

# **ATTACHMENT 1**

## **Public Education and Outreach**

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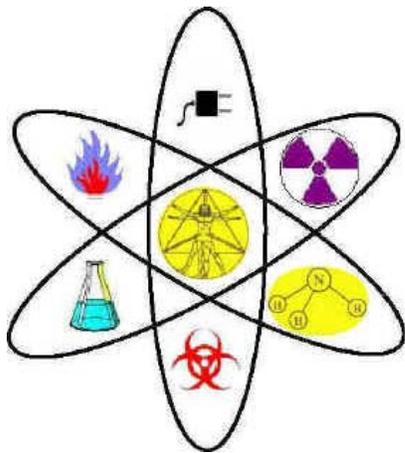
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**Storm Water Management Program.**  
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Facilities and Services: Storm Water Management Program

## Storm Water Management Program

## NEW MEXICO STATE UNIVERSITY

STORM WATER MANAGEMENT PROGRAM

FOR

NPDES GENERAL PERMIT

NO. NMR040000

JULY 2009



NMSU operates a Municipal Separate Storm Sewer System (MS4) that is permitted by the Environmental Protection Agency. The MS4 consists of the streets, drainage ditches, and storm drain pipes that convey storm water runoff through the campus. The permit requires NMSU to implement a program to reduce pollutants in stormwater runoff to the maximum extent practicable. Click [here](#) for an overview of our program - and we all play a role!

**[Why is reducing storm water important at NMSU? \(link to answer\)](#)**

## Storm Water Management Program **Reports**

[NMSU's Storm Water Management Program](#)

MS4 Report to EPA

[2014 SWMP Annual Report](#)

[2013 SWMP Annual Report](#)

[2012 SWMP Annual Report](#)

[2011 SWMP Annual Report](#)

[2010 SWMP Annual Report](#)

[Information about the MS4 Permit](#)

## Be Storm Water Savvy!

One of the most significant, yet unrecognized groups of water contaminants is storm water pollutants. When it rains, storm water flows over yards, streets, roads, highways, parking lots, parks, and playgrounds, carrying with it everything

in its path, including trash and pollutants.

[Why is this important?](#) Unlike sanitary sewers that divert water to a treatment plant directly from NMSU, storm drains lead directly to open water bodies - such as the NMSU retention pond at Sam Steele Way and Union Avenue - without any type of treatment. All the trash and pollutants that were picked up by storm water runoff, ultimately may end up in the Rio Grande via a series of ditches.

New Mexico State University's Storm Water Management Program for the Las Cruces campus includes six minimum control measures to protect water quality, as required by the Environmental Protection Agency. One of the measures, [Illicit Discharge Detection and Elimination](#), differentiates between allowable discharges and illicit discharges into the storm drain system.

*Allowable* non-storm water discharges include such activities as potable waterline flushing; landscape irrigation; discharges from potable water sources; air conditioning condensate; irrigation water; lawn watering; individual residential car washing; de-chlorinated swimming pool discharges; and discharges from emergency firefighting activities.

An unallowable, or **illicit discharge**, is any discharge to the storm drain system that is not composed entirely of rain water or groundwater. Examples include dumping of motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, industrial waste, restaurant wastes, or any other non-storm water waste into a storm water system.

## How Do I Spot an Illicit Discharge?

Watch for stains, unusual odors, out-of-place containers, water flow when no rain has fallen, and abnormal vegetative growth.

If you see an [Illicit Discharge](#): **REPORT IT to NMSU Environmental Health & Safety at 575-646-3327 OR Contact us!**

The program is especially important as the campus goes into the summer season, when thunderstorms can wash trash and other materials into the drainage system. Also, the EPA requires NMSU to keep pollutants out of the system of curbs, gutters, ditches and other structures it uses to channel storm water runoff on the Las Cruces campus.

## Construction

Operators of construction activities on the NMSU main campus, including tenants, are required to comply with the NPDES General Permit for Stormwater Discharges from Construction Activities.

If the entire disturbed area is less than five (5) acres, including utility connections and the staging area, and the project will be of relatively short duration, the construction activity may qualify for a permit waiver.

EPA's [Low Erosivity Waiver Calculator](#) can be used to determine if the waiver is applicable to the project.

All other projects that disturb one (1) acre of more must prepare a Stormwater Pollution Prevention Plan (SWPPP) and file a Notice of Intent (NOI) to authorize the discharge of stormwater.

Helpful Links:

[Guidance on preparing a SWPPP](#)

NMSU's SWPPP review checklist

[How to file an electronic NOI](#)

[Obtain information on the permit](#)

## Household Hazardous Waste (HHW)

Residents of Family Housing can take HHW to the Amador Avenue Recycling Center at 2865 W. Amador Avenue. The Center is open 7 am to 5 pm on Monday through Friday and 8 am to 4 pm on Saturday and Sunday.

The Center accepts:

Paints and Paint thinners	Pesticides
Oil and Gasoline	Pool Chemicals
Kerosene	Developing
Aerosols	Chemicals
Fertilizers	Cleaning Chemicals
Batteries	Acids
	Mercury



Materials NOT Accepted:

No Asbestos	No Radioactive Waste	No Ammunition
No Biomedical Waste	No Explosives	No Electronic Waste
No Fire Extinguishers	No Cylinders	

For more information on HHW disposal, contact (575) 528-3800, or go to [www.thescrappypages.com/recycling.php](http://www.thescrappypages.com/recycling.php)



## Contact Information

### Environmental Health & Safety:

MSC-3578, P.O.Box 30001, Academic Research Bldg C, Rm 109

Street delivery address: NMSU, 1620 Standley Dr., Academic Research Bld. C, Las Cruces, NM 88003

Training Office: Academic Research Unit C, rm110 (see [map](#)).

Telephone: 575-646-3327; FAX: 575-646-7898. Website - <http://safety.nmsu.edu>

Send email to David Shearer, EH&S ([click here](#)) with questions or comments about this web site.

This page was last updated on 04/24/2015

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# Why Is Reducing Stormwater Pollution Important at NMSU?

## *Reducing Stormwater Pollution is the Right Thing to Do*

Stormwater pollution is a form of man-made pollution that impacts the environment on and off campus. Pollutants we create on campus are ultimately carried off campus by stormwater runoff and affect the desert that we call home. Polluted stormwater creates numerous costs to the public and to wildlife. As the saying goes, “we all live downstream.”

