

# APPENDIX: SITE DATA FOR 2018 SALT LAKE COUNTY WATER QUALITY ANNUAL REPORT

A summary of the health and quality of streams in Salt Lake County



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## INTRODUCTION

The data displayed in this appendix was used for creation of the 2018 Salt Lake County Water Quality Annual Report. All samples were collected within the Jordan River Watershed by the Salt Lake County Watershed Planning & Restoration Program (WPRP) and have gone through the QA/QC process outlined in the applicable WPRP Sampling Analysis Plan. This document also aims to identify and explain any assumptions that were taken in data collection and analysis.

There are three main data sets displayed for the purpose of this document: Bacteria sampling (*E. coli*), Macroinvertebrate Sampling (BCG and KARR-BIBI scores) and Field Chemistry Sampling (Temperature, Dissolved Oxygen, pH, Conductivity and Turbidity). Sample sites are determined in a variety of ways depending on flow regime, stakeholder interest, water withdrawal/return, and more. Sites are listed as “Active”, “Inactive” or left blank depending on sampling status for a specific parameter. “Active” indicates the site was sampled for the listed parameter that water year. “Inactive” indicates that there is historic data for a specific parameter, but it was not sampled during the timeframe the report analyzes. A blank field indicates that no data has been collected for that parameter. There is no column to indicate Field Parameter Sampling but with every Bacteria and Macroinvertebrate sample a Field Parameter Sample is collected.

Active *E. coli* sampling locations are greater in number and sampling frequency. Because of this there are ample results to compare from year to year with *E. coli* and field parameter data. In the document below, *E. coli* samples sites have been used to create most of the graphs for both bacteria and field chemistry data. Macroinvertebrate sampling occurs once per year and yields relative scores (BCG and KARR-BIBI) related to environmental health. This document contains an abridged version of the macroinvertebrate results from 2018 but the final report can be found by contacting WPRP staff. In 2018 some macroinvertebrate samples were collected after the end of water year 2018 (October and November). These samples were part of 2018 macroinvertebrate collection and, although they fall out of the constraints of 2018 water year, they are used for the 2018 report.

## EXPLANATION OF MACROINVERTEBRATE MAPS

Macroinvertebrate samples have been broken down into two parameters, Karr-BIBI and Biological Condition Gradient (BCG). These two scales use different indicator species and relationships to look at water quality and ecosystem integrity at a given sampling location. Karr-BIBI ranges from 10-50 with 10 being the lowest value and 50 being the highest. BCG ranges from 6- to 1+, with 6- as the lowest value and 1+ being the highest. The maps for these sites coordinate color schemes to match between the two scales to avoid confusion. Location graphs are grouped by subwatershed to best show downstream trends.

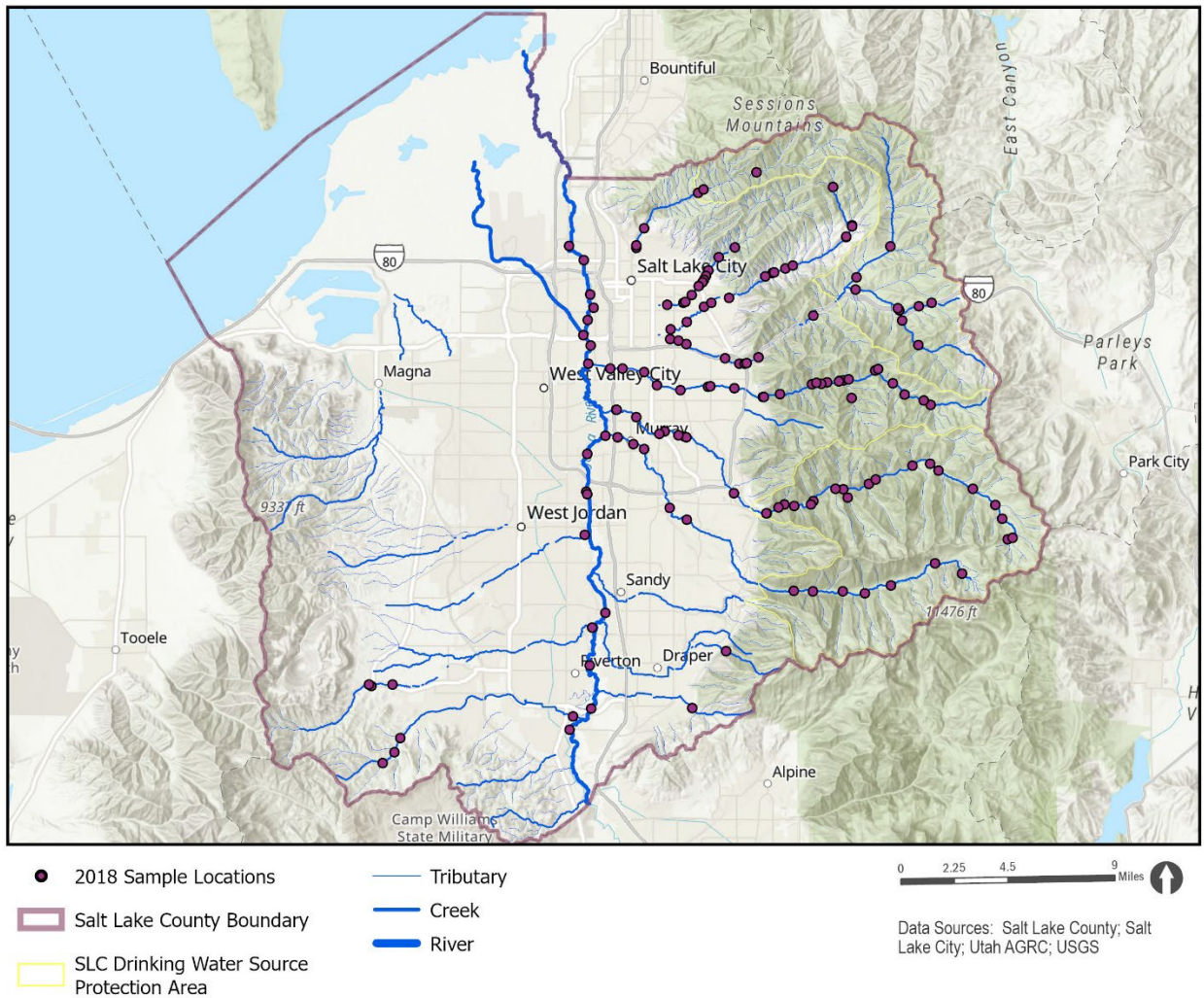
## EXPLANATION OF *E. COLI* & FIELD PARAMETER GRAPHS

The graphs for each sampling site show parameters collected within the 2018 water year (October 2017-September 2018). At each of these sites *E. coli* and field chemistry parameters were collected. If data did

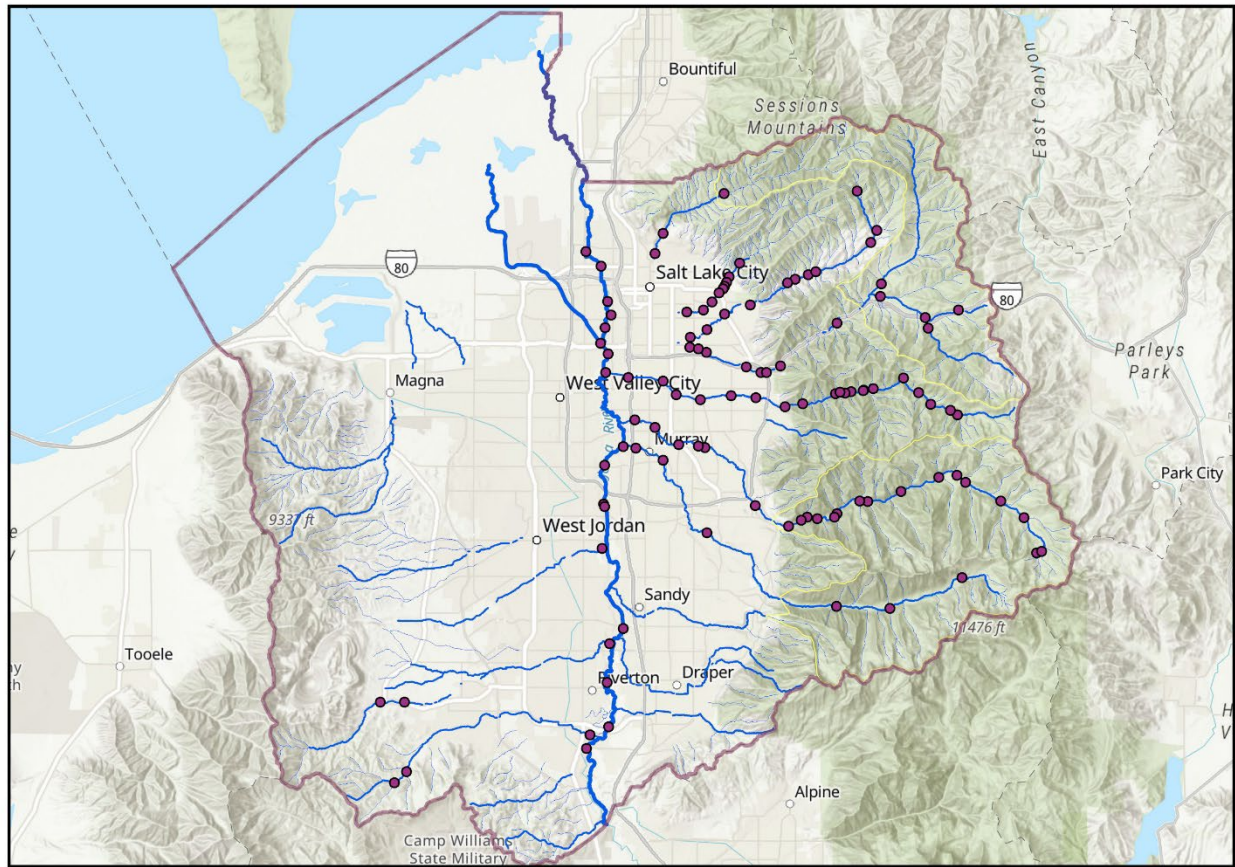
not meet QA/QC standards or collection was not possible no data is displayed for that sampling event. *E. coli* graphs show two thresholds for MPN (most probable number). Thresholds of MPN=206 (yellow) and MPN=668 (red) were generated by Utah DWQ as chronic and acute limits on *E. coli* in a stream. Salt Lake County WPRP aims to look at changes in *E. coli* over time but the thresholds have been added to show scale. For all field chemistry parameters, a dashed yellow threshold has been added. This threshold represents the average number of all samples in our database at that sampling location.

