

- ▶ Blind River Quarterly Meeting
  - January 17, 2018

# Water Treatment Activity (since the last meeting)

- Monthly equipment inspections completed at WTP and wells
- Completed monthly PM's for analyzer and turbidimeter calibrations, well inspections, equipment checks, generator exercises, and alarm testing
- Annual inspection/ maintenance performed for rapid mixer, floc mixers and motors, GAC/BW pumps, HLP's
- Annual Calibrations completed on all WTP flow meters
- Installed new chemical metering pump for fluoride
- Ordered new chemical tank for potassium hydroxide
- Quarterly samples collected
- AWQI reported (failure to monitor filter turbidity) – instrument in hold after maintenance
- Annual MOECC inspection report received Sept 29 – two non-conformances were identified:
  1. Records indicated that equipment was not operated in a manner that achieved design capabilities
  2. All required notifications of adverse water quality incidents were not immediately provided

## Water Treatment Activity (since the last meeting)

- Completed monthly health and safety inspections for the Blind River facilities
- Completed jar testing to assess raw water changes and optimize dosage rates for coagulant and polymer
- Contacted chemical supplier regarding poor product quality and organic removal
- Completed a preliminary inspection of Dual Media filters, obtained stored media to top up filters

## Distribution Activity (since the last meeting)

- Wishart Street Construction Project completed
- Hydrant flow testing completed (Watermark Solutions)
- Valve exercising completed in Forest Glen and Huron Estates
- Low pressure complaint investigated for Mary Place residents
- Two water main breaks Laborne/ Causley (Oct 31), Youngfox/ Indiana (Jan 3) Both events were Category 1, no notifications required
- New round for Lead sampling (Dec 15 – Apr 15) looking for volunteers. Last round - 24 residential samples collected – zero exceedances (1 distribution AWQI)

# DWQMS

- Sept 20 - Completed internal audit (4 minor non-conformances were identified as well as 7 OFI's)
  - Oct 19 - Infrastructure reviews completed
  - Dec 6 - SAI Global conducted external audit – Zero non-conformances
  - Dec 13/14 - Emergency Testing - reviewed past five years of AWQI's discussed escalations to level 3
  - Dec 19 – Conducted Management Review
- need to schedule Annual DWQMS Report to Owner and 2017 Annual & Summary Report presentation

# WasteWater Activity (since the last meeting) ...

- Monthly equipment inspections performed at WPCP and lift stations
- Annual WW flow calibrations completed
- Continued sludge hauling (ABT and Four Seasons) to remove waste solids
- October 26 - MOECC WWTP Inspection (Scott Steeves), PUC completed sampling survey, no final report received to date
- 21” sewer plug was purchased for contingency (after construction)
- Verbatim auto-dialer ordered to better manage alarm inputs (not received)
- Completed pump installation at Nadon PS
- Bell repaired failed phone line at Dawsey PS
- Boiler issues ongoing – Topline investigating
- Wastewater aeration and UV upgrade project (North American Construction)
  - Dec 20 - Commissioning of aeration with Napier Reid
  - Dec 21 – Commissioning of Pumps with Flygt (Xylem)
- Nadon PS bar screen cleaned