Stormwater pollution degrades the water quality of our arroyos and the Rio Grande and may harm fish that are present when the river is flowing, as well as animals that drink ponded stormwater. Common

pollutants in stormwater include heavy metals, toxics, oil and grease, solvents, nutrients, viruses, and bacteria. Dirt from erosion, also called sediment, covers the habitat of organisms living on the bottom of the arroyo and river. Fertilizers in stormwater can cause too much algae to grow, which hurts wildlife by using up the oxygen in water that they need to survive. Soaps hurt fish gills and fish skin, and other chemicals damage plants and animals when soap enter the water. All these materials can threaten aquatic life, wildlife, and human health.

## *NMSU is Required to Reduce Stormwater Pollution*

NMSU holds a Municipal Separate Storm Sewer System (MS4) permit under the NPDES Tracking Number NMR04L002. The

## *New Mexico Regulations*



Stormwater regulations for the State of New Mexico are administered by the United States Environmental Protection Agency (USEPA), which is authorized by the federal Clean Water Act (CWA) to regulate discharges to surface waters in the United States.

Under the CWA, the National Pollutant Discharge Elimination System (NPDES) Stormwater Permitting Program was authorized to control water pollution by regulating point sources that discharge pollutants to waters of the U.S.

permit was authorized by the USEPA. Under this permit, NMSU is required to do the following:

- ❖ Reduce the discharge of pollutants to the “maximum extent practicable”
- ❖ Protect water quality
- ❖ Satisfy the Water Quality Standards developed for the arroyos that flow through NMSU and for the Rio Grande

*An MS4 is a system of conveyances, including roads with drainage systems, streets, curbs, gutters, ditches, channels, and storm drains, that collects or conveys stormwater to waters of the United States.*

As part of the permit, NMSU has established a stormwater management program that contains six measures to reduce pollutants:

- 1) Public education and outreach on stormwater impacts
- 2) Public participation/involvement
- 3) Illicit discharge detection and elimination
- 4) Construction site stormwater runoff control
- 5) Post-construction stormwater management in new development and redevelopment
- 6) Pollution prevention / good housekeeping for municipal operations

Every year, NMSU must report to the USEPA the activities NMSU has completed for each of these measures.

### *What is NMSU Doing to Reduce Stormwater Pollution?*

- ❖ Distributing information about stormwater
- ❖ Inspecting stormwater outfalls for illicit discharges
- ❖ Asking all faculty, staff, and students to look for illegal dumping and illicit discharges
- ❖ Inspecting and removing trash and debris from the campus grounds once a week
- ❖ Reviewing stormwater pollution prevention plans for NMSU’s construction projects that disturb 1 acre or more or that are part of a common plan
- ❖ Utilizing Leadership in Energy and Environmental Design (LEED) standards for new facility construction
- ❖ Reviewing new development plans for compliance with drainage criteria
- ❖ Implementing pollution prevention measures at NMSU
- ❖ Conducting street sweeping of each major thoroughfare monthly
- ❖ Studying ways to control animal feed and waste runoff from agricultural pens

### *Additional information on NMSU’s Stormwater Management Program*

Website: <http://safety.nmsu.edu/programs/environmental/SWMP.htm>

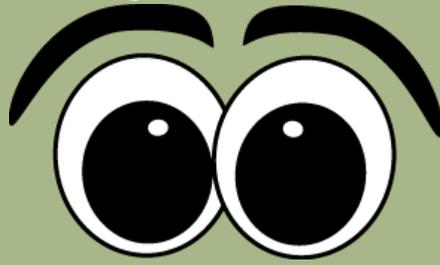
Jack Kirby

Environmental Health and Safety Department

1620 Standley Drive, Academic Research Building C

(575) 646-3327

# Be the Eyes for NMSU



## Be On the Lookout for Illegal Dumping and Illicit Discharges

### What Does Illegal Dumping Look Like?

- Tires in arroyos
- Rubble and debris
- Trash
- Furniture



If you think it belongs in a trash can or the landfill, then it probably does. Report what you see to 575-646-3327.

## What is an Illicit Discharge?

If it is not raining and you see anything other than water going into an arroyo or storm drain, you are probably seeing an illicit discharge.



Just remember,  are the solution to Stormwater Pollution.  
Please report any dumping and illicit discharges you see to [575-646-3327](tel:575-646-3327).

From: [campus-news-bounces@nmsu.edu](mailto:campus-news-bounces@nmsu.edu) on behalf of [NMSU Hotline](#)  
To: [campus-news@nmsu.edu](mailto:campus-news@nmsu.edu)  
Subject: [Campus-news] NMSU Hotline -- May 21, 2015  
Date: Thursday, May 21, 2015 9:25:45 AM

## New Mexico State University Hotline



May 21, 2015

### KRWG director of broadcasting chosen to serve on national board

Glen T. Cerny, director of broadcasting for KRWG, has been chosen as secretary of the National Educational Telecommunications Association executive board of directors. NETA, based in Columbia, South Carolina, is a professional association serving public television licenses and educational institutions with educational content, resources, professional development and management support. It functions in all 50 states, including the District of Columbia, the Virgin Islands and Puerto Rico.

Glen Cerny.jpg



[Read More](#)

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## Campus Announcements

[Submit Hotline Announcement](#)

### Reducing stormwater pollution at NMSU

New Mexico State University operates a Municipal Separate Storm Sewer System (MS4) that is permitted by the Environmental Protection Agency. The MS4 consists of the streets, drainage ditches and storm drain pipes that convey stormwater runoff through the campus. The permit requires NMSU to implement a program to reduce pollutants in stormwater runoff to the maximum extent practicable. As citizens of NMSU, we all play a part in protecting our natural environment...for detailed information, please see <http://safety.nmsu.edu/programs/environmental/SWMP-WhyReduceSW-Pollution.pdf>

If you see evidence of stormwater pollution, contact the NMSU Storm Water Management Program at 575-646-3327 or online at <http://www.nmsu.edu/safety/suggestions.htm>

For more information, visit the NMSU Storm Water Management Plan home page at <http://safety.nmsu.edu/programs/environmental/SWMP.htm>

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### DACC to hold Architecture Discovery Camp

The Pre-Architecture program at DACC will offer the Architecture Discovery Camp from July 6-17 at the East Mesa Campus. This two-week program is designed for middle and high school students interested in architecture and related fields. Student eligibility includes those having completed sixth grade through recent high school graduates.

Instruction is a joint effort provided by DACC professors, Texas Tech University professors, local architects, and local government and business leaders. Through lectures and hands-on exercises, students will learn about architecture past and present, and gain skills in

architectural drawing, computer and manual drafting, model crafting, 3-D modeling, design principles, structural principles, sustainable design and presentation techniques.

