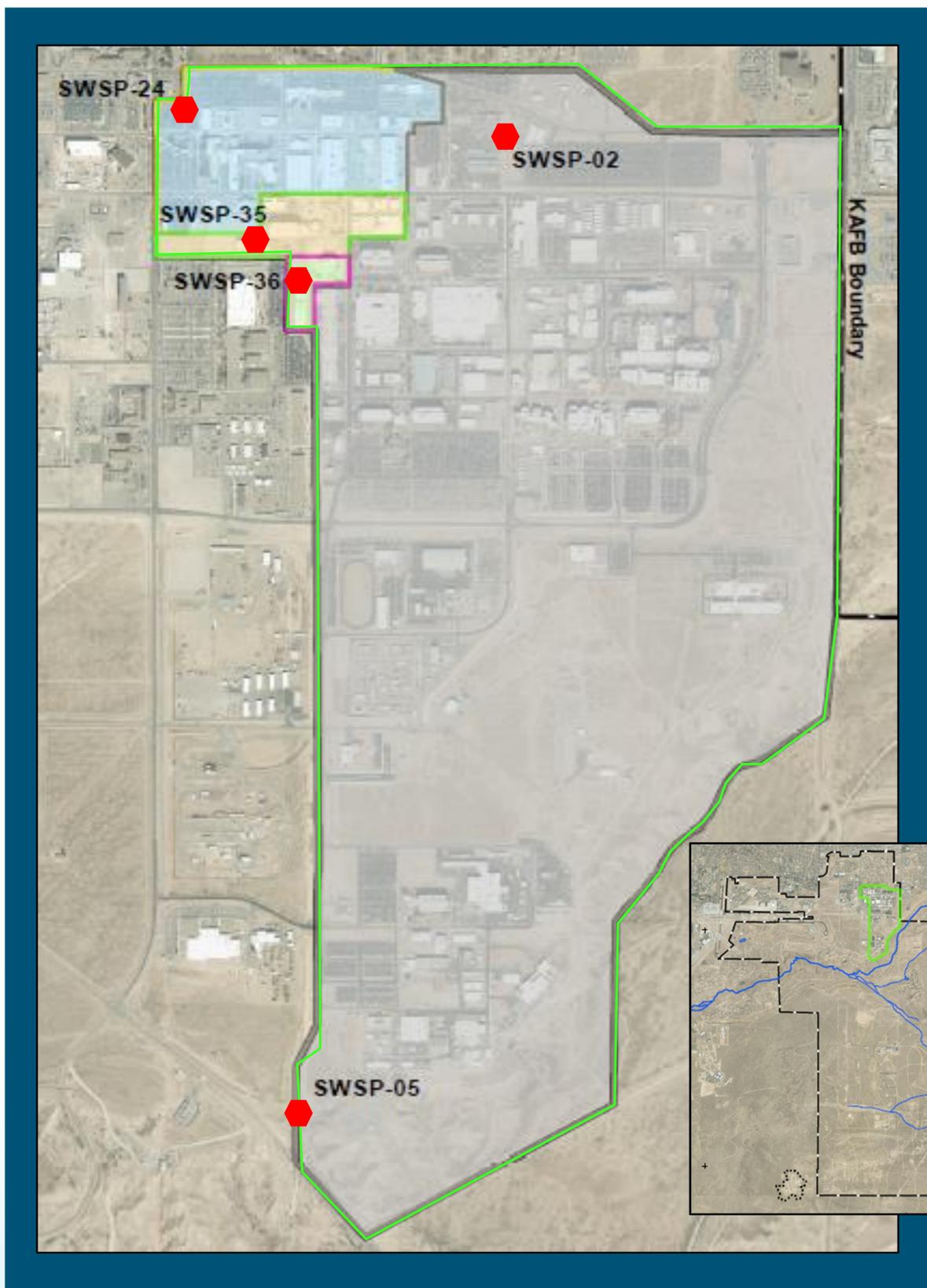




# MS4 Stormwater Permit

## Middle Rio Grande Watershed MS4 Permit

- MS4 stands for Municipal Separate Storm Sewer System - regulated under the Clean Water Act's National Pollutant Discharge Elimination System
- The MS4 Permit applies to all centralized storm drainage systems within the Albuquerque Urbanized Area
- Other Permittees include Kirtland Air Force Base (KAFB), City of Albuquerque, Bernalillo County, Albuquerque Metropolitan Area Flood Control Authority, University of New Mexico, NM Department of Transportation, others
- MS4 Permit issued December, 2014; the permit term is 5 years. A new MS4 Permit will not be issued in 2019; the current permit will enter into administrative continuance until a new permit is issued
- Permit requires implementation of 7 control measure programs, water quality monitoring, and annual reporting



