

# WATER STRATEGY

## ALBERTA REGION

**Oct 22, 2019**



Indigenous Services  
Canada

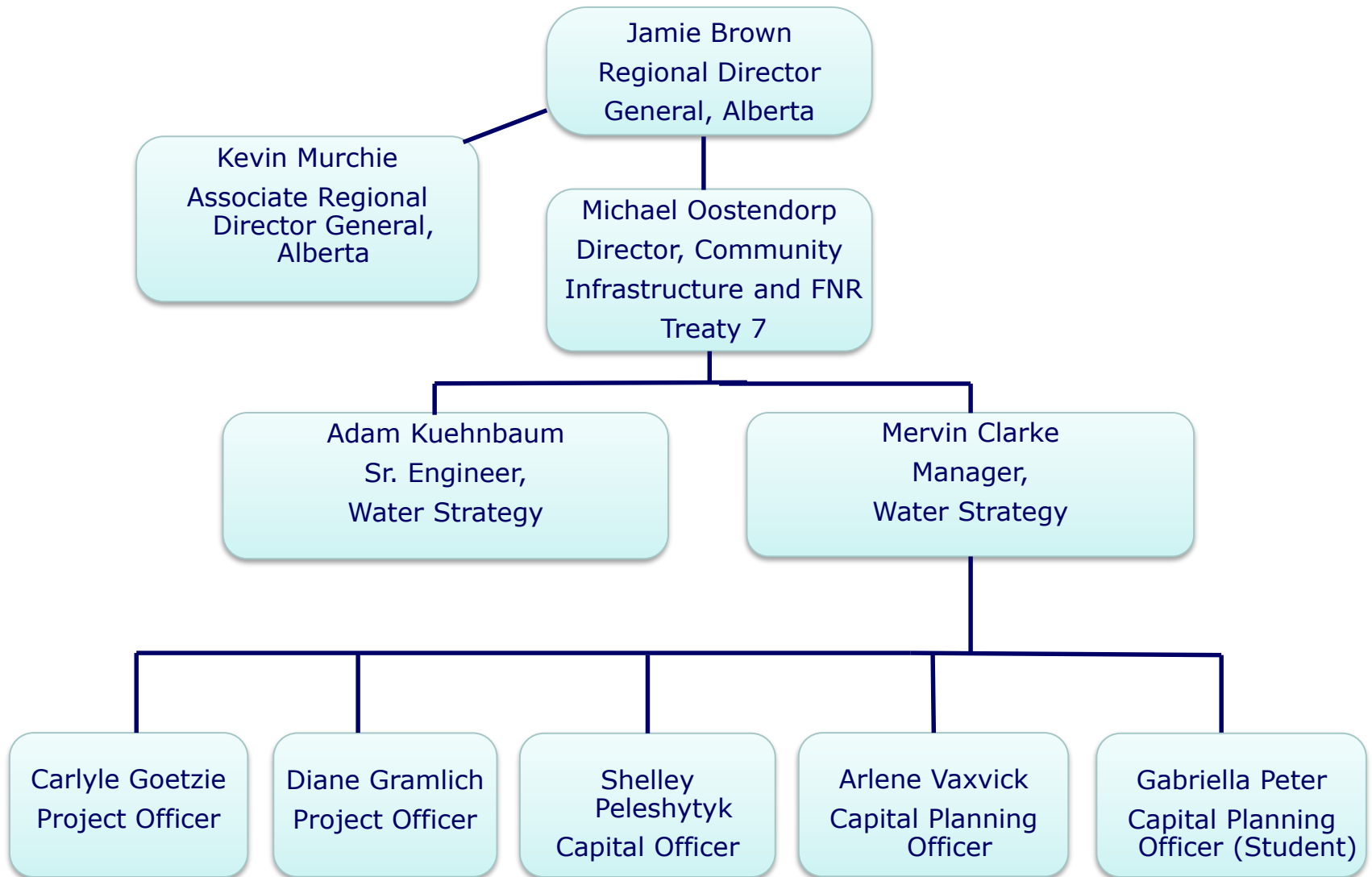
Services aux  
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# Overview