# Call-out Events (since the last meeting)

## Sept 2017 (after Sept 20)

Water Treatment (2) alarm events

- High filter turbidity alarms

## October 2017

Water Treatment (2) alarm events

- Low chlorine, high filter turbidity

Wastewater Treatment (1) alarm events

- High level wet well alarm

## November 2017

Wastewater Treatment (1) callout event

- High level wet well alarm

## December 2017

Water Treatment (3) callouts events

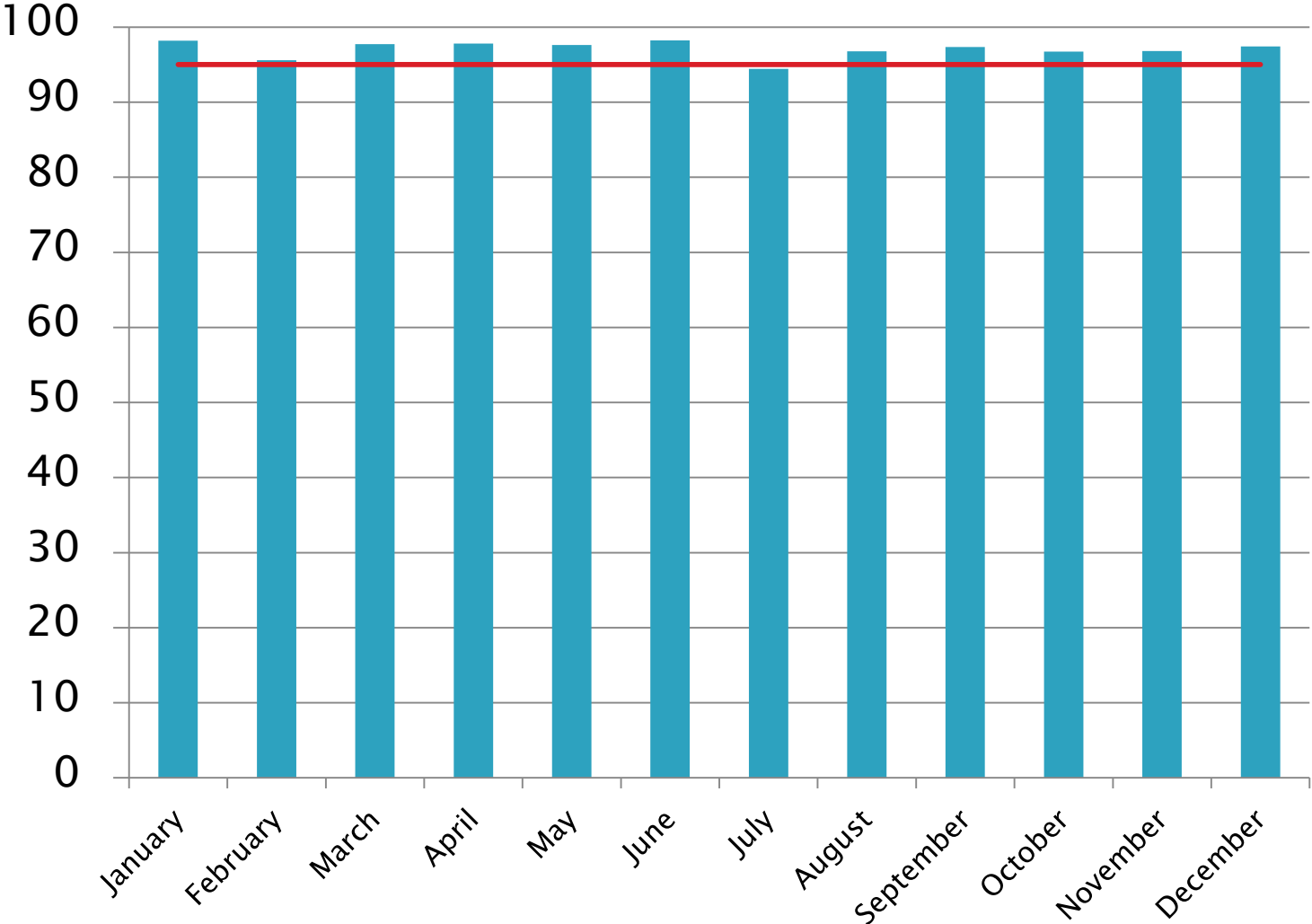
- Low chlorine alarm
- Investigate leak at residence service water shut off
- Turbidimeter maintenance

