**City of Las Cruces®**

May 24, 2007

Mr. Brent Larsen
EPA Region 6
NPDES Permits Branch (6WQ-PP)
1445 Ross Ave., Suite 1200
Dallas, TX 75202-2733

6WQ-P
JUN 0 4 2007
RECEIVED

RE: Annual Report for NPDES

Dear Mr. Brent Larsen:

We are pleased to submit the Storm Water Management Plan for the City of Las Cruces National Pollutant Discharge Elimination System Phase II program. The five (5)-year plan has been designed to integrate the EPA's General Permit with the City's standard operating procedures.

The plan will effect nine (9) departments and requires extensive inter-departmental communication and cooperation. We look forward to continued partnership with EPA and our mutual efforts to improve natural water quality. I will be sending our MS4 operators Mark Dubbin and Peter Bennett, who have worked to build this plan, to EPA's 2007 conference in Rogers, AR to keep up to date on developments within the Phase II program.

We continue to move forward with our agenda and I look forward to personally meeting your representatives and hosting the training scheduled for July 10th. If you have any questions or require additional information, please contact myself, Mark Dubbin, or Peter Bennett at (505) 528-3171. Thank you.

Respectfully,

Michael Johnson, P.E.
Director of Public Works

Enclosure

Pc: Loretta M. Reyes, PE, Engineering Services Administrator
Mark Dubbin, PE, Design Engineer
Peter Bennett, Engineering Technician

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JUN 0 4 2007

Mr. Brent Larsen
EPA Region 6
NPDES Permits Branch (6WQ-PP)
1445 Ross Ave., Suite 1200
Dallas, TX 75202-2733

# City of Las Cruces®

PEOPLE HELPING PEOPLE

KEEP IT CLEAN

City of Las Cruces

storm water quality

It's a NO DRAINER

# Storm Water Management Plan For City Departments

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# Executive Summary

The Storm Water Management Plan[1] (SWMP) outlines the City of Las Cruces 5 year program to comply with the Environmental protection Agency's (EPA) Phase II Storm Water Final Rule (64 FR 6872, 8Dec99) to improve storm water quality in accordance with the Clean Water Act of 1972. This program will serve to develop, implement, and enforce a storm water management program designed to reduce the discharge of pollutants to the maximum feasible extent possible. The EPA has identified six minimum control measures which must be specifically addressed within this plan. The City must show measurable goals and improvements in these six minimum control areas. A record of these results and improvements will be the responsibility of each department. These six minimum control areas are listed below and outlined in the Table of Contents. These six control measures involve several departments within the City of Las Cruces. By following these six control measures the City of Las Cruces will benefit from significant reductions in pollutants being discharged. The pollutants most common to storm drain discharges include fecal coli form, yard waste, restaurant grease, oil, suspended solids, and sediment.

**Storm Water Management Plan: Six Minimum Control Measures**

1. Public Education and Outreach on Storm Water Impacts
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination (IDDE)
4. Construction site Storm Water runoff/control
5. Post-Construction Storm Water Management in New Development and Redevelopment
6. Pollution Prevention/Good Housekeeping for Municipal Operations

[1] Revision 1, January 2007

# Legal Authority

The City of Las Cruces will implement an ordinance providing the city with authority to control the quality of separate storm water discharge to it's storm water drain system; these includes runoff discharge onto public right-of-way (street). The city's authority addresses industrial, commercial, and municipal discharges. The City of Las Cruces has both the fiscal authority and legal resources to fully implement this Storm Water Management Plan (SWMP).

## Permit Coverage

The storm water management plan encompasses all areas within the City of Las Cruces city limits covering over 52 square miles. The City of Las Cruces has a population of 75,000 residents, 370 miles of roadways and numerous storm drain outfalls discharging into the waters of the United States. (See fig. 1)

## Reporting Requirements

The City of Las Cruces will report annually during the first permit cycle. The report will include the status of compliance with the permit conditions; an assessment of the appropriateness of the BMP's (best management practice) selected and progress towards achieving the measurable goals for each of the six minimum control measures. This report will also summarize activities undertaken by the City during the reporting cycle, any changes to the plan or its measurable goals and, all relevant data obtained during the reporting period. Additionally, any changes made to BMP's or the measurable goals will be addressed.

# 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, information submitted is, to the best of my knowledge, 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. Further, no department shall charge another department for costs incurred as assigned by this plan."

**Michael Johnson, P.E.**
**Director of Public Works**
**City of Las Cruces**

# Part 1 Public Education and Outreach

## 1.1 Target Audiences

The City of Las Cruces will use a variety of methods to reach a diverse audience. The city will utilize mass media campaigns and use a mix of resources to promote pollution awareness relevant to the SWMP. Our industrial outreach program will build up on existing programs such as IPP, HHW and, recycling to target businesses and industries which significantly impact storm drains (restaurants and garages) through grease and oil releases.