## SALT LAKE COUNTY WATERSHED

### All Sample Sites

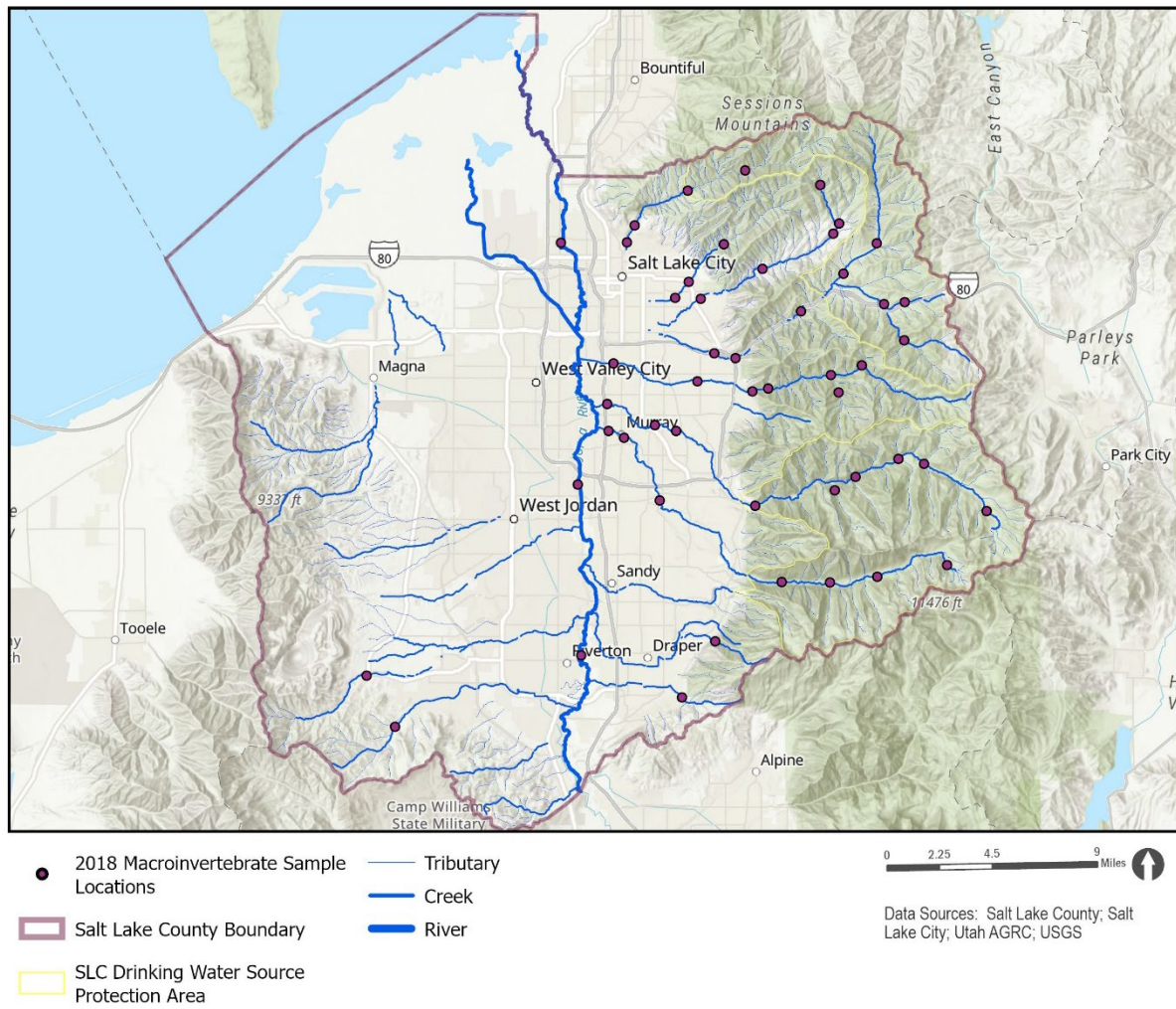


# Bacteria Sample Sites





## Macroinvertebrate Sample Sites



## Sample Location List

SiteID	Macro	Bacteria	Stream Name	Subwatershed Name	Latitude	Longitude
BC_00.61	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.681014	-111.899912
BC_00.70		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.681063	-111.899608
BC_01.94			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.676645	-111.883688
BC_03.44			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.66654	-111.865457
BC_03.73	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.668044	-111.86115
BC_04.44			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.665594	-111.849844
BC_04.73		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.664956	-111.844861
BC_04.81	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.664547	-111.843859
BC_08.83		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.630691	-111.805367
BC_10.60			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.618277	-111.779708
BC_10.64	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.618267	-111.779063
BC_11.23			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.622108	-111.769645

SiteID	Macro	Bacteria	Stream Name	Subwatershed Name	Latitude	Longitude
BC_11.57			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.62394	-111.764948
BC_11.99		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.622994	-111.757467
BC_12.93			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.623915	-111.74415
BC_13.18			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.625994	-111.741989
BC_14.49			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.63352	-111.724321
BC_14.84			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.63325	-111.718303
BC_16.08	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.636359	-111.697854
BC_16.42			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.639256	-111.692443
BC_18.30	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.647547	-111.66291
BC_19.23		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.648938	-111.648723
BC_19.96	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.644558	-111.642002
BC_21.79			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.633569	-111.614605
BC_23.14			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.62365	-111.596383
BC_23.85	✓		Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.615479	-111.591121
BC_25.12			Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.603707	-111.582848
BC_25.97		✓	Big Cottonwood Creek	Big Cottonwood Creek Subwatershed	40.602739	-111.586641
BG_00.22		✓	Bingham Creek	Bingham Creek Subwatershed	40.604927	-111.92466
BR_14.39	✓		Burr Fork	Emigration Creek Subwatershed	40.817207	-111.726936
BR_14.44		✓	Burr Fork	Emigration Creek Subwatershed	40.81729	-111.726961
BU_04.23		✓	Butterfield Creek	Midas Creek Subwatershed	40.513018	-112.077541
BU_05.18	✓		Butterfield Creek	Midas Creek Subwatershed	40.512222	-112.094305
BU_05.29		✓	Butterfield Creek	Midas Creek Subwatershed	40.51297	-112.09604
CC_02.62		✓	City Creek	City Creek Subwatershed	40.779748	-111.884467
CC_02.76	✓		City Creek	City Creek Subwatershed	40.781342	-111.884355
CC_03.65	✓	✓	City Creek	City Creek Subwatershed	40.79158	-111.878068
CC_07.01	✓		City Creek	City Creek Subwatershed	40.813378	-111.834966
CC_07.31			City Creek	City Creek Subwatershed	40.815303	-111.830552
CC_10.09	✓		City Creek	City Creek Subwatershed	40.82593	-111.788507
CY_05.15	✓		Corner Canyon Creek	Corner Canyon Creek Subwatershed	40.499542	-111.838374
EM_01.62		✓	Emigration Creek	Emigration Creek Subwatershed	40.73031	-111.856664
EM_02.54		✓	Emigration Creek	Emigration Creek Subwatershed	40.734736	-111.843573
EM_03.67		✓	Emigration Creek	Emigration Creek Subwatershed	40.744088	-111.82981
EM_04.17	✓		Emigration Creek	Emigration Creek Subwatershed	40.746568	-111.824122
EM_05.17		✓	Emigration Creek	Emigration Creek Subwatershed	40.74958	-111.81012
EM_07.30		✓	Emigration Creek	Emigration Creek Subwatershed	40.762803	-111.781013
EM_07.79		✓	Emigration Creek	Emigration Creek Subwatershed	40.764776	-111.775199
EM_07.87	✓		Emigration Creek	Emigration Creek Subwatershed	40.76494	-111.773777
EM_08.50			Emigration Creek	Emigration Creek Subwatershed	40.767507	-111.764722
EM_08.93		✓	Emigration Creek	Emigration Creek Subwatershed	40.769411	-111.75906
EM_11.87		✓	Emigration Creek	Emigration Creek Subwatershed	40.786736	-111.716377
EM_11.89	✓		Emigration Creek	Emigration Creek Subwatershed	40.786973	-111.716159

SiteID	Macro	Bacteria	Stream Name	Subwatershed Name	Latitude	Longitude
JR_08.77	✓	✓	Jordan River	Jordan River Corridor Subwatershed	40.780855	-111.938376
JR_09.79			Jordan River	Jordan River Corridor Subwatershed	40.772202	-111.926213
JR_11.41			Jordan River	Jordan River Corridor Subwatershed	40.751192	-111.921227
JR_12.39			Jordan River	Jordan River Corridor Subwatershed	40.743302	-111.918376
JR_13.30			Jordan River	Jordan River Corridor Subwatershed	40.735782	-111.922896
JR_14.34			Jordan River	Jordan River Corridor Subwatershed	40.726311	-111.926335
JR_14.89			Jordan River	Jordan River Corridor Subwatershed	40.720062	-111.920399
JR_20.23			Jordan River	Jordan River Corridor Subwatershed	40.66528	-111.908277
JR_21.46			Jordan River	Jordan River Corridor Subwatershed	40.65427	-111.923105
JR_22.98	✓		Jordan River	Jordan River Corridor Subwatershed	40.631071	-111.9237
JR_23.34		✓	Jordan River	Jordan River Corridor Subwatershed	40.629748	-111.922822
JR_29.28			Jordan River	Jordan River Corridor Subwatershed	40.557541	-111.907848
JR_32.35	✓	✓	Jordan River	Jordan River Corridor Subwatershed	40.525538	-111.920265
JR_35.14			Jordan River	Jordan River Corridor Subwatershed	40.499025	-111.918662
JR_36.77			Jordan River	Jordan River Corridor Subwatershed	40.486331	-111.936066
KL_00.18	✓		Killyon Creek	Emigration Creek Subwatershed	40.793242	-111.711512
KL_00.21		✓	Killyon Creek	Emigration Creek Subwatershed	40.793962	-111.711463
LB_00.55		✓	Lambs Canyon Creek	Parleys Creek Subwatershed	40.735994	-111.671165
LB_01.92	✓		Lambs Canyon Creek	Parleys Creek Subwatershed	40.721131	-111.658184
LC_00.53	✓	✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.664243	-111.898836
LC_01.37	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.660345	-111.886232
LC_01.98		✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.657228	-111.87758
LC_05.37	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.621382	-111.856751
LC_06.58		✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.614461	-111.842906
LC_13.30	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.571229	-111.757544
LC_14.23		✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.571145	-111.742131
LC_15.66	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.570922	-111.718199
LC_16.72		✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.56993	-111.700826
LC_18.07	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.574644	-111.680049
LC_20.52		✓	Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.588116	-111.644599
LC_22.29	✓		Little Cottonwood Creek	Little Cottonwood Creek Subwatershed	40.581845	-111.623065
LW_02.10	✓		Little Willow Creek	Willow Creek Subwatershed	40.534332	-111.811533
MB_00.43	✓		Mill B South Fork	Big Cottonwood Creek Subwatershed	40.628159	-111.714489
MC_00.01			Mill Creek	Mill Creek Subwatershed	40.709041	-111.922291
MC_01.08		✓	Mill Creek	Mill Creek Subwatershed	40.706232	-111.904637
MC_01.57	✓		Mill Creek	Mill Creek Subwatershed	40.706253	-111.895101
MC_02.56		✓	Mill Creek	Mill Creek Subwatershed	40.704101	-111.877849
MC_03.47			Mill Creek	Mill Creek Subwatershed	40.696239	-111.867284
MC_04.56		✓	Mill Creek	Mill Creek Subwatershed	40.693112	-111.848659
MC_05.82	✓		Mill Creek	Mill Creek Subwatershed	40.695463	-111.826732
MC_05.93			Mill Creek	Mill Creek Subwatershed	40.695624	-111.824777