## SNL/NM MS4

- SNL/NM MS4 includes TA-I, TA-II, and TA-IV. Total area = 742 acres
- 90% of SNL/NM MS4 drains south to Tijeras Arroyo
- 10% of MS4 drains west to KAFB, then north to KAFB detention basins
- 5 water quality monitoring locations
- 1 inflow location (SWSP-02)
- 4 discharge locations



# MS4 Stormwater Permit

## Control Measure Programs

The seven control measure programs are designed to prevent pollutants from entering the storm drain system and/or being discharged from the MS4.

### Construction Site Runoff Control

- Compliance with Construction General Permit
- Stormwater Pollution Prevention Plans
- Conduct over 100 inspections each year within the MS4

### Post-Construction Site Runoff Control

- Compliance with Energy Independence Security Act (EISA) Section 438
- Maintain pre-development hydrology
- Reduce and slow runoff using Green Infrastructure/Low Impact Development (GI/LID) practices and stormwater Best Management Practices (BMPs)

### Pollution Prevention and Good Housekeeping

- Chemical inventory and tracking program
- Waste Management and Recycling Program
- Pest Management Plan and Gardener's Manual
- Sediment Control Plan

### Illicit Discharge Detection and Elimination

- Corporate policies, procedures, and training
- Regular screening and monitoring of MS4
- Coordination with Facilities Management and Operations to prevent Illicit Discharges

### Control of Floatables

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

### Public Education and Outreach

- Provide stormwater training to ~250 Sandia employees and contractors each year
- "Stormwater - Keep It Clean" campaign
- Watershed model presentations to local students

### Public Involvement and Participation

- Annual Reports, Discharge Monitoring Reports, and Updated Stormwater Management Program Plan
- 30 day public review and comment period each year
- All EPA deliverables are available to the public through the UNM Digital Repository website: [http://digitalrepository.unm.edu/snl\\_ms4/](http://digitalrepository.unm.edu/snl_ms4/)
- Participation in DoD/DOE public meetings