## 1.2 Education Materials and Strategies

The public education effort will inform residents about the City of Las Cruces recycling program, including proper disposal of used motor oil, chemicals, solvents and other hazardous household products. Citizen Watch groups will be encouraged to identify areas regarding storm water pollution. A storm water hotline will be established to aid these groups in reporting illicit discharge and potential spills. Our local strategies will involve using various public service announcements, including multilingual posters, brochures and flyers to help promote awareness in storm water pollution management. The City of Las Cruces will work with Las Cruces Public Schools (LCPS) to identify and develop information about storm water quality and related topics that can be developed to school children to instill storm water management at an early age. Volunteer educators from the community and New Mexico State University (NMSU) will be encouraged to conduct workshops during the semi-annual forum. As an example, presentations could teach students about the water cycle, our watershed, the benefits of composting, and other topics related to storm water runoff.

## 1.2 Measurable Goals

| | |
|---|---|
| Program year 1: | Document all activities related to Public Education and Outreach |
| Program year 1: | Establish calendar for meetings |
| Program year 2: | Codes enforcement will establish a storm water hotline |
| Program year 2: | Create PSA ads and brochures |
| Program year 2: | Assess previously identified water quality problems that can be partially addressed through education. |
| Program year 3: | Participate in community events and disseminate information |
| Program year 4: | Provide information for class curriculums for public schools |
| Program year 5: | Provide proper pesticide application video developed by the City to local applicators |

# Part 2 Public Participation and Involvement

The City of Las Cruces public participation control measure has a large public component. Support by residents is crucial to the success of the Storm Water Management Program. The measure will involve all socio-economic groups. The public participation program is a key component of the public education measure. Broader public support in the development and decision making process will minimize potential legal challenges and maximize acceptance and cooperation.

## 2.1 Volunteer Educators/Speakers

Volunteer educators and speakers are encouraged to provide their expertise in the areas of storm water maintenance and pollution prevention. Besides having its own professional staff, The City of Las Cruces also has the resources available from the University (NMSU) to bring in professors and scientists who can offer their knowledge and guidance in the fields of water and wildlife conservation, engineering and hydrology to help support our storm water infrastructure.

## 2.2 Public Meetings/Community Outreach

Public meetings will provide an opportunity to discuss various topics and provide input concerning appropriate storm water management policies and BMPs. Community cleanup events, food and activities will be City sponsored through an enhanced Keep Las Cruces Beautiful Program. By enhancing the Keep Las Cruces Beautiful program we will offer individuals and groups an opportunity to monitor our storm drains and waterways to help keep them clean and maintained. A telephone hotline (528-4100), will be maintained to aid enforcement authorities in the identification of polluters. Our program seeks to contact groups such as the Las Cruces Chamber of Commerce, the Hispanic Chamber of Commerce, the Rotary Club, and the Boy and Girl Scouts. An advisory group made up of organization members, concerned citizens, City staff, and others will advise the SWMP about public concerns and interests. This advisory group would also recommend some content for the public forums.

## 2.3 Recycling

Recycling programs will be instituted to recycle yard waste, newspapers, cardboard, plastic, oil, and antifreeze. A recycling program that targets these materials will discourage improper disposal and should further reduce pollution of the river and our watercourses.

## 2.4 Intern Programs

Intern programs for Co-op students to work at the wastewater treatment plant and Public Works Department will be available. Programs such as this will give citizens first hand knowledge of their local city pollution prevention programs.

### 2.5 Measurable Goals

| | |
|---|---|
| Program year 1: | Public Participation and Involvement |
| Program year 1: | Public Notice of upcoming meetings and event schedules |
| Program year 2: | Stencil drain program implemented |
| Program year 3: | Storm drain hotline in place |
| Program year 3: | Establish acceptance program for handling, storage, and disposal of lead-acid batteries at recycling center. |
| Program year 3: | Document the amount of materials recycled |
| Program year 4: | Public education through guest speakers |
| Program year 4: | Establish volunteer groups (example: groups or adopt a Storm Drain) |
| Program year 4: | Enhance existing Co-op programs |

# Part 3 Illicit Discharge Detection and Elimination

### 3.1 Visual Inspection/Screening

The illicit discharge detection measure will involve both municipal staff and local citizens. The city of Las Cruces Codes Enforcement will locate illicit discharge problem areas through visual inspections, public complaints, and visual screening and dry weather screening methods. The program will work to detect and eliminate illicit discharges. The City of Las Cruces will begin to catalog data pertinent to the NPDES program. The data will be available to interested parties. Visual inspection of storm drains will be integral in identifying those areas of the city that have frequent occurrences of illicit discharges. Other City of Las Cruces service departments such as, Building Code Enforcement, Storm Sewer Maintenance, and Fire Department data will be incorporated.

### 3.2 GIS Mapping

A Geographic Information System (GIS) will be utilized by the City of Las Cruces to map the location of all storm sewer lines, outfalls, ponds, and other waters that receive storm water discharges. This information is made available through the city-wide network and Arcview GIS software. The City of Las Cruces maintains an accurate map of the storm drain system. Utilizing the City's Global Positioning System (GPS) survey equipment, all outfalls which discharge into a recognized water body will be accurately mapped. Thus, an accurate map of the various aspects of the storm water system (catch basins, pipes, culverts, and other storm water structures) can also be depicted.