## January 2018

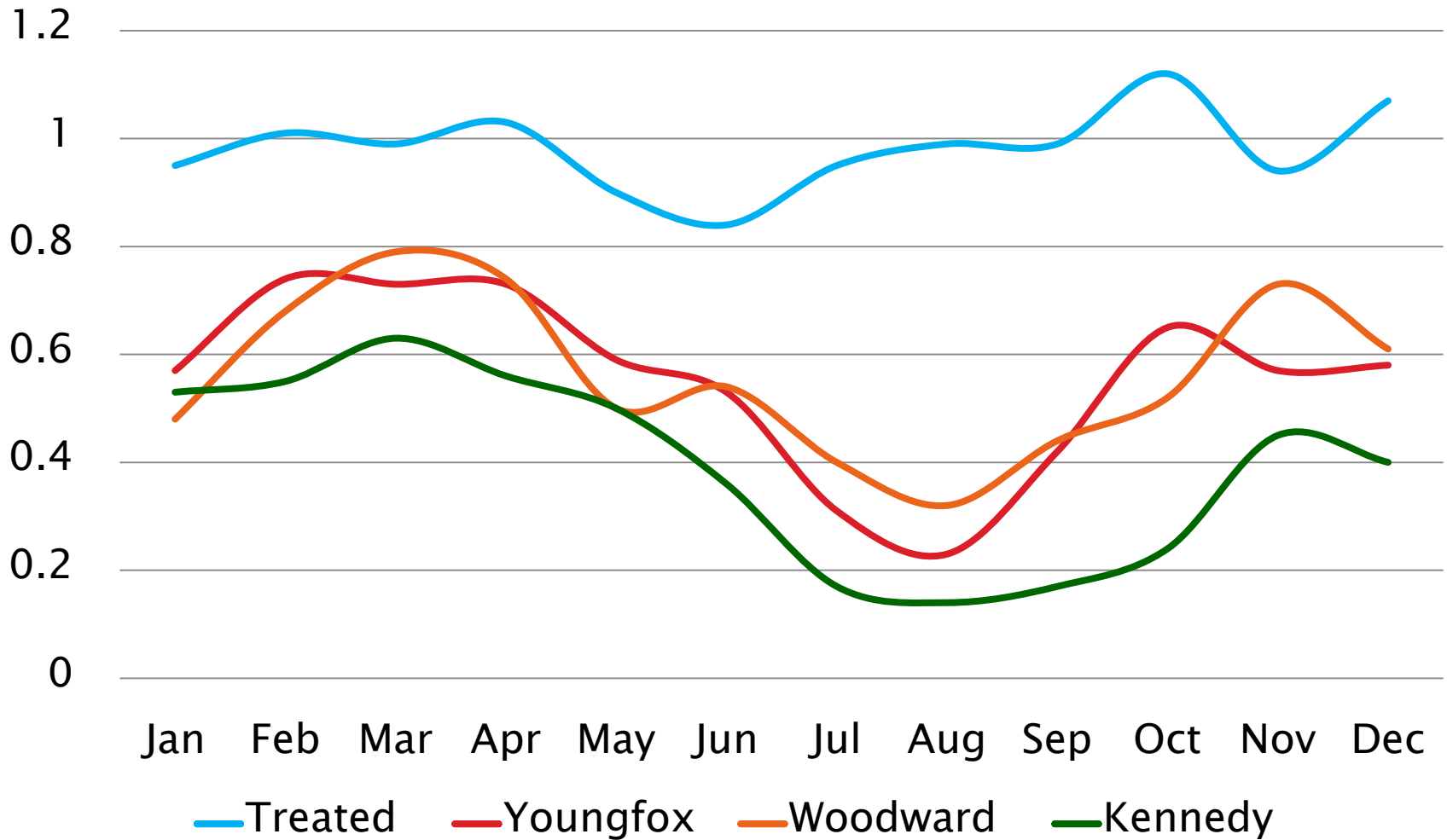
Water Treatment (2) alarm events

- Low filter level (valve failure)