- Organizational Structure
- Annual Performance Inspections (API's) - Water and Wastewater Systems
- Risk Levels – Water
- Risk Levels - Wastewater
- Previous Fiscal Year Projects – 2017/18, 2018/19
- Current Fiscal Year Projects – 2019/20
- FNWWEF Deliverables
- AB Region Water Initiatives
- Drinking Water Advisory Statistics
- Water Strategy Unit – Next Steps
- Contact Info

# Water Strategy Unit - Organizational Structure



# Annual Performance Inspections (API's) Water and Wastewater Systems

## Background:

- Initial National Assessment completed by Neegan Burnside in 2009/10 & 2010/11
  - Program mandated to complete on an annual basis
  - To be completed by a 3<sup>rd</sup> party
- API's are now completed by FNTSAG (since 2011/2012)
  
- API identifies risks associated with the system
  - Water:
    - Source -10%
    - Design - 30%
    - Operations - 30%
    - Reporting - 10%
    - Operators - 20%
  - Wastewater:
    - Effluent Receiver - 20%
    - Design – 25%
    - Operations – 25%
    - Reporting – 10%
    - Operators – 20%
  
- Overall risk score and Component scores are assigned to each system

# Annual Performance Inspections (API's) Water and Wastewater Systems (Cont'd)

- API Outcome

- Data utilized in Capital planning process
  - Goal - Mitigate High / Med Risk systems to Low Risk
- Status: API's for FY 2019/20
  - Initiated - Apr 2019
  - Upload of inspections - completed Oct 2019
  - QA/QC Review with ISC and FNTSAG - completed Oct 2-4/2019
- Due date for ISC completion – Dec 31, 2019
  - ICMS database – systems set as completed
- API result letters
  - Sent annually to Chief and Council
  - Attention – Director / Manager Public Works / Water Wastewater Plant Manager & Operator
  - Letters to be mailed - Nov 2019

## National Priority Ranking Framework (NPRF):

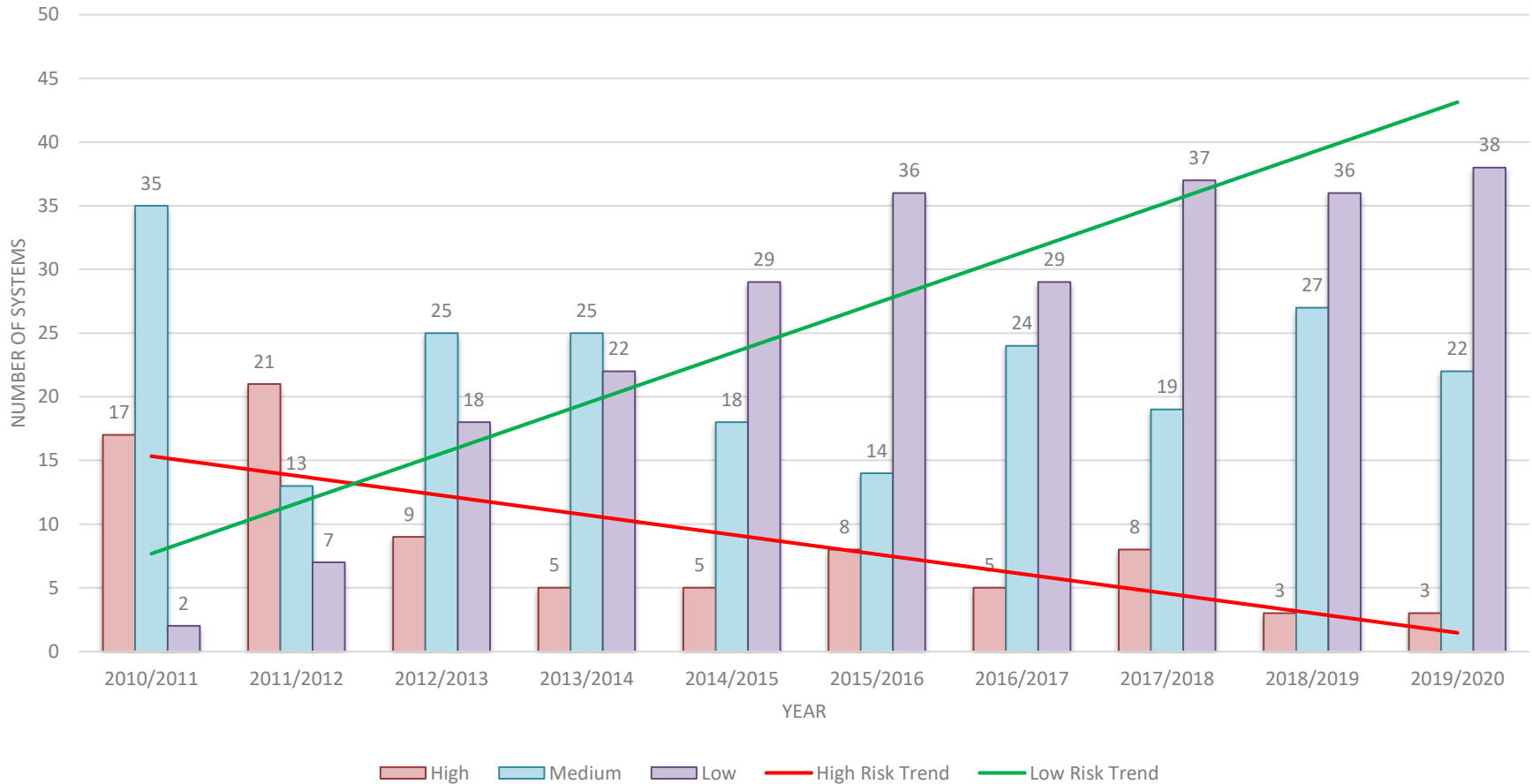
- Additional scoring to assist in the Capital planning process