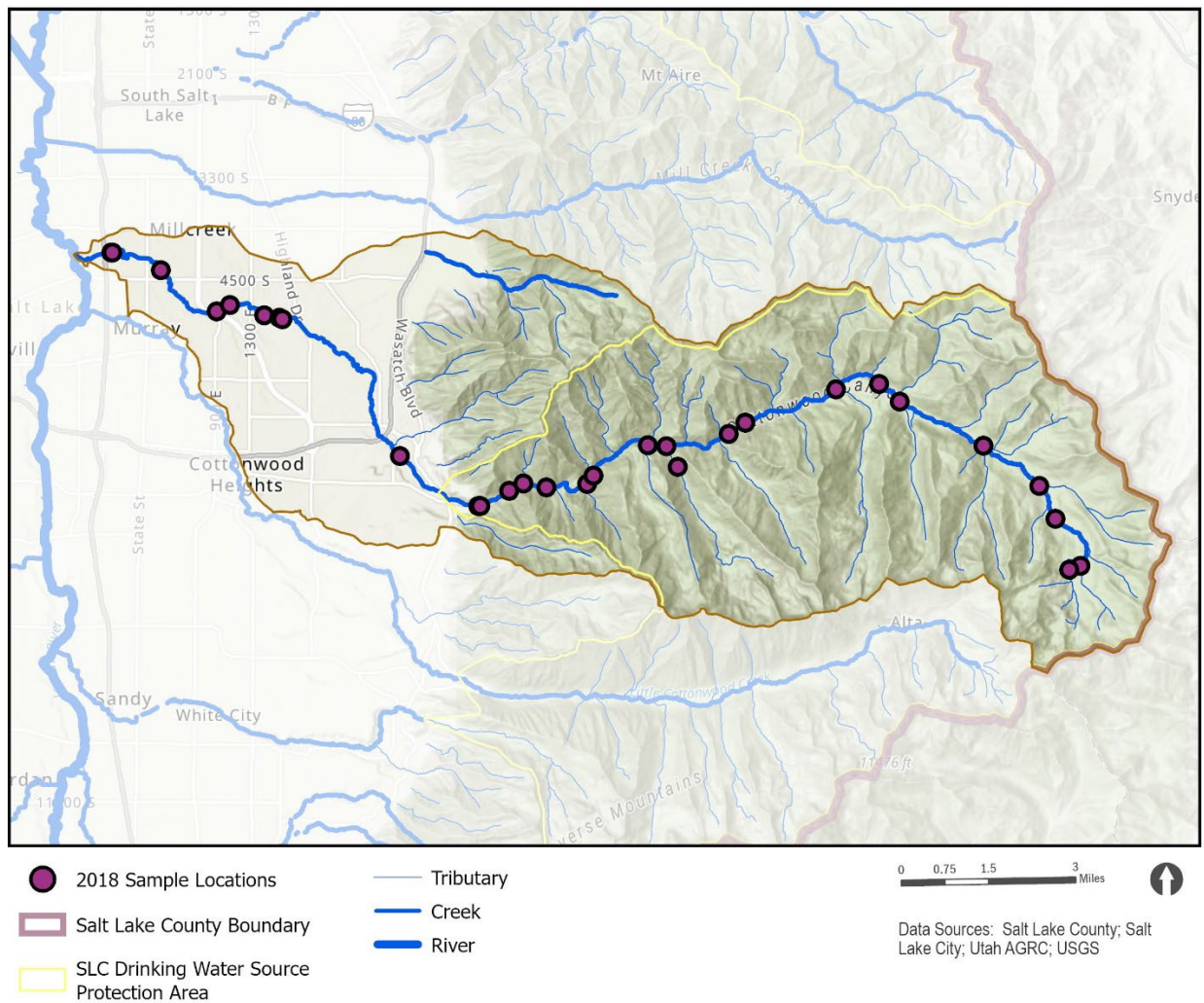


SiteID	Macro	Bacteria	Stream Name	Subwatershed Name	Latitude	Longitude
MC_07.09		✓	Mill Creek	Mill Creek Subwatershed	40.694523	-111.805464
MC_08.49		✓	Mill Creek	Mill Creek Subwatershed	40.689301	-111.782733
MC_08.55	✓		Mill Creek	Mill Creek Subwatershed	40.689328	-111.781688
MC_09.30	✓		Mill Creek	Mill Creek Subwatershed	40.690993	-111.769003
MC_10.98			Mill Creek	Mill Creek Subwatershed	40.697089	-111.743394
MC_11.22			Mill Creek	Mill Creek Subwatershed	40.69809	-111.74008
MC_11.49			Mill Creek	Mill Creek Subwatershed	40.697507	-111.73607
MC_11.79			Mill Creek	Mill Creek Subwatershed	40.698285	-111.731127
MC_12.41		✓	Mill Creek	Mill Creek Subwatershed	40.69914	-111.721405
MC_12.62	✓		Mill Creek	Mill Creek Subwatershed	40.699438	-111.71779
MC_12.84			Mill Creek	Mill Creek Subwatershed	40.699994	-111.714129
MC_14.22	✓		Mill Creek	Mill Creek Subwatershed	40.705384	-111.692844
MC_14.37			Mill Creek	Mill Creek Subwatershed	40.706527	-111.690607
MC_15.39			Mill Creek	Mill Creek Subwatershed	40.69767	-111.678864
MC_16.17			Mill Creek	Mill Creek Subwatershed	40.690836	-111.669138
MC_17.12			Mill Creek	Mill Creek Subwatershed	40.687384	-111.654053
MC_17.47			Mill Creek	Mill Creek Subwatershed	40.684785	-111.648303
MD_00.63	✓	✓	Dell Fork	Parleys Creek Subwatershed	40.762168	-111.707843
MD_02.80	✓		Dell Fork	Parleys Creek Subwatershed	40.781006	-111.680937
MS_00.19		✓	Midas Creek	Midas Creek Subwatershed	40.548516	-111.918232
PC_02.06		✓	Parleys Creek	Parleys Creek Subwatershed	40.724382	-111.856896
PC_02.50			Parleys Creek	Parleys Creek Subwatershed	40.723254	-111.85028
PC_02.88		✓	Parleys Creek	Parleys Creek Subwatershed	40.72121	-111.843889
PC_04.76	✓	✓	Parleys Creek	Parleys Creek Subwatershed	40.712577	-111.812842
PC_05.53		✓	Parleys Creek	Parleys Creek Subwatershed	40.709552	-111.801762
PC_05.79		✓	Parleys Creek	Parleys Creek Subwatershed	40.70935	-111.797217
PC_05.89	✓		Parleys Creek	Parleys Creek Subwatershed	40.70981	-111.795714
PC_06.47			Parleys Creek	Parleys Creek Subwatershed	40.713379	-111.786271
PC_12.11			Parleys Creek	Parleys Creek Subwatershed	40.75477	-111.708611
PC_14.29	✓		Parleys Creek	Parleys Creek Subwatershed	40.743456	-111.675006
PC_14.40		✓	Parleys Creek	Parleys Creek Subwatershed	40.742406	-111.673698
PC_15.51	✓		Parleys Creek	Parleys Creek Subwatershed	40.744601	-111.657959
PC_16.29			Parleys Creek	Parleys Creek Subwatershed	40.746688	-111.647682
PF_00.04		✓	Porter Fork	Mill Creek Subwatershed	40.698831	-111.721691
PF_01.00	✓		Porter Fork	Mill Creek Subwatershed	40.688811	-111.711597
RB_00.92			Red Butte Creek	Red Butte Creek Subwatershed	40.745063	-111.8594
RB_01.65		✓	Red Butte Creek	Red Butte Creek Subwatershed	40.746225	-111.846378
RB_01.74	✓		Red Butte Creek	Red Butte Creek Subwatershed	40.74688	-111.845133
RB_02.16		✓	Red Butte Creek	Red Butte Creek Subwatershed	40.75103	-111.839859
RB_02.64			Red Butte Creek	Red Butte Creek Subwatershed	40.756506	-111.83434
RB_02.68	✓		Red Butte Creek	Red Butte Creek Subwatershed	40.756902	-111.834073