Highlights of the program include two field trips. The second week primarily consists of applying their lessons to a design competition involving "Film Studio/Backlot Design," which will culminate with formal presentations, judging and prizes. This year's design theme is "The American Western Front."

Cost of the event is \$175 and includes overnight trip costs. Interested parents should register their child soon as this camp fills quickly. Complete program information, parental consent forms and registration link may be found at [dacc.nmsu.edu/adc](http://dacc.nmsu.edu/adc).

To view video of a previous year's camp, visit <https://www.youtube.com/watch?v=4JNJEnRsv88>.

For more information, contact the DACC Architecture program at 575-528-7310, 575-527-7747 or [lurios@nmsu.edu](mailto:lurios@nmsu.edu).

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### Rumer Willis in film shot in Las Cruces, 'The Odd Way Home'

With the victory in "Dancing with the Stars," Rumer Willis is all over the media and has become a household name. She stunned on the dance floor but she also stuns in the role she played in "The Odd Way Home," a film made by NMSU faculty Rajeev Nirmalakhandan and graduates of NMSU's Creative Media Institute. The film is available on Hulu, iTunes, Amazon and Netflix DVD.

The trailer is available at [https://www.youtube.com/watch?v=Enevh9aF\\_oM](https://www.youtube.com/watch?v=Enevh9aF_oM). Huffington Post article: [http://www.huffingtonpost.com/pamela-glasner/rumer-willis-autism-and-t\\_b\\_7242596.html](http://www.huffingtonpost.com/pamela-glasner/rumer-willis-autism-and-t_b_7242596.html)

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### New Mexico Agricultural Leadership program recruiting new group

Over the last 14 years the NM Ag Leadership (NMAL) program has served New Mexico by identifying and providing leadership development opportunities to more than 90 men and women in the food, agriculture and natural resource industries so they could become stronger and more effective in their industries and communities.

Be one of New Mexico's strongest leaders by joining NMAL. They are presently recruiting participants for the 11th class scheduled to begin in November 2015. Download the application packet at <http://aces.nmsu.edu/nmal/application.html> and submit it via email or regular mail by Aug. 20.

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### DACC Customized Training class offered

Manage Work Priorities will be held from 1 to 4 p.m. Tuesday, June 2. Gain an overview of the performance outcomes, skills, and knowledge required to manage personal work priorities. Learn how to develop habits and a way of thinking that will maximize output. Discover planning tools, time management, and what makes up a smart goal through real-world situations.

For questions or more information, contact 575-527 7776 or [ctp@nmsu.edu](mailto:ctp@nmsu.edu).

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## NMSU's Phi Kappa Phi honor society moves to Conroy Honors Center

The New Mexico State University chapter of the scholarly honor society Phi Kappa Phi has a new academic home in the William Conroy Honors College.

Previously overseen by the division of Student Affairs, Phi Kappa Phi recognizes academic excellence across all disciplines and is a natural fit for the Honors College, said Dean Miriam Chaiken.

"We are so pleased to support Phi Kappa Phi, which shares our goals of providing opportunities for excellence for the best and brightest students at NMSU," Chaiken said. "We look forward to working with the membership of PKP in the coming years on service projects that will benefit the group, the Honors College and our local community."

<http://newscenter.nmsu.edu/Articles/view/11157/nmsu-s-phi-kappa-phi-honor-society-moves-to-conroy-honors-center>

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## NMSU listed among top animal science graduate programs in U.S.

New Mexico State University's Department of Animal and Range Sciences' graduate program has been ranked sixth nationally on the Graduate Program's spring 2015 list for animal science programs.

"Faculty in the Department of Animal and Range Sciences are very pleased that our program has been ranked sixth among all the animal science graduate programs in the United States," said Dennis Hallford, Regents Professor and interim department head.

Graduate Programs is a website geared to prospective graduate students that includes content such as reviews and rankings that is primarily based on feedback from graduate students.

"Our graduate faculty members are dedicated to providing the best possible training for our students in an environment that encourages excellence in teaching and research as well as cooperation and collegiality. We are proud of our graduate students, and they are integral and indispensable to the success of our departmental mission," Hallford said.

<http://newscenter.nmsu.edu/Articles/view/11158/nmsu-listed-among-top-animal-science-graduate-programs-in-u-s>

TO SUBMIT INFORMATION for possible inclusion in NMSU Hotline, email University Communications at [hotline@nmsu.edu](mailto:hotline@nmsu.edu) with a short title of your news on the subject line, details in the body of the message and a contact name and phone number. If you want the item to appear on a certain day, please specify which day and submit the item at least two days in advance. Earlier submissions are encouraged.

TO SUBSCRIBE OR UNSUBSCRIBE to NMSU Hotline, go to <https://mailman.nmsu.edu/mailman/listinfo/campus-news> and follow the prompts.

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From: [campus-news-bounces@nmsu.edu](mailto:campus-news-bounces@nmsu.edu) on behalf of [NMSU Hotline](#)  
To: [campus-news@nmsu.edu](mailto:campus-news@nmsu.edu)  
Subject: [Campus-news] NMSU Hotline -- June 5, 2015  
Date: Friday, June 05, 2015 9:10:50 AM

## New Mexico State University Hotline



June 5, 2015

### NMSU's Chile Pepper Institute set to ignite with Holy Jolokia spice rub

As the weather warms up and grills begin to fire up, New Mexico State University's Chile Pepper Institute wants to make sure backyard chefs are equipped to bring the heat. That's why they are partnering with CaJohns Fiery Foods to unveil the newest in the Holy Jolokia collection, a spice rub specially designed for barbecue.

[Read More](#)



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## Campus Announcements

[Submit Hotline Announcement](#)

### Time to renew parking placards

NMSU departmental business that includes loading and/or unloading, as well as departmental visitors to campus, can request a special placard for \$40 that will allow parking in specified areas. Current placards expire Tuesday, June 30. Departmental Placards do not automatically renew. The request form must be printed and signed by hand in order to be valid. Submission details are provided on the form.

Visit <http://park.nmsu.edu/placard/> for details and to download the request form or contact 575-646-1839 or [placard@nmsu.edu](mailto:placard@nmsu.edu) for additional information.

The PDF request form is best viewed with Internet Explorer or by selecting "Open With Different Viewer" at the upper right-hand corner of Firefox. Chrome users may need to log on to <chrome://plugins>, disable Chrome PDF Viewer, and select "Always allowed" on Adobe Reader.

