



National Pollutant Discharge Elimination System Program

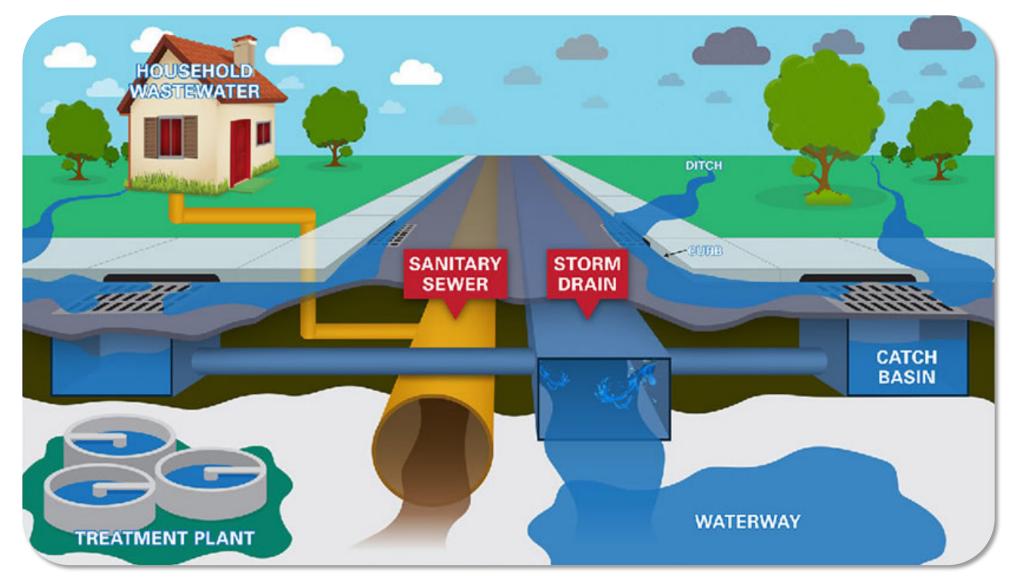
Jeff Potts, Environmental Compliance Coordinator Cordell Chavez, Storm Water Inspector, MPA, QSP, CESSWI, QISP Public Works Department

Agenda

- Program Overview
- Regulatory Background
- Program Funding
- NPDES/MS4 Permit
- NPDES/MS4 Permit Components
- New Legislations and Initiatives
- Purpose To provide Council an update of the NPDES program and the upcoming MS4 Permit anticipated to be implemented as early as 2022

Program Overview

- NPDES/MS4 National Pollutant Discharge Elimination System/Municipal Separate Storm Sewer System
- Administer the NPDES Program by:
 - Implement BMPs to prevent pollutants from discharging to the storm drain system
 - ii. Conduct site inspections and respond to complaints regarding pollutants from public and private property (residential, industrial, and commercial)
 - iii. Submit Annual Progress Report of the City's NPDES Program to Riverside County Flood Control and Water Conservation District (RCFC & WCD)
 - iv. Maintain inspection database to keep track of all activities
 - v. Conduct Public Outreach and Education
 - vi. Participate in Task Force Groups for Regional Water Quality Monitoring
 - vii. Collaborate with other departments to address NPDES activities



- Unlike sewer system (carries water from indoor drains to wastewater treatment plants), storm drain system releases untreated water into flood control channel (onsite treatment BMPs now required for new developments)
- Storm water runoff comes from private property, roads with drainage systems, municipal streets, catch basins, curbs/gutters, man-made channels, or storm drains

Program Overview

NPDES Group
Organizational Chart

Public Works Director

Environmental
Compliance Coordinator

Storm Water

- 2 full time employees
- Collaborate with various departments on NPDES activities:
 - i. Street Maintenance (street sweeping, maintenance of storm drain infrastructures, mitigation of pollutants in City right-of-way, etc.)
 - ii. Construction Inspection Activities
 - iii. Land Development Water Quality Management Plans
 - iv. General Accounting (Budget)

What contributed to the formation of the NPDES Program?