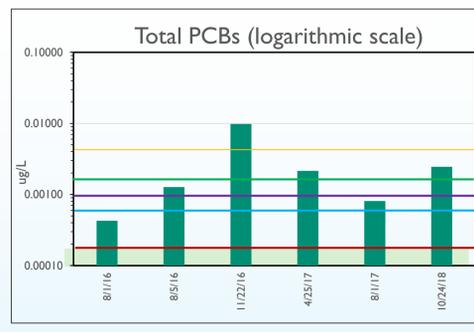
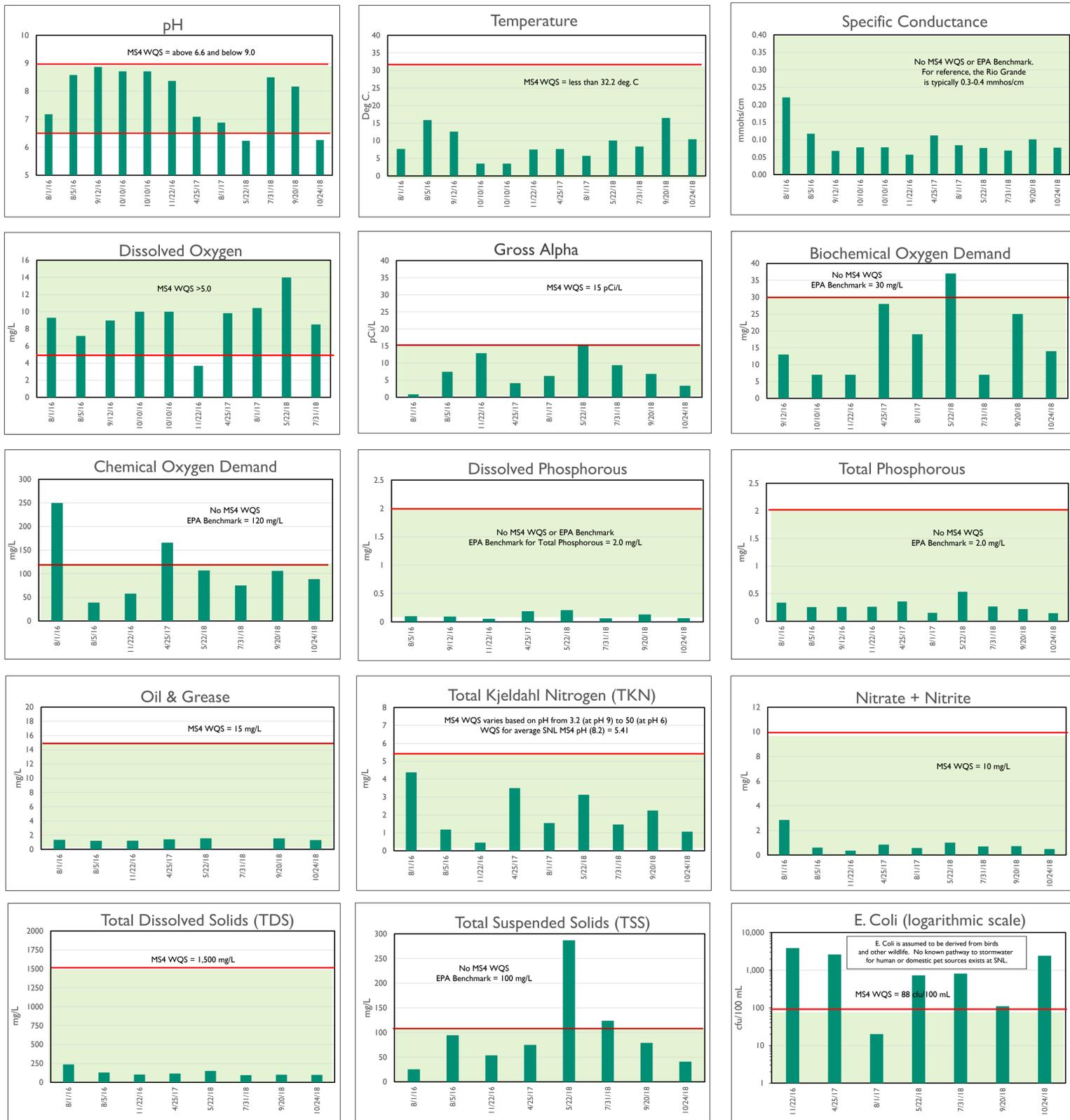


# MS4 Stormwater Permit

## Water Quality Monitoring

Water quality monitoring is conducted to identify pollutants entering the storm-drain system in order to guide improvements to the control measure programs.

### MS4 Stormwater Quality Data Collected at SWSP-05 Since Permit Inception



Albuquerque Metro Stormwater (a)	Median = 0.00428 Range: ND-0.124
SWSP-05 Discharge	Median = 0.00171 Range: 0.000428-0.0098
Pajarito Plateau Baseline Runoff (b)	Median = 0.00097 Range: 0.00023-0.0207
Sandia Peak Snow Samples (b)	Median = 0.00059 Range: 0.00053-0.00065
MS4 Water Quality Standard (WQS)	0.00017 ug/L

#### PCB and E. Coli

##### Focused Pollutant Reduction Activities

- Additional Sediment Reduction BMPs
- Microbial Source Tracking Investigation
- PCB Source Tracking Investigation
- Atmospheric PCB Deposition Monitoring

(a) U.S. Geological Survey, Scientific Investigations Report 2015-5006. Summary of Urban Stormwater Quality in Albuquerque, NM 2003-2012. 2015.  
 (b) Los Alamos National Laboratory, LA-UR-12-1081. PCBs in Precipitation and Stormwater Within the Upper Rio Grande Watershed. May, 2012.