

Overview and Status Report U.S. EPA Middle Rio Grande Watershed Municipal Separate Storm Sewer System (MS4) Permit







Presentation Overview

- 1. Overview of Stormwater Regulation at SNL
- 2. Overview of MS4 Permit
- 3. MS4 Permit Control Measures
- 4. MS4 Permit Monitoring Program
- 5. MS4 Reporting
- 6. How to Obtain Additional Information



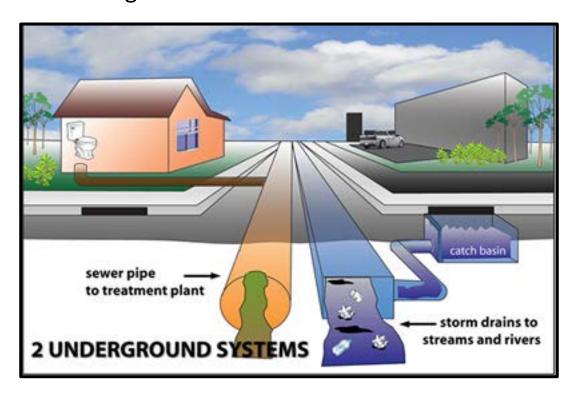
Stormwater Regulation at SNL

- 1. Construction General Permit (CGP)
 - Regulates active construction sites ≥ 1 acre
- 2. Multi-Sector General Permit (MSGP)
 - Regulates specific industrial activities
- Municipal Separate Storm Sewer System (MS4) Permit
 - Regulates entire stormdrain system



What is an MS4?

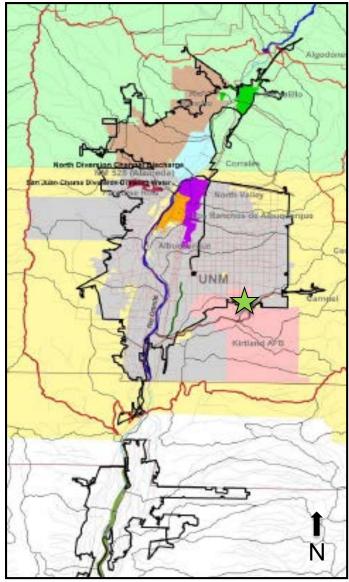
A Municipal Separate Storm Sewer System (MS4) is "a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains)...that discharges to waters of the United States".





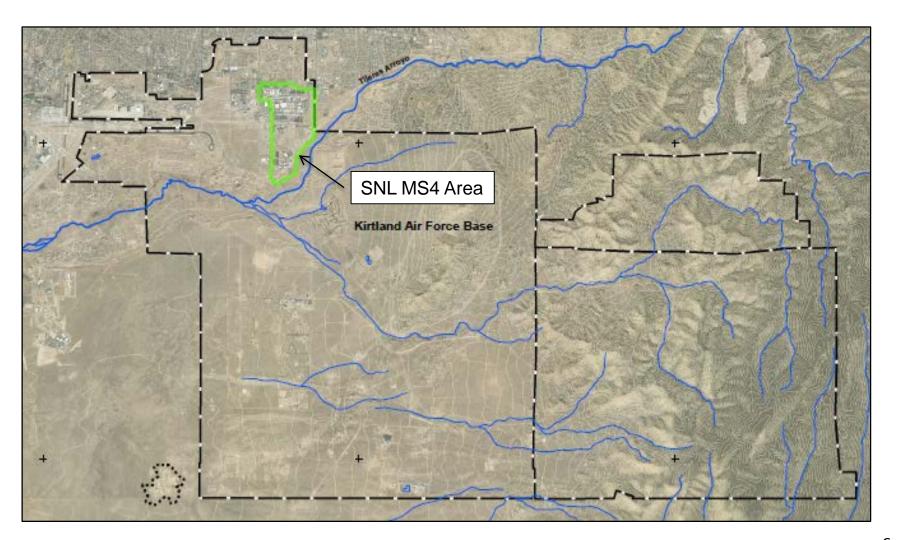
- Watershed scale protections for Middle Rio Grande region
- Approximately 12 separate permittees
 - MS4 Technical Advisory Group
- Permit coverage began November 2015







