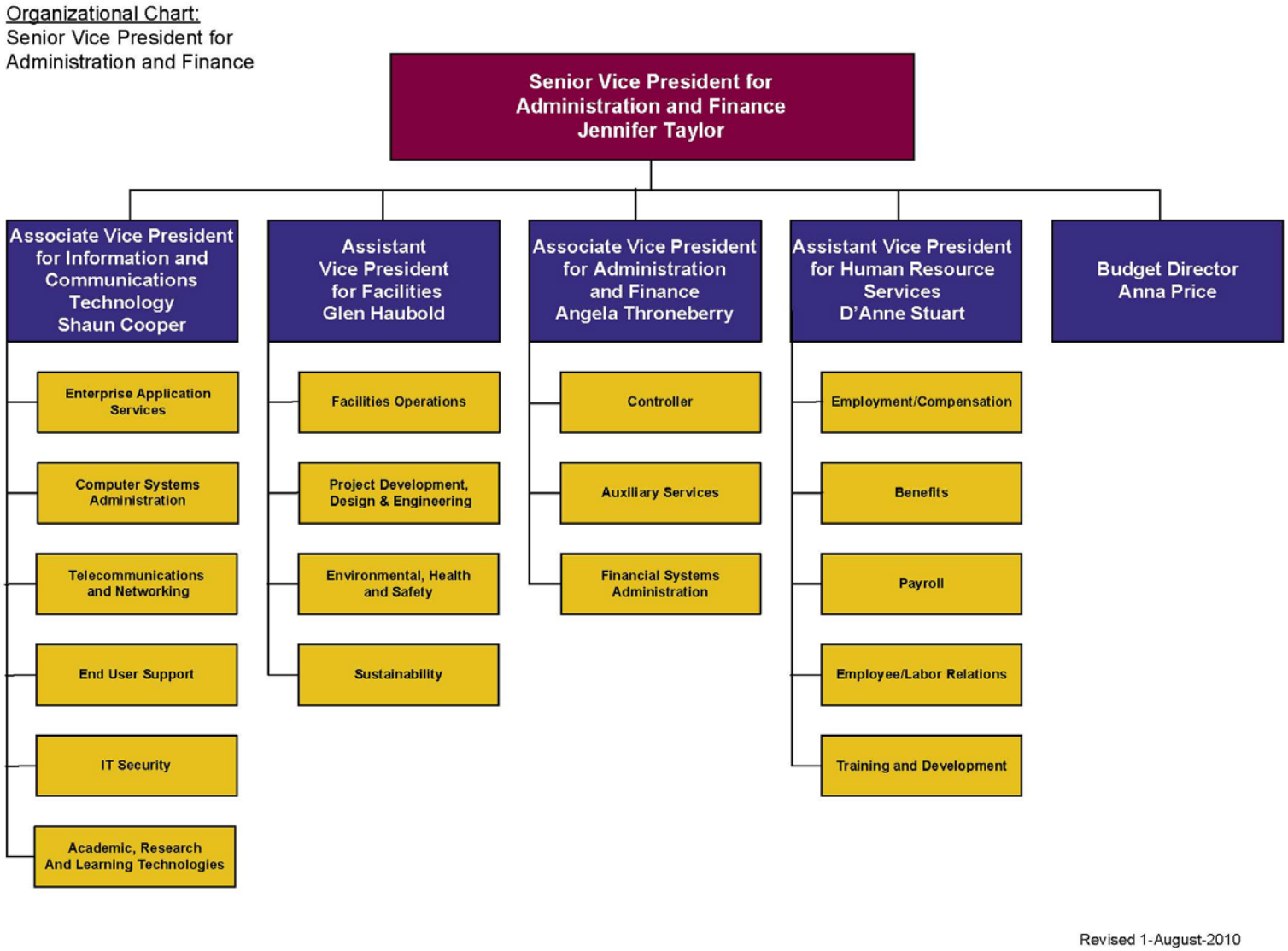

Figure 1. Organizational Chart for NMSU Administration and Finance

NMSU has determined that the new position of Assistant Vice President for Facilities is the senior executive officer having responsibility for overall operation of a principal geographic unit, as stated in 40 CFR 122.22, for the purpose of signing Notices of Intent, reports and other documents required by the General Permit for Small MS4s. Under the new organization, the responsible departments listed in SWMP Tables 1 through 6 are revised according to Table 7, effective July 1, 2010. Where the department name listed for permit year 3 in Table 7 appears in either the SWMP or this annual report, the responsible department will change to the one in the permit year 4 column of Table 7 on all future reports and permit-required documents.

Table 7. Departmental Changes in BMP Responsibilities

RESPONSIBLE DEPARTMENT PERMIT YEAR 3	RESPONSIBLE DEPARTMENT PERMIT YEAR 4
Office of Facilities and Services	Project Development, Design and Engineering
Facilities Maintenance	Facilities Operations
Facilities Planning and Construction	Project Development, Design and Engineering

6.1 CHANGES TO BMPS

NMSU proposes no changes to its BMPs for the next permit year.

6.2 CHANGES TO MEASURABLE GOALS

The schedule for meeting measurable goals has been revised for several BMPs due to resource constraints last year. The affected BMPs are: BMP1-2, BMP4-1, BMP4-2, BMP4-5, BMP6-1, and BMP6-2. All of the measurable goals are still on schedule to be met before the end of the current permit term in 2012. Changes to the schedules for these BMPs are shown in the "Planned Activities Permit Year 4" column of Tables 1 through 6 in Section 2.1 of the annual report. These changes are modifications to Tables 1 through 6 in the SWMP that was submitted to the EPA in 2009.

7.0 PUBLIC REVIEW AND COMMENT

NMSU made public notice that the draft of this annual report was available for public review. The notice was published in the Las Cruces Sun-News on September 10, 17 and 24, 2010. A copy of the public notice is in Appendix H. No public comments were received.

APPENDIX A

Public Education and Outreach Documents

BMP1-1 Communications Plan
BMP1-3 @NMSU Articles
BMP1-4 EPA Fact Sheet included in Family Housing Packet

Communications Plan:

New Mexico State University Storm Water Management Program
Date: Fall 2009

Background:

In 2007 the Environmental Protection Agency (EPA) issued a General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s). The permit's requirements are applicable to all state, city, county and other public bodies that own or operate a system of conveyances for storm water within an urbanized area. These conveyances may consist of roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, storm drains and other manmade channels or drainage structures.

New Mexico State University (NMSU) is an MS4 Operator within the Las Cruces Urbanized Area. Although NMSU has extensive properties throughout Las Cruces and New Mexico, the permit requirements are only applicable to the portion of NMSU within the Las Cruces Urbanized Area. This portion is called the main campus and is approximately bordered by University Avenue, Interstate Highway 25 and Interstate Highway 10. NMSU must meet several criteria to be eligible for authorization of its storm water discharges under the general permit. Please see the Storm Water Management Program (SWMP) on the university's Web site for more details on criteria.

NMSU has determined that it meets the eligibility requirements. Future drainage projects or other construction activity in support of permit requirements will need to be evaluated for their potential effects on endangered or threatened species and historic properties at the time the projects are planned and designed.

The Storm Water Management Program was prepared to fulfill the permit's requirement that NMSU develop, implement, and enforce a SWMP to reduce the discharge of pollutants to the maximum extent practicable (MEP). The EPA has determined that effectively implementing six Minimum Control Measures (MCMs) will satisfy the permit's MEP requirement.

The six MCMs are:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development and Redevelopment
- Pollution Prevention/Good Housekeeping for Municipal Operations

The permit contains standard requirements that must be addressed in the SWMP for each of these six MCMs. In addition, NMSU is required to propose Best Management Practices (BMPs) for each of the six MCMs. BMPs are activities, prohibitions, maintenance procedures and other practices to prevent or reduce the discharge of pollutants to receiving waters. NMSU's proposed BMPs are summarized in Tables 1 – 6 of Chapter 4.0. Upon review and acceptance of these proposed BMPs by the EPA, the BMPs will become incorporated into the permit by reference. NMSU will be responsible for implementing the BMPs on the schedule presented in the tables and in no case later than June 30, 2012. In addition to implementing the BMPs, NMSU is responsible for meeting general permit conditions that include:

- Submitting to the EPA a Notice of Intent to authorize its MS4 discharges under the permit;
- Submitting an annual report to the EPA by October 1 of each year;
- Publishing public notices of the Notice of Intent, SWMP, and each annual report;
- Developing a Monitoring and Assessment Plan to measure the effectiveness of BMPs; and
- Maintaining records of all permit-related documents and activities for at least three years

from the date of the document or activity or for the term of the permit, whichever is longer.