### 3.3 Correct Illicit Connections

A "right of entry" ordinance will be enacted to allow municipal employees access on private property for inspection in locating potential sources of illicit industrial discharges. The enforcement actions that will be taken against those properties found to be in non-compliance, or that refuse to allow access to their facilities, are varied. They range from cease-and-desist orders, suspension of water or sewer service, criminal and civil penalties including, charging the owner of the property for the cost of abatement. Codes Enforcement officers will begin the inspection of select commercial business and light industrial businesses for illicit discharges and compliance to the City's ordinance. They

will begin inspections with businesses which have the highest potential to impair water quality such as, restaurants, gas stations cleaners, etc.

### 3.4 Documentation

The City of Las Cruces will begin to catalog data pertinent to the NPDES program. The data will be available to interested parties. The Storm Water Program Manager will request that private industrial facilities and wastewater treatment systems in the area submit their sampling and monitoring results. This data may be includes in the GIS for reference. If future sampling in receiving water bodies shows elevated levels of a particular pollutant then the City can use the GIS resource to focus its investigation on possible sources of illicit discharge.

### 3.4 Measurable Goals

| | |
|---|---|
| Program year 1: | Document all activities related to IDDE |
| Program year 1: | Locate illicit connections |
| Program year 1: | Document the number of citizen complaints |
| Program year 2: | Commercial/industrial inspections |
| Program year 2: | "Right of entry" ordinance enforced |
| Program year 2: | Inspector training |
| Program year 4: | Maintain current storm drain system/outfall inspections |
| Program year 4: | Promote recycling for household hazardous waste |
| Program year 4: | Outfall mapping updated |
| Program year 5: | Document any dry weather flows found |

## Part 4 Construction Site Runoff Control

### 4.1 Site Plan Review

The City of Las Cruces recognizes that construction sites can deposit a significant amount of sediments in a short period of time. The Phase II Rule requires the City to develop and enforce a storm water management program. The City will adopt an ordinance focusing on erosion and sediment control of construction pollutants in its storm water runoff. The ordinance will require that land disturbance of one or more acres submit an Erosion Control Plan. It requires developers to submit a plan that contains measures to reduce soil erosion and contain sediments that have already eroded. The City currently requires the approval of submitted construction plans prior to ground being broken and will now require erosion control measures for all construction, including residential. If construction commences prior to the approval of the site plans, heavy fines may be levied

### 4.2 Inspections/Violations

The City of Las Cruces has also dedicated existing staff for plan review and inspection. Once a plan is reviewed and approved by the city, the staff's job would be to ensure that the Erosion Control Plan is followed. A checklist will be completed periodically for every construction permit. An ordinance will require the developer to install and maintain those specified measures and practices agreed to in the plan. Sites may be inspected for compliance and if found lacking in any required area, an inspector

may issue a permit violation stop work order, fine, or other measure to ensure compliance.

### 4.3 Erosion Awareness

Area-wide measures have been instituted to reduce impervious cover. The City of Las Cruces has adopted smart growth initiatives to promote open space and native landscaping. The City does not pay for infrastructure development in native areas.

### 4.4 Measurable Goals

| | |
|---|---|
| Program year 1: | Document all activities related to Construction Site Runoff |
| Program year 1: | Construction site ordinance in place |
| Program year 1: | Procedures for information submitted by the public in place |
| Program year 2: | Training for city staff (inspectors and plan reviewers) and construction operators. |
| Program year 2: | Area wide measures instituted to reduce impervious cover |
| Program year 2: | Permit fees increased by 2% to fund plan review and inspections |
| Program year 3: | Document the number of inadequate construction sites reported by inspectors |
| Program year 3: | List the number of stop work orders given |
| Program year 4: | Document the number of enforcement actions taken |
| Program year 5: | Document the number of BMP information brochures given to construction operators, and the number of operators attending training sessions. |
| Program year 5: | Document the amount of naturally vegetated land area that is preserved |
| Program year 5: | Improved clarity and reduced sedimentation levels in local water bodies |

## Part 5 Post-Construction Site Runoff Control

### 5.1 Post-Construction Runoff Control

The City of Las Cruces proposes to address the Post-Construction Runoff Measure with structural and non-structural BMPs. The controls seek to reduce the amount of impervious cover, by increasing natural land set-asides for conservation and to use pervious areas for more effective storm water management. The City of Las Cruces has looked at ways to reduce the amount of runoff in new subdivisions. One such way has been the recent re-evaluation of the drainage standards to encourage regional ponds and parks. This will provide additional pervious area and native flora and fauna. The net increase of scenic features will positively impact the neighborhood's aesthetic and increase residential property values.

### 5.2 Non-Structural BMPs

Open space will be managed by the City of Las Cruces Facilities Department, Parks Division. Some may be privately maintained or managed by the public Works Street Systems Section, as defined by the new drainage standards. This will establish a legal entity responsible for both the natural and recreational open space. Stream buffer

guidance will be encouraged by Community DEVELOPMENT Department staff such that all riparian stream areas are restored with native vegetation. The zone will be 100'-150' wide on both sides of the bank. The buffer includes the 100-year flood plain delineation and is governed by the Flood Plain Ordinance (Las Cruces Municipal CODE 31933).