Cuyahoga River Fires - 1868, 1912, 1952, 1969 **{13 fires starting in 1868}** (Ohio History Central)

Regulatory Background

NPDES Permit Applicability

FEDERAL LEVEL

- United States Environmental Protection Agency
- > 1972 NPDES Permit Program part of Clean Water Act (CWA) to regulate storm water discharges to Waters of the United States (WOTUS)
- > Authorized State Governments to perform permitting, administrative and enforcement program

STATE (CA) LEVEL

- State Water Resources Control Board (SWRCB)
- Regulates Municipal Storm Water Program (storm water discharges from Municipal Separate Storm Sewer Systems (MS4s))
- > SWRCB has 9 Regions to cover the State pursuant to different water bodies

STATE (based on Regions) LEVEL

- Santa Ana Regional Water Quality Control Board (SARWQCB) Region 8
- SARWQCB governs discharges to Santa Ana River (SAR) based on Order No. R8-2010-0033 & NPDES No. CAS 618033 (current Permit)
- NPDES Permit issued to Riverside County Flood Control & Water Conservation District (RCFC&WCD), County of Riverside, <u>Corona</u>, & 14 Co-Permittees

LOCAL LEVEL

- Corona owns/operates an MS4
- Corona collaborates with RCFC&WCD (Principal Permittee) & other Permittees to implement Permit requirements
- Corona Municipal Code, Chapter 13.27 addresses Storm Water Management & Discharges Controls

Regulatory Background

Clean Water Act (CWA): Protect and maintain chemical, physical, and biological integrity of local water ways



Regulatory Background

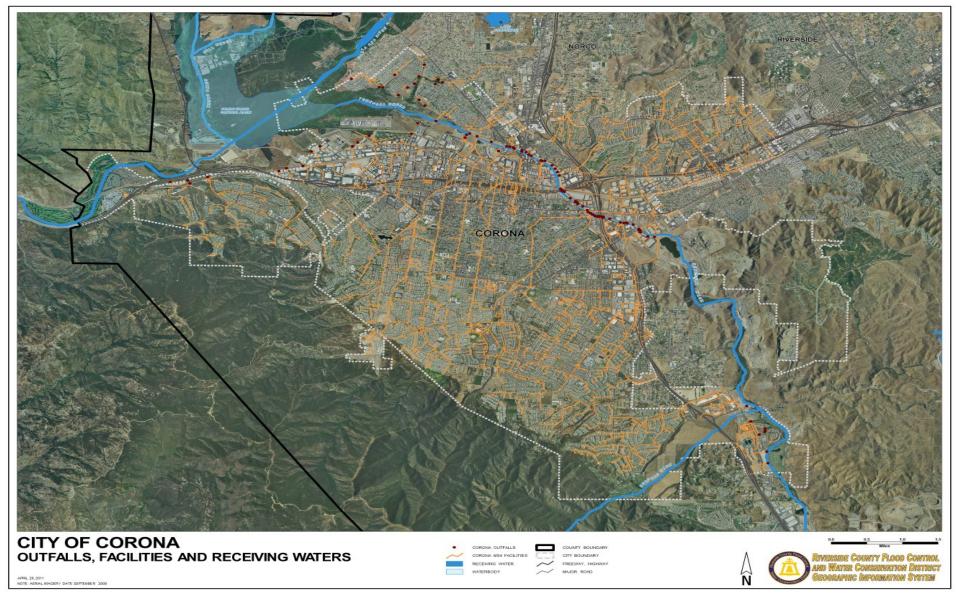
- City established its NPDES Program in 1991
- Urban runoff discharges to WOTUS via Temescal Wash/Creek





City outfall and the Temescal Wash Channel (channel owned & maintained by RCFC&WCD)