Objective: Promote greater awareness of New Mexico State University's efforts to develop, implement and enforce a Storm Water Management Program and encourage faculty, staff, students and tenants to reduce the impact of their activities on storm water quality.

Initial Media Relations contact: Darrell J. Pehr, 646-3223, pehr@nmsu.edu

Media/Action	Objective
Hotline – Distribute notices about the Storm Water Management Program through e-mail news service twice a year.	Inform and remind faculty, staff and students of the need to properly dispose of pollutants.
@NMSU article – Prepare two articles each fiscal year on the development and purpose of the Storm Water Management Program, with the first article to appear during the Spring 2010 semester. @NMSU is an electronic newsletter that is distributed to faculty and staff twice a month. The newsletter will be used to inform the faculty and staff about development of the NMSU SWMP and its implementation. The articles will include information on the role that faculty and staff have in preventing storm water pollution. Since NMSU is the leading institution of higher education and research in the Las Cruces Urbanized Area, the newsletter will also be used to encourage faculty and staff involvement in leadership and outreach on storm water pollution prevention in the watershed.	Increase campus awareness of developments and key elements of the Storm Water Management Program and drive target audience to the Web site for more information.
Public radio and television – KRWG media from NMSU provides public radio and television services to southern New Mexico and west Texas. In 2006 KRWG produced and aired *Rio Grande: How Clean is Our River?* This program looked at water quality in the Rio Grande and the types of point and non-point sources pollutants that affect the river. NMSU will produce a follow-on program that focuses on the sources of storm water pollutants. The program may focus on the public contribution to pollutants in storm water, storm water pollutant research being conducted by the New Mexico Water Resources Research Institute located at NMSU, storm water pollution prevention activities of the Paso Del Norte Watershed Council in which NMSU participates, or other storm water pollution prevention information. This will be done in Year 5.	Increase community awareness of developments and key elements of the Storm Water Management Program and drive target audience to the Web site for more information.
Other measures – Investigate other potential measures to communicate to target audiences to achieve maximum awareness, such as monitors in Corbett Center Student Union; news releases in local print media; mass e-mails to students, faculty and staff; public service announcements on KRUX, a student-operated, non-commercial student radio station; public service announcements, tag lines, and/or information segments on KRWG 90.7 FM, a public radio station that operates from NMSU; and segments for local programming on KRWG-TV.	Achieve maximum awareness through existing and future communication tools and methods.

Marketing Services

Marketing Item	Objective	Estimated Budget
Advertisement in The Round Up student	Invite target audience to make comments and get involved in Storm Water Management Program.	See Round Up rate card

newspaper or other avenues.	Once each fiscal year beginning Spring 2010.	

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University plans for storm water management

New Mexico State University has developed a Storm Water Management Program for the Las Cruces campus that fulfills an Environmental Protection Agency requirement that the university take steps to reduce the discharge of any pollutants as much as possible.

OFS recently rebuilt the Frenger footbridge, which spans a storm water drainage ditch adjacent to the International Mall.

The program is especially important as the campus goes into the summer season, when thunderstorms can wash debris and other materials into the drainage system. And because the university's Las Cruces campus is located in an urbanized area and the university uses a system of curbs, gutters, ditches and other means to channel runoff, it falls within the EPA requirements.

The EPA requires that the program include six minimum control measures, including:

- Public Education and Outreach on Storm Water Impacts
- Public Involvement/Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management in New Development

and Redevelopment

• Pollution Prevention/Good Housekeeping for Municipal Operations

The university is required to propose best management practices for each of the six control measures, which are outlined in the program.

The program can be viewed online at http://www.ofs.nmsu.edu/NMSU%20Storm%20Water%20Plan.pdf

Written by Darrell J. Pehr.

New Mexico State University

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Storm water management looks at allowable, illicit discharges

New Mexico State University's Storm Water Management Program for the Las Cruces campus includes six minimum control measures, as required by the Environmental Protection Agency.

One of the measures, Illicit Discharge Detection and Elimination, differentiates between allowable discharges and illicit discharges.

The Storm Water Management Program fulfills an EPA requirement that the university takes steps to reduce as much as possible the discharge of any pollutants. (NMSU photo by Darren Phillips)

Allowable non-storm water discharges include such activities as waterline flushing; landscape irrigation; discharges from potable water sources; air conditioning condensate; irrigation water; springs; footing drains; lawn watering; individual residential car washing; flows from wetlands and riparian habitats; de-chlorinated swimming pool discharges; street wash water; and discharges from emergency firefighting activities.

Illicit discharges include disposal of any solid waste that will harm

the environment or endangers the public health, welfare or safety as well as disposal of any solid waste in a place other than a solid waste facility.

The Storm Water Management Program fulfills an EPA requirement that the university takes steps to reduce as much as possible the discharge of any pollutants.

The program is especially important as the campus goes into the summer season, when thunderstorms can wash debris and other materials into the drainage system. And because the university's Las Cruces campus is located in an urbanized area and the university uses a system of curbs, gutters, ditches and other means to channel runoff, it falls within the EPA requirements.

More details about the minimum control measures will be included in future editions of @NMSU, or can be viewed online at http://www.ofs.nmsu.edu/NMSU%20Storm%20Water%20Plan.pdf.

Written by Darrell J. Pehr.

United States Environmental Protection Agency
Office of Water (4203)
EPA 833-F-00-002
January 2000 (revised December 2005)
Fact Sheet 2.0

Stormwater Phase II Final Rule

Small MS4 Stormwater Program Overview

Stormwater Phase II Final Rule Fact Sheet Series

Overview

1.0 – Stormwater Phase II Final Rule: An Overview

Small MS4 Program

2.0 – Small MS4 Stormwater Program Overview

2.1 – Who's Covered? Designation and Waivers of Regulated Small MS4s

2.2 – Urbanized Areas: Definition and Description

Minimum Control Measures

2.3 – Public Education and Outreach

2.4 – Public Participation/ Involvement

2.5 – Illicit Discharge Detection and Elimination

2.6 – Construction Site Runoff Control

2.7 – Post-Construction Runoff Control

2.8 – Pollution Prevention/Good Housekeeping

2.9 – Permitting and Reporting: The Process and Requirements

2.10 – Federal and State-Operated MS4s: Program Implementation

Construction Program

3.0 – Construction Program Overview

3.1 – Construction Rainfall Erosivity Waiver

Industrial "No Exposure"

4.0 – Conditional No Exposure Exclusion for Industrial Activity

Polluted storm water runoff is often transported to municipal separate storm sewer systems (MS4s) and ultimately discharged into local rivers and streams without treatment. EPA's Stormwater Phase II Rule establishes an MS4 stormwater management program that is intended to improve the Nation's waterways by reducing the quantity of pollutants that stormwater picks up and carries into storm sewer systems during storm events. Common pollutants include oil and grease from roadways, pesticides from lawns, sediment from construction sites, and carelessly discarded trash, such as cigarette butts, paper wrappers, and plastic bottles. When deposited into nearby waterways through MS4 discharges, these pollutants can impair the waterways, thereby discouraging recreational use of the resource, contaminating drinking water supplies, and interfering with the habitat for fish, other aquatic organisms, and wildlife.

In 1990, EPA promulgated rules establishing Phase I of the National Pollutant Discharge Elimination System (NPDES) stormwater program. The Phase I program for MS4s requires operators of "medium" and "large" MS4s, that is, those that generally serve populations of 100,000 or greater, to implement a stormwater management program as a means to control polluted discharges from these MS4s. The Stormwater Phase II Rule extends coverage of the NPDES stormwater program to certain "small" MS4s but takes a slightly different approach to how the stormwater management program is developed and implemented.

What Is a Phase II Small MS4?