# 2017 Filter Compliance % (>95)

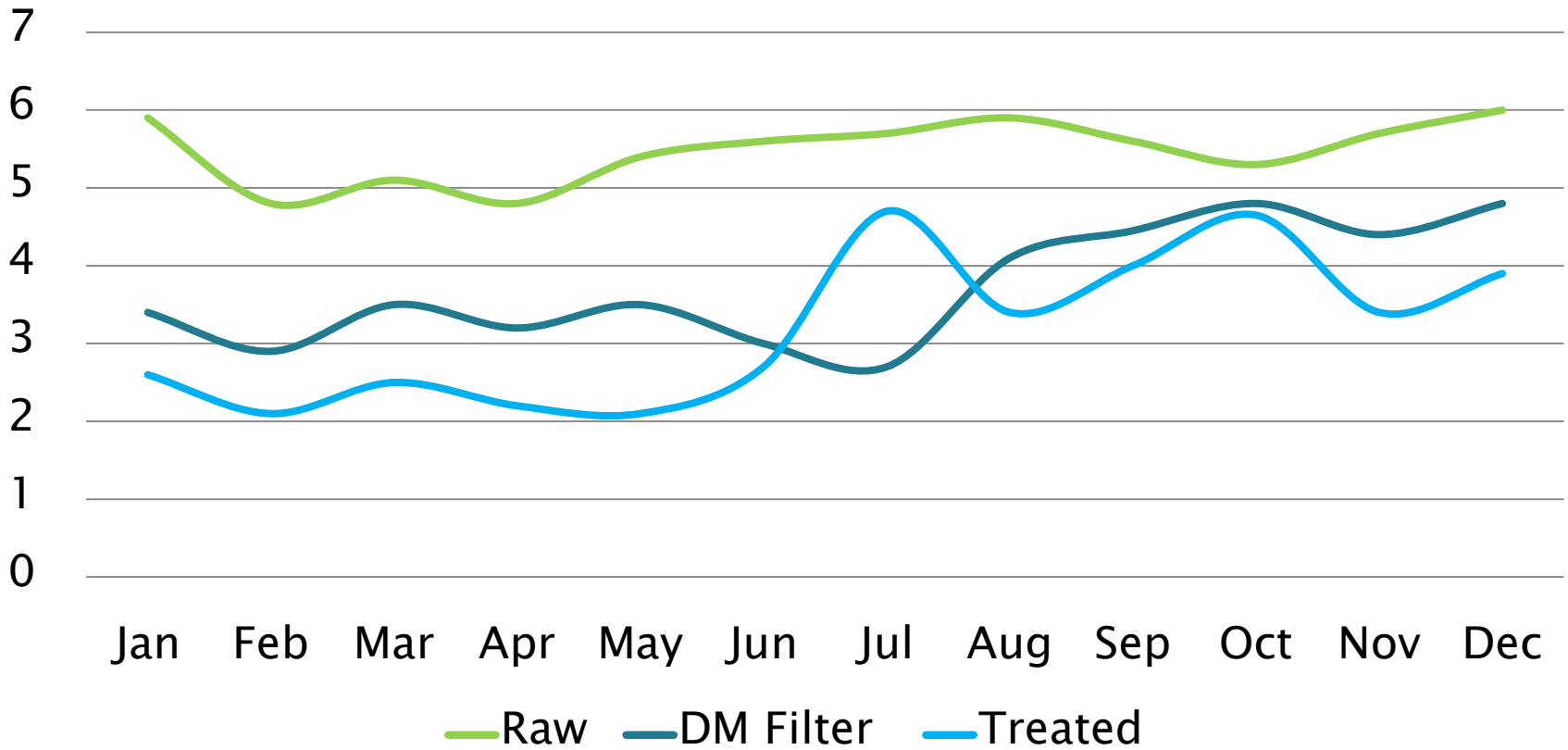


# 2017 Treated and Distribution