



NDOT STORMWATER PROGRAM UPDATE

*Transportation Board
February 11, 2019*

Cliff Lawson, P.E., Stormwater Division Chief

***“Promote stormwater stewardship as an
essential element of all NDOT operations.”***





Municipal Separate Storm Sewer System (MS4)

Clean Water Act (1990)

Municipal Separate Storm Sewer Systems (MS4s)

Phase I

Large MS4s
(> 100,000 Population)

- Las Vegas Valley/NDOT - 1997, 2003
- Truckee Meadows/NDOT - 2000
- NDOT - 2004, 2010, 2014, 2018

No Medium MS4s

Phase II

Small MS4s
(> 10,000 Population &
1,000 people/mile²)

Carson City
Indian Hills GID
Johnson Lane Area
City of Elko
Nellis AFB
Coyote Springs

Industrial Activities

I - Effluent Limitations

II - SIC Codes

III - Mineral Activities

IV - Hazardous Waste

V - Landfills

VI - Recycling

VII - Steam Electric Plants

VIII - Transportation

IX - Treatment Works
> 1 MGD

X - Construction
> 5 Acres - Phase I
> 1 Acre - Phase II

XI - Light Industry

Metallic Mining

Aggregate Mining



Municipal Separate Storm Sewer System (MS4)

National Map of Regulated MS4s



Phase I MS4s

The 1990 Phase I regulation requires medium and large cities or certain counties with populations of 100,000 or more to obtain NPDES permit coverage for their stormwater discharges.

There are approximately 855 Phase I MS4s covered by 250 Individual Permits

Phase II MS4s

The 1999 Phase II regulation requires small MS4s in U.S. Census Bureau defined urbanized areas, as well as MS4s designated by the permitting authority, to obtain NPDES permit coverage for their stormwater discharges. Phase II also includes non-traditional MS4s such as public universities, departments of transportation, hospitals and prisons.

Most of the 6,695 Phase II MS4s are covered by statewide General Permits, however some states use individual permits. There are three Watershed Permits that cover 3 Phase I and 40 Phase II MS4s.



Background

- 2011 - EPA audit of NDOT's Stormwater Program
- 2014 - Negotiated settlement terms with EPA for alleged Clean Water Act violations (Consent Decree)
- 2015 - Budget amendment approved & Senate Bill 324
 - ✓ *Resources and authority provided to NDOT to build the Stormwater Program*





NRS 408.439 Advisory Committee of Transportational Storm Water Management (ACTCWM) (Effective through June 30, 2021):

1. The Advisory Committee on Transportational Storm Water Management is hereby created.

Advisory Committee members

- Associated General Contractors of America;
- Conservation and Natural Resources;
- Department of Transportation;
- Division of Environmental Protection (Chair); and,
- One member who represents the public and who has expertise in a field that is relevant to the storm water program.





Advisory Committee of Transportational Storm Water Management (ACTSWM):

NRS 408.439 Advisory Committee of Transportational Storm Water Management (ACTSWM)

...

10. Not less frequently than once each calendar quarter, the Advisory Committee shall report to the Department of Transportation regarding matters to include, without limitation:

- (a) The activities of the Advisory Committee; and
- (b) The implementation and efficacy of the storm water program.

11. Not less frequently than once each calendar quarter, the Department of Transportation shall report to the Interim Finance Committee regarding matters to include, without limitation:

- (a) The activities of the Advisory Committee; and
- (b) The implementation and efficacy of the stormwater program.





Advisory Committee of Transportational Storm Water Management (ACTSWM):

NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

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Land **Water** Air Environmental Cleanup About

Start Your Search

WATER > ADVISORY COMMITTEE ON TRANSPORTATIONAL STORM WATER MANAGEMENT

Advisory Committee on Transportational Storm Water Management

ABOUT THE COMMITTEE:

The Advisory Committee on Transportational Storm Water Management was created in 2015 by the Nevada State Legislature as part of Senate Bill 324 and codified at Nevada Revised Statutes Chapter 408.439. The Committee works cooperatively with the Nevada Division of Environmental Protection (NDEP) to monitor the status and efficacy of the Nevada Department of Transportation's storm water program, and ensure its sound implementation and functioning.