A small MS4 is any MS4 not already covered by the Phase I program as a medium or large MS4. The Phase II Rule automatically covers on a nationwide basis all small MS4s located in "urbanized areas" (UAs) as defined by the Bureau of the Census (unless waived by the NPDES permitting authority), and on a case-by-case basis those small MS4s located outside of UAs that the NPDES permitting authority designates. For more information on Phase II small MS4 coverage, see Fact Sheets 2.1 and 2.2.

What Are the Phase II Small MS4 Program Requirements?

Operators of regulated small MS4s are required to design their programs to:

- ❑ Reduce the discharge of pollutants to the "maximum extent practicable" (MEP);
- ❑ Protect water quality; and
- ❑ Satisfy the appropriate water quality requirements of the Clean Water Act.

Implementation of the MEP standard will typically require the development and implementation of BMPs and the achievement of measurable goals to satisfy each of the six minimum control measures.

The Phase II Rule defines a small MS4 stormwater management program as a program comprising six elements that, when implemented in concert, are expected to result in significant reductions of pollutants discharged into receiving waterbodies.

The six MS4 program elements, termed "minimum control measures," are outlined below. For more information on each of these required control measures, see Fact Sheets 2.3 – 2.8.

❶ ***Public Education and Outreach***
Distributing educational materials and performing outreach to inform citizens about the impacts polluted stormwater runoff discharges can have on water quality.

❷ ***Public Participation/Involvement***
Providing opportunities for citizens to participate in program development and implementation, including effectively publicizing public hearings and/or encouraging citizen representatives on a stormwater management panel.

❸ ***Illicit Discharge Detection and Elimination***
Developing and implementing a plan to detect and eliminate illicit discharges to the storm sewer system (includes developing a system map and informing the community about hazards associated with illegal discharges and improper disposal of waste).

❹ ***Construction Site Runoff Control***
Developing, implementing, and enforcing an erosion and sediment control program for construction activities that disturb 1 or more acres of land (controls could include silt fences and temporary stormwater detention ponds).

❺ ***Post-Construction Runoff Control***
Developing, implementing, and enforcing a program to address discharges of post-construction stormwater runoff from new development and redevelopment areas. Applicable controls could include preventative actions such as protecting sensitive areas (e.g., wetlands) or the use of structural BMPs such as grassed swales or porous pavement.

❻ ***Pollution Prevention/Good Housekeeping***
Developing and implementing a program with the goal of preventing or reducing pollutant runoff from municipal operations. The program must include municipal staff training on pollution prevention measures and techniques (e.g., regular street sweeping, reduction in the use of pesticides or street salt, or frequent catch-basin cleaning).

What Information Must the NPDES Permit Application Include?

The Phase II program for MS4s is designed to accommodate a general permit approach using a Notice of Intent (NOI) as the permit application. The operator of a regulated small MS4 must include in its permit application, or NOI, its chosen BMPs and measurable goals for each minimum control measure. To help permittees identify the most appropriate BMPs for their programs, EPA issued a Menu of BMPs to serve as guidance. NPDES permitting authorities can modify the EPA menu or develop their own list. For more information on application requirements, see Fact Sheet 2.9.

What Are the Implementation Options?

The rule identifies a number of implementation options for regulated small MS4 operators. These include sharing responsibility for program development with a nearby regulated small MS4, taking advantage of existing local or State programs, or participating in the implementation of an existing Phase I MS4's stormwater program as a co-permittee. These options are intended to promote a regional approach to stormwater management coordinated on a watershed basis.

What Kind of Program Evaluation/Assessment Is Required?

Permittees need to evaluate the effectiveness of their chosen BMPs to determine whether the BMPs are reducing the discharge of pollutants from their systems to the "maximum extent practicable" and to determine if the BMP mix is satisfying the water quality requirements of the Clean Water Act. Permittees also are required to assess their progress in achieving their program's measurable goals. While monitoring is not required under the rule, the NPDES permitting authority has the discretion to require monitoring if deemed necessary. If there is an indication of a need for improved controls, permittees can revise their mix of BMPs to create a more effective program. For more information on program evaluation/assessment, see Fact Sheet 2.9.

For Additional Information

Contacts

☞ U.S. EPA Office of Wastewater Management
http://www.epa.gov/npdes/stormwater
Phone: 202-564-9545

☞ Your NPDES Permitting Authority. Most States and Territories are authorized to administer the NPDES Program, except the following, for which EPA is the permitting authority:

Alaska	Guam
District of Columbia	Johnston Atoll
Idaho	Midway and Wake Islands
Massachusetts	Northern Mariana Islands
New Hampshire	Puerto Rico
New Mexico	Trust Territories
American Samoa	

☞ A list of names and telephone numbers for each EPA Region and State is located at http://www.epa.gov/npdes/stormwater (click on "Contacts").

Reference Documents

☞ EPA's Stormwater Web Site
http://www.epa.gov/npdes/stormwater

- Stormwater Phase II Final Rule Fact Sheet Series
- Stormwater Phase II Final Rule (64 *FR* 68722)
- National Menu of Best Management Practices for Stormwater Phase II
- Measurable Goals Guidance for Phase II Small MS4s
- Stormwater Case Studies
- And many others

APPENDIX B

Public Involvement/Participation Documents

BMP2-1 Web Link to SWMP
Other Activities – Example Facebook Posting
Other Activities - 2010 RecycleMania Press Release

New Mexico State University

Office of Facilities and Services

Office of Facilities and Services
Customer Request
AiM Customer Service Manual
Utility Module Documentation
Training Video
Letters from the Asst. VP OFS

Search
NMSU Home

Click the logo to access the AiM System

AiM™

On December 16th, the Office of Facilities and Services (OFS) will replace the current work order system with a NEW SOFTWARE SYSTEM (AiM). This new work order system will improve the work management process to better serve our customers, to provide thorough management reporting, and to allow for the accurate measurement of metrics so that areas of improvement may be targeted. For more information please see our link to Facility Managment System (FMS). To access the AiM System and/or create a customer request/work order click on Customer Request.

The Office of Facilities and Services is responsible for maintaining the buildings and infrastructure, including electricity, plumbing, air-conditioning, and heating, for New Mexico State University. Previously known as the Physical Plant Department (PPD), this office includes both craft shops, including carpentry, construction, electricians, locksmiths, painters, and plumbers, but also services, including the custodians, engineering, and groundkeepers.

Our mission is to provide courteous, responsive, cost-effective service.

Something's Broken!

- Who to call
- Building Monitor Newsletter

Services Provided

- Services Provided
- Other Services Available
- Utilities
- Custodial Care
- Grounds Care
- Estimates

View Charges

- Old System (prior to 12.16.2009)

Engineering and Construction

Customer Satisfaction

Guidelines

- Volume1 - FP&C Design Procedures
- Volume2 - Guidelines Divisions (Table of contents on page 3)
- Volume3 - Div 27 - ICT - Communications
- Volume4 - Div 33 Utilities
- Drawings

Forms and Reports

- Online Forms
- IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER 03.16.2010
- Domestic Water Supply Consumer Confidence Report
- NPDES - Storm Water Management Program
- Storm Water Pollution Prevention Plans (SWPPP)
  - Burn Construction Company, Arrowhead Drive Extension

Surveys

- 2009

Contact Information

Office of Facilities and Services

Phone: (575) 646-3021

FAX: (575) 646-1460

email: ask-ofs@nmsu.edu

Address:

1530 Wells St.

Las Cruces, NM

Mailing Address:

MSC 3545 / P.O. Box 30001

Las Cruces, NM, 88003-8001

Chat (0) Search Home Profile Account

THE ROUND UP

Information

Category:
Student Groups - Alumni Groups

Description:
This group is for former NMSU students that worked at the student newspaper, The Round Up.

Privacy Type:
Open: All content is public.