Residuals (mg/L)

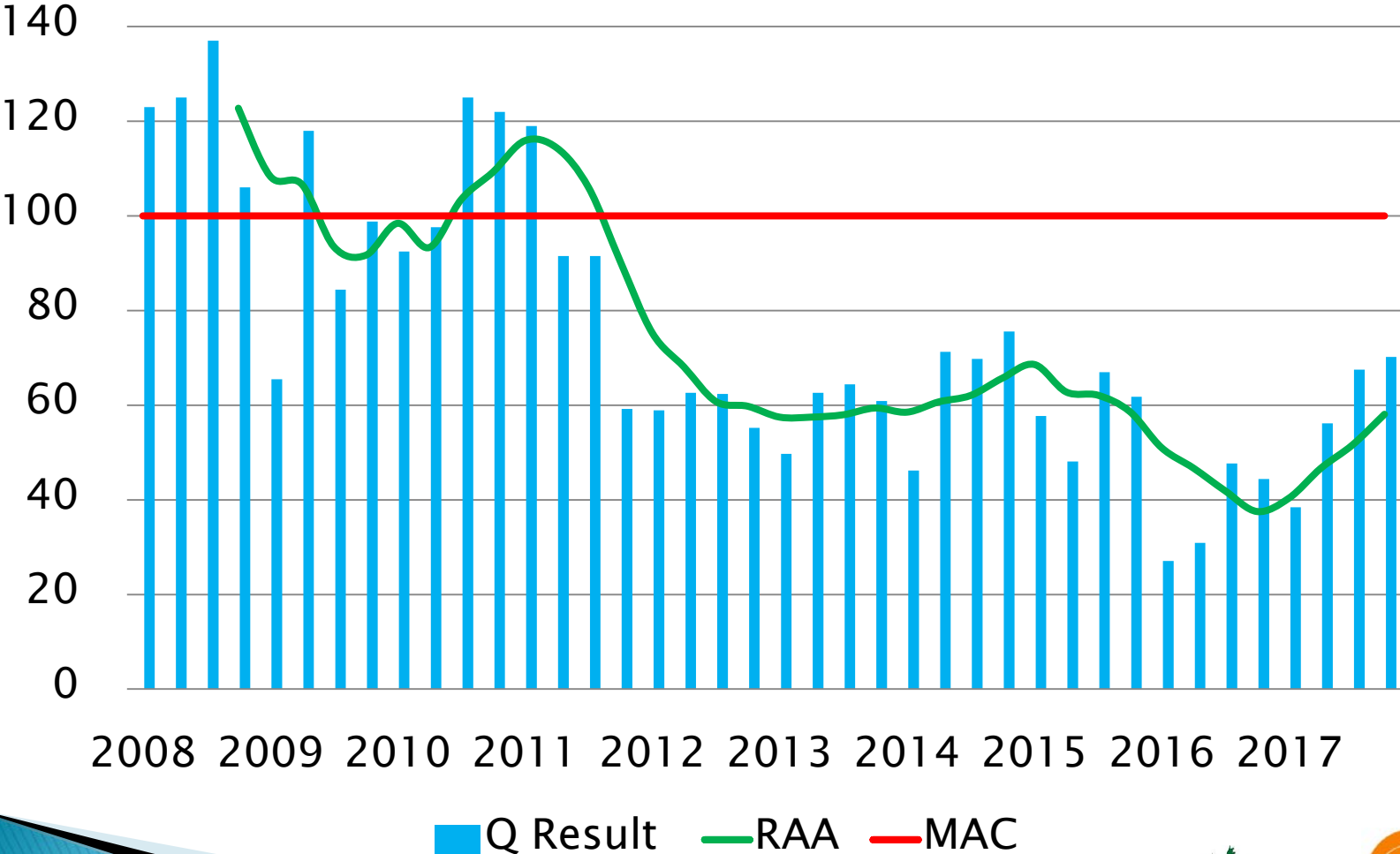




# 2017 TOC Averages (mg/L)

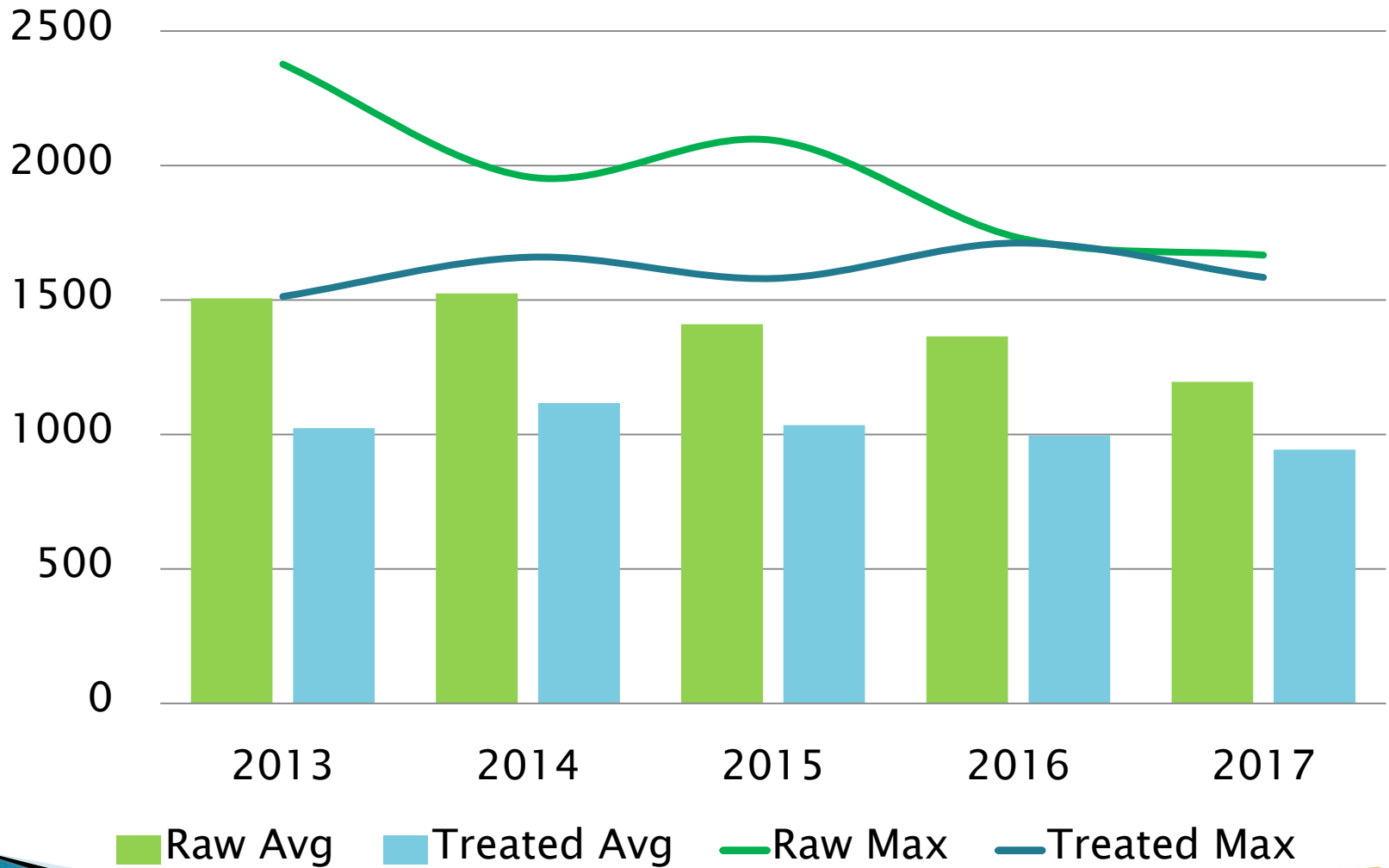