## Water & Wastewater Priority Ranking Framework (W&WW PRF):

- 5 • Additional scoring to assist in the Capital planning process

# Water Risk Levels - Overall

## Water API Risk Levels by Year



**2019 / 2020**

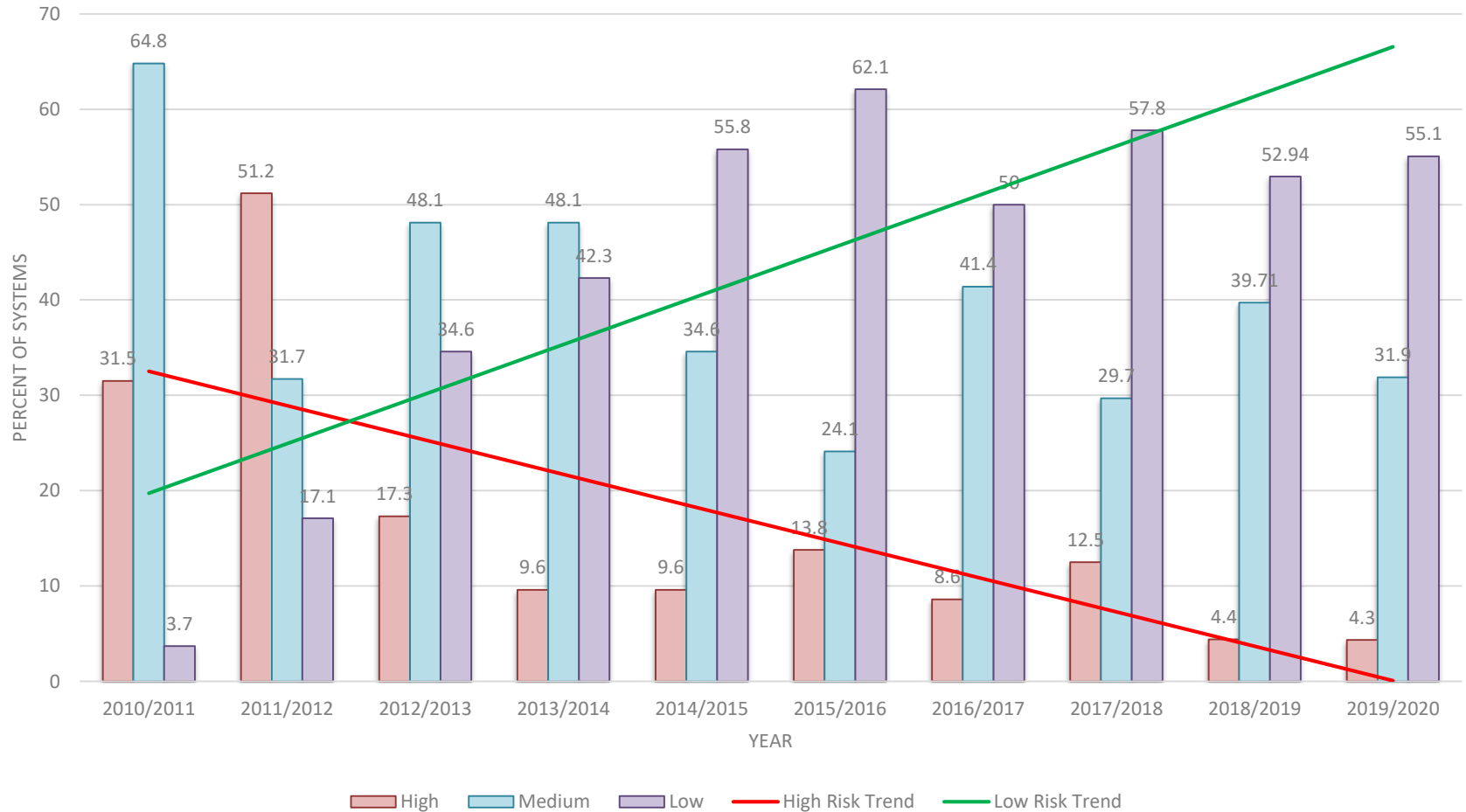
**3 High Risk Water Systems**

**22 Medium Risk Water Systems**

**38 Low Risk Water Systems**

# Water Risk Levels – Percentage 2010/11-2019/20

## Water API Risk Levels in Percent by Year



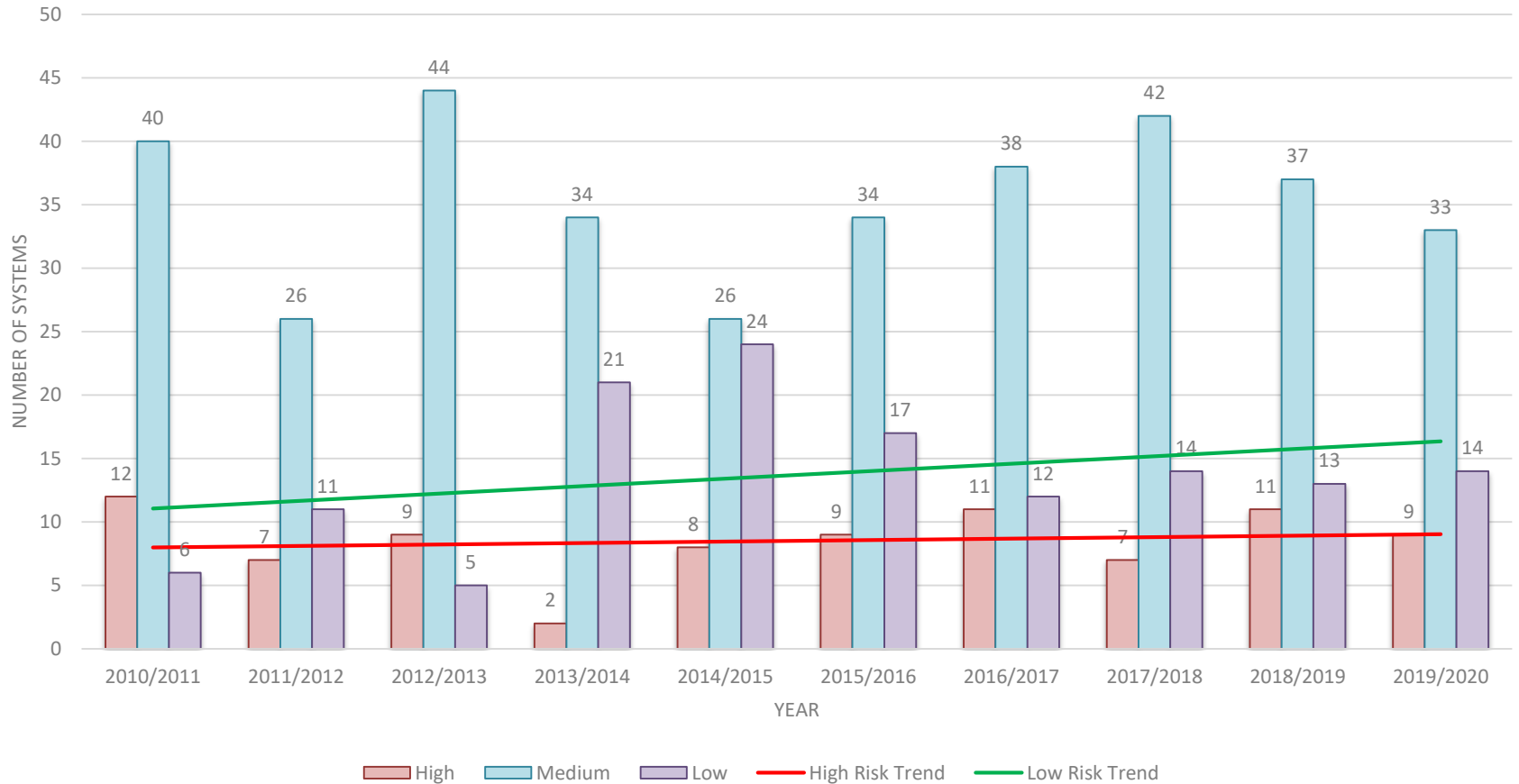
**55.1% at low risk as of 2019/2020**

**Compared to 3.7% in 2010/2011.