- Rivers, Streams, and Lakes
- Drinking Water
- Water Pollution Control
- Operator Certification
- Infrastructure Financing
- Laboratory Certification Program
- [Advisory Committee on Transportational Storm Water Management](#)
- Source Water Protection
- GIS Map Resources

NDOT continues to evaluate program staffing to ensure compliance with the Clean Water Act and the requirements of the MS4 permit issued to NDOT to avoid future compliance or enforcement action.





MISSION

Promote stormwater stewardships as an essential element of all
NDOT operations






STORMWATER PROGRAM


Protecting Nevada's Waters

Strategic Plan

Stormwater Division
Fiscal Year 2019 through Fiscal 2023
Strategic Plan



Clifford M. Lawson, P.E.
Chief, Stormwater Division
Nevada Department of Transportation



Governor, Steve Sisolak
Director, Rudy Malfabon, P.E., - Nevada Department of Transportation,

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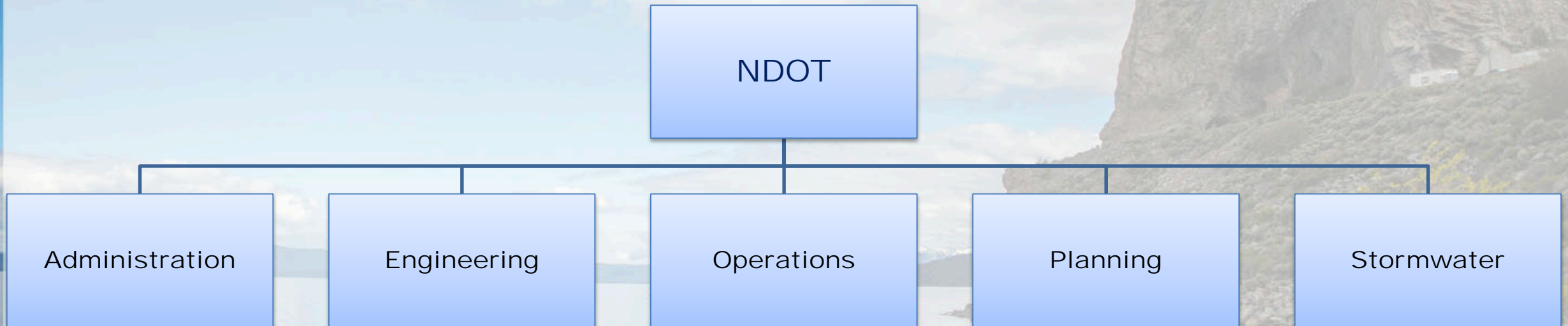
A roadmap describing our history, our current structure, program achievements, and strategic goals and plans for a successful future.