# Blind River DWS THM Results (Running Annual Average)

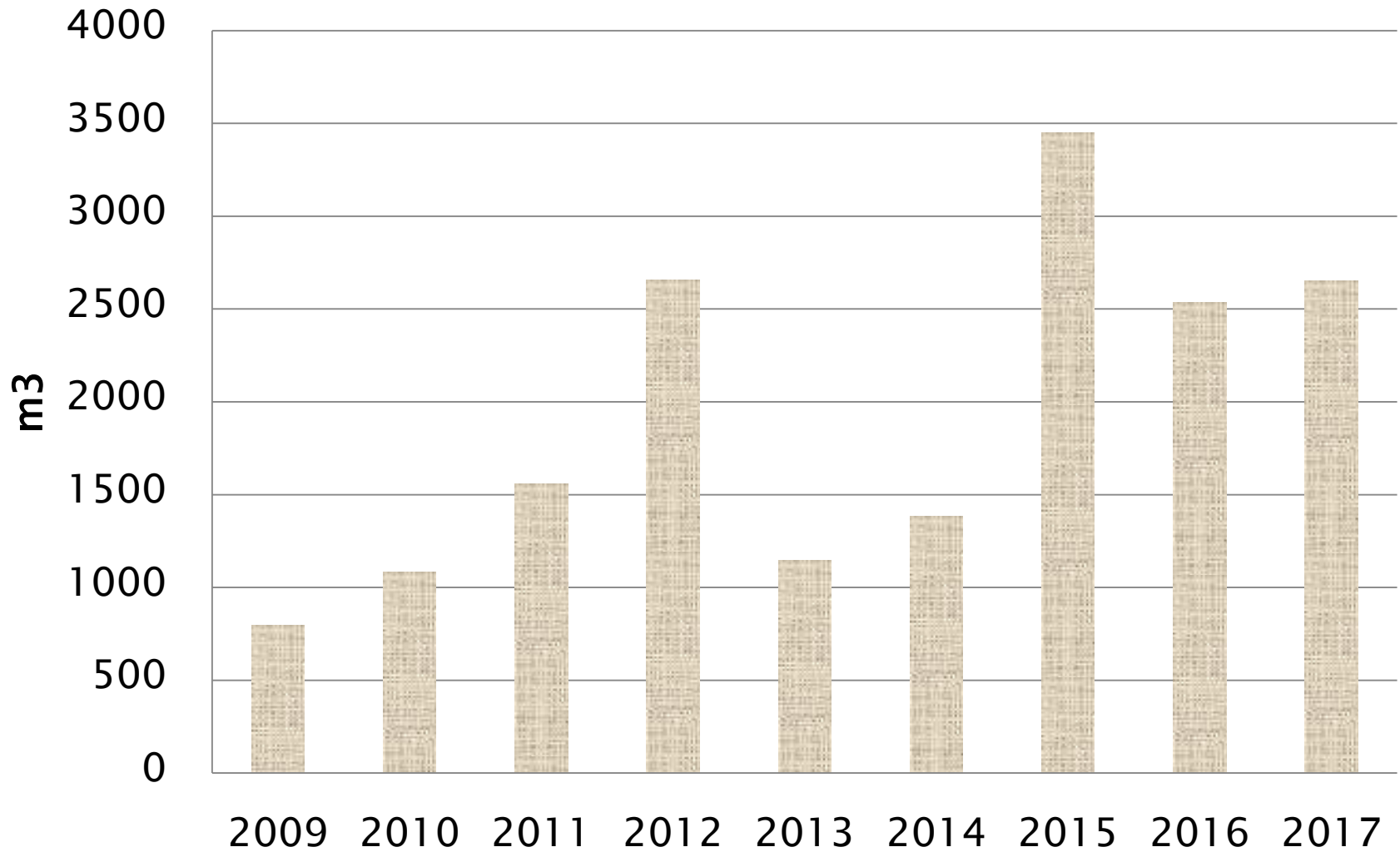


# Five Year History

## Annual Average Flows – Raw and Treated



# Blind River WPCP Sludge Hauling



# Questions