



# Stormwater Management Program Plan

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Stormwater Program Development Section

## Special Thanks

- Cliff Lawson - Deputy Director
- Mike Simmons, Cricket VonJames, Mickie Reid – Environmental Division
- Tyler Thew – Hydraulics Division
- Andrew Dixon and Peter Lassaline (Nevada Division of Environmental Protection - Bureau of Water Pollution Control)

## Regulatory

- The Nevada Division of Environmental Protection (NDEP) issued Municipal Separate Storm Sewer Systems (MS4) Permit NV0023329 (Permit) to NDOT on August 18, 2018
- The Permit is issued under the Clean Water Act's National Pollutant Discharge Elimination System program
  - Unauthorized to discharge a pollutant from a point source without a permit

# Regulatory

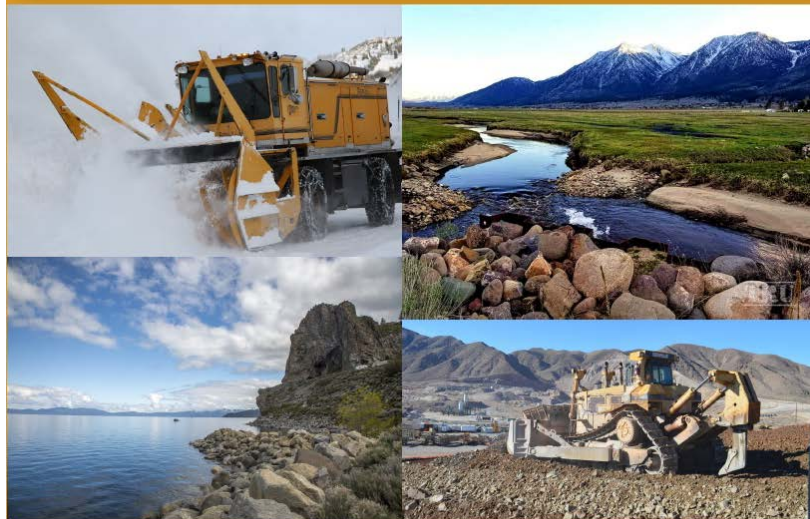
- The Permit authorizes NDOT to discharge stormwater (and select non-stormwater discharges) from its MS4 into Waters of the U.S.
  - Requires the development and implementation of a NDEP approved Stormwater Management Program (SWMP)





## Stormwater Management Program Plan

- Revised/updated SWMP Plan reflects programmatic changes to address new Permit requirements and changes in NDOT's day-to-day operations for meeting Permit compliance



# Stormwater Management Program Plan

- NDOT’s “game plan” for implementing control measures to mitigate potential stormwater pollutant discharges and ultimately address Permit compliance
  - Maintenance operations and facilities
  - Construction activities
  - Roadway facilities

# Stormwater Management Program Plan

- Regulations and authorized discharges
- Program administration
- Programmatic elements (i.e. best management practices (bmps))
- Water quality monitoring (as referenced in NDOT's Stormwater Monitoring Plan)
- Programmatic measurable goals

# Program Administration



- Environmental Division oversees SWMP development and implementation
- Implementation support from other NDOT Divisions and the three Districts



# Programmatic Elements



## *Legal Authority*

- Controlling discharges entering NDOT's storm sewer system (e.g. NRS 408)
- Contract requirements and occupancy permit terms and conditions

# Programmatic Elements



## *Stormwater Education*

- A suite of discipline-specific training courses
- Employee and contractor training