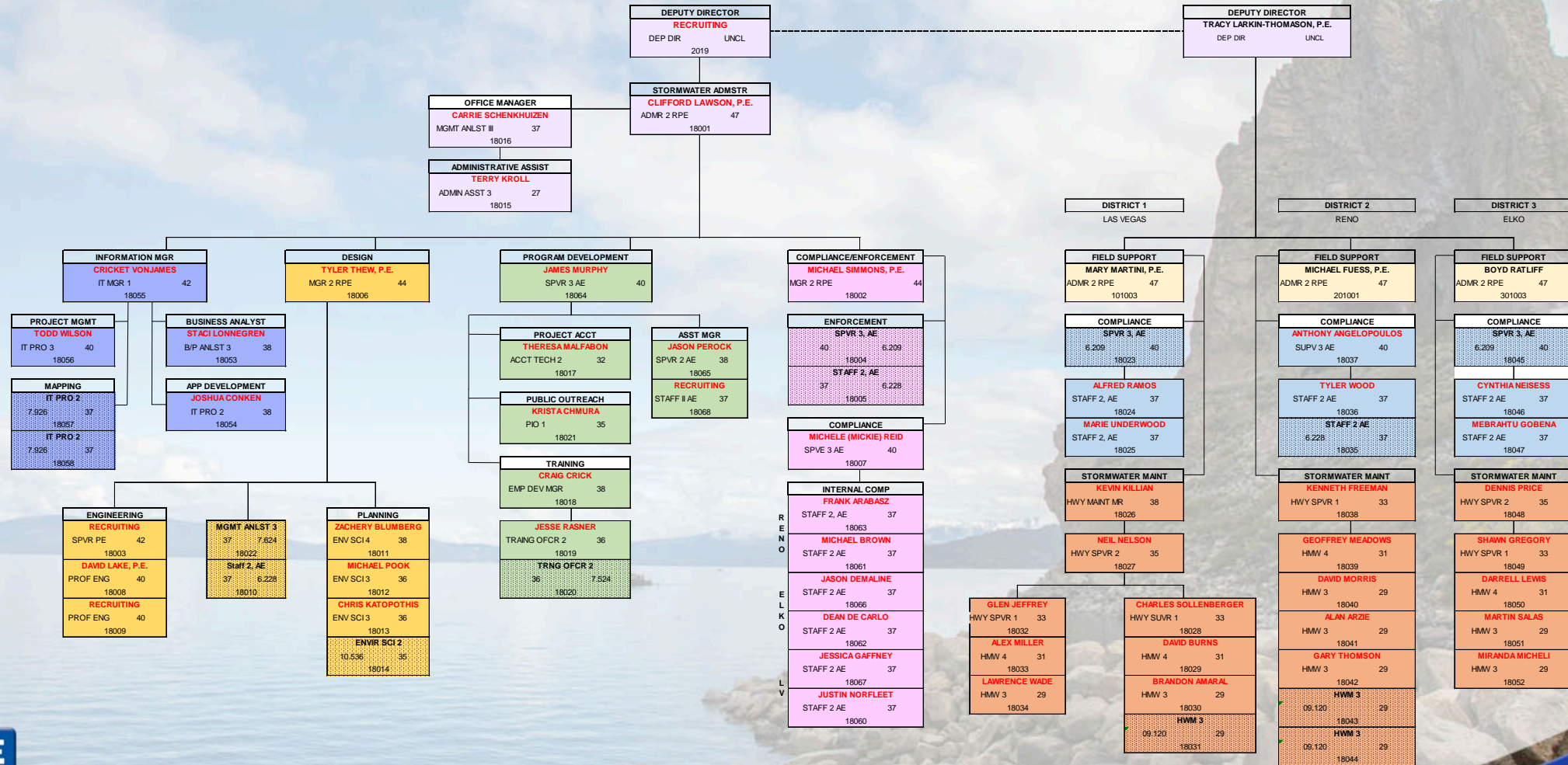
PROGRAM UPDATE

Stormwater is automated and integrated in all elements of NDOT operations



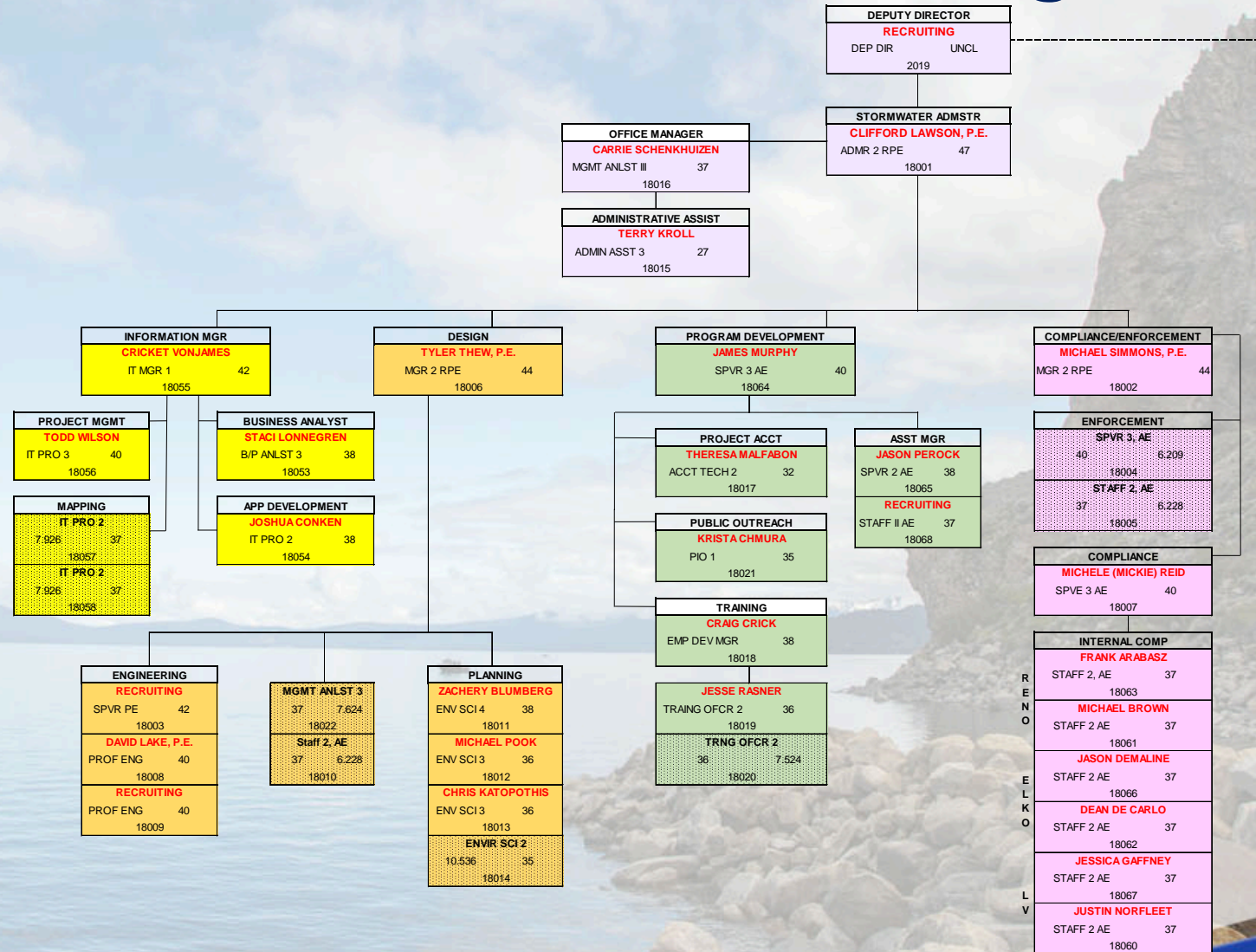


Stormwater Division Org Chart



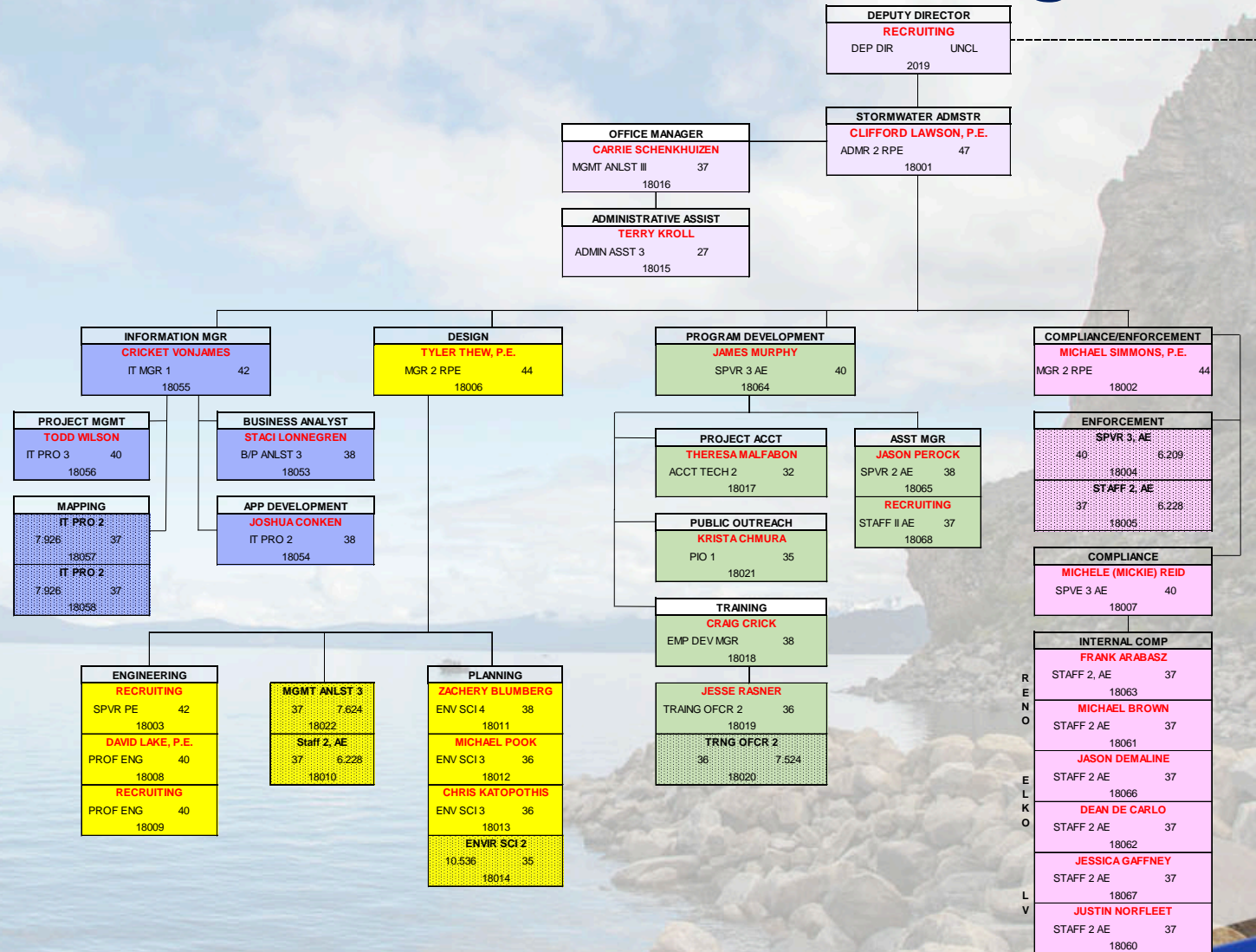


Stormwater Division Org Chart



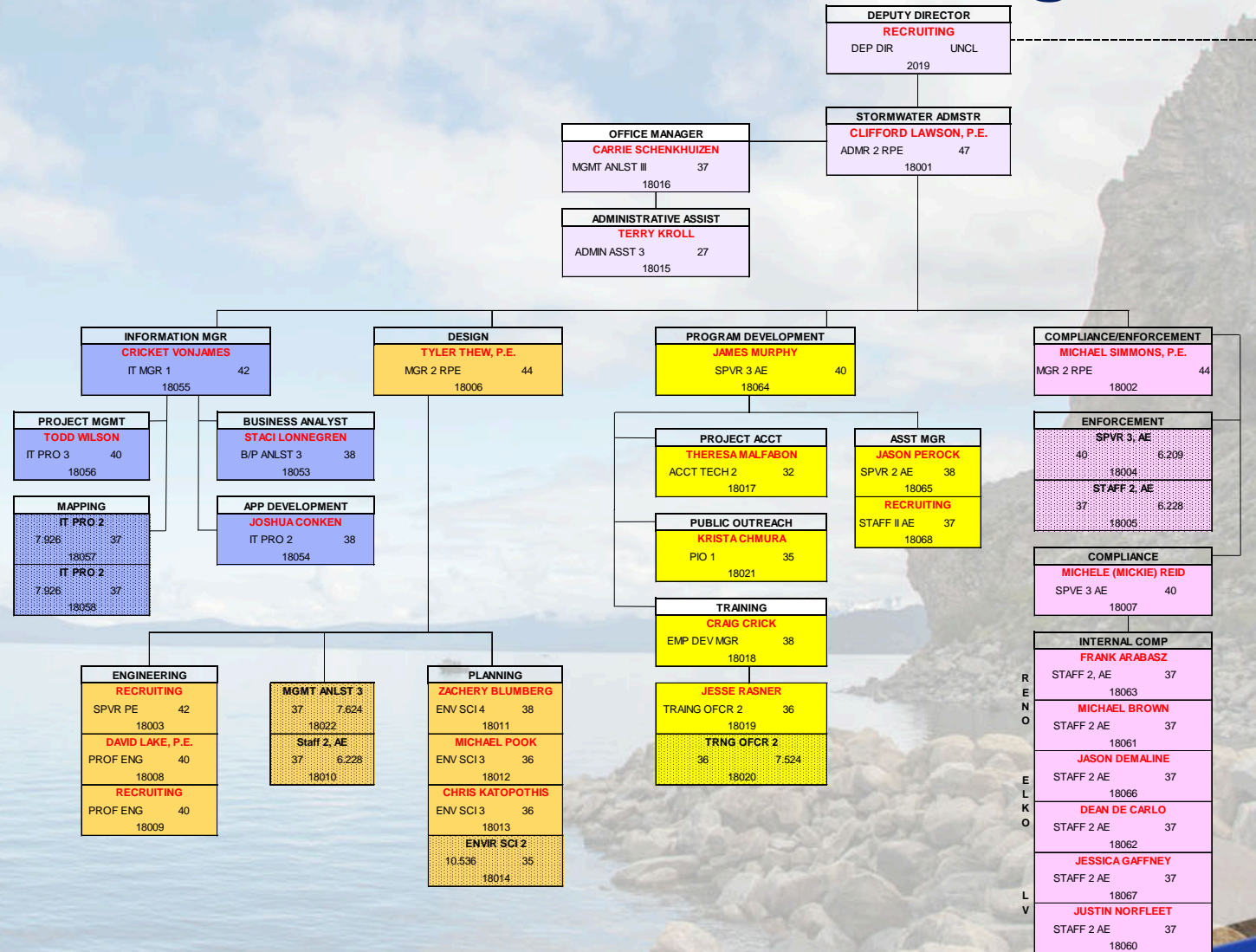


Stormwater Division Org Chart



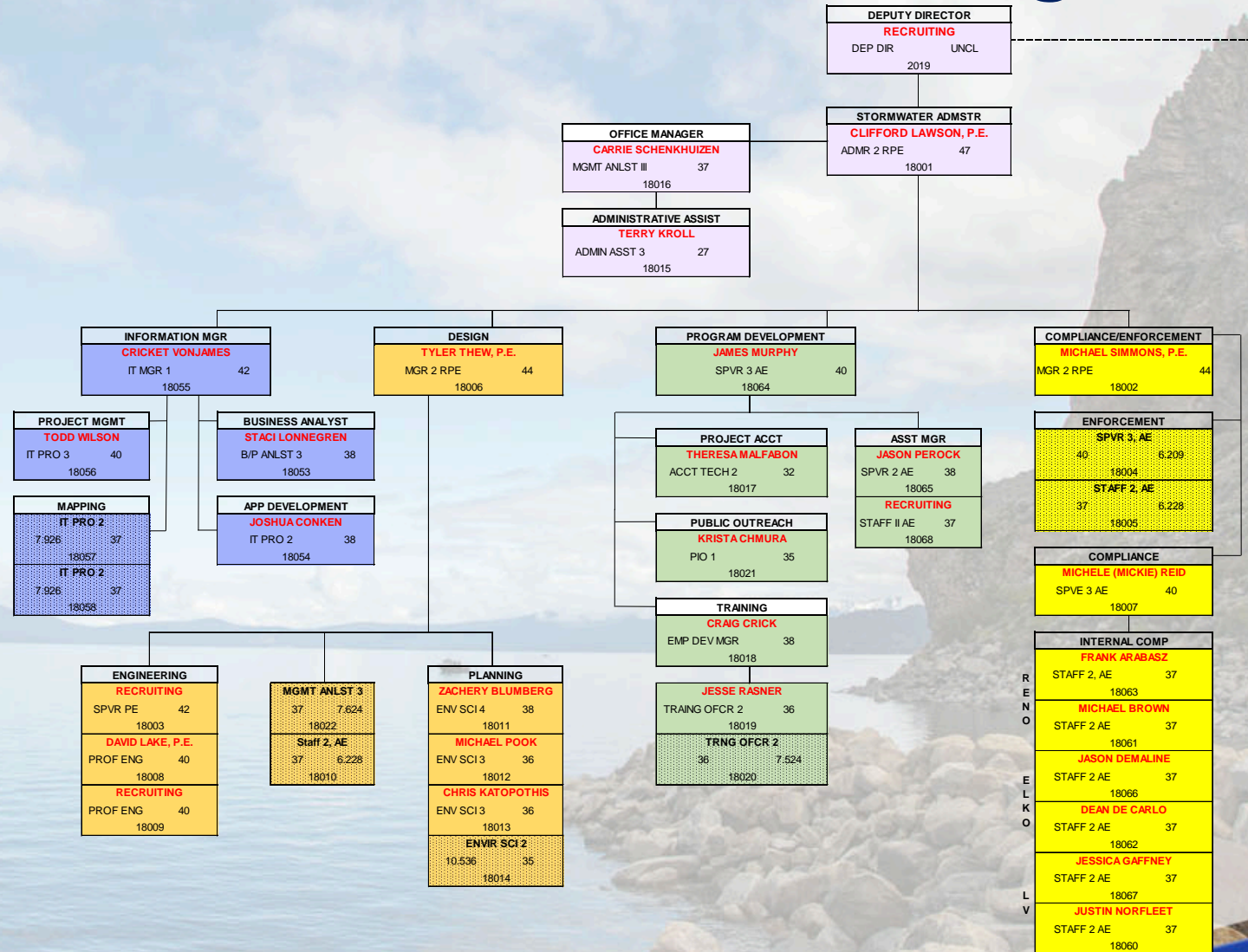


Stormwater Division Org Chart





Stormwater Division Org Chart





Consent Decree