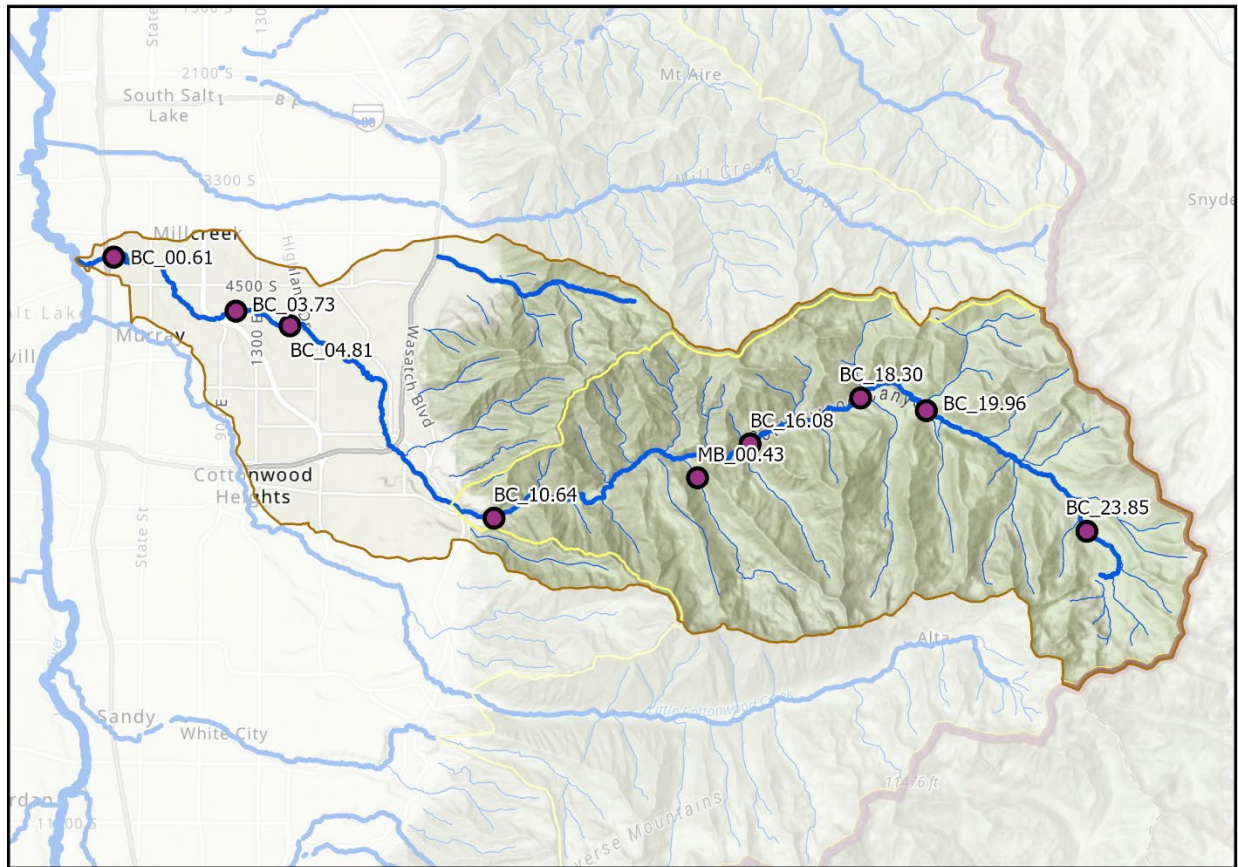
SiteID	Macro	Bacteria	Stream Name	Subwatershed Name	Latitude	Longitude
RB_02.89			Red Butte Creek	Red Butte Creek Subwatershed	40.759022	-111.831364
RB_03.03			Red Butte Creek	Red Butte Creek Subwatershed	40.760355	-111.829967
RB_03.22			Red Butte Creek	Red Butte Creek Subwatershed	40.762792	-111.828344
RB_03.47			Red Butte Creek	Red Butte Creek Subwatershed	40.766009	-111.826611
RB_04.21		✓	Red Butte Creek	Red Butte Creek Subwatershed	40.774139	-111.818237
RB_05.19	✓		Red Butte Creek	Red Butte Creek Subwatershed	40.780201	-111.805293
RC_00.41		✓	Rose Creek	Rose Creek Subwatershed	40.494198	-111.933315
RC_09.84	✓		Rose Creek	Rose Creek Subwatershed	40.480518	-112.070846
RC_10.58		✓	Rose Creek	Rose Creek Subwatershed	40.47178	-112.07568
RC_11.32		✓	Rose Creek	Rose Creek Subwatershed	40.465234	-112.084725
SF_00.11		✓	Smith Fork	Parleys Creek Subwatershed	40.73877	-111.742325
SF_00.14	✓		Smith Fork	Parleys Creek Subwatershed	40.73887	-111.742215

# BIG COTTONWOOD CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



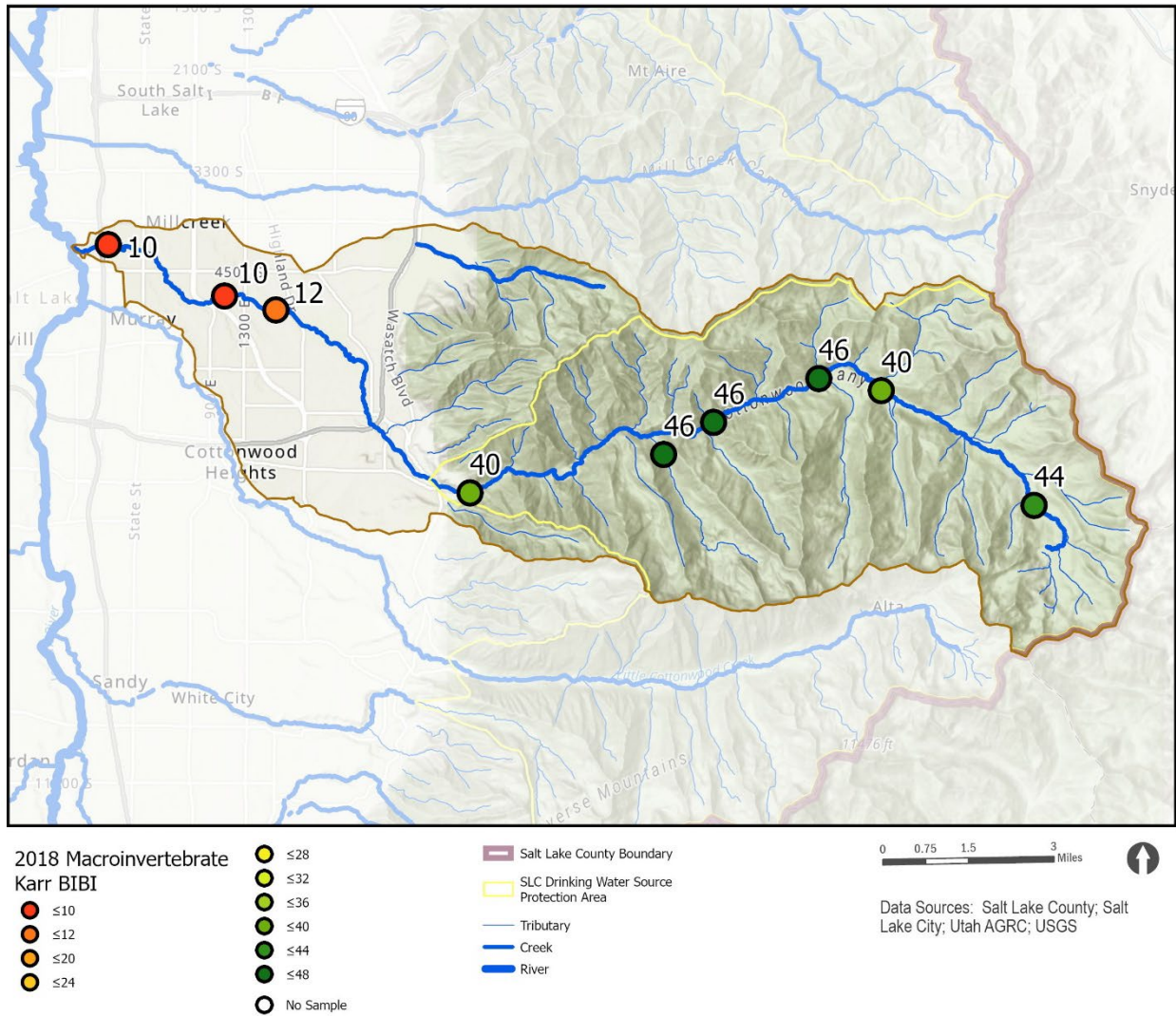
- 2018 Macroinvertebrate Sample Locations
- Tributary
- Creek
- River
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area



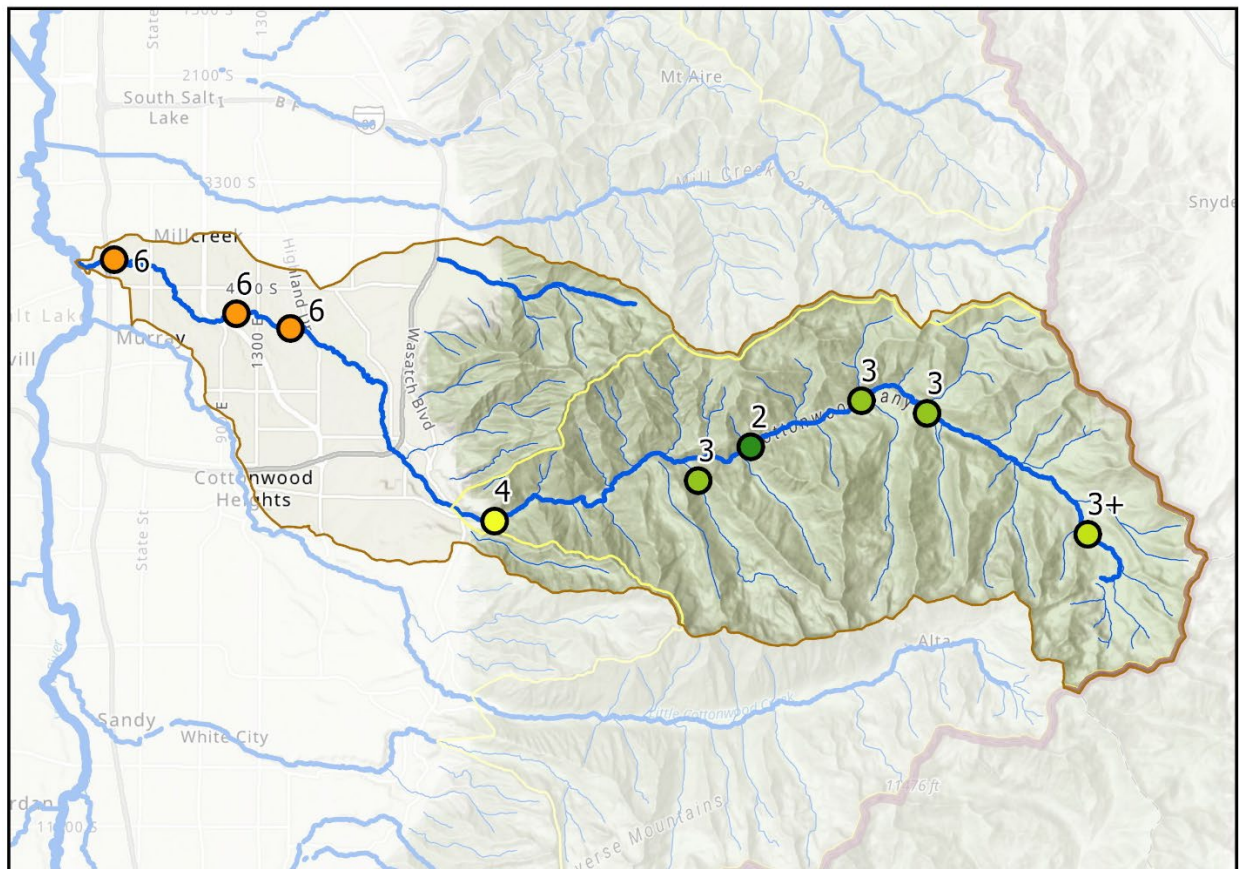
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