**

**Significant progress has been made in the past 9 years.**

# Wastewater Risk Levels - Overall

## Wastewater API Risk Levels by Year

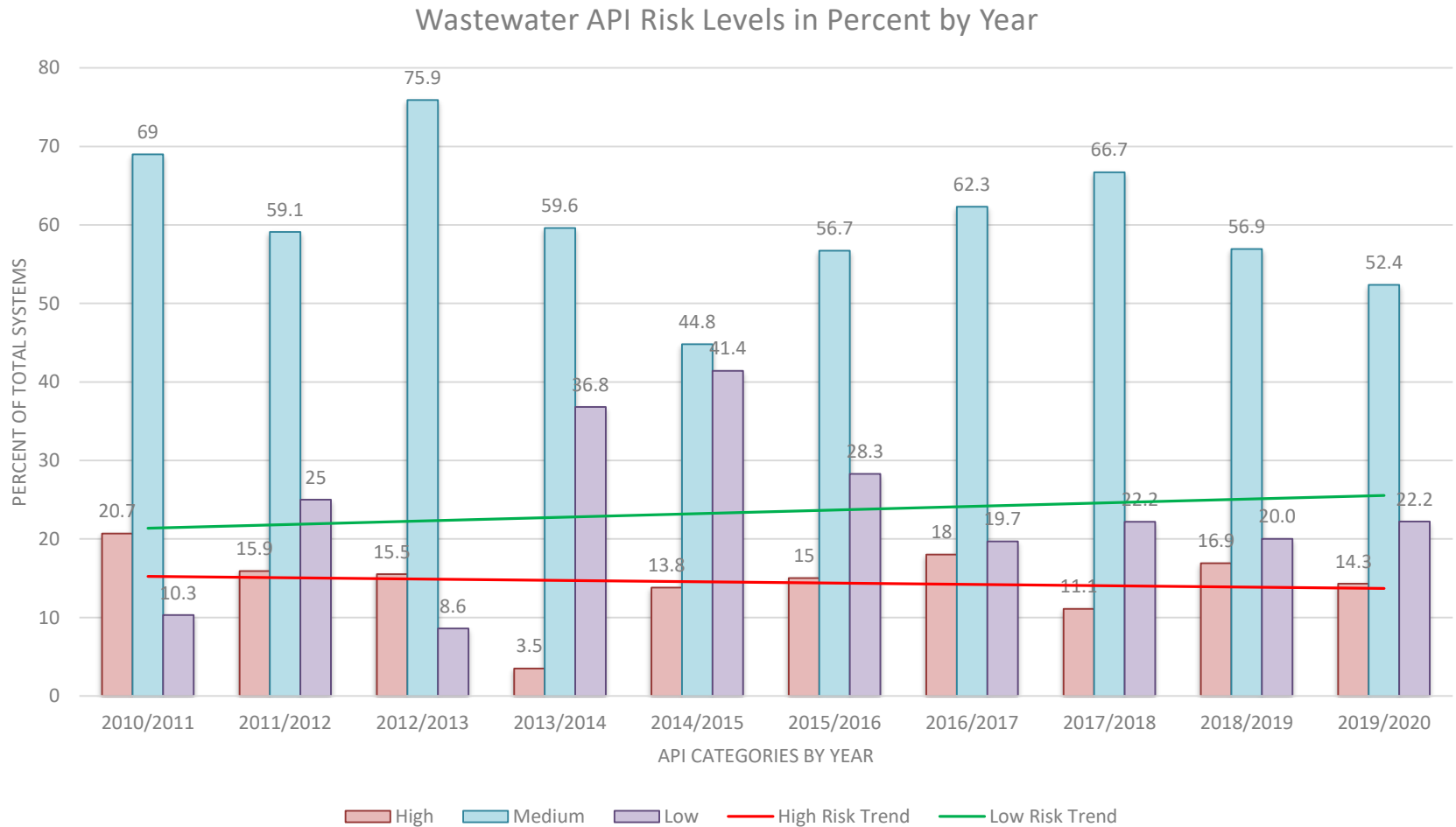


**2019/2020:**

**9 High Risk, 33 Medium Risk, 14 Low Risk**



# Wastewater Risk Levels – Percentage 2010/11 - 2019/20



**22.2%** at low risk as of 2019/2020 compared to **10.3%** at low risk in 2010/2011.

# Previous Fiscal Year Budget – 2017/2018

- FNWWEF - \$124,917,246
- FNWWEF O&M - \$1,192,246
- A-Base - \$2,426,090
  
- 29 Water Projects
- 15 Wastewater Projects
- 7 Other (i.e. O&M)
  
- TSAG