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### Faculty and staff nominated to Quality Matters Hall of Excellence

Miley Grandjean of NMSU-Las Cruces and Kathy Roark-Diehl, John Adams and Sherrell Wheeler of NMSU-Alamogordo have been nominated to the Quality Matters Hall of Excellence for Quality Matters Course Reviewers. "Quality Matters expects all reviewers to be professional and knowledgeable about the QM standards, the review process and be effective communicators," as well as support the course representative with helpful feedback and effective recommendations. The nomination recognizes their ability to go "above and beyond" in assisting course developers in meeting the expectations of a Quality Matters review. The nominees will be recognized at the Quality Matters National Conference in November, and

their names will be added to the Hall of Excellence at Quality Matters.

For more information, contact NMSU QM Coordinator Sharon Lalla at [slalla@nmsu.edu](mailto:slalla@nmsu.edu) or visit <http://qualitymatters.org>.

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### DACC Community Education courses available

In the DACC Community Education course, CSI – Crime Scene Investigation, have fun learning about forensics, crime scene investigations and crime lab chemistry as you dust for fingerprints, analyze handwriting, examine hair and clothing and other experiments designed to show you just how tricky cases are solved. Search for evidence, gather clues and discover how science can help solve a mystery. The class is for kids ages 8–12. The class will be held from 9 a.m. to noon Monday–Friday, June 22–26. The cost is \$146.

For more information or to sign up, email [commed@dacc.nmsu.edu](mailto:commed@dacc.nmsu.edu) or call 575–527–7527.

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### NMSU Storm Water Management Program prepares for monsoon season

Each year, according to the National Weather Service Forecast Office, monsoon season affects the Southwest between June 15 and Sept. 30. With record levels of rainfall throughout Texas, New Mexicans are keeping an eye on the Doppler radar.

New Mexico State University has its own Storm Water Management Program, mandated by law and monitored by the Environmental Protection Agency. Jack Kirby, the assistant director of NMSU's Environmental Health and Safety Office, runs the program.

“Public entities above a certain population are required to have a water management program. The city has a storm water management program, NMSU has a program, Dona Ana County has a program,” Kirby said. “It's EPA's approach to containing nonpoint source pollution.”

Parking lots are a host for nonpoint source pollution. When it rains, storm water acts as a universal sweeping mechanism across the drainage area, bringing with it many of the chemicals and debris that may be in the parking lot.

<http://newscenter.nmsu.edu/Articles/view/11184/nmsu-storm-water-management-program-prepares-for-monsoon-season>

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### NMSU receives Daniels Fund Boundless Opportunity Scholarship grant to assist non-traditional students

New Mexico State University has received a \$40,000 grant from the Daniels Fund to provide Boundless Opportunity Scholarships to non-traditional students.

“The purpose of the grant is to provide need-based scholarships to adult learners,” said Anthony Marin, director of student affairs. “The Boundless Opportunity Scholarships will provide additional support for students who have had a gap in their education – either a gap in secondary and post-secondary education resulting in not entering a four-year college until they are at least 24 years old or had a gap in their college education for reasons of health, family, financial or other non-academic barriers.”

The grant will fund scholarships for 20 students for two years and helps to cover expenses

such as tuition, fees, room and board, books and supplies and transportation and commuting expenses. The scholarship recipients will be selected in late July and the funds will be awarded for the fall 2015 semester. Students can apply for the scholarships through the NMSU Scholar Dollar\$ program at <https://scholarships.nmsu.edu/>, which will be opened from June 15–July 15.

<http://newscenter.nmsu.edu/Articles/view/11185/nmsu-receives-daniels-fund-boundless-opportunity-scholarship-grant-to-assist-non-traditional-students>

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### NMSU, DACC professors host first NewMexicoDLA online conference

New Mexico's first chapter of the United States Distance Learning Association recently hosted its first online-only conference with the help of professors from New Mexico State University and Doña Ana Community College.

Julia Lynn Parra, an assistant professor in the Curriculum and Instruction Department in the College of Education at NMSU, and Krista Kozel MacDonald, an assistant professor of communication and the online education coordinator at DACC, recently organized the New Mexico Distance Learning Association's first conference as a way to introduce the new group to the community.

The first NewMexicoDLA conference was a one-day free online conference, themed "What's New in New Mexico in Higher Education with Distance, Online and Blended Learning." It attracted nearly 40 participants statewide, more than what organizers expected.

"We didn't do any PR (public relations), and we promoted it three days before it was happening," Parra said. "We really wanted to reach out just to our members. It was more like a practice. We hope to definitely promote it next year."

<http://newscenter.nmsu.edu/Articles/view/11186/nmsu-dacc-professors-host-first-newmexicodla-online-conference>

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The below message was sent on June 18 to 400 Student Family Housing residents, and to 130 residents of other Housing and Residential Life facilities:

### **Reducing stormwater pollution at NMSU**

New Mexico State University operates a Municipal Separate Storm Sewer System (MS4) that is permitted by the Environmental Protection Agency. The MS4 consists of the streets, drainage ditches and storm drain pipes that convey stormwater runoff through the campus. The permit requires NMSU to implement a program to reduce pollutants in stormwater runoff to the maximum extent practicable. As citizens of NMSU, we all play a part in protecting our natural environment. For detailed information, please see <http://safety.nmsu.edu/programs/environmental/SWMP-WhyReduceSW-Pollution.pdf>

If you see evidence of stormwater pollution, contact the NMSU Storm Water Management Program at 575-646-3327 or online at <http://www.nmsu.edu/safety/suggestions.htm>

For more information, visit the NMSU Storm Water Management Plan home page at <http://safety.nmsu.edu/programs/environmental/SWMP.htm>

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Our Facilities and Services (FS) grounds crews clean up the campus grounds, and that includes after any sort of non-typical smaller events (staff picnic, student orientation/gatherings, etc.). Conversely, NMSU “Special Events” and “Athletics” departments both report up through the same administrative unit, and it is different than Facilities and Services. Those departments have had their own facilities maintenance staff and clean up after football, baseball, soccer, games, as well as indoor events (i.e., concerts in Pan Am). The FS crews cleaned up the Aggie Memorial stadium following last season’s home football games (listed below). The cleanups were completed within two days.