# Macroinvertebrate Biological Condition Gradient (BCG) Results



2018 Macroinvertebrate Biological Condition Gradient

- 2-
- 2
- 3-
- 3
- 3+
- 4
- 5
- 5+
- 6
- 6+

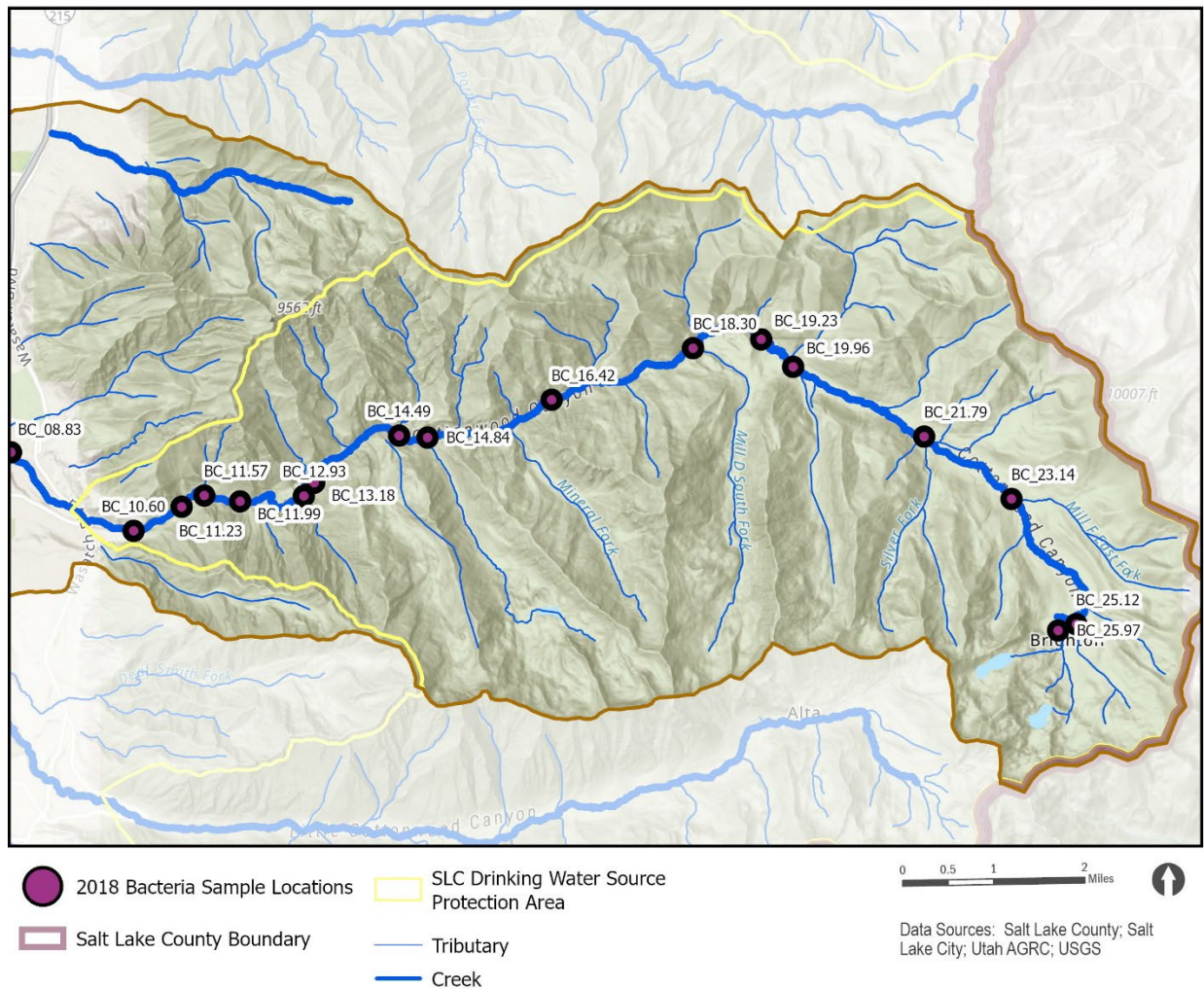
- No Sample
- ▬ Salt Lake County Boundary
- ▬ SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



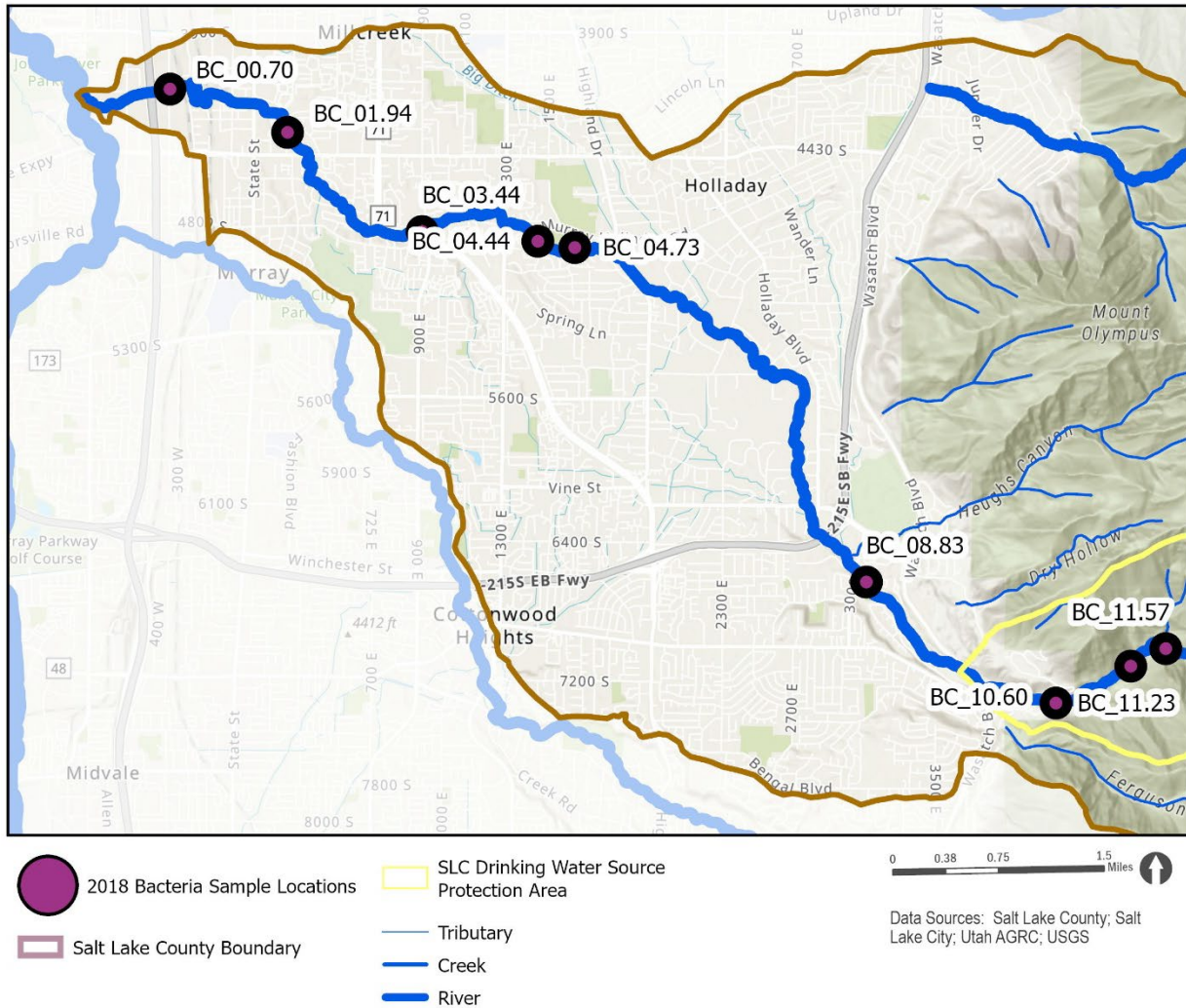
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



Subwatershed Map with Bacteria Sample Sites (upper)