  - FNWWEF (\$1,982,635): Circuit Rider Training Program; Water Communications Strategy; and various DWA Action Plans
  - A-Base (\$662,000): Source Water Protection Plan; Remote Water Monitoring Systems.

# Previous Fiscal Year Budget - 2018/2019

- FNWWEP - \$84,252,753
- A-Base - \$4,001,500
- Water Projects
  - 11 are building new systems
- Wastewater Projects
  - 5 are building new systems
- 29 Other
  
- TSAG
  - Total \$2,333,945:
    - Circuit Rider Training Program
    - Water Communications Strategy
    - Various DWA Action Plans
    - Source Water Protection Plan
    - Remote Water Monitoring System.

# Current Fiscal Year Budget - 2019/2020

- FNWWEP - \$74,345,186
- A-Base - \$4,114,280
- Water & Wastewater Projects:
  - 36 projects commenced or continued from last year
    - 21 Water Projects
    - 11 Wastewater Projects
    - 4 Water/Wastewater Projects
    - 19 new systems
    - 17 additional projects (repairs, upgrades, studies)
- TSAG
  - Total: \$2,880,745
    - Circuit Rider Training Program
    - Water Communications Strategy
    - Source Water Protection Plan
    - Remote Water Monitoring System (S:Can)
- DWA
  - Various DWA Action Plans