### 5.3 Structural BMPs

Structural BMPs include the use of dry-ponds which will principally be used in the urban environment. This technology has the benefit of being retrofitted in the developed portions of the city. The use of porous pavement in 10% of municipal projects is also being considered. The proposed recommendation would authorize that 10% of municipal resurfacing projects would utilize porous materials. However, numerous considerations would be required to determine the feasibility for this use.

### 5.6 Measurable Goals

| | |
|---|---|
| Program year 1: | Document all activities related to Post-Construction Runoff Control |
| Program year 1: | Strategies developed that include both structural and non-structural BMPs |
| Program year 1: | Stream buffer zone documents created |
| Program year 2: | Ordinance or other regulatory mechanism in place for alternative pavers. |
| Program year 2: | Storm water quality grants pursued |
| Program year 3: | Urban water quality project developed/implemented |
| Program year 3: | Porous pavement investigations |
| Program year 3: | Document the reduction of impervious surfaces associated with new and redevelopment projects |
| Program year 3: | Evaluation of the effectiveness of ponding systems |
| Program year 4: | Document the number of stream miles modified and vegetated |
| Program year 4: | Document the amount of acreage preserved as buffers |
| Program year 5: | Document changes in water quality as a result of runoff leaving buffer zones |

## Part 6 Pollution Prevention/Good Housekeeping

### 6.1 Municipal Maintenance

The City of Las Cruces Pollution Prevention/Good Housekeeping Measure for municipal operations program goal is to reduce pollutant runoff from municipal operations. The vehicle maintenance program requires that all city-owned vehicles be regularly inspected to eliminate the amount of oil, grease, and fluid leaks. Street sweeping will be performed on all city streets at a frequency based on the most traveled streets and busy intersections being cleaned more often then lesser traveled ones. Outfalls will be regularly inspected and follow a standardized checklist. Trouble outfalls will be inspected and maintained after every storm event. The City of Las Cruces Public Works Department, Streets Section will continue to use only vacuum-equipped street cleaners for all streets cleaning.

## 6.2 Pesticide Management/Community Awareness

An integrated Pest Management brochure for city residents to find alternatives for traditional chemical pesticides will be offered. New Mexico State University's Extension services will be consulted to address urban pest management. A community education program will teach residents xeriscaping, non-chemical pest control, and removal of pest by non chemical means. Lawn pesticide (and household) application brochures are available to municipal employees and city residents through the existing Pesticide Awareness Program. City of Las Cruces Park and Recreation Department will address ways to enhance its pesticide reduction program.

## 6.3 Measurable Goals

| | |
|---|---|
| Program year 1: | Document all activities related to Pollution Prevention/Good Housekeeping |
| Program year 1: | Identify potentially hazardous materials, their characteristics and use |
| Program year 1: | Street sweeping and outfall cleaning initiated |
| Program year 2: | Records kept identifying quantity, receipt date, service life, users and disposal routes for containerized material storage |
| Program year 2: | Storm drains with high pollutant loadings will be inspected and cleaned when necessary after every storm event. |
| Program year 3: | City Park and Recreation Pesticide Program enhanced with an emphasis on storm water quality |
| Program year 3: | The assigning/hiring of additional staff to monitor municipal operations |
| Program year 3: | Document the number of IPM brochures distributed to citizens |
| Program year 4: | All municipal pesticide/herbicide applicators will be certified |
| Program year 4: | List the number of outfalls cleaned and the amount of trash removed |
| Program year 5: | Document the number of miles of street cleaned and the amount of trash removed from streets. |
| Program year 5: | Document the reduction in pesticides and herbicides |

# Acronyms[2]

| | |
|---|---|
| BMP | Best Management Practice |
| CFR | Code of Federal Regulations |
| CGP | Construction General Permit |
| DMR | Discharge Monitoring Report |
| EPA | U.S. Environmental Protection Agency |
| GIS | Geographic Information System |
| HHW | Household Hazardous Waste |
| IPP | Industrial Preparedness Program |
| LCPS | Las Cruces Public Schools |
| MS4 | Municipal Separate Storm Sewer System |
| MSGP | Multi-Sector General Permit |
| NEC | No Exposure Certification |
| NMDOT | New Mexico Department of Transportation |
| NMED | New Mexico Environment Department |
| NMSU | New Mexico State University |
| NOAA | National Oceanic and Atmospheric Administration |
| NOI | Notice of Intent |
| NOT | Notice of Termination |
| NPDES | National Pollutant Discharge Elimination System |
| NRC | National Response Center |
| NRCS | Natural Resources Conservation Service |
| OSHA | Occupational Safety and Health Administration |
| RQ | Reportable Quality |
| SCP | Sediment Control Plan |
| SIC | Standard Industrial Classification |
| SWPPP | Storm Water Pollution Prevention Plan |
| T&E | Threatened and Endangered Species |
| TESCP | Temporary Erosion and Sediment Control Plan (equivalent to SCP) |
| TMDL | Total Maximum Daily Load |
| USGS | U.S. Geological Survey |

[2] Acronyms page is meant for reference only. Not all acronyms listed here are found in this document.