Admins

- Chris Wagnon (East Bay, CA) (creator)

Members

6 of 66 members See All

John Baxter | Darrell Pehr | Robert Lane
Denise Nava | Marc Reid | Susan Prosoco

Links

1 link See All

www.ofs.nmsu.edu
9:39am May 6

Report Group

Share

NMSU Round Up alumni Join

Wall | Info | Discussions | Photos

Darrell Pehr What happens when the summer rains come? NMSU now has a Storm Water Management Program. Check it out at http://www.ofs.nmsu.edu/NMSU%20Storm%20Water%20Plan.pdf

> **www.ofs.nmsu.edu**
> www.ofs.nmsu.edu

May 6 at 9:39am · Share · Flag

Joseph Hostler Advertising Director 1986-1988. Somebody had to keep the paper in the black with all those award winning journalists running around.
February 22 at 6:50pm · Flag

Geoff Grammer Any openings at the Round Up? Some of us old timers still in the biz may need the work.
January 29 at 5:51pm · Flag

Jon Blazak Hello all former Round Up employees...my name is Jon Blazak and I am the current Editor-in-Chief. I would like you all to keep in touch with me and the current Round Up staff this year and if any of you are still local please set up a time to come by and see the place and maybe talk to current editors.
August 29, 2009 at 11:45am · Flag

Ed Thompson I was the sports editor in 1993-94. I covered Neil McCarthy and the men's basketball team and even got a trip to the NCAA tournament in Oklahoma city out of the gig. Good times. Good times. I think I played more

CONTACTS
Robert Wallace/Alec Cooley
Tel: 203.659.3016 / 843.278.7686
Email: rwallace@kab.org / acooley@kab.org
Web site: http://recyclemaniacs.org

10th Annual Collegiate "RecycleMania" Competition Announces Final Results

607 Colleges and Universities Nationwide Compete to Reduce, Reuse and Recycle

Washington, D.C. (April 16, 2010) — The ruckus heard across college campuses this spring was not just because of the NCAA basketball tournament. It was also RecycleMania season. Every spring, students across the country become RecycleManiacs competing for national supremacy to determine which school can reduce, reuse and recycle the most campus waste.

From January 17 to March 27, this 10-week challenge ignites classic college rivalries, rallying students, faculty and staff to increase on-campus recycling rates beyond their collegiate competitors. RecycleMania wrapped up its 10th annual recycling competition in late March, with over 84.5 million pounds of recyclables and organics recovered from 607 colleges and universities across the country.

"The growth success of RecycleMania proves that college campuses and students are embracing sustainability like never before," said Ed Skernolis, vice president/recycling, Keep America Beautiful, Inc. "Keep America Beautiful is proud to sponsor and support this incredible event, knowing that we are creating awareness and building momentum for recycling everywhere – at home, at school, at work and throughout the community."

The spirit of friendly competition sparked huge environmental gains. The total amount of recyclables and organic materials recovered during the 2010 competition added up to 84.5 million pounds, which in turn prevented the release of nearly 137,500 metric tons of carbon dioxide equivalent (MTCO2E). In real-world terms, this reduction in greenhouse gases is equivalent to the annual emissions from 23,850 passenger cars; electricity use of 15,140 homes; or the burning of 650 railcars' worth of coal.

"One unique aspect of RecycleMania is that everyone is a competitor," noted Bill Rudy, recycling coordinator at Brigham Young University and chair of the RecycleMania Steering Committee. "No one sits on the sidelines. When a student recycles they add to their score and if they throw something away it hurts the school's ranking. With the whole campus in the game, the competitive spirit spreads and recycling increases."

"RecycleMania helps students rethink their waste," said Scott Vitters, director of sustainable packaging, The Coca-Cola Company. "Coca-Cola is a proud sponsor of the RecycleMania program. Through the course of the competition, they learn to recognize that bottles, cans, cardboard and paper are valuable recyclable materials."

Colleges and universities chose to participate in one of two divisions, either the Competition or Benchmark. The Competition Division houses the traditional competitive rankings based on standard tracking and reporting criteria. The Benchmark Division allows schools to unofficially compare themselves with other schools and to promote RecycleMania on campus without the formal reporting requirements of the competitive ranking. Within each division, schools participate in any of eight categories, including the "Grand Champion," which measures recycling as a percentage of the total waste generation; the "Per Capita Classic," which measures the largest amount of combined recyclables per person; the "Waste Minimization" competition, which tracks the lowest amount of waste per person; and the "Gorilla" Prize, which acknowledges the schools with the highest total combine recycling weights. In addition to these main categories, schools also compete in targeted material categories to see who can recycle the most paper, cardboard, cans and bottles, and food waste on a per capita basis.

The "Grand Champion" top three finalists, determined by the percentage of overall waste that is recycled over 10 weeks, were:

- California State University-San Marcos *(*71.82 *%) – San Marcos, CA*
- New Mexico State University *(*69.05 *%) – Las Cruces, NM*
- American University *(*64.90 *%) – Washington DC*

The "Per Capita Classic" top three finalists, determined by total pounds of recyclables collected per person over 10 weeks, were:

- United States Coast Guard Academy *(81.75 pounds) – New London, CT*
- Franklin W. Olin College of Engineering *(63.14 pounds) – Needham, MA*
- Colorado College *(60.8 pounds) – Colorado Springs, CO*

The "Waste Minimization" top three finalists, determined by the lowest overall amount of waste (recyclables and trash) per person over 10 weeks, were:

- North Lake College *(*6.17 *pounds) – Irving, TX*
- Harford Community College (7.87 *pounds) – Bel Air, MD*
- Santa Monica College *(*8.13 *pounds) – Santa Monica, CA*

The "Gorilla Prize" top three finalists, determined by the highest cumulative weight of recyclables over 10 weeks, were:

<u>Gorilla Prize</u>

- Rutgers University *(*2,541,093 *pounds) – Piscataway, NJ*

- Harvard University *(*996,760 *pounds) – Cambridge, MA*
- Stanford University *(*888,884 *pounds) – Stanford, CA*

Targeted Material (pounds per person over 10 weeks)

Paper:

- Franklin W. Olin College of Engineering *(*30.71 *pounds) – Needham, MA*
- Westfield State College *(*23.89 *pounds) – Westfield, MA*
- Medical University of South Carolina *(*21.64 *pounds) – Charleston, SC*

Corrugated Cardboard:

- Kalamazoo College *(*25.23 *pounds) – Kalamazoo, MI*
- Union College *(*23.14 *pounds) – Schenectady, NY*
- Rutgers University *(*20.41 *pounds) – Piscataway, NJ*

Bottles and Cans:

- Ursinus College *(*19.44 *pounds) – Collegeville, PA*
- Kalamazoo College *(*16.29 *pounds) – Kalamazoo, MI*
- Franklin W. Olin College of Engineering *(*15.45 *pounds) – Needham, MA*

Food Service Organics:

- Johnson & Wales University-Denver *(41.79 pounds) – Denver, CO*
- United States Coast Guard Academy *(*37.49 *pounds) – New London, CT*
- Middlebury College *(*29.31 *pounds) – Middlebury, VT*

Top schools in each category earn "bragging rights," while the winners of each are recognized with an award made of recycled glass.

The RecycleMania competition is a program of the RecycleMania Steering Committee in coordination with the College and University Recycling Coalition (CURC). Program management for RecycleMania is provided by Keep America Beautiful in coordination with the U.S. EPA's WasteWise program. RecycleMania is made possible through the sponsorship support of The Coca-Cola Company, American Forest & Paper Association and Keep America Beautiful.

##############

About RecycleMania

RecycleMania was launched in 2001 as a friendly challenge between Ohio University and Miami University to increase recycling on their campuses. The contest has expanded rapidly in nine years' time from two schools in 2001 to 607 colleges and universities in 2010 spanning 49 states, the District of Columbia, and Canada. Over a 10-week period, campuses compete to see which institution can collect the largest amount of recyclables per capita, the largest amount of total recyclables, the least amount of trash per capita, or have the highest recycling rate. For complete competition background and details, visit the RecycleMania website at www.recyclemaniacs.org.