SNL MS4 Location

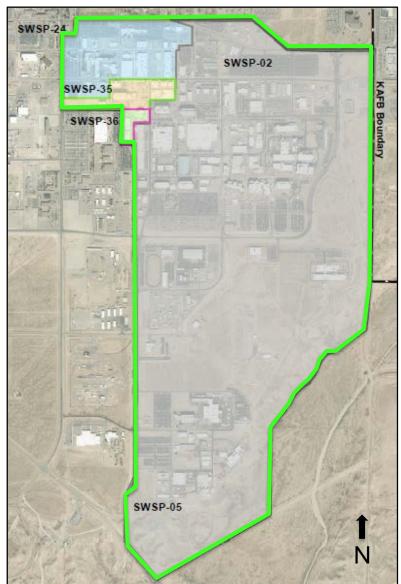




SNL MS4

- 1.16 square miles
 - 1.05 sq-mi drains directly to Tijeras Arroyo
 - 0.11 sq-mi drains to KAFB MS4







MS4 Permit Requirements

- 7 Control Measure Programs
 - Construction Site Stormwater Management
 - Post-Construction Stormwater Management
 - Pollution Prevention/Good Housekeeping
 - Illicit Discharge Detection and Elimination
 - Control of Floatables
 - Public Education and Outreach
 - Public Involvement and Participation
- Stormwater Quality Monitoring
- Annual Reporting



Construction Site Runoff

- Maintained compliance with Construction General Permit
- Stormwater Pollution Prevention Plans
- SNL conducted ~50 inspections in 2016 within the MS4 boundary







Post-Construction Runoff

- Compliance with Energy Independence and Security Act (EISA) Section 438
 - Maintain pre-development hydrology
- Infiltrate and slow runoff through permeable surfaces, detention, and reuse
- Stormwater detention basins
- Rainwater reuse systems
- Permeable landscaping
- Native vegetation





Pollution Prevention & Good Housekeeping

- Chemical inventory and tracking program
- Waste Management and Recycling Program
- Pest Management Plan and Gardener's Manual
- Prepared a Sediment Control Plan
- Conduct Bi-weekly inspections of SNL MS4 outfalls (approximately 400 outfall inspections in 2016)





Illicit Discharge Detection and Elimination

- Sandia 311
- Updated Corporate policies, procedures, and response protocol
- Conduct regular screening and monitoring of SNL MS4 for nonstormwater discharges
- Enhanced coordination with Facilities and Maintenance Department to identify sources of non-stormwater flow







Control of Floatables

- Waste Management and Recycling Program
- Block & Gravel inlet protection
- Street sweeping plan
- Bi-weekly inspections and maintenance of outfalls









Education and Outreach

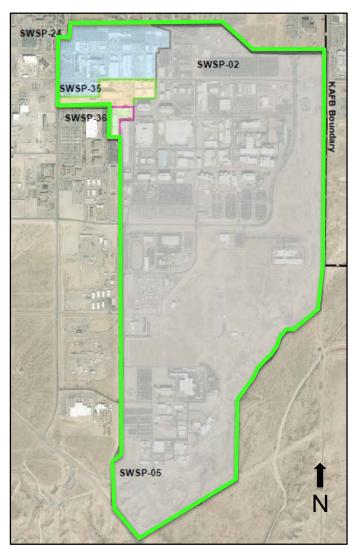
- Provided stormwater training to over 250 SNL personnel and contractors in 2016
- Maintain "Stormwater Keep It Clean" campaign (posters, brochures, newsletters)
- Porcelain Press articles
- Presentations to students using a watershed model
 - Rio Rancho water Festival
 - Explora STEM Fiesta
 - Sandia STEM and Earth Day events
 - APS classrooms for River X-change





Water Quality Monitoring

- Monitor all inflows and outflows 8 times each location over permit term (5 years)
- Submitted Wet Weather Monitoring Plan; approved by EPA
- Collecting samples during the current monitoring period
 - July 1, 2016 June 30, 2017
- Results due to EPA December 1, 2017





Reporting & Public Involvement

- Annual Reports, Monitoring Reports, and Updated Stormwater
 Management Program Plan
 - Due December 1 every year
 - 30 day public review and comment period in October of each year
- All EPA deliverables are available to the public through the LoboVault website and in hard copy at the UNM Library
- Participation in April DoD/DOE public meetings



Information and Contacts

To Access Files Online:

UNM Digital Repository of Documents

http://digitalrepository.unm.edu/snl_ms4/

To View Hard Copies in Person:

Monica Dorame Zimmerman Library Government Documents Collection (505) 277-7180 mdorame@unm.edu

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