# Notice of Intent (NOI)
# NPDES Phase II General Permit
# For Storm Water Discharges from an MS4
# Municipal Storm Sewer System

1. Legal Name of the MS4 Operator: **City of Las Cruces**
   Mailing Address: **P.O. Box 20000**
   **Las Cruces, NM 88004**

   Contact Person **Public Works** **Engineering Services**
   Telephone Number **(505) 528-3171**

2. Operator is a ___Federal ___State ___Tribal **X** other public entity (Check one)

3. The MS4 is located in the **Las Cruces** urbanized area or _____ core municipality or Indian reservation/pueblo (if not located in an urbanized area);
   In **Dona Ana** county(ies),
   and the latitude and longitude of the approximate center of the small MS4 is
   **Latitude N 32° 18' 43" Longitude W 106° 46' 37"**

4. The major receiving water(s) are **Rio Grande River**.
   Does the MS4 discharge to any waters for which an TMDL applicable to discharges from the MS4 has been approved ___Yes ___No **X** N/A?

5. The MS4 ___is **X** is not ___is partially located on Indian Country lands. If so, the Indian Country Lands include the following:_____
   (Note: MS4s straddling State and Indian Country land boundaries will be issued authorization under all applicable permits and may have additional State or Tribal-specific requirements applicable to different areas of the MS4 – see part 8)

6. If the MS4 operator is relying on another governmental entity to satisfy one or more permit obligations (see Part 5.4), the identity of the entity(ies) and the element(s) the entity(ies) will be implementing ___N/A **X** Required information attached

7. A description of the storm water management program (SWMP), including beset management practices (BMPs) that will be implemented and the measurable goals for each of the storm water minimum control measures specified in Part 5.3 of this permit, the month and year in which the MS4 operator will start and fully implement each of the minimum control measures or the frequency of the action, the name of the person(s) or position(s) responsible for implementing or coordinating the SWMP, and the supporting documentation required by Parts 1.5 and 1.6 is attached.

# Glossary

**Best Management Practices (BMPs)**: Management measures or practices used to protect air, soil, or water quality or reduce the potential for pollution associated with storm water runoff. BMPs may be a structural device or non-structural practice, including processes, land use alternatives, activities, or physical structures.

**Multi-Sector General Permit (MSGP)** : An umbrella permit given to a state under which certain Standard Industrial Classification (SIC) industries may be granted a permit to discharge storm water by notifying EPA of their intent to do so, in compliance with the regulatory provisions of the General Permit.

**Municipal Separate Storm Sewer System (MS4)** : A conveyance or system of conveyances (including roads with drainage systems and municipal streets) that is "owned or operated by a state, city, town, borough, county, parish, district, association, or other public body which is designed or used for collecting or conveying storm water.

**National Pollutant Discharge Elimination System (NPDES)**: The national program for administering and regulating sections 307, 318, 402, and 405 of the Clean Water Act. A storm water permit issued under NPDES is authorized by the EPA to discharge storm water under certain specified conditions. The NPDES General permit provides those specified conditions for construction.

**Non-Exposure Certification (NEC)**: A permit exemption for certain outfalls or pollutant constituents, granted to facilities that can demonstrate no discharge or absence of particular constituents through monitoring.

**Notice of Intent (NOI)**: A formal notice to the EPA that, under the NPDES General Permit, a storm water discharge will take place. The NOI provides information on the permittee, location of discharge, and the type of discharge. It also certifies that the permittee will comply with certain specified conditions as outlined in the General Permit.

**Notice of Termination (NOT)**: A formal notice to the EPA that a specific site permitted under the NPDES Program is no longer discharging storm water.

**Storm Water Pollution Prevention Plan (SWPPP)**: A plan consisting of site maps, construction/contractor activities that could cause pollutants in the storm water, and a description of measures or practices to control those pollutants.

**Sediment Control Plan**: The formal compilation of required erosion and sediment sediment-control activities prepared for a specific site and project.

**Temporary Erosion and Sediment Control Plan (TESCP)**: Equivalent to SCP (i.e., the formal compilation of required erosion and sediment-control activities prepared for a specific site and project.