<b>DATE</b>	<b>OPPONENT</b>	<b>LOCATION</b>	<b>TIME (MST)</b>
Thu, Aug 28	Cal Poly - Ag Day	Las Cruces, N.M.	6:00 PM
Sat, Sep 20	New Mexico - Rivalry Game/Football Reunion	Las Cruces, N.M.	6:00 PM
Sat, Oct 04	Georgia Southern - TETWP	Las Cruces, N.M.	6:00 PM
Sat, Nov 01	Texas State - Military Appreciation	Las Cruces, N.M.	2:00 PM
Sat, Nov 08	Louisiana - Homecoming	Las Cruces, N.M.	6:00 PM
Sat, Nov 22	UL-Monroe	Las Cruces, N.M.	2:00 PM

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Friday, July 4, 2014

Las Cruces Bulletin

News | A23

# NMSU Storm Water Management Program keeps watershed safe

## Landscape features help control storm runoff

By Emily Kelley  
For the Las Cruces Bulletin

The National Weather Service Forecast Office said the North American Monsoon System affects New Mexico and other areas across the Southwest every summer between June 15 and Sept. 30. During that time, large amounts of rain can fall astonishingly quickly, but where does it all go? How is it managed?

Jack Kirby, assistant director of New Mexico State University's Environmental Health and Safety office, runs NMSU's Storm Water Management Program (SWMP), which is mandated by law and monitored by the Environmental Protection Agency (EPA).

"Public entities above a certain population are required to have a water management program," Kirby said. "The city has a storm water management program, NMSU has a program (and) Doña Ana County has a program. It's EPA's approach to containing nonpoint source pollution."

Nonpoint source pollution comes from a large area, like a parking lot. There is not a single source of the pollution - it's an aggregate of many small forms of pollution, such as chemicals or debris, found in the lot. When it rains, storm water acts as a universal sweeping mechanism across the drainage area, bringing with it the contaminants that may be in the lot.

NMSU's initial SWMP report to the EPA in 2009 contained 36 "best management practices," which are areas the university improves upon each year. There are six components to the program: public outreach and education, public involvement and participation, illicit discharge detection and elimination, construction site storm water runoff control, post-construction storm water management and pollution prevention.

### Management

Much of the landscape design on campus was created to manage storm runoff. From swales to cuts in curbs, it all serves a purpose.

"Mostly what you see - some are subtle, and some aren't - are sloped swales," Kirby said. "They route the storm water runoff, maybe around the building into another area to run it down the hill. These swales are there to slow that velocity to help the water sink into the ground."

"Or, it could be a desert landscaping area that has a small curb cut that allows water to soak into a desert feature and temporarily pond, then soak into the ground."

An effective storm water management program strives to mimic pre-development conditions of the developed area. For instance, if the NMSU campus did not exist, the land it sits on is a sloping desert area, and while there would be runoff, there would also be a lot of infiltration. Buildings, roads, sidewalks, parking lots and construction sites all interrupt natural runoff and infiltration, but proper management can mimic the natural process.

"We're trying to maintain that infiltration and at least not make the situation worse as far as infiltration and runoff," Kirby said.

Many structures on campus use gutters and pipes to direct runoff into landscape features for infiltration, while some divert water to gullies and ponding areas, where it will eventually

be absorbed, or managed via the storm sewer system.

The primary contributor to storm water runoff from a volume standpoint around a building is a roof.

"Managing that is where smart design comes in," Kirby said. "If a building has eight or 10 downspouts, they can flow a large volume of water. You can shoot it out into the street, and now you have a river running down the street, or you can design your landscaping to contain it."

NMSU's newest building, the Center for the Arts, was designed to contain a 100-year, 24-hour storm event, which is a significant amount of rainfall, in its footprint.

"The way the Center for the Arts contains a storm of that size is the roof drains are routed to an underground cistern system, which I believe is about a 50,000-gallon volume," Kirby said. "There is porous pavement in one portion of the building site, and there is a small detention pond area."

All of these features control that water, allow it to slowly infiltrate back into the ground and become groundwater, without creating runoff."

Kirby acknowledges that there could be a larger storm, which would result in runoff, but design must strike a balance between the desert climate and what is a reasonable amount of water to contain.

The Sam Steel Regional Pond, on the corner of Sam Steel Way and Union Avenue, is at a

“When I talk to groups on campus, I ask them to be our eyes and ears.”

JACK KIRBY,  
assistant director, NMSU  
Environmental Health  
and Safety office

topographical low point on campus. Most of the water that runs off the main part of the campus works its way to that pond, while there are other places where water can work its way into the City of Las Cruces storm sewer system.

"A portion of our water goes to the city system, but probably about 70 percent goes to that pond," Kirby said. "From Sam Steel Pond, there's an outlet that takes that water to a drain, which ultimately goes to the Rio Grande. The onus is on NMSU to deliver high-quality water. Water that flows onto our campus, we'll check that, too, to make sure there's no contamination, taking occasional samples in times of runoff. And, I would hope and I do know that folks down the stream from us do the same. That's how permit holders ensure that they're not making the situation worse, nor are they receiving contamination from their upstream neighbors."

### See something, say something

"When I talk to groups on campus, I ask them to be our eyes and ears," Kirby said. "If something doesn't look right - whether it's the quality of the storm water, some contamination question you may have or a volume concern you may have - call us and then we can address the issue."

Individual habits of those residing, studying and working on campus are important, too.

"If you throw a Styrofoam cup on the ground, it's either going to blow away or drift down into our storm water system. It could clog an inlet to a storm drain, which could then contribute to flooding a building," Kirby said. "Your personal habits - we have residences on this campus. Changing their oil, pet waste, fertilizing your lawn - all of these can contribute to runoff. Good housekeeping practices can help. The easiest and most important is to contact Facilities and Services to report it. Common sense goes a long way."

To learn more about NMSU's Storm Water Management Program, or to report a storm water-related concern, visit <http://safety.nmsu.edu/programs/environmental/SWMP.htm>. To report a violation or concern by phone, call 646-3327.

Emily Kelley can be reached at [ekelley@nmsu.edu](mailto:ekelley@nmsu.edu).



New Mexico State University photo

Much of the landscape design on the NMSU campus was created to manage storm runoff. From swales to cuts in curbs, it all serves a purpose - moving storm water away from buildings and to areas where it can absorb into the ground.

## Cell phone ordinance enforcement continues

### Statewide ban in effect Tuesday, July 1

New Mexico became the 42nd state to ban texting while driving on Tuesday, July 1, but Las Cruces' standing municipal ordinance is more comprehensive and will continue to be enforced locally.

Las Cruces' ordinance went into effect Feb. 5, 2010, and prohibits nearly all cell phone use while driving within city limits. The ban includes engaging in a phone call or creating, sending and reading text messages or e-mail while operating a motor vehicle.

Dialing, texting or otherwise manipulating an electronic device while driving is prohibited within Las Cruces city limits.

Engaging in a conversation on a cell phone is permitted within city limits only if the driver is utilizing a hands-free device and its use does not interfere with

the safe operation of the vehicle.