# FNWWEF Deliverables

- Project Approval Requests (PAR's)
  - Authority to allocate funding
- Required for projects > \$5 Mil
  - >\$15 Mil
    - Requires ROSMC Approval
    - Chaired by SADM
    - All RDG's part of committee
  - <\$15 Mil
    - Requires RDG Approval
- Reporting
  - LT-DWA – Weekly National Teleconference with ISC RO & FNIH
    - Includes DWA's > 2 months
  - Quarterly Reporting on Business Plan
  - ICMS Updates

# AB Region Water Initiatives

## Technical Services Advisory Group (TSAG)

- Circuit Rider Training Program (CRTP) - provide training for Operators
- Remote Water Monitoring System - monitors potable water parameters
- Source Water Protection Plans (SWPP)
- Communications Strategy

## Classification of Water & Wastewater systems

- Completed in 2015/2016 fiscal year
- Direct Link to Operator training requirements and CRTP work plan
- Need to confirm classification of new systems

## Participation in Inter-Departmental Committee for Municipal Water and Wastewater (IDCMWW)

- Provincial Water for Life Program - funds regional water and wastewater systems

## Government of Alberta (GOA) – Alberta Environment & Parks (AEP)

- Previously partnered in Water Needs Assessments (WNA's) to identify total water needs / requirements in FN communities
- Treaty 7 Water sub-table

# AB Region Water Initiatives: (Cont'd)

## Government of Alberta (GOA) – Regional Water Tie-In Project

### Partnership with AB Indigenous Relations & AB Transportation

- Funding targeted to support a potable water supply to FN Boundaries
- ISC participates as team member
- GOA - \$100M / 4 Years, announced in Budget 17/18
  - 4 Year Workplan has been developed – extended to 6 years
- Opportunity driven
- Several projects underway in various stages

## Drinking Water Advisory (DWA) Working Group

- Initiated in 2010/2011
- Collaborative approach in rectifying DWA water issues
- Participants include: ISC, ISC FNIHB, TSAG
- Meetings held weekly to review ISC FNIHB report
- Discuss common issues to resolve past, current and outstanding DWA.
- Work collaboratively to development DWA Work Plans with the goal to mitigate ALL DWA's

# Drinking Water Advisory Statistics

- 2015/2016
  - Total posted during fiscal year: 36
  - Total rescinded during fiscal year: 46
- 2016/2017
  - Total posted during fiscal year: 66
  - Total rescinded during fiscal year: 68
- 2017/2018
  - Total posted during fiscal year: 55
  - Total rescinded during fiscal year: 56
- 2018/2019
  - Total posted during fiscal year: 85
  - Total rescinded during fiscal year: 85
- 2019/2020 (as of August, 2019)
  - Total posted to date: 30
  - Total rescinded to date: 21



# Drinking Water Advisory Statistics – Cont'd

## DWA Stats – Oct 21, 2019

- Total active advisories – 11
- Public – 3
- Semi Public – 8
  - Includes Gas Bars / Community Halls / Confectionary stores / Rodeo Grounds etc.
  - Unfunded by ISC – efforts being made on a case by case basis

## Long Term Drinking Water Advisory (LT-DWA)

- Kehewin Cree Nation
  - New WTP and Main Water Supply line
  - Construction underway
  - On track to eliminate the LT-DWA by mid 2020

# Water Strategy Unit - Next Steps

- Complete current FNWWEF Projects
- Complete API's for Fiscal Year 2018/2019
  - Target date – December 31, 2019
  - API Result Letters – Complete for Target date – Nov 2019
- Prioritize High / Medium Risk water and wastewater systems for Fiscal Year 2020 / 21
  - Complete Water & Wastewater Priority Ranking Framework's (PRF)
  - Priority focus on High/Medium Risk systems from API data
- Prepare Fiscal Year 2019/2020 Contractual Obligations
  - Following API/NPRF/W & WW PRF assessments
- Complete FNWWEF submissions to HQ for major projects >\$1.5 MIL for Fiscal Year 2020 / 2021

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Questions ?