- July 2016 - Consent Decree finalized
 - ✓ *Stipulated Penalties for missing deadlines in the CD*
- June 2018 – NDOT completes all components of the Consent Decree
 - ✓ *NDOT met or exceeded all requirements and deadlines*
- June 2018 – NDOT requested early termination of the Consent Decree
- July 2018 – EPA and NDEP approved the early termination request!





Consent Decree

- September 2018 – Court approves termination of the Consent Decree!
 - ✓ *NDOT met or exceeded all requirements and deadlines*
 - ✓ *No other stormwater fines or penalties levied against NDOT nor is NDOT aware of any future fines or penalties that may be levied.*
 - ✓ *No outstanding activities or tasks that NDOT must complete to avoid future penalties*
 - ✓ *No outstanding legislative or regulatory changes needed for NDOT's Stormwater Program*





NDOT 2018 MS4 PERMIT

- Municipal Separate Storm Sewer Systems Permit (MS4) issued
 - ✓ August 10, 2018
- Revised Water Quality Monitoring Plan
 - February 10, 2019
- Draft Stormwater Management Plan (SWMP)
 - August 10, 2019
- Annual Report
 - November 1, 20XX



Permit Type: Municipal Separate Storm Sewer Systems

Permit No. NV0023329

Nevada Division of Environmental Protection

AUTHORIZATION TO DISCHARGE

In compliance with the provisions of the Clean Water Act, as amended, 33 U.S.C. 1251 et. seq. (CWA), and Chapter 445A of the Nevada Revised Statutes (NRS),

NEVADA DEPARTMENT OF TRANSPORTATION
1263 S. STEWART STREET
CARSON CITY, NV - 89712

is authorized to discharge from a facility located at:

NEVADA DEPARTMENT OF TRANSPORTATION MUNICIPAL SEPARATE STORM
SEWER SYSTEM
STATEWIDE, -, NV --
LATITUDE: 39.168790, LONGITUDE: -119.7684
TOWNSHIP: T15N, RANGE: R20E, SECTION: S20

to receiving waters named:


WATERS OF THE UNITED STATES.

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Sections A, B, and C hereof.

This permit shall become effective on August 10, 2018.

This permit and the authorization to discharge shall expire at midnight, August 09, 2023.