The new state law bans texting and prohibits looking at written content on a cell phone while driving, even if the driver is stopped at a red light. The state law does allow talking on a cell phone, and the use of global positioning systems or similar navigation systems while driving.

The Las Cruces Police Department will continue to enforce the municipal ordinance that carries a fine of \$92. The new state law will carry fines of \$25 for the first offense and \$50 for a second and subsequent offenses.

The penalty assessments for the city ordinance and new state law do not include incidents where the violation has caused or contributed to the cause of an accident, injury or death.

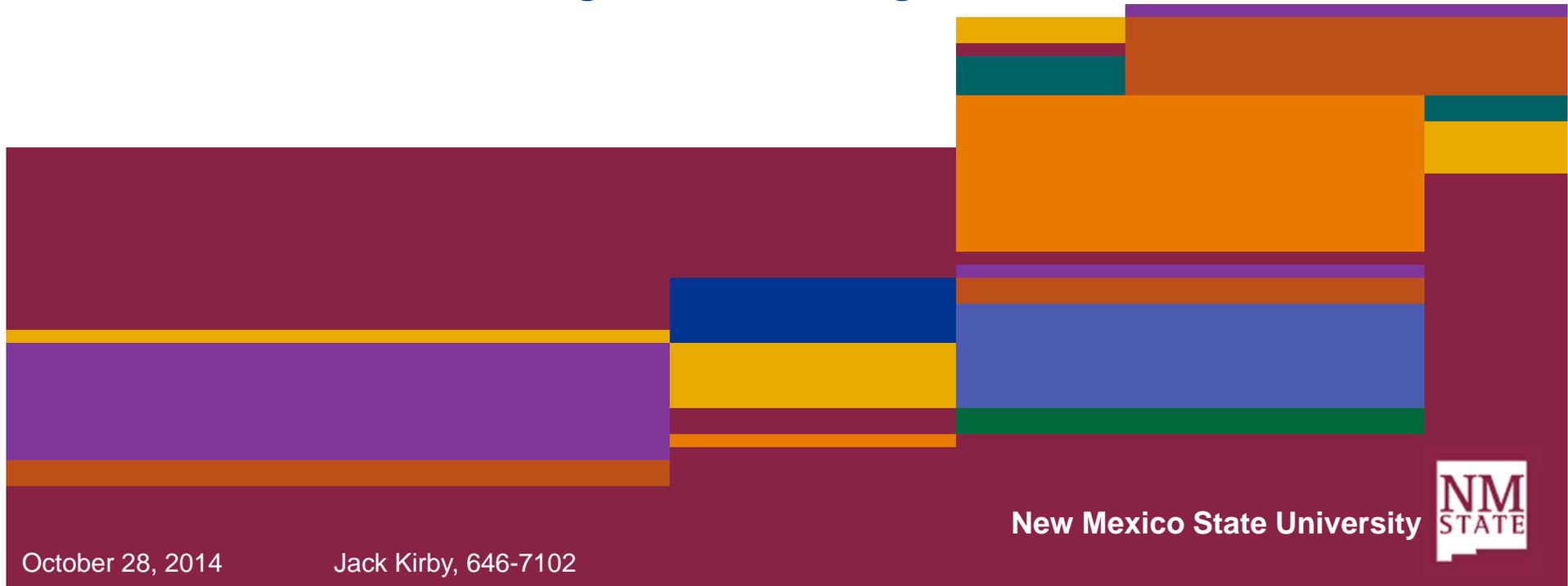
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*Presentation to the:*

# NMSU Environmental Science Student Organization (E.S.S.O.)



NMSU Environmental Health & Safety  
**Storm Water Management Program**



# NMSU Environmental Health & Safety (EH&S) Programs

## Risk Management & Loss Control Programs

Vehicle, Cart, & Pedestrian Safety

Chemical Safety

Biological Safety

Agricultural Safety

Fire Safety

Industrial Safety

Office Safety

Campus Safety News

## Shop Safety Programs

Environmental Protection

Indoor Air Quality & Mold

Lab Safety

Radiation Safety

Hazardous Waste

Emergency Action

Laser Safety

Campus Bicycle Safety

- Student employee/internships
- Staff with degrees in Environmental Science, Environmental Engineering, Biology, Microbiology, Geology, Radiation Ecology, Health Physics, Chemistry, etc.

# What's a SWMP?

## Storm Water Management Program

*You are part of it at NMSU!*



Like everyone else – we too have a web page...check it out!  
<http://safety.nmsu.edu/programs/environmental/SWMP.htm>



*Why?*

1. NMSU is committed to preserving the environment
2. EPA-required (it's a law!)
3. It actually does rain around here...really!  
And when it does, the water picks up anything in its flow, and ultimately reaches the Rio Grande.

New Mexico State University

You are here: » NMSU » Faculty and Staff » Office of Facilities and Services » Storm Water Mgt. Pgm.

Facilities and Services: Storm Water Management Program

### Storm Water Management Program

NMSU operates a Municipal Separate Storm Sewer System (MS4) that is permitted by the Environmental Protection Agency. The MS4 consists of the streets, drainage ditches, and storm drain pipes that convey stormwater runoff through the campus. The permit requires NMSU to implement a program to reduce pollutants in stormwater runoff to the maximum extent practicable. You can help!

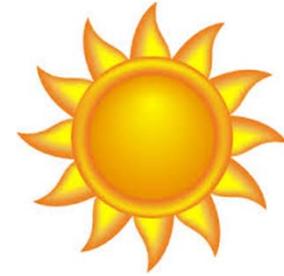
- **NMSU's Storm Water Management Program**
- MS4 Report to EPA
  - 2012 SWMP Annual Report
  - 2011 SWMP Annual Report
  - 2010 SWMP Annual Report
- **Information about the MS4 Permit**

#### Be Storm Water Savvy!

One of the most significant, yet unrecognized groups of water contaminants is storm water pollutants. When it rains, storm water flows over yards, streets, roads, highways, parking lots, parks, and playgrounds, carrying with it everything in its path, including trash and pollutants. Unlike sanitary sewers that divert water to a treatment plant directly from NMSU, storm drains lead directly to river water bodies – such as the NMSU

Hint (the easy way)...search the NMSU Home Page for "SWMP"

# What about this law...?



1. Wet or dry – same regulations
2. Quality and quantity components
3. Outreach/education emphasis

City	Annual Precipitation	
	Inches	Millimetres
Las Vegas, Nevada	4.2	106
Phoenix, Arizona	8.2	208
Riverside, California	10.3	262
San Diego, California	10.3	263
Los Angeles, California	12.8	326

City	Annual Precipitation	
	Inches	Millimetres
New Orleans, Louisiana	62.7	1592
Miami, Florida	61.9	1572
Birmingham, Alabama	53.7	1364
Memphis, Tennessee	53.7	1363
Jacksonville, Florida	52.4	1331



Alamogordo, NM  
June, 2006

Las Cruces, NM 8.45 in.