## Subwatershed Map with Bacteria Sample Sites (lower)

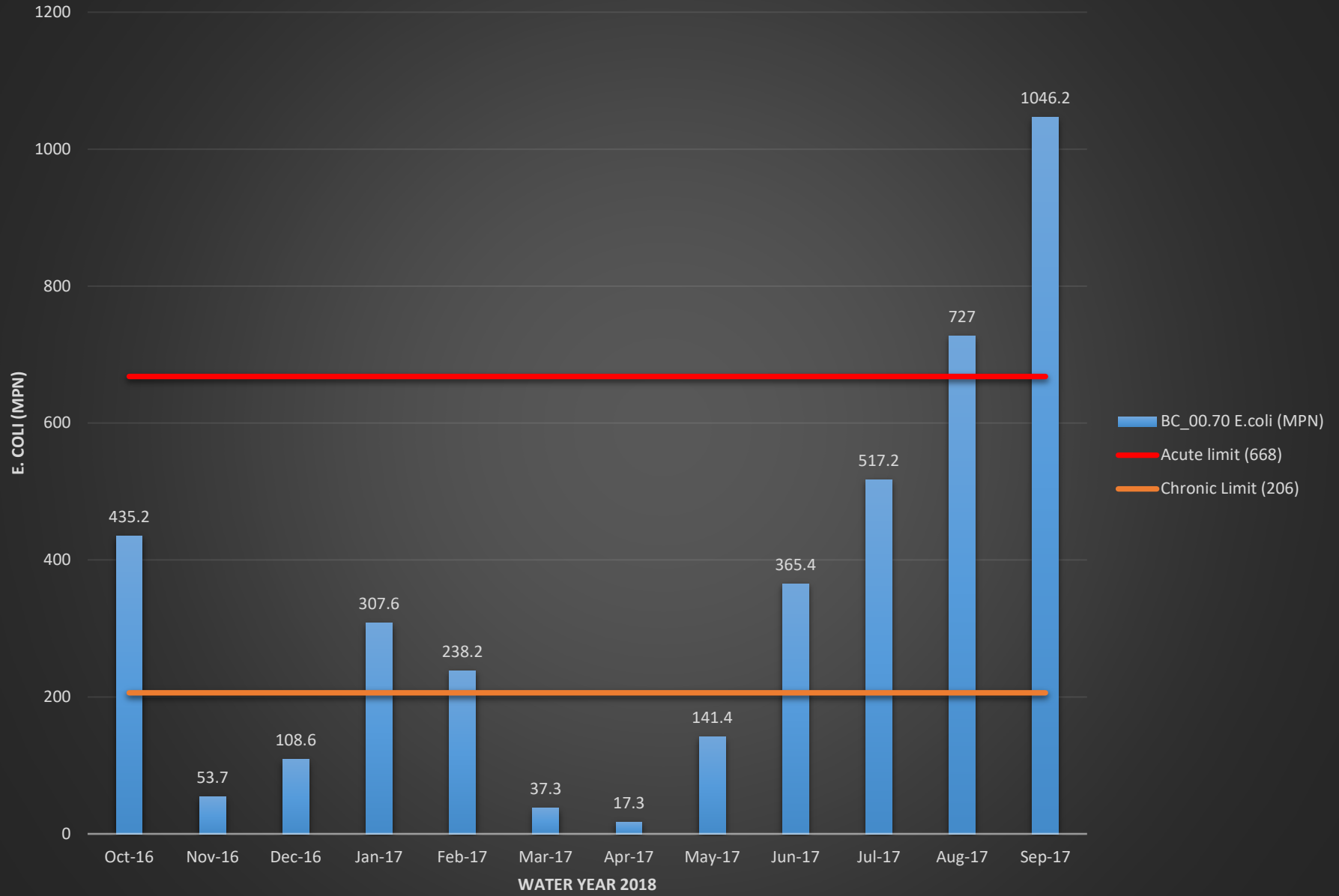


## *E. coli* & Field Parameter Graphs

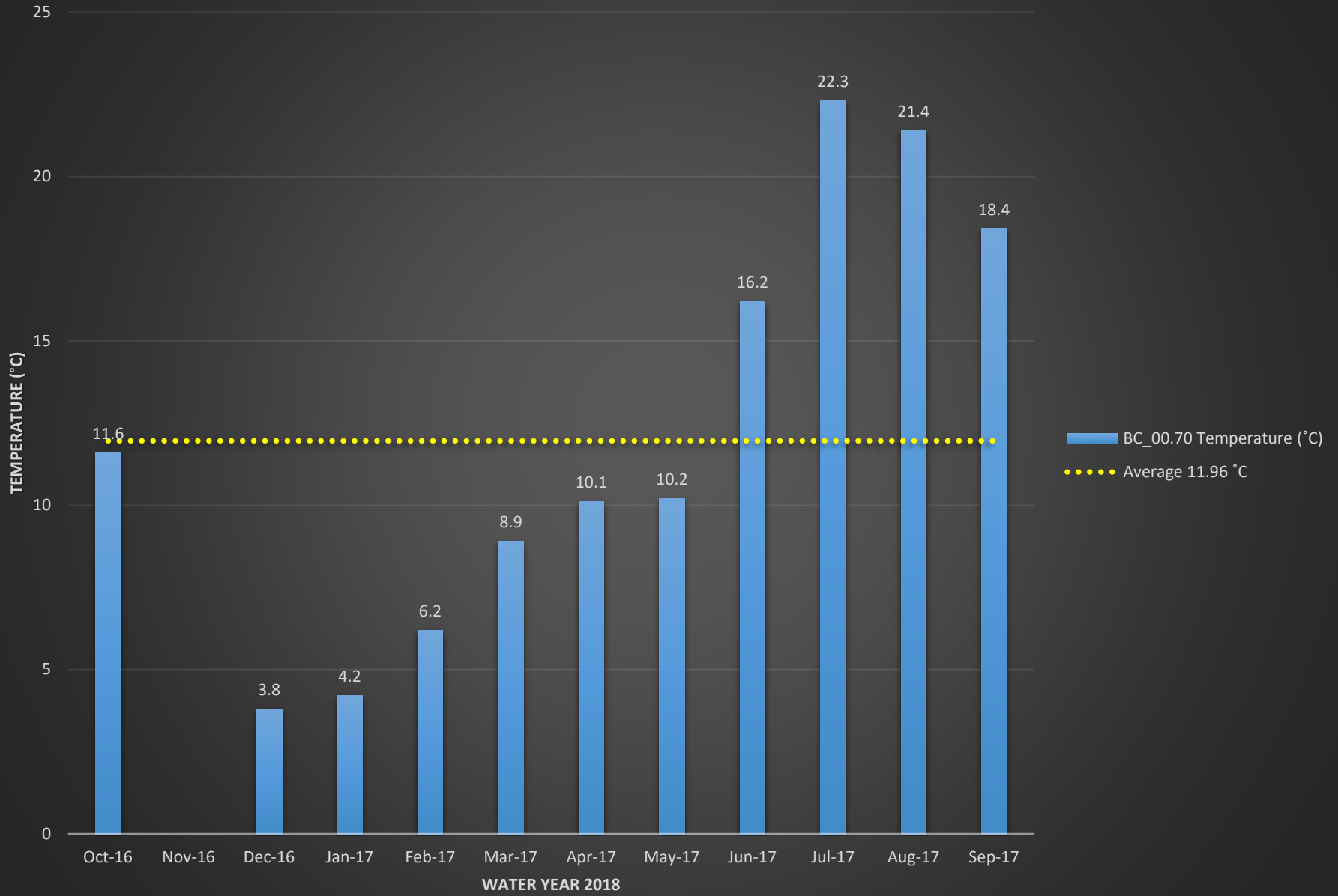
Graphs begin on next page...



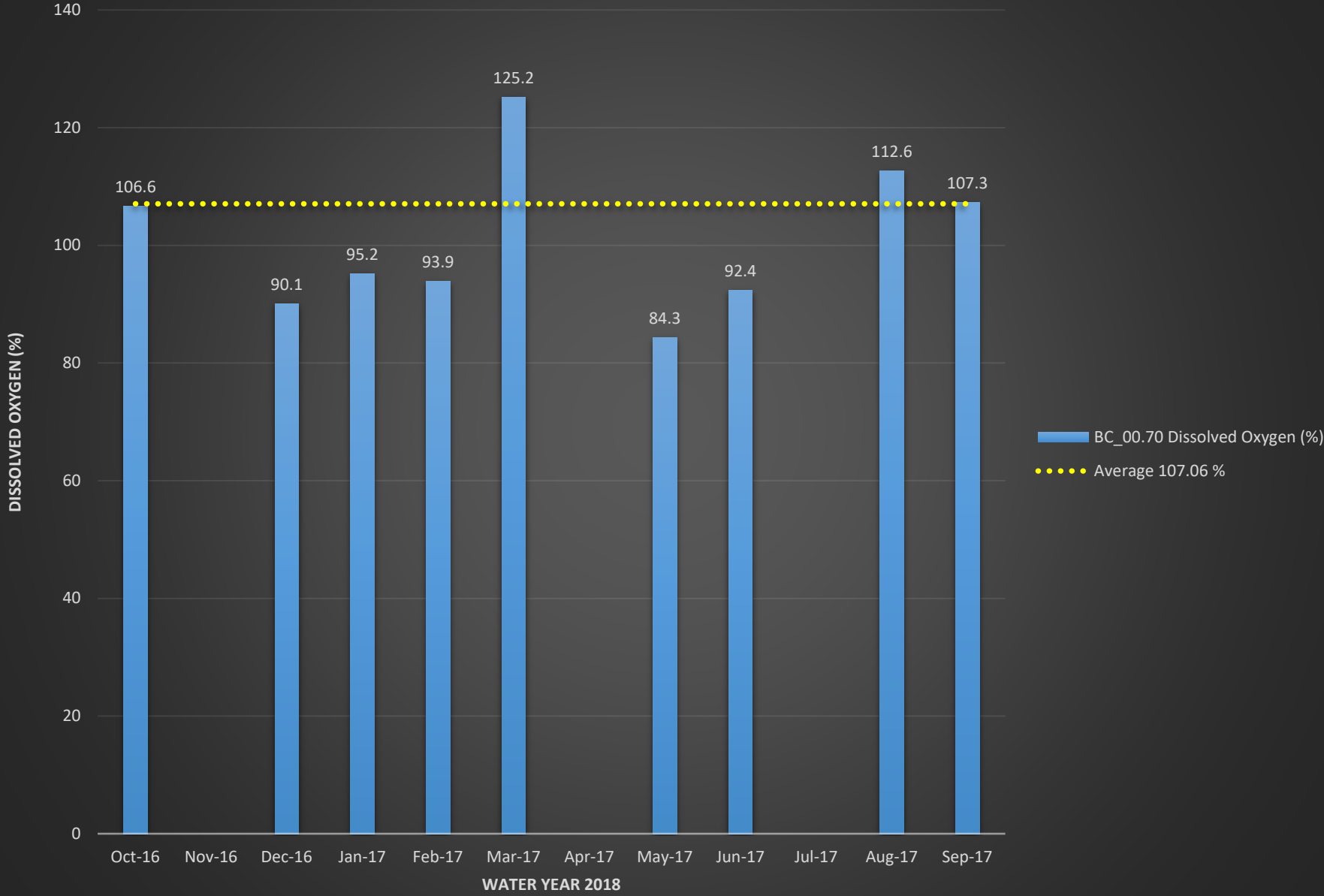
# BC\_00.70 E.coli (MPN)