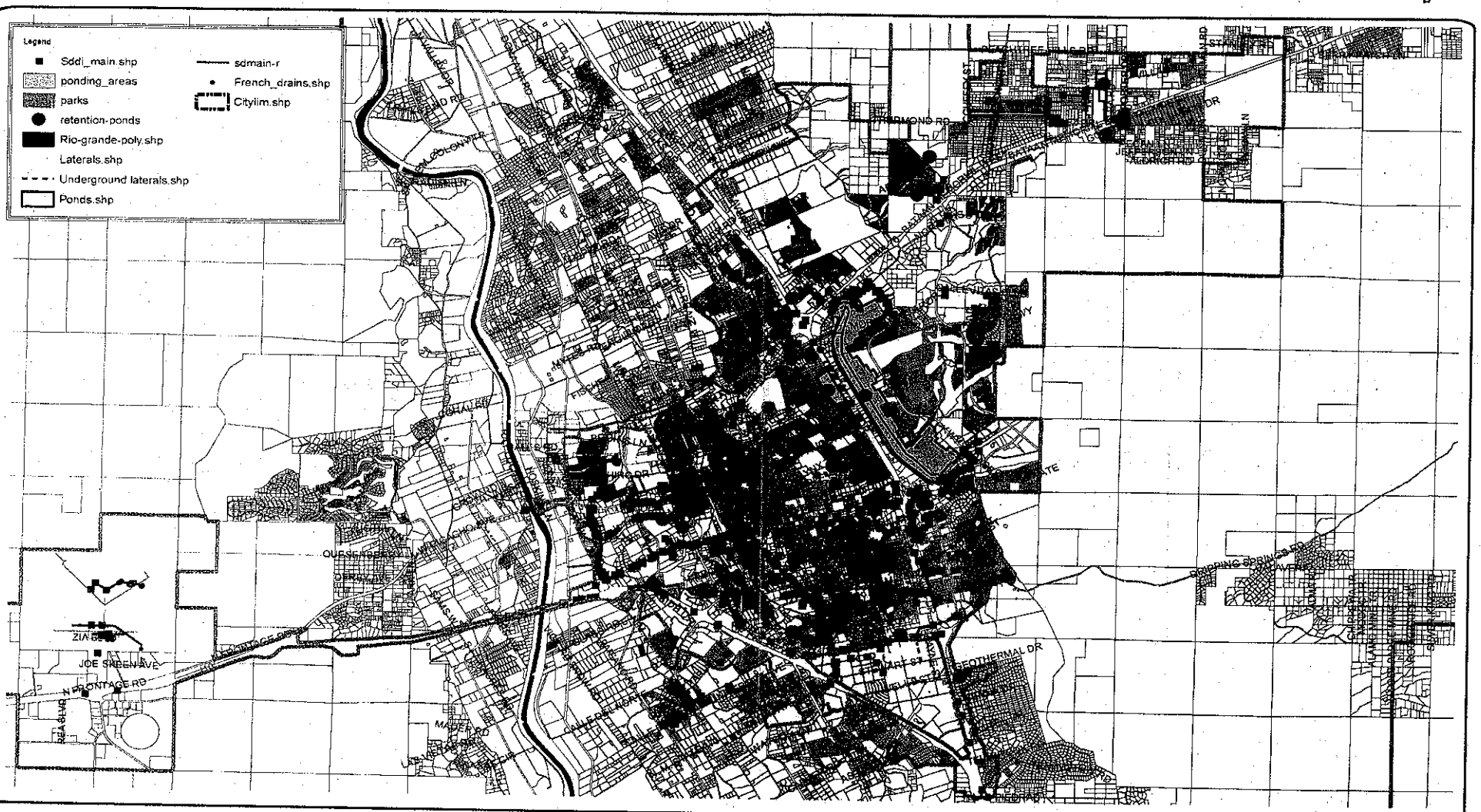
# References

**United States Environmental Protection Agency (NPDES)**
http://cfpub.epa.gov/npdes/

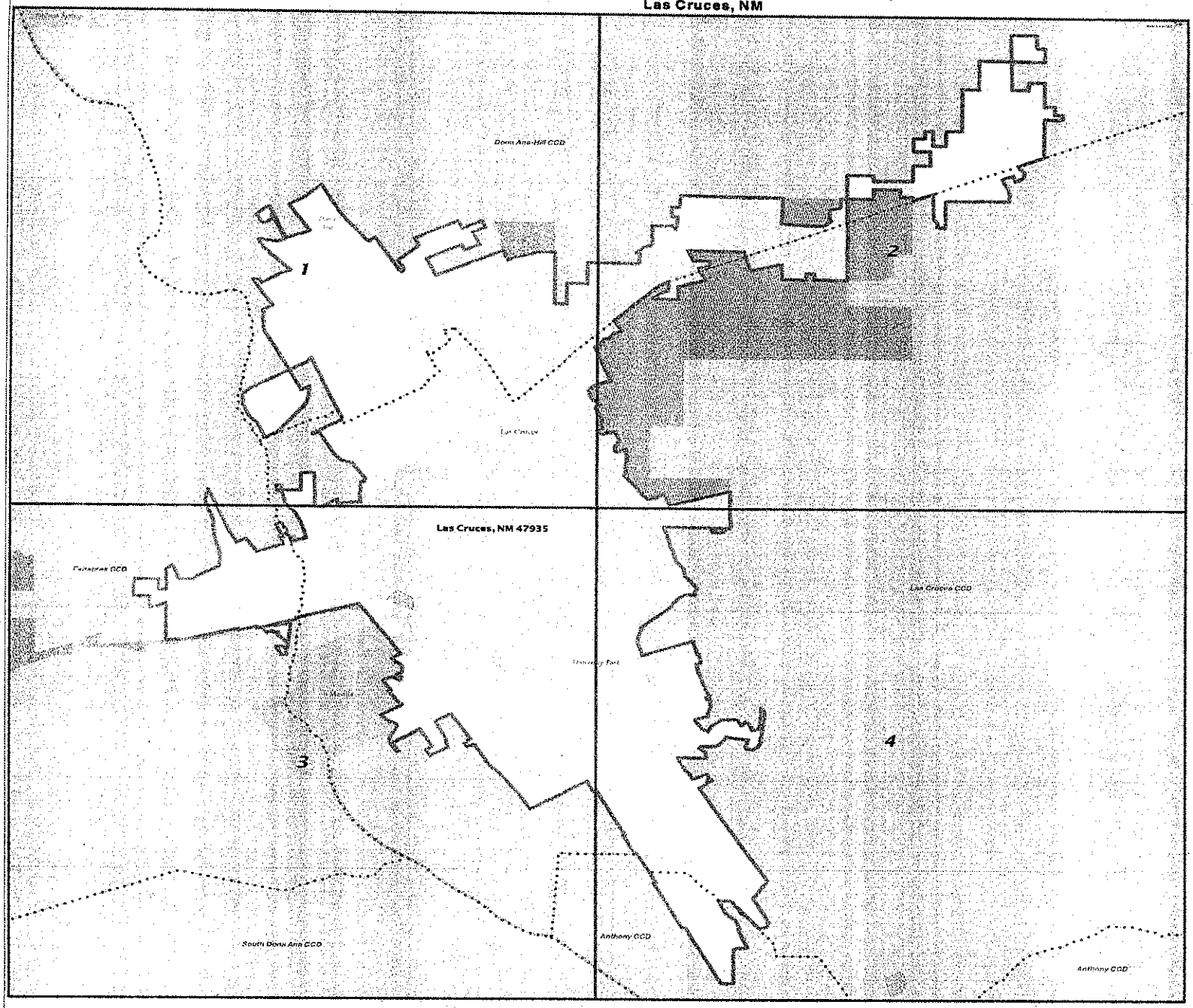
**New Mexico Department of Game and Fish**
http://www.wildlife.state.nm.us/index.htm

**Middle Rio Grande Endangered Species Act Collaborative Program**
http://www.fws.gov/mrges

# CITY of LAS CRUCES STORM DRAIN SYSTEM



# URBANIZED AREA OUTLINE MAP (CENSUS 2000)
## Las Cruces, NM




LEGEND

| SYMBOL DESCRIPTION / SYMBOL | NAME STYLE |
|---|---|
| Reservation Land | CANADA |
| AIR (Alaska) | L'ANSE RES (1880) |
| Tribal Land (Tribal Land) | T1880 |
| HOAs / TDHCA / AANHA | KAW OTSA (5340) |
| Tribal Subdivision | UMONTO 6170 |
| ATS (Alaska) | Tama Res (4125) |
| NEHOAs | Lumbee (9815) |
| ANVSA | NANA ANRC 52120 |
| Tribal Land Reservation | Baltimore, MD 04843 |
| Tribal Land Reservation (Alaska) | Tooele, VT 88057 |
| Minor Civil Division (MCD) | NEW YORK 36 |
| County Subdivision Not Minor Civil Division (MCD) | ERIE 029 |
| Minor Civil Division (MCD) | Pike Twp 59742 |
| Census County Division (CCD) | Kula CCD 91890 |
| Incorporated Place | |

| FEATURE | SYMBOL | FEATURE | SYMBOL |
|---|---|---|---|
| Major Roads | | Secondary Roads | |
| Other Roads | | Local Roads (Local) | |