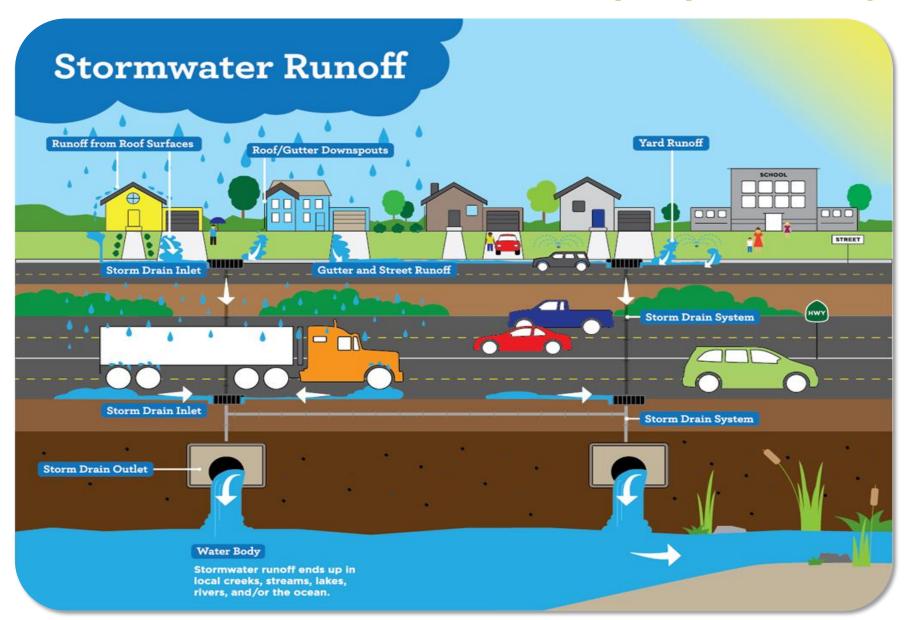
Regulatory Background



Program Funding

- NPDES vital function of City operations that involve implementation/ management of Federal, State and Local regulations (unfunded mandates rely heavily on General Fund)
- Program funding is primarily County Service Area 152 (CSA 152)
 a \$10 per Benefit Assessment Unit (BAU) is levied/imposed to parcels in the City (collected annually by Riverside County)
- Implementation Agreement with Riverside County for CSA 152
 Funding (BAU approved annually by City Council to use funding collected from properties in the City)
- On 2/17/21, City Council approved CSA 152 funding for fiscal year 2022 – projected to generate approximately \$783,000
- CSA 152 funding is for maintenance of storm drains, catch basins, and street sweeping

Municipal Separate Storm Sewer Systems (MS4) Permit Program



MS4 Permit Program

Permit Categories:

- Phase I MS4 Permit Joint Permit issued to RCFC&WCD, Riverside County, <u>Corona</u>, and 14 Co-Permittees
 - i. Large MS4s (≥250,000 people)
 - ii. Medium MS4s (≥100,000 but < 250,000 people)
- Phase II MS4 Permit
 - i. Small MS4s (<100,000 people)
 - ii. Non-Traditional MS4s (e.g., School Districts, Hospitals, Universities, Government Facilities)

MS4 Permit Program

Historic Permit Timeline for Riverside County Phase 1 MS4 Permit, including Corona:

- Initial Permit early 1990s
- 2nd Permit Late 1990s
- 3rd Permit 2000
- 4th Permit 2010 (Order expired 1/29/15, but currently effective until new Permit is implemented)
- 5th Permit Currently being drafted (anticipated as early as calendar year 2022)



Investigations and Inspections for BMP implementation: (completed approximately 2,000 total inspections/investigations for FY 19-20)

- Investigation of Illicit Connections/Illegal Discharges (IC/ID)
- Construction Site Inspections
- Commercial/Industrial Site Inspections
- Pool Test Inspections
- Municipal Facilities Inspections

Investigations: IC/ID (non-stormwater discharges)