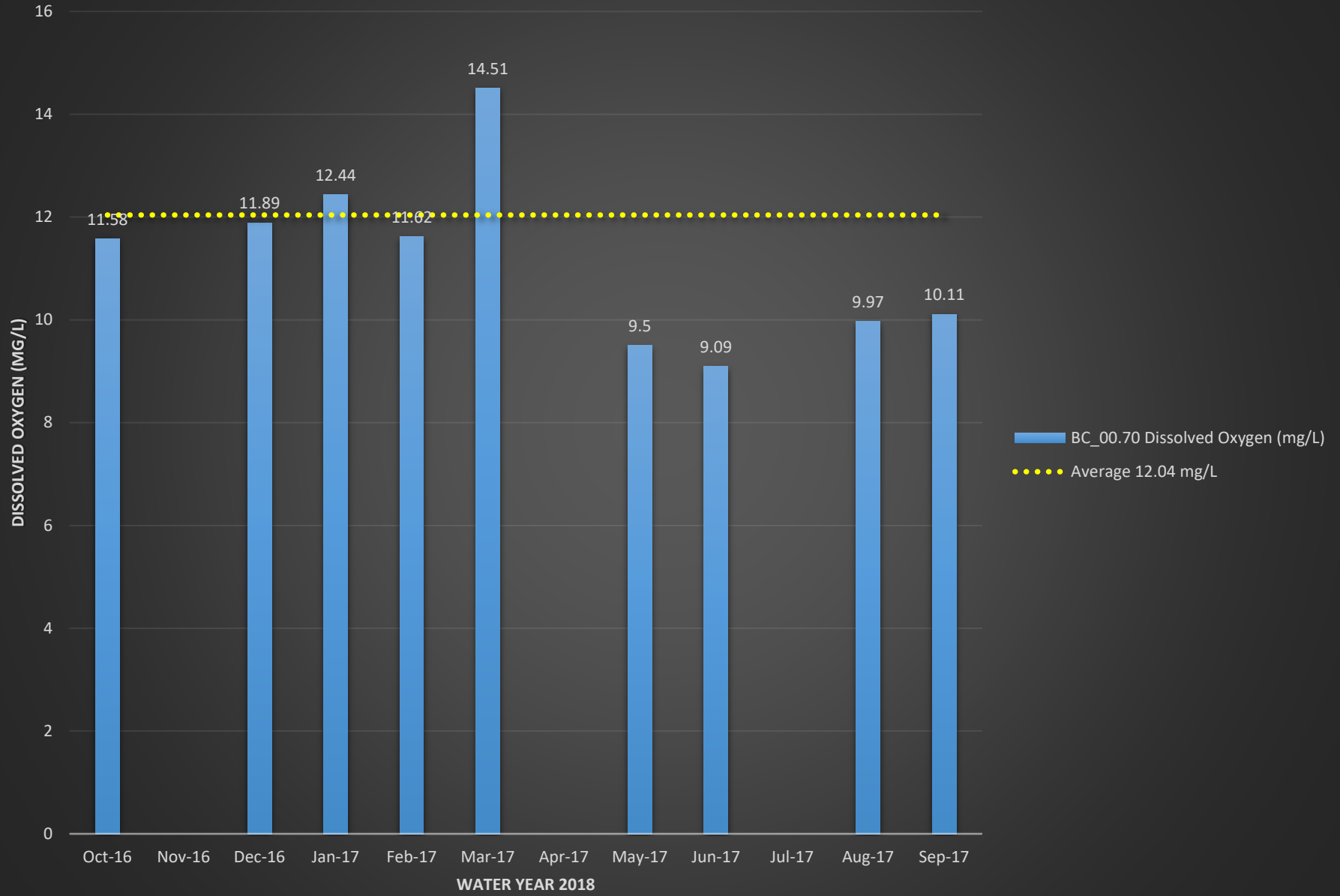
# BC\_00.70 Temperature (°C)



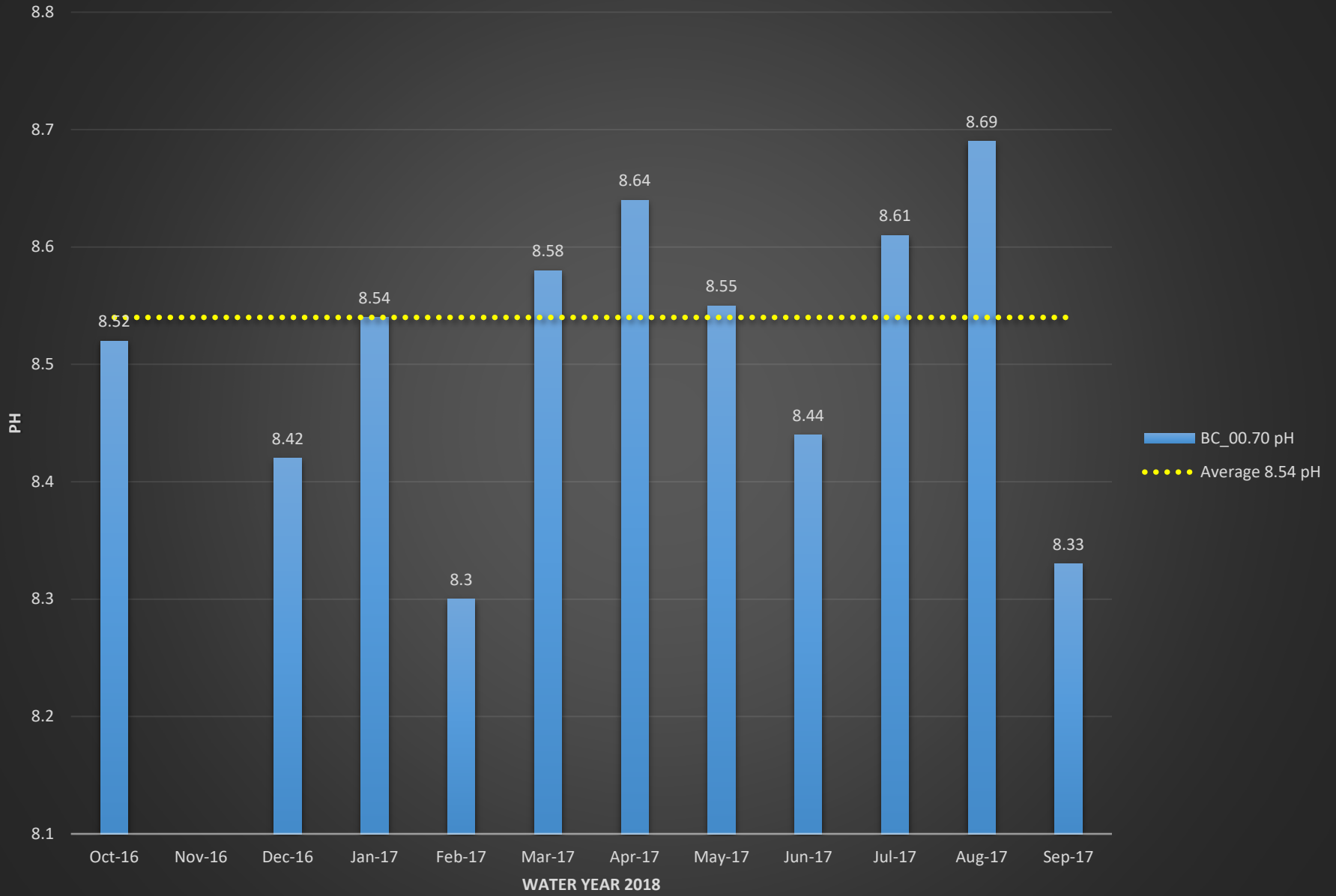
# BC\_00.70 Dissolved Oxygen (%)



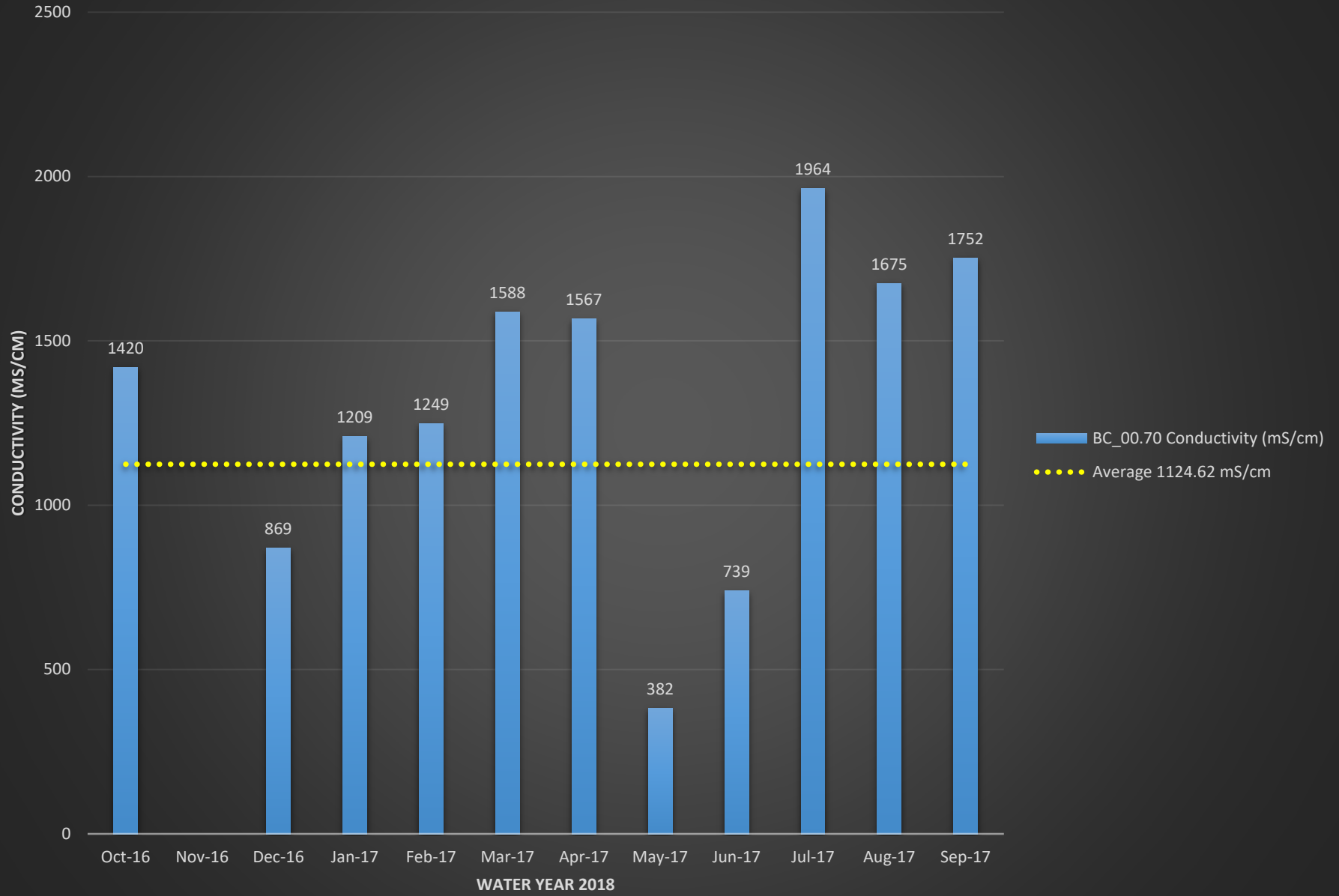
# BC\_00.70 Dissolved Oxygen (mg/L)