| Railroad | | Major Waterways | Fort Hood |
| Feature on Roads Line | | | |
| Major Airport (Commercial Airport) | | Census Tract Name | |
| Secondary Airport | | Block Group | |
| Other Secondary Airport | | | |

1 - Indicates an area under water and shall be used on a place basis to provide the Urbanized Area (UA) Outline Map.
2 - Indicates a Minor Civil Division (MCD) or County Subdivision (CS) not in a place.
3 - Indicates a place that is located in an area that is shared, legally defined as a place, Tribal Land.

GOVERNOR
Bill Richardson

DIRECTOR AND SECRETARY
TO THE COMMISSION
Bruce C. Thompson, Ph.D.

Tod Stevenson, Deputy Director

# STATE OF NEW MEXICO
# DEPARTMENT OF GAME & FISH

One Wildlife Way
Post Office Box 25112
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March 29, 2007

Peter Bennett
Public Works/Engineering Services
PO Box 20000
Las Cruces, NM 88004

Re: Storm Water Management Plan
NMGF No. 11310

Dear Mr. Bennet:

In response to your letter dated March 8th, regarding the above referenced project, enclosed is a list of species of concern that occur in Dona Ana County. Base on the information provided in your letter, the Dept. can not asses the affects of storm water discharge on wildlife or habitat in Dona Ana County. Other sources of information are listed below.