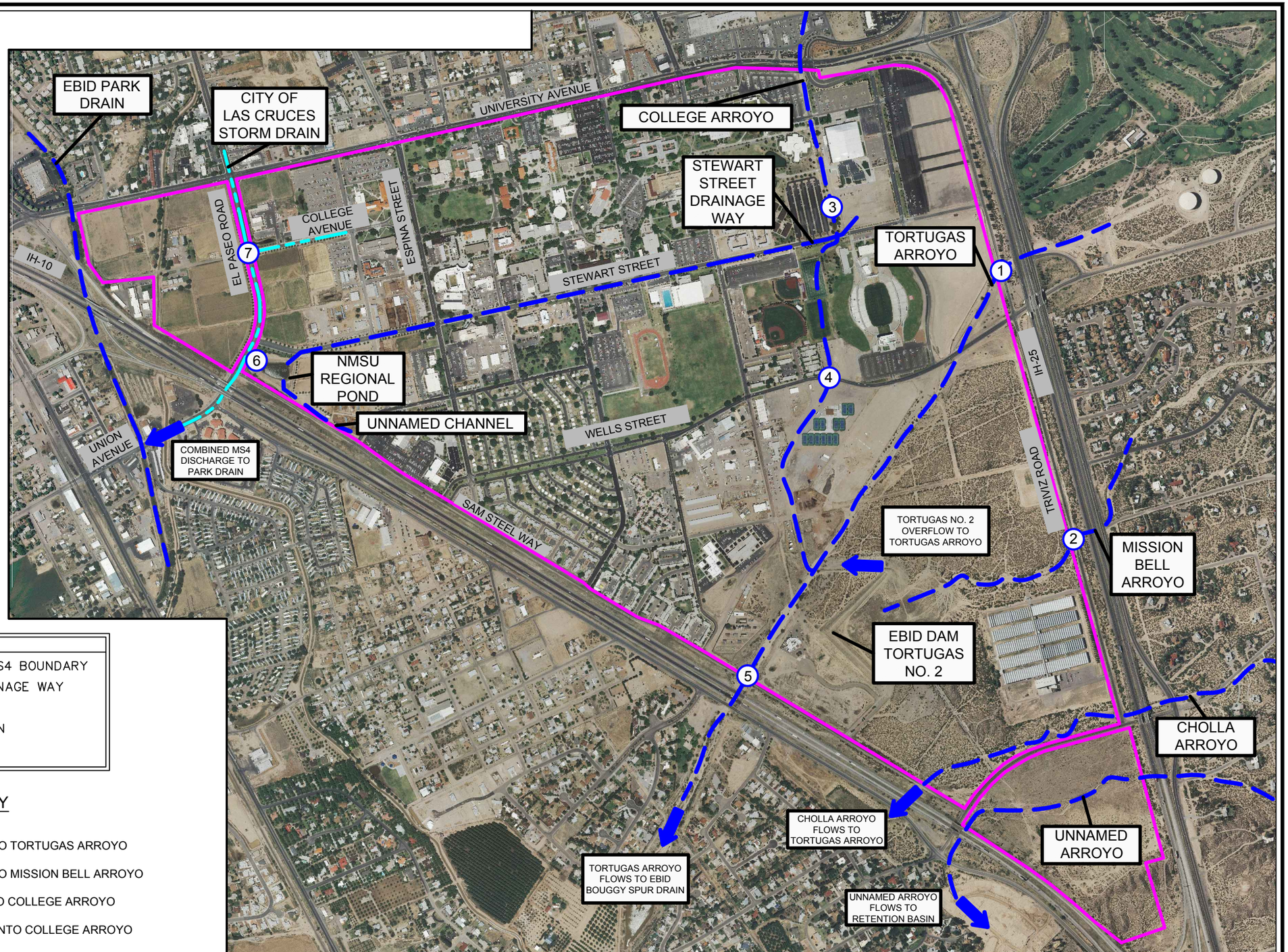
APPENDIX C

Illicit Discharge Detection and Elimination Documents

BMP3-1 Outfall Map
BMP3-4 HHW E-mail to Housing Residents
BMP3-5 Solid Waste Collection Sites
BMP3-6 Facility Maintenance Schedule
BMP3-7 Employee Training Information

SCALE: 1" = 1000'

0 500' 1000' 2000'



LEGEND
NMSU PERMITTED MS4 BOUNDARY
STORM WATER DRAINAGE WAY
MS4 STORM DRAIN
MS4 FLOW DIRECTION
(1) NMSU MS4 OUTFALL

OUTFALL KEY

1. TRIVIZ ROAD: STREET DRAINAGE INTO TORTUGAS ARROYO
2. TRIVIZ ROAD: STREET DRAINAGE INTO MISSION BELL ARROYO
3. LOT 33: PARKING LOT DRAINAGE INTO COLLEGE ARROYO
4. WELLS STREET: STREET DRAINAGE INTO COLLEGE ARROYO
5. SAM STEEL WAY: STREET DRAINAGE INTO TORTUGAS ARROYO
6. NMSU REGIONAL POND: VALVED DISCHARGE TO LAS CRUCES MS4
7. COLLEGE AVENUE: STORM DRAIN DISCHARGE TO LAS CRUCES MS4

MPS
4100 RIO BRAVO ST., STE. 320
EL PASO, TX 79902-1049
WWW.MARTICHPS.COM

DESIGNED BY: K. MARTICH
DRAWN BY: E. CHACON
REVIEWED BY: K. MARTICH

NEW MEXICO STATE UNIVERSITY
LAS CRUCES, NEW MEXICO

STORM WATER MANAGEMENT PROGRAM
AUGUST 2010

MS4 OUTFALL MAP

David Bollschweiler

From: Block, Gregory
Sent: Wednesday, June 09, 2010 8:16 AM
To: David Bollschweiler
Subject: FW: Household Hazardous Waste Disposal

-----Original Message-----
From: Block, Gregory
Sent: Tuesday, May 11, 2010 4:26 PM
To: 'David Bollschweiler'
Subject: FW: Household Hazardous Waste Disposal

Dave

Here is a copy of an email sent to all SFH residents for your files related to storm water run off. Date and time are correct of when this was sent to all residents.

Gregory S. Block
Associate Director
Housing and Residential Life
New Mexico State University
575-646-3202

-----Original Message-----
From: housing@nmsu.edu [mailto:housing@nmsu.edu]
Sent: Tuesday, May 11, 2010 4:22 PM
To: SFH residents
Subject: Household Hazardous Waste Disposal

On occasion you will find that you have household hazardous waste needing disposal from your house. Our department has coordinated with the South Central Solid Waste Authority to provide services for household hazardous waste materials. The site for you to access these services is located on 2855 W. Amador Ave., and they accept the following recyclables: household cleaners, pesticides, herbicides, motor oil, cooking oil, antifreeze, rechargeable and vehicle batteries, paints, stains, or any item considered ignitable, poisonous or corrosive. Ammunition is not accepted but may be dropped off at the City of Las Cruces Fire Department.

Solid Waste Collection Sites-NMSU Campus Updated: July 2009

Dumpsters - Housing

100 Aggie Express Store
101 Vista Del Monte '92 & 95'
102 Vista Del Monte '92 & 95'
103 Vista Del Monte '92 & 95'
104 Vista Del Monte '92 & 95'
105 Cervantes Village E
106 Cervantes Village F
107 Cervamtes Village J
108 Cervantes Village H
109 Cervantes Village G
110 Cervantes Village C
111 Cervante Village A
112 Cervantes Village B
113 Cervantes Village D
120 Greek Complex I
121 Greek Complex I
122 Greek Complex II
132 Chamisa Hall
133 Chamisa Hall
134 Chamisa Hall
135 Chamisa Hall
140 Garcia Hall
141 Garcia Hall
142 Garcia Hall
150 Monagale Hall
150 Monagale Hall
160 Rhodes - Garrett- Hamiel
180 Cole Village
181 Cole Village
182 Cole Village
183 Cole Village
184 Cole Village
185 Cole Village
186 Cole Village
187 Cole Village
188 Cole Village
190 Pinon Hall
191 Pinon Hall

Dumpsters-OFS

170 Regents Row
200 Agriculture Engineering
202 Genisis Center
203 J. Gordon Watts Entomology
204 Police Station
206 Animal Care Facility
207 Old Jornada Building
208 Theater Arts Scene Shop
209 Zuhl Library
210 Storage Units
211 Central Heating Plant
212 Jett hall
213 Williams Hall A
213 Williams Hall B
214 Academic Reseach
215 Milton Hall
217 Engineering Complexes I &II
220 Skeen Hall/CSDAL
222 Wooten Hall/USDA
223 Equesttrian Center
226 Weddell Drive
227 Foster Hall
227 Fire Department
229 Health & Social Services
230 PGL Greenhouse
231 Mechanics Shop
232 O'Donnell Hall
400 Horse Farm (Union Street)
403 NM Dept of Agriculture
299 Special-use Dumpsters