Construction Site Inspections

- i. Site Inventory
- ii. Compliance Inspections
- iii. Enforcement
- iv. Construction General Permit (CGP)
- v. Reporting







Improper
Installation of BMPs

Proper Installation of BMPs for storm drain inlet protection & street sweeping

Construction Site Inspections



- Commercial & Industrial Site Inspections
 - i. Site Inventory
 - ii. Compliance Inspections
 - iii. Enforcement
 - iv. Industrial General Permit (IGP)
 - v. Reporting







Improper storage containment & cover for materials stored outdoors

Proper storage containment & cover for materials stored outdoors

Commercial & Industrial Site Inspections



Screen guard BMP for catch basin



Straw wattle/Fiber roll BMP to prevent sediment discharge

Inspection Databases:

Using Access Database to manage inspection activities for annual reporting

 Working to transition from Access Database to a paperless system using TrakiT software application for all NPDES activities

Staff Training:

 Collaborate with RCFC&WCD for annual and bi-annual NPDES training

Public Outreach and Education:

- Inner-Coastal Watershed Cleanup Day held annually in fall at the Auburndale Road crossing of Temescal Wash (temporarily on hold due to construction of Alcoa Dike Project in the area)
- Distribute brochures to residents, businesses, and organizations in response to investigation/inspection activities
- Promote NPDES Residential Guidelines, including Pool Drainage procedures via newsletters sent as water bill inserts
- Collaborate with RCFC&WCD for education at schools located in the SAR
- Posting on City and RCFC&WCD websites and social media





FY 18-19 Temescal Wash Cleanup Event

Total Maximum Daily Loads (TMDLs):

- Member of regional task force administered by Santa Ana Watershed Project Authority (SAWPA) to address excessive bacteria and nutrients in the SAR
- Comprehensive Bacteria Reduction Plan (CBRP)
 implementation of specific BMPs

Regional Water Quality Monitoring:

- Collaborates with SAWPA, RCFC&WCD, Riverside/San Bernardino/Orange Counties, and other Permittees for Region-wide monitoring and water sampling in the SAR
- Consolidated Monitoring Plan (CMP)
 - i. Wet Weather
 - ii. Dry Weather
 - iii. Receiving Waters
 - iv. Outfalls





NPDES Annual Progress Report:

- Annual Program Effectiveness Assessment
- Submittal Dates
 - i. City submits to RCFC&WCD mid September
 - ii. RCFC&WCD submits to SARWQCB by November 30th

***SARWQCB has authority to conduct an audit of the City's Storm Water Program to ensure compliance with the MS4 Permit

New Legislations and Initiatives

New MS4 Permit [#5]:

- Tri-County Region to include Orange, Riverside, & San Bernardino Counties (existing Permit specific to RCFC&WCD, Riverside County, and Co-Permittees in Riverside County)
- ii. Being reviewed by USEPA and SWRCB
- iii. 1st Public Workshop scheduled for December 2021

New Legislations & Initiatives

Trash Provisions:

- SWRQB adopted statewide Trash Provisions (prohibit the discharge of trash to surface waters on April 7, 2015)
- ii. Not in existing Permit (will be in new MS4 Permit)
- iii. Two compliance tracks (Track-1 or Track-2)
 - 1) Track 1 install, operate, and maintain Full Capture Systems for storm drains to capture runoff from Priority Land Uses applied locally
 - 2) Track 2 install, operate, and maintain any combination of Full Capture Systems, Multi-Benefit Projects, and other Treatment Controls applied locally or regionally
- iv. City selected Track 1 and working to meet the requirements
 - 1) Install/operate/maintain approximately 1,103 Full Capture Systems to catch basins in Priority Land Use areas (initial assessment based on 2017 data total amount could be closer to 1,200)
 - 2) Compliance timeline will be 10 years after implementation date of the new MS4 Permit



Trash capturing device for catch basin. (Approx. 1,200 to be installed in the City of Corona)

QUESTIONS?





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