For more information on listed and other species of concern, contact the following sources:

1. BISON-M Species Accounts, Searches, and County lists: http://www.bison-m.org
2. Habitat Handbook Project Guidelines: http://wildlife.state.nm.us/conservation/habitat_handbook/index.htm
3. For custom, site-specific database searches on plants and wildlife. Go to Data then to Free On-Line Data and follow the directions go to: http://nmnhp.unm.edu
4. New Mexico State Forestry Division (505-827-5830) or http://nmrareplants.unm.edu/index.html for state-listed plants
5. For the most current listing of federally listed species **always** check the U.S. Fish and Wildlife Service at (505-346-2525) or http://fws.gov/ifw2es/NewMexico/index.cfm.

Thank you for the opportunity to review and comment on your project. If you have any questions, please contact Pat Mathis, SW Area Habitat Specialist, at (505) 532-2100 or patrick.mathis@state.nm.us .

Sincerely,

Janell Ward

Janell Ward, Assistant Chief
Conservation Services Division

JW/pm

xc: Wally Murphy, Ecological Services Field Supervisor, USFWS
Luis Rios, SW Area Operations Chief, NMGF
Pat Mathis, SW Area Habitat Specialist, NMGF

# NEW MEXICO WILDLIFE OF CONCERN
# DONA ANA COUNTY

**For complete up-dated information on federal-listed species, including plants, see the US Fish & Wildlife Service NM Ecological Services Field Office website at http://www.fws.gov/ifw2es/NewMexico/SBC.cfm. For information on state-listed plants, contact the NM Energy, Minerals and Natural Resources Department, Division of Forestry, or go to http://nmrareplants.unm.edu/. If your project is on Bureau of Land Management, contact the local BLM Field Office for information on species of particular concern. If your project is on a National Forest, contact the Forest Supervisor's office for species information.**

| Common Name | Scientific Name | NMGF | US FWS | critical habitat |
|---|---|---|---|---|
| Bleached Earless Lizard | Holbrookia maculata ruthveni | s | | |
| Southwestern Fence Lizard | Sceloporus cowlesi | s | | |
| Little White Whiptail | Aspidoscelis gypsi | s | | |
| Brown Pelican | Pelecanus occidentalis | E | | |
| Neotropic Cormorant | Phalacrocorax brasilianus | T | | |
| Bald Eagle | Haliaeetus leucocephalus | T | T | |
| Northern Goshawk | Accipiter gentilis | s | SOC | |
| Common Black-Hawk | Buteogallus anthracinus | T | SOC | |
| Aplomado Falcon | Falco femoralis | E | E | |
| Peregrine Falcon | Falco peregrinus | T | SOC | |
| Mountain Plover | Charadrius montanus | s | SOC | |
| Least Tern | Sterna antillarum | E | E | |
| Black Tern | Chlidonias niger surinamensis | | SOC | |
| Common Ground-Dove | Columbina passerina | E | | |
| Yellow-billed Cuckoo | Coccyzus americanus | s | C | |
| Mexican Spotted Owl | Strix occidentalis lucida | s | T | Y |
| Burrowing Owl | Athene cunicularia | | SOC | |
| Buff-collared Nightjar | Caprimulgus ridgwayi | E | | |
| Broad-billed Hummingbird | Cynanthus latirostris | T | | |
| Violet-crowned Hummingbird | Amazilia violiceps | T | | |
| Costa's Hummingbird | Calypte costae | T | | |
| Southwestern Willow Flycatcher | Empidonax traillii extimus | E | E | Y |
| Loggerhead Shrike | Lanius ludovicianus | s | | |
| Bell's Vireo | Vireo bellii | T | SOC | |
| Gray Vireo | Vireo vicinior | T | | |
| Baird's Sparrow | Ammodramus bairdii | T | SOC | |
| Varied Bunting | Passerina versicolor | T | | |
| Western Small-footed Myotis Bat | Myotis ciliolabrum melanorhinus | s | | |
| Yuma Myotis Bat | Myotis yumanensis yumanensis | s | | |
| Occult Little Brown Myotis Bat | Myotis lucifugus occultus | s | | |
| Long-legged Myotis Bat | Myotis volans interior | s | | |
| Fringed Myotis Bat | Myotis thysanodes thysanodes | s | | |
| Western Red Bat | Lasiurus blossevillii | s | SOC | |
| Spotted Bat | Euderma maculatum | T | | |
| Pale Townsend's Big-eared Bat | Corynorhinus townsendii pallescens | s | SOC | |
| Big Free-tailed Bat | Nyctinomops macrotis | s | | |
| Organ Mountains Colorado Chipmunk | Neotamias quadrivittatus australis | T | SOC | |
| Desert Pocket Gopher | Geomys arenarius | s | SOC | |
| Pecos River Muskrat | Ondatra zibethicus ripensis | s | SOC | |
| Red Fox | Vulpes vulpes | s | | |

| | | | |
|---|---|---|---|
| Western Spotted Skunk | Spilogale gracilis | s | |
| Common Hog-nosed Skunk | Conepatus leuconotus | s | |
| Desert Bighorn Sheep | Ovis canadensis mexicana | E | |
| Dona Ana Talussnail | Sonorella todseni | T | SOC |
| Anthony Blister Beetle | Lytta mirifica | s | SOC |
| Desert Viceroy Butterfly | Limenitis archippus obsoleta | | SOC |