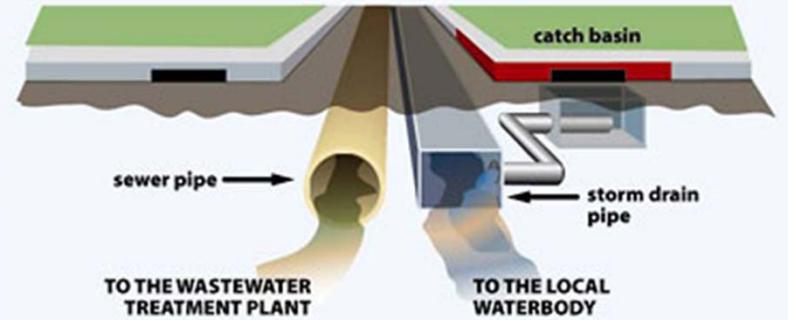
Ruidoso, NM  
July, 2008



It's everywhere!



## Storm Drain Systems are Separate from Wastewater Systems



New Mexico State University



# How are NMSU Students and Employees Involved?

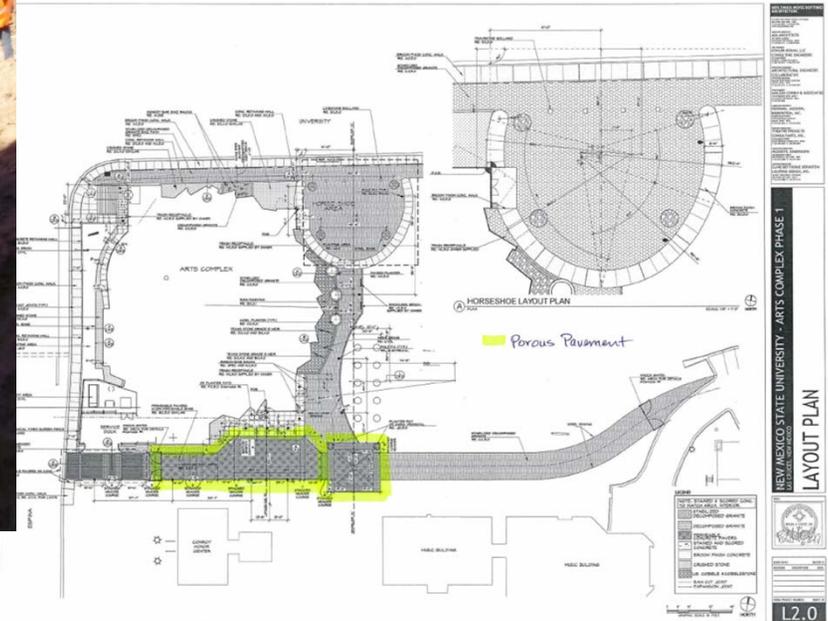
## Heavy Hitters:

- Facilities and Services staff...typically the Construction, Grounds, and Mechanics groups
  - Training of staff for effective SW management
  - Inspecting construction job sites
  - Inspecting Trade Shops
  - Tracking of improvements made (# of recycle and trash bins, removed material, incident responses, etc.)
- Student Housing and Residential Life
  - Communications to residents (household hazardous waste, fertilizing, oil changing, animal wastes, etc.)
- We are all the eyes of the SWMP!



# Another Way NMSU is Involved...Design and Construction

NMSU Center for the Arts; 50K gallons storm water capacity...designed so no runoff leaves the facility!



## Environmental Health & Safety - Overall MS4 Management and Coordination

- Regulatory Reporting and Compliance
- Public Outreach and Education
- Public Involvement Participation
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post-Construction Storm Water Management
- Pollution Prevention/Good Housekeeping
- Staff Training

## Facilities and Services AVP

- NMSU Signature authority

## Office of Sustainability

- Coordination of public outreach
- Student/campus organizations

## Housing and Residential Life

- Distribute and track email/flyer information to residents

## Project Development and Engineering

- Design Standards (mods relative to storm water)
- Plan Review
- Low Impact Development (LID)
- Drainage studies
- Drainage improvements implementation
- **CGP (Construction General Permit) Compliance**
- LEED certification tracking

## Facilities & Services Operations Directorate

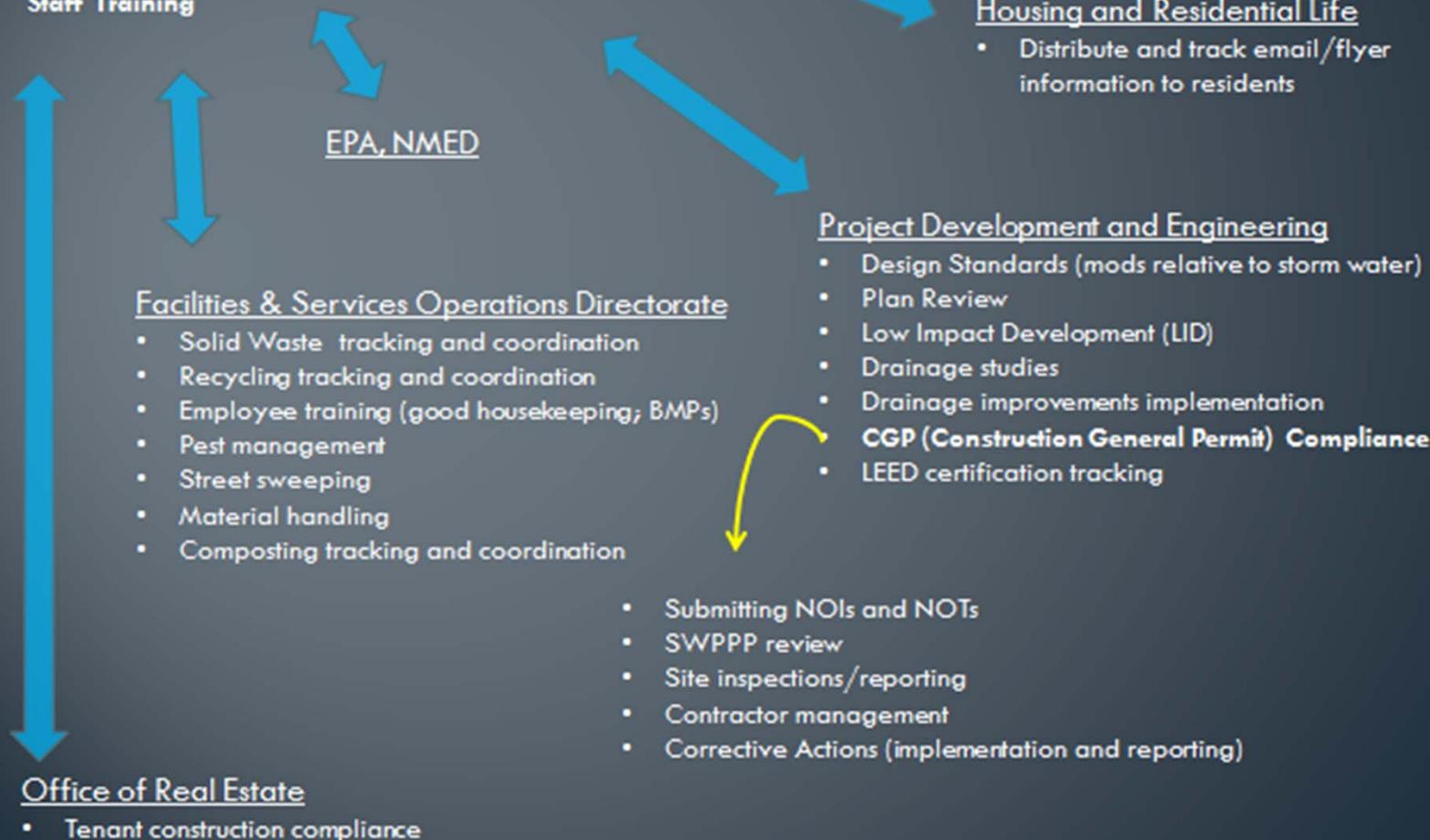
- Solid Waste tracking and coordination
- Recycling tracking and coordination
- Employee training (good housekeeping; BMPs)
- Pest management
- Street sweeping
- Material handling
- Composting tracking and coordination