Signed this 10th day of August 2018,

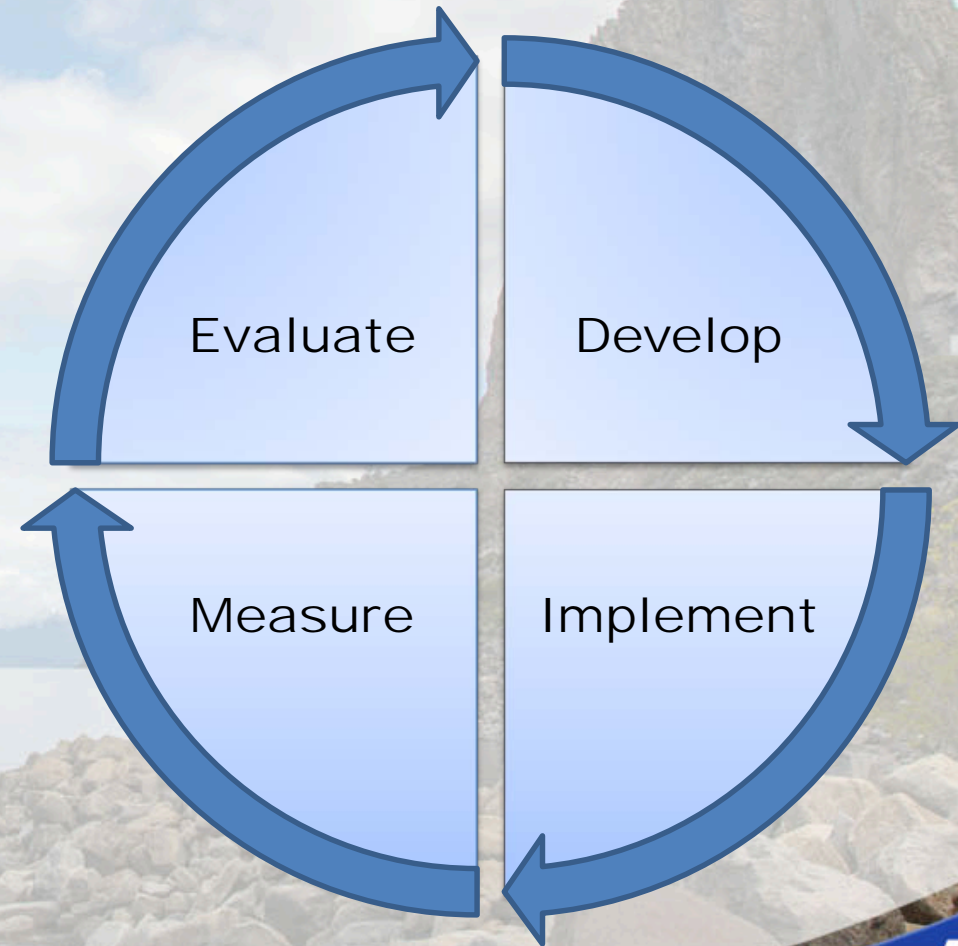

Andrew Dixon
Stormwater Supervisor
Bureau of Water Pollution Control



NDOT 2018 MS4 PERMIT

SWMP Requirements:

- ✓ Demonstrate that NDOT maintains the legal authority to implement and enforce the Stormwater Program
- ✓ Continue to develop, revise and implement the following program elements
 - NDOT Internal Education Program
 - Public Involvement/Participation Program
 - Construction Site BMP Program
 - Illicit Discharge Detection and Elimination (IDDE) Program
 - New development and Redevelopment Planning Program
 - Industrial Facility Monitoring and Control Program
 - Maintenance Facility Program
 - Public Street Maintenance Program
 - Herbicide, Pesticide and Fertilizer Application Program
- ✓ Continue to develop, revise, and implement a GIS system for the mapping of stormwater outfalls
- ✓ Continue to evaluate discharges to waters of the U.S. on the 303(d) list
- ✓ Comply with the Lake Tahoe Total Maximum Daily Load (TMDL) limitations





Nevada Water Innovation Institute

- As a charter member of the Nevada Water Innovation Institute, NDOT is engaged in a collaborative effort to develop and implement innovative and integrated water solutions for the region's needs, and to demonstrate national leadership in the water sector.
- Benefits include shared training, resources and expertise for practical and effective solutions to real-world challenges.
- Nevada Water Environment Association (NWEA) 2019 Annual Conference - Partnering for Impact Forum - Workforce Development





Preserve and Protect



*Clean Water
for*



*Future
Generations*



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