Dumpsters - Auxiliary

300 Baseball Fields
301 Aggie Memorial Stadium
303 Departmental Charges
304 Golf Course Maint. Shop
306 D.A.C.C.
306 D.A.C.C.
310 Food Court-Fringer
311 S.W. Technology Dev.
312 Zeta tau Alpha/Delta Zeta
313 Chi Omega
314 New Golf Course Clubhouse
315 Fulton Athletic Center
401 EPPWS (East of Golf Course)
402 Rodeo Arena (East/Golf course)

Polycarts - OFS

8 Preciado Park
12 Delamater Activiyy Center
13 Natatorium
27 Presidents's Residence
99 Special-Use polycarts (use site name)

Polycarts - Auxiliray

18 Tennis Center
43 Softball Field

Roll-offs & Compactor

500 Corbett Center (30 yd3compactor) Aux
501 Housing Whse Two Roll-Offs
502 OFS (40 yd3 compactor)-OFS
503 OFS (yd3 roll off next to compactor)-OFS
504 OFS (30 yd roll-off stand-alone)-OFS
505 Concrete-OFS
506A Pan am roll off-OFS
506B Pan am roll off-OFS
508 Green waste Yrd-OFS
510 Special -use roll-offs (Use site name)-OFS

Cardboard Dumpsters

Chamisa-1
Monagle-1
PSL-2
Skeen-1
Pinon-1
Property Whse-1

Calander of Operations

Main Campus

Description of Tasks	Frequencies
1.0 Aeration	3
1.1 Mowing	26
1.2 Mulching Leaves	2
1.3 Trimming	26
1.4 Blowing after Mowing	26
1.5 Edging, Sidewalks	6
1.6 Edging, Tree Rings	6
1.7 Blowing after Edging	6
2.0 Pruning & Hedging	4
3.0 Fertilization, Turf	3
3.1Fertilization, Tree & Shrub	3
3.2 Blowing after Fertilizing	3
4.0 Pre-Emergent Weeds, Turf	2
4.1 Pre-Emergent Weeds, Beds	2
4.2 Broadleaf Herbicide, Turf	2
4.3 Spot Weeds, Turf & Beds	5
4.4 Weeding, Manual	52
5.0 Litter/Debris Patrol	156
5.1 Replenish Tree Rings	1
6.0 Irrigation, Manual	n/a
6.1 Irrigation, Timer Setting	3
6.2 System Check, Spray	3
6.3 System Check, Drip/Bubbler	3
7.0 Sweeping, Streets	12
7.1 Sweeping, Parking Lots	n/a
8.0 Site Inspection	12

FREQUENCIES DENOTES TIMES PER YEAR THAT WORK WILL BE DONE

SHADED AREAS IN EACH MONTH ARE TIMES THAT WORK WILL BE DONE

WHAT IS AN ILLICIT DISCHARGE?

The term "illicit discharge" is defined in EPA's Phase II storm water regulations as "any discharge to a municipal separate storm sewer that is not composed entirely of storm water, except discharges pursuant to an NPDES permit discharges resulting from fire-fighting activities."

Illicit discharges can be categorized as either direct or indirect.

- Examples of direct illicit discharges:
  - Materials (e.g., used motor oil) that have been dumped illegally into a storm drain or arroyo
  - Shop floor drain that is connected to the storm sewer
  - Cross-connection between the municipal sewer and storm sewer systems
- Examples of indirect illicit discharges:
  - Old and damaged sanitary sewer lines that leak fluids into cracked storm drains or arroyos
  - Failing septic systems that leak into a cracked storm sewer line or causing surface discharge into the storm drains or arroyos

WHAT ARE THE ELEMENTS OF AN IDDE PROGRAM?

EPA's Phase II regulations state that an IDDE program must incorporate the following four elements:

1. Develop (if not already completed) a storm sewer system map showing the location of all outfalls, and the names and location of all waters of the United States that receive discharges from those outfalls.
2. To the extent allowable under state, tribal, or local law, effectively prohibit through ordinance, or other regulatory mechanism, illicit discharges into the separate storm sewer system and implement appropriate enforcement procedures and actions as needed.
3. Develop and implement a plan to detect and address illicit discharges, including illegal dumping, to the system.

4. Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

According to EPA's Phase II storm water regulations, an illicit discharge detections and elimination program need only address the following categories of non-storm water discharges if the operator of small MS4 identifies them as significant contributors of pollutants to the MS4:

- water line flushing
- landscape irrigation diverted stream flows
- rising ground waters
- uncontaminated ground water infiltration
- uncontaminated pumped ground water
- discharges from potable water sources
- foundation drains
- air conditioning condensation
- irrigation water
- springs
- water from crawl space pumps
- footing drains
- lawn watering
- individual residential car washing
- flows from riparian habitats and wetlands
- dechlorinated swimming pool discharges
- street wash water

For each of these mandatory elements, EPA suggests a variety of approaches that can help in creating a successful IDDE program.

Preventing and Responding to Illegal Dumping

It is often difficult to identify and locate the individuals responsible for illegal dumping; therefore, a program to address illegal dumping should focus on prevention, backed up by enforcement to the extent possible.

EPA Region 6 has prepared an *Illegal Dumping Prevention Guidebook* that suggests the following key strategies that can be used to prevent illegal dumping.

- **Site maintenance and controls** Measures should be taken to clean up areas where illegal dumping has taken place, and controls such as signs or access restrictions should be used, as appropriate, to prevent further dumping.
- **Community outreach and involvement** Outreach is the linchpin of an illegal dumping prevention program and can include the following components:
    - Educating businesses, municipal employees, and the general public about the environmental and legal consequences of illegally disposing of waste into the storm sewer system.
    - Providing and publicizing ways for citizens to properly dispose of waste.
    - Providing opportunities for citizens to get involved in preventing and reporting illegal dumping.
- **Targeted enforcement** This strategy should include a prohibition against illegal dumping via ordinance or another similar measure, backed up by trained law-enforcement personnel and possibly field operations.
- **Program measurement** Tracking and evaluation methods should be sued to measure the impact of illegal dumping prevention efforts and determine whether goals are being met.

Although the EPA Region 6 guidebook is targeted more to land dumping of solid waste, these strategies can also be applied to illegal dumping into the storm drain system. Some specific methods that municipalities can use to implement these strategies include the following:

- **Site maintenance and controls**
    - Storm drain stenciling program
    - Spill response plans for hazardous waste spills
- **Community outreach and involvement**
    - An illegal dumping reporting hotline
    - Outreach to business sectors that handle hazardous materials and/or have a history of illegal dumping problems; outreach should include information on Best Management Practices for spill prevention and proper waste disposal.

All illicit discharge observations should be recorded and should include notations of any local conveyance system (arroyo, roadway). During monitoring, physical characteristics of the monitoring locations should be observed.

- Odor- The odor of the discharge can directly indicate the source of contamination. For example, the smell of rotten eggs is often an indicator of food service or food packing/processing industries.
- Color- Color is an important indicator of an IC/ID. Dark colors such as brown, gray, and black are the most common colors found in inappropriate discharges. Other colors such as yellow and orange can be indicators of chemical manufacturing or metal finishing process waters.
- Turbidity- Turbidity is often an indicator of contamination concentration. Highly turbid waters suggest high concentrations while water with relatively low turbidity suggest little contamination or contamination from a diluted source.
- Temperature- High temperature of dry weather flows is often an indicator of industrial process cooling waters or waters with high carbon dioxide content.
- Floatable matter- Matter such as liquids or solids or objects can sometimes directly identify source of contamination. Oil sheen can be an indication of rinse water from automotive facilities or from places where commercial petroleum products are used.
- Deposits and stains (residues) - Residues are helpful when indicating sources where dry weather flows are low and not flowing, but leave behind deposits and stains.
- Vegetation- Vegetation can be and indicator of the effects of pollutants. Decay from organic material, fertilizer, and other chemical nutrients can promote eutrophication of dry weather lows, outfalls, and tributaries. Inhibited growth can indicate toxins that are detrimental to flora growth.
- Structural condition- Structural condition can be an indicator of the effects of pollutants or flow velocities and amounts. Damages to concrete or metal structures may indicate serious water quality problems, such as low pH values. Significant erosion of open channels may indicate unusually large flows of water.