- Submitting NOIs and NOTs
- SWPPP review
- Site inspections/reporting
- Contractor management
- Corrective Actions (implementation and reporting)

## Office of Real Estate

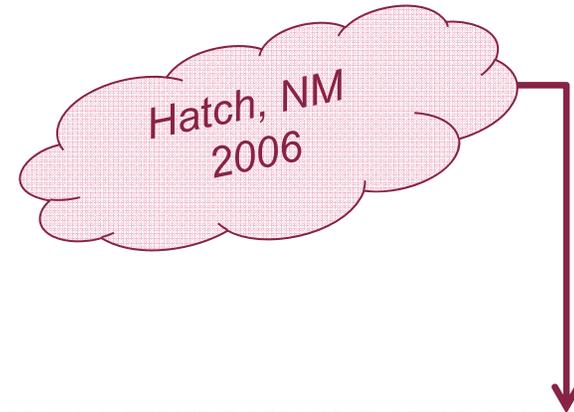
- Tenant construction compliance

EPA, NMED



# How am I a part of this? I am a student! I work in an office! (or a classroom, or a kitchen, or a lab, or...)

- The rest of us impact the environment by our actions
  - Don't litter! ("floatables")
  - Picking up after pets
  - Does your car leak oil? If so – fix it!
  - Help to educate your peers
- Fairfax County, VA Storm Water Management (5:36)  
[https://www.youtube.com/watch?v=\\_PiLQyFy7Pg](https://www.youtube.com/watch?v=_PiLQyFy7Pg)



# What's bad?...How do I contact you?

- Litter/dumping, clogged drains, chemical spills – any of these can potentially harm NMSU. Let's all be the eyes and ears for a better campus!
- Phone # to EH&S (also used for Incident Response): 646-3327
- Email: [ehs@nmsu.edu](mailto:ehs@nmsu.edu)
- Web: <http://safety.nmsu.edu/programs/environmental/SWMP.htm>
- Or call me (Jack Kirby) directly at 646-7102

Local picture  
(not NMSU)



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### III. 2014 Recyclable Materials Form

Facility Name: Aggie Recycling New Mexico State University				<b>PRINT</b> Name, Title & Telephone # of Person Completing Form: Jack Kirby, Assistant Director, 575-646-7102				
County: Dona Ana		Permit or Registration # NA		Facility Type: <input type="checkbox"/> Landfill <input type="checkbox"/> Recycling <input type="checkbox"/> Composting <input type="checkbox"/> Transfer/Convenience Center				
Type of Recyclable	Method		Material Origin		Managed On-Site: (c)	Sent Off-Site to be:		Facility sent to: (f)
	<input checked="" type="checkbox"/> Mark One		Amount of In-State Materials Received in Tons	Amount of Out-of-State Materials Received in Tons		(d)	(e)	
	Weighed	Estimated	(a)	(b)	Beneficially Used or Re-used	Recycled or Processed	Beneficially Used	Provide Facility Name and City/State
<b>Paper:</b>								
1	Mixed Paper		X	95.00			95.00	Master Fibers, El Paso, Tx
2	Cardboard (OCC)		X	105.00			105.00	Master Fibers, El Paso, Tx
3	Newspaper (ONP)		X	68.00			68.00	Master Fibers, El Paso, Tx
4	Office Paper		X	76.00			76.00	Master Fibers, El Paso, Tx
5	Phone Books		X	8.00			8.00	Master Fibers, El Paso, Tx
6	Chip Board		X	2.00			2.00	Master Fibers, El Paso, Tx
<b>Containers:</b>								
7	Plastics		X	35.00			35.00	Master Fibers, El Paso, Tx
8	Aluminum		X	8.00			8.00	USA Can Recycling, Las Cruces, NM
9	Steel Cans							
10	Glass							
11	Mixed Containers							
<b>Other Materials:</b>								
12	Scrap Metals/ White Goods		X	40.00			40.00	Las Cruces Rcyling, West Side Recycling, Las Cruces, NM
13	Carpet Padding							
14	Pallets							
15	Electronic Scrap							
16	Plastic Films							
17	Other Plastics							
18	Household Items							
19	Textiles/Clothing							
20	Other or Commingled Materials							
21	<b>TOTAL</b>			437.00			437.00	

Questions?  
 Call 505-771-5982

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Summary of the amount (CY or tons) by type of material processed for recycling from January 1, 2015 to June 30, 2015: Mixed Paper/30T/ Cardboard 37T/ Newspaper 20T/ Office paper 30T/ Phone Books 5T/Chip Board 1T/Plastics 11T /Aluminum 2T/ Scrap metal 15 T

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