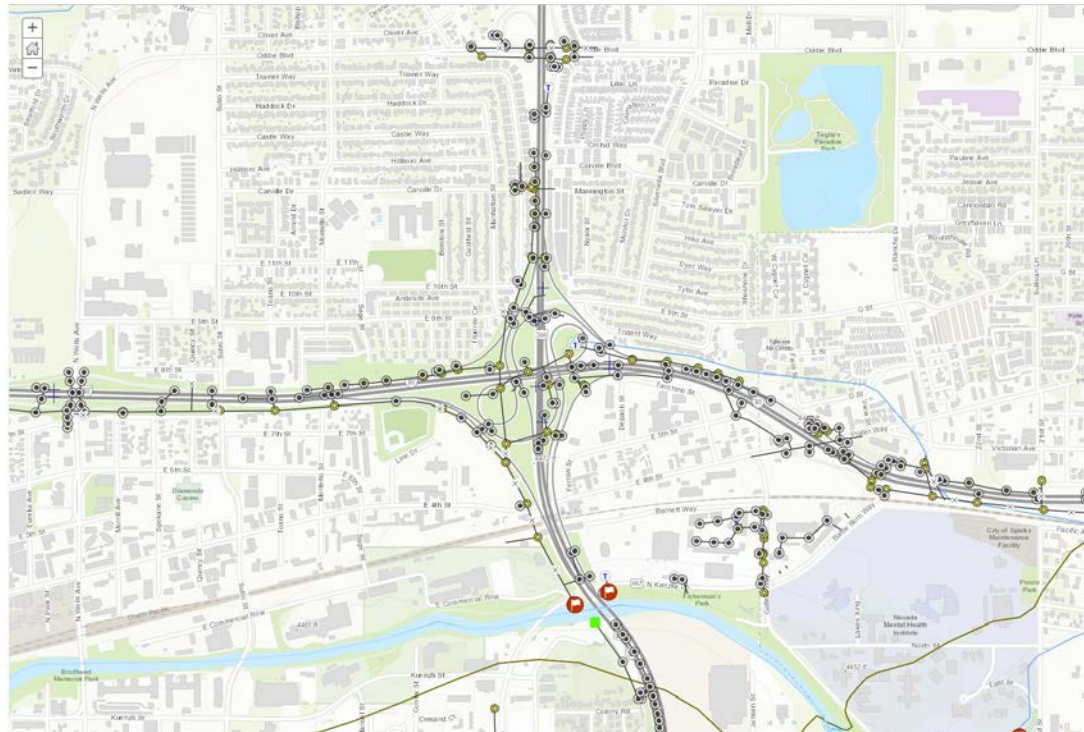
# Program Elements



## *Public Involvement and Participation*

- Love NV Waters Outreach campaign
- Outreach and education events
- Website and social media
- Public litter removal programs
- Partnerships and affiliations

# Program Elements



## *Maps and Outfalls*

- Mapping storm sewer system infrastructure in a GIS platform
- Using the information for SWMP implementation and enhancement

# Program Elements



## *Discharges to Water Quality Impaired Waters*

- Reducing impacts to impaired waterways through source control and other mitigation measures.

# Program Elements



## *Construction Site BMPs*

- Implementation of pollution control measures during construction
  - Guidance documents
  - Contract specifications
  - Site Inspections

# Program Elements



## *New Development and Redevelopment Planning*

- Implementation of permanent, i.e. post-construction, pollution control measures
  - Design staff
  - Guidance documents

# Program Elements



## *Illicit Discharge Detection and Elimination*

- Identifying and eliminating unauthorized discharges
  - Routine storm sewer inspections
  - Reporting, tracking, and enforcement
  - Guidance documents
  - Spill reporting



# Program Elements



## *Industrial Facility Monitoring and Control*

- Identifying and controlling industrial stormwater discharges
  - Routine monitoring
  - Reporting, tracking, and enforcement

# Program Elements



## *Non-Metallic Mineral Mining and Dressing Facilities*

- Implementing pollution control measures at material source sites
  - Routine inspections
  - Guidance documents

# Program Elements



## *Maintenance Facilities*

- Implementing pollution control measures at Maintenance Facilities
  - Routine inspections
  - Guidance documents
  - Facility improvements

# Program Elements



## *Public Street Maintenance*

- Routine activities
  - Storm sewer system inspection and maintenance
  - Street sweeping
  - Snow and ice control
  - Slope stabilization

# Program Elements



## *Pesticide & Fertilizer Application*

- Applicator training and certification
- Guidance documents

# Program Elements




## *Discharges to Sanitary Sewer Systems*

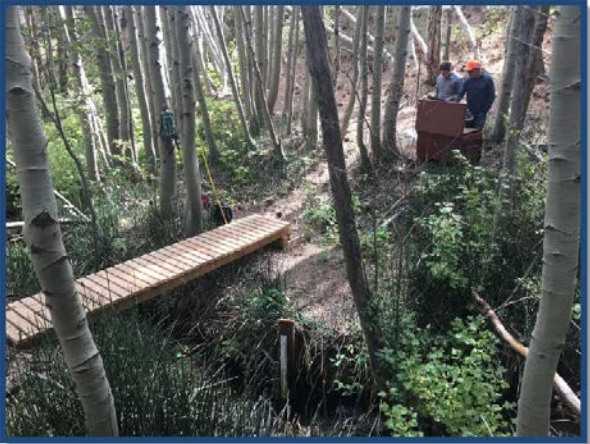
- Authorization from appropriate treatment works

# Water Quality Monitoring


Nevada Department  
of Transportation



NPDES Permit NV0023329 Stormwater  
Monitoring Plan, 2019 through 2024



June 2019



LOVE  
NV  
WATERS  
NDOT STORMWATER PROGRAM

- Stormwater Monitoring Plan
  - Approved by NDEP June 20, 2019
  - Stormwater runoff characterization
  - BMP effectiveness
  - Receiving water quality
- Partnerships

# Programmatic Measurable Goals



- Established for every programmatic BMP
- Serve as “benchmarks” for assessing SWMP implementation
  - Accomplishments
  - Areas requiring enhancement



## Contact Information



Feel free to submit questions  
and comments to:

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Thank You!