Contact: David Bollschweiler 646-7844/6480205

Dr. Katrina Doolittle 646-2237/644-2676

APPENDIX D

Construction Site
Storm Water Runoff Control Documents

BMP4-3 SWPPP Inspection Report

Stormwater Construction Site Inspection Report

General Information			
Project Name			
NPDES Tracking No.		**Location**	
Date of Inspection		**Start/End Time**	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Describe present phase of construction			
Type of Inspection **❑ Regular ❑ Pre-storm event ❑ During storm event ❑ Post-storm event**			
Weather Information			
Has it rained since the last inspection? ❑Yes ❑No **If yes, provide:** **Storm Start Date & Time: Storm Duration (hrs): Approximate Rainfall (in):**			
Weather at time of this inspection?			
Do you suspect that discharges may have occurred since the last inspection? ❑Yes ❑No			
Are there any discharges at the time of inspection? ❑Yes ❑No			

Site-specific BMPs

Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of this numbered site map with you during your inspections. This list will help ensure that you are inspecting all required BMPs at your site. Customize this section as needed.

	BMP Description	BMP Installed and Operating Properly?	Corrective Action Needed	Date for corrective action/responsible person
1		❑Yes ❑No		
2		❑Yes ❑No		
3		❑Yes ❑No		
4		❑Yes ❑No		
5		❑Yes ❑No		
6		❑Yes ❑No		
7		❑Yes ❑No		
8		❑Yes ❑No		
9		❑Yes ❑No		
10		❑Yes ❑No		
11		❑Yes ❑No		
12		❑Yes ❑No		

	BMP Description	BMP Installed and Operating Properly?	Corrective Action Needed	Date for corrective action/responsible person
13		❑Yes ❑No		
14		❑Yes ❑No		
15		❑Yes ❑No		
16		❑Yes ❑No		
17		❑Yes ❑No		
18		❑Yes ❑No		
19		❑Yes ❑No		
20		❑Yes ❑No		

Below are some general site issues that should be assessed during inspections. Please customize this list as needed for conditions at your site.

Overall Site Issues

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	❑Yes ❑No	❑Yes ❑No		
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	❑Yes ❑No	❑Yes ❑No		
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	❑Yes ❑No	❑Yes ❑No		
4	Are discharge points and receiving waters free of sediment deposits?	❑Yes ❑No	❑Yes ❑No		
5	Are storm drain inlets properly protected?	❑Yes ❑No	❑Yes ❑No		
6	Is there evidence of sediment being tracked into the street?	❑Yes ❑No	❑Yes ❑No		
7	Is trash/litter from work areas collected and placed in covered dumpsters?	❑Yes ❑No	❑Yes ❑No		

	BMP/activity	Implemented?	Maintained?	Corrective Action	Date for corrective action/responsible person
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	❑Yes ❑No	❑Yes ❑No		
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	❑Yes ❑No	❑Yes ❑No		
10	Are materials that are potential stormwater contaminants stored inside or under cover?	❑Yes ❑No	❑Yes ❑No		
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	❑Yes ❑No	❑Yes ❑No		
12	(Other)	❑Yes ❑No	❑Yes ❑No		
13	(Other)	❑Yes ❑No	❑Yes ❑No		

Certification statement:
"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 gathered and evaluated 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 that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name: _____

Signature: _____

Date: _____

APPENDIX E

Post-Construction Storm Water Management in New Development and Redevelopment Documents

BMP5-1 LEED Policy Statement
BMP5-2 Design Guidelines
BMP5-5 Drainage Channel and Structures Inventory
BMP5-6 GI Conference Registration

NMSU'S LEED RATING FOR BUILDING PROJECTS

Background /History:

- On January 16, 2006, Bill Richardson, Governor of the State of New Mexico, signed Executive Order #2006-001 requiring all Executive Branch state agencies, including the Higher Education Department, adopt the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) Rating System. See http://legis.state.nm.us

- New Mexico State University has committed to neutralizing all of the University's global warming emissions and accelerating research and education that will help stabilize the earth's climate. On April 17, 2007, NMSU President Michael Martin signed the American College & University Presidents Climate Commitment, Joining the leaders of other institutions around the country in the effort.
  See www.presidentsclimatecommitment.org

Policy Statement:

- In addition to complying with the Executive Order, New Mexico State University will design and construct all new building and renovation project to meet the U.S. Green Building Council's (USGBC) guidelines for a minimum of LEED "Silver" certification.

- New projects that are unable to achieve a minimum LEED "Silver" certification and do not involve enough changes to the buildings will still be designed and constructed using the U.S. Green Building Council's guidelines for LEED criteria as a framework for making decisions related to sustainable design. Every new construction project will be commissioned by a third party commissioning agent to ensure that the building is built as designed and operates according to the design parameters.

NMSU LEED Projects:

- NMSU LEED certified project: Alamogordo Health Sciences Center/Reidlinger Building Addition – LEED Gold
- Current NMSU projects that will seek a rating:
  Alamogordo Southern New Mexico Advanced Technology Education Center
  Arts Complex Phase I
  Bookstore
  Carlsbad Allied Health & University Transfer Center
  Chamisa Village Phase 2

Dona Ana Community College East Mesa Center Phase 5
Dona Ana Community College East Mesa Center Phase 6 & 7
Dona Ana Community College Gadsden Center Phase 2
Dona Ana Community College Hatch Center
Football Coaches' Office Building
Gardiner Hall Renovation and Addition
Health & Social Services Building Addition
Institute for Public Policy
Native American Cultural Center

Links to Related Information:

- LEED standards and certification and the United States Green Building Council (USGBC): www.usgbc.org
- Learn more about how NMSU is green: http://sustainability.nmsu.edu/about-us.html
- For further information please visit: http://www.nmsu.edu

5.4 SCHEMATIC DESIGN PHASE

Specific requirements include:

A. SITE PLAN: Show footprint of building; distinguish between new and existing structures, existing and proposed topography, landscaping features, roads, walks, and major new and existing construction. Topography (spot elevations) and utility extensions may be diagrammatic. Scale of 1 inch = 20 feet preferred.

B. TYPICAL FLOOR PLAN(S): May be single line drawings. Label room names to coincide with program. Structural grid shown. State the gross area of each floor and total gross area of the building. Scale of 1/8 inch = 1 foot preferred.

C. PLANS OF SPECIAL FLOORS OR AREAS: Locations and scale required.

D. ROOF PLAN: Show slopes, drains, and special features. Scale 1/8 inch = 1 foot preferred.

E. ELEVATIONS: Not fewer than 2. Sketches are acceptable as long as the character, proportions, and material are evident. Scale of 1/8 inch = 1 foot preferred.

F. DIAGRAMMATIC SECTIONS: Illustrate diagrammatically the structure, mechanical spaces, and any special construction. Scale of 1/8 inch = 1 foot preferred.

G. EQUIPMENT AND FURNISHINGS: Show any special equipment and mechanical systems that influence design.

5.5 DESIGN DEVELOPMENT PHASE

Specific submittal requirements for review include:

A. Site and civil drawings (scale of 1 inch = 20 feet preferred)

1) Vicinity map should show locations of site in relation to surrounding areas and significance of salient features.

2) Location, outline, designation of existing buildings, walks, drives, parking, service, utilities, trees, and plantings; include and indicate any demolition.

3) Location of new walks, drives, parking, and other exterior facilities proposed for the project, including accessibility for the disabled, service area, tree relocation plan, and site lighting.

4) Site and roof drainage, pond areas, and anything in relation to the overall campus drainage system located.

5) Drainage analysis for 100 year storm event.

6) Floor elevations of building, footprint, and contour lines establishing existing and finished grades included.

DRAINAGE CHANNEL & STRUCTURES INVENTORY

Please refer to Exhibit 2 Drainage System Map in the NMSU SWMP.

College Avenue Drainage Channel: runs from Knox Street to El Paseo Road

- 18" PVC drain pipe along south side of College
- 4 drop inlets at Knox /College Intersection
- 2 Drop inlets along south side of College Avenue
- 1 Drop inlet at west terminus (City of Las Cruces structure)
- Retention Pond on south west corner of Knox/College intersection

Stewart Street Drainage Channel: runs from Payne Street to El Paseo Road

Channel is major thoroughfare through campus. Flow contained in street by standard Curb & gutter along both sides. Channel collects drainage laterally from intersecting streets.

College Arroyo: runs from University Avenue to Tortugas Arroyo

- Retention ponds w/ overflow structure at Stewart St.
- 2 – 42" diameter concrete pipe culverts under Stewart Street
- 4 – 2' x 4' concrete box culverts w/ drop inlets on south curb& gutter of Stewart Street
- Swaled channel from Stewart St. to Tortugas Arroyo

Tortugas Arroyo: Channel flow from I-025 to I-010

- 4 – 36" diameter corrugated metal culverts under Wells Street
- 10 – 36" diameter concrete pipe culverts under new extension of Payne Street

Parking Lot 33 Drainage Swales: Located along the west side of Lot 33. Landscaped w/ turf & trees. Pond capacity is 15,000 cubic feet.

Parking Lot 103 Retention Pond: Located along the north side of Lot 103. Side slopes protected with riprap. Pond capacity is 32,500 cubic feet.

Parking Lot 97 Retention Pond: Located west of Lot 97. Pond capacity is 79,500 cubic feet.

Parking Lot 1: Retention Pond: Located northeast of Lot 1. Landscaped with turf. Pond capacity is 50,000 cubic feet.

Regional Pond: Located at southeast corner of Sam Steele and El Paseo. Pond capacity is 400,000 cubic feet.

Green Infrastructure Conference

August 26, 2010 Ramada Palms, Las Cruces, New Mexico

Planners, Engineers, Contractors, Developers,

WHO SHOULD ATTEND?

Architects, Landscape Architects, Researchers,

Government Officials, Elected Officials

SPONSORED BY:

- U.S. Environmental Protection Agency
- Dona Ana County
- City of Las Cruces
- CH2M Hill
- Parametrix
- Daniel B. Stephens & Associates
- Martich Professional Services
- HDR
- New Mexico State University
- Contech
- Sites Southwest
- Building Products Company LLC

When

Thursday August 26, 2010 at 8:00 AM

Registration begins at 7:30 AM

Where

Ramada Palms Inn & Conference Center
201 E University Avenue
Las Cruces, NM 88005
Conference rate available by calling (575)526-4411 and mentioning "Green Infrastructure Conference."

http://www.ramadalascruces.com/
Driving Directions

GREEN INFRASTRUCTURE IN THE SOUTHWEST:CHALLENGES & OPPORTUNITIES

This workshop will **explore** the use of green infrastructure in arid environments and

- **Promote** interdisciplinary professional dialogue to increase awareness about Green Infrastructure (GI) and Low Impact Development (LID);
- **Identify** certain GI-LID approaches proven to perform in arid environments and strategies to increase their implementation; and
- **Challenge** other GI-LID approaches and discuss whether and how these issues might be overcome. Some challenges include climate pattern, soil characteristics, and regulatory environment (e.g., interstate compact, design standards).

Green Infrastructure (GI) and Low-Impact Development (LID) techniques are gaining in popularity because of their ability to reduce runoff, improve storm water quality, preserve or create valuable habitat, contribute to more livable and walkable communities, and achieve points for LEED projects. However, the field is still emerging and there are many challenges ahead, including some unique to the desert southwest.

Our keynote speaker will be Neil Weinstein from the Low impact Development Center, a non-profit organization dedicated to research, development, and training for water resource and natural resource protection issues. In addition, Congressman Harry Teague (D-NM) will address the conference.

Continuing education credits offered for PE, AICP and AIA; credits are pending for LEED and ASLA.

Contact

Tom Schuster
City of Las Cruces
tschuster@las-cruces.org
(575) 528-3069

Tentative Agenda

Register Now!

About Las Cruces
http://www.lascrucescvb.org/

Registration is $75, and registration will close on Friday, August 20th. So if you haven't already registered, please sign up soon.

A NOTE ABOUT REGISTRATION: If you try to register online and can't, it just means that we have temporarily gone off-line to update our agenda. Registration is OPEN, so try again a bit later. If you would like to pay for your registration by CHECK, please contact Carol McCall at 575.528-3209 or cmccall@las-cruces.org for a Registration Form. Thanks!

APPENDIX F

Pollution Prevention/Good Housekeeping for Municipal Operations Documents

APPENDIX G

Public Notice of Annual Report

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New Mexico State University

Public Notice
Storm Water Permit Annual Report

New Mexico State University has prepared a Draft Annual Report of its Storm Water Management Program (SWMP). The report describes New Mexico State University's progress toward achieving the goals of the SWMP from July 1, 2009 to June 30, 2010. The report is due to the Environmental Protection Agency (EPA) by October 1, 2010. The SWMP and annual report are required by NPDES General Permit Number NMR040000 for Discharges from Small Municipal Separate Storm Sewer Systems.

Students, faculty and staff of New Mexico State University are encouraged to review the Draft Annual Report and comment on it. Copies are available for review at the following locations:

-New Mexico State University, Office of Facilities and Service
1530 Wells Street, Las Cruces, NM

-Online at www.ofs.nmsu.edu

Comments may be made in writing to Mr. David Bollschweiler, Office of Facilities and Services, at PO Box 30001, MSC 3545, Las Cruces, NM 88003 or submitted via e-mail to dabollsc@nmsu.edu. Comments are due within 30 days of the date this notice is published.

For additional information, contact the New Mexico State University Office of Facilities and Services at 575-646-2101.

Publication # 45522
Publication Dates: Sept 10, 17, 24, 2010.

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reduced plans with a deposit of **$0.30 per sheet.**

Contractors having established an account with the P. S. & E. Bureau prior to the publishing of the Invitation For Bids may charge the deposits to their accounts. Other contractors may obtain the bidding documents by paying in advance the required deposit to the P. S. & E. Bureau. Such deposits shall only be made by check or money order payable to the NMDOT. Deposits may be credited to the contractor's account or refunded by the Department, as appropriate, provided the contract bidding documents are returned prior to bid opening in usable condition by the contractor who obtained them. Usable condition shall mean that the contract book and plans have been returned to the P. S. & E. Bureau in complete sets, have not been marked, defaced, or disassembled, and no pages have been removed.

As an option, the Department has implemented the Bid Express website (www.bidx.com) as an official depository for electronic bid submittal. Electronic bids submitted through Bid Express do not have to be accompanied by paper bids. In the case of disruption of national communications or loss of services by www.bidx.com the morning of the bid opening, the Department will delay the dead-line for bid submissions to ensure the ability of potential bidders to submit bids. Instructions will be communicated to potential bidders.

For information on Digital ID, and electronic withdrawal of bids, see Bid Express website (www.bidx.com). Electronic bid bonds integrated by Surety

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11.555 for 0.837 miles
COUNTY: Torrance (District 5)
TYPE OF WORK: Roadway Rehabilitation
CONTRACT .TIME: 80 working days
DBE GOAL: At this time NMDOT will meet the State DBE on Federally assisted projects through a combination of race-neutral and race-conscious measures. This project is subject to race-conscious measures. The established DBE goal for this project is 7.50%.
LICENSES: (GA-1 or GA-98)

9:TPA-TPM-TPO-026-1(36)55 CN D2019
TERMINI: NM 18, MP 52.830 to MP 66.520 for 13.686 miles
COUNTY: Lea (District 2)
TYPE OF WORK: Roadway Rehabilitation, Roadway Reconstruction
CONTRACT TIME: 160 working days
DBE GOAL: At this time NMDOT will meet the State DBE on Federally assisted projects through a combination of race-neutral and race-conscious measures. This project is subject to race-conscious measures. The established DBE goal for this project is 0.00%.
LICENSES: (GA-1 or GA-98) and (EE-98)

10:ES31210 CN ES31210
TERMINI: NM 16, MP 0.000 to MP 4.400 for 4.400 miles
COUNTY: Sandoval (District 3)
TYPE OF WORK: Roadway Rehabilitation
CONTRACT TIME: 30 calendar days
DBE GOAL: At this time NMDOT will meet the State DBE on Federally assisted projects through a combination of race-neutral and race-conscious measures. This project is subject to race-conscious measures. The established DBE goal for this project is 0.00%.
LICENSES: (GA-1 or GA-98)

11:ES31200 CN ES31200