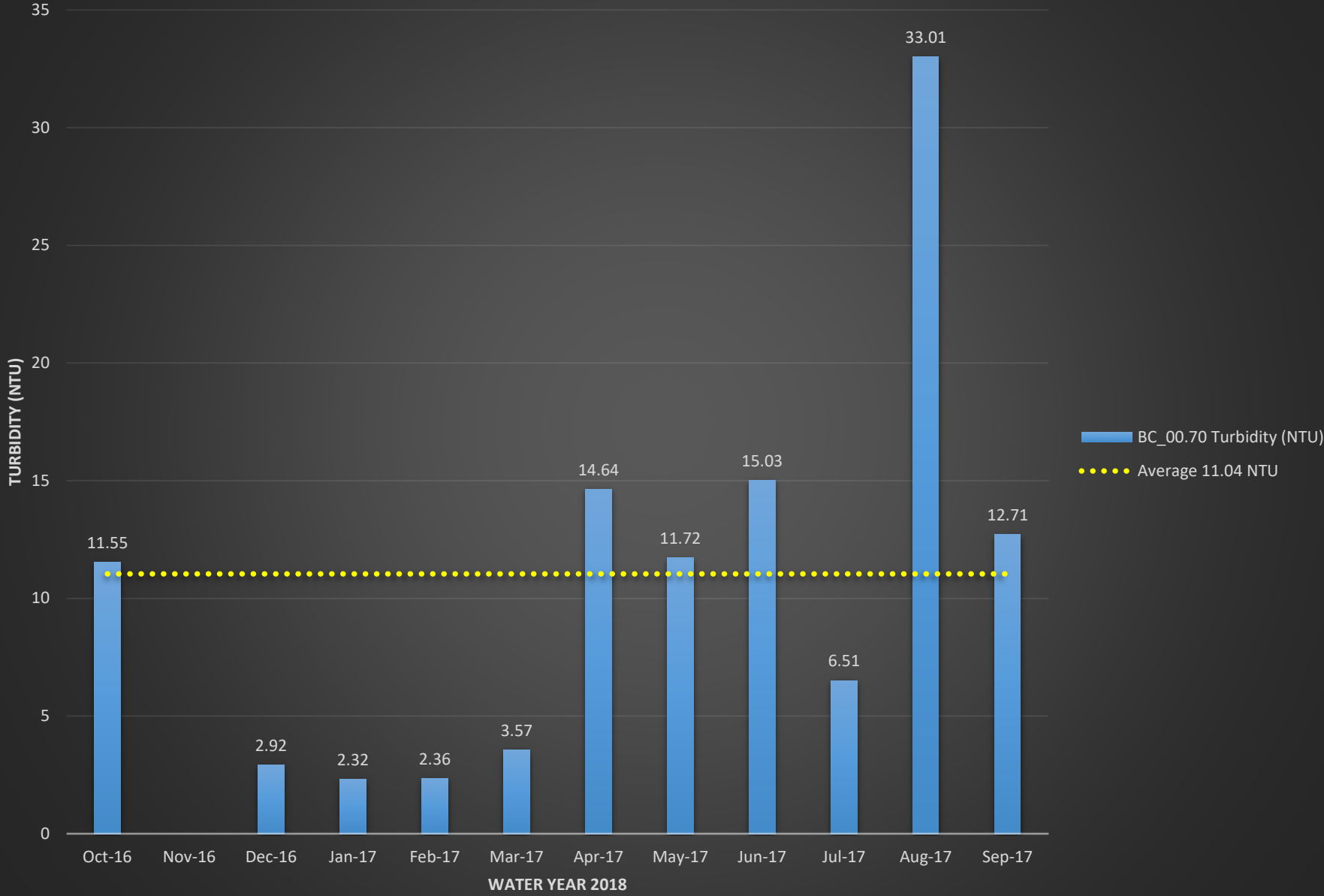
# BC\_00.70 pH



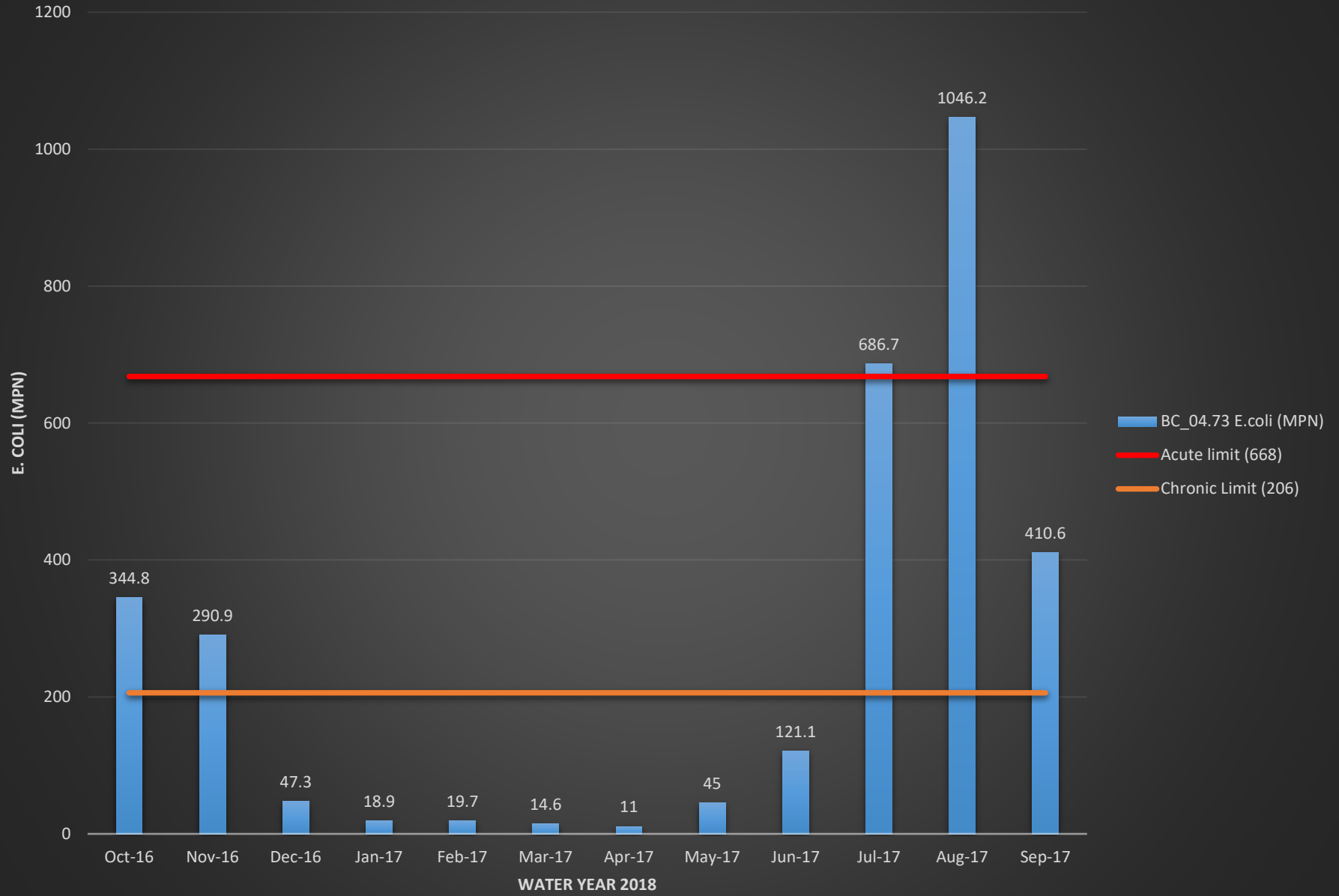
# BC\_00.70 Conductivity (mS/cm)



# BC\_00.70 Turbidity (NTU)

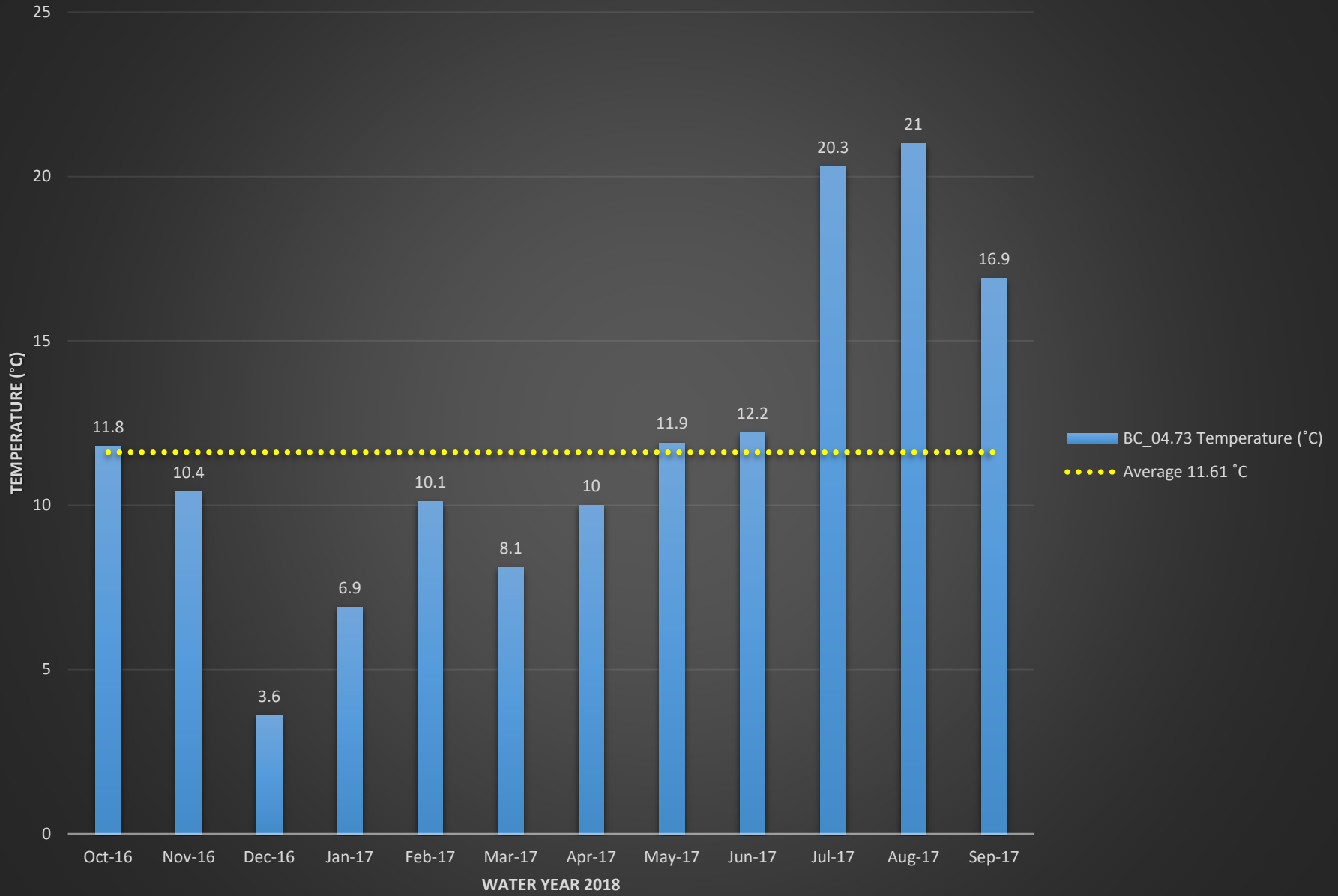


# BC\_04.73 E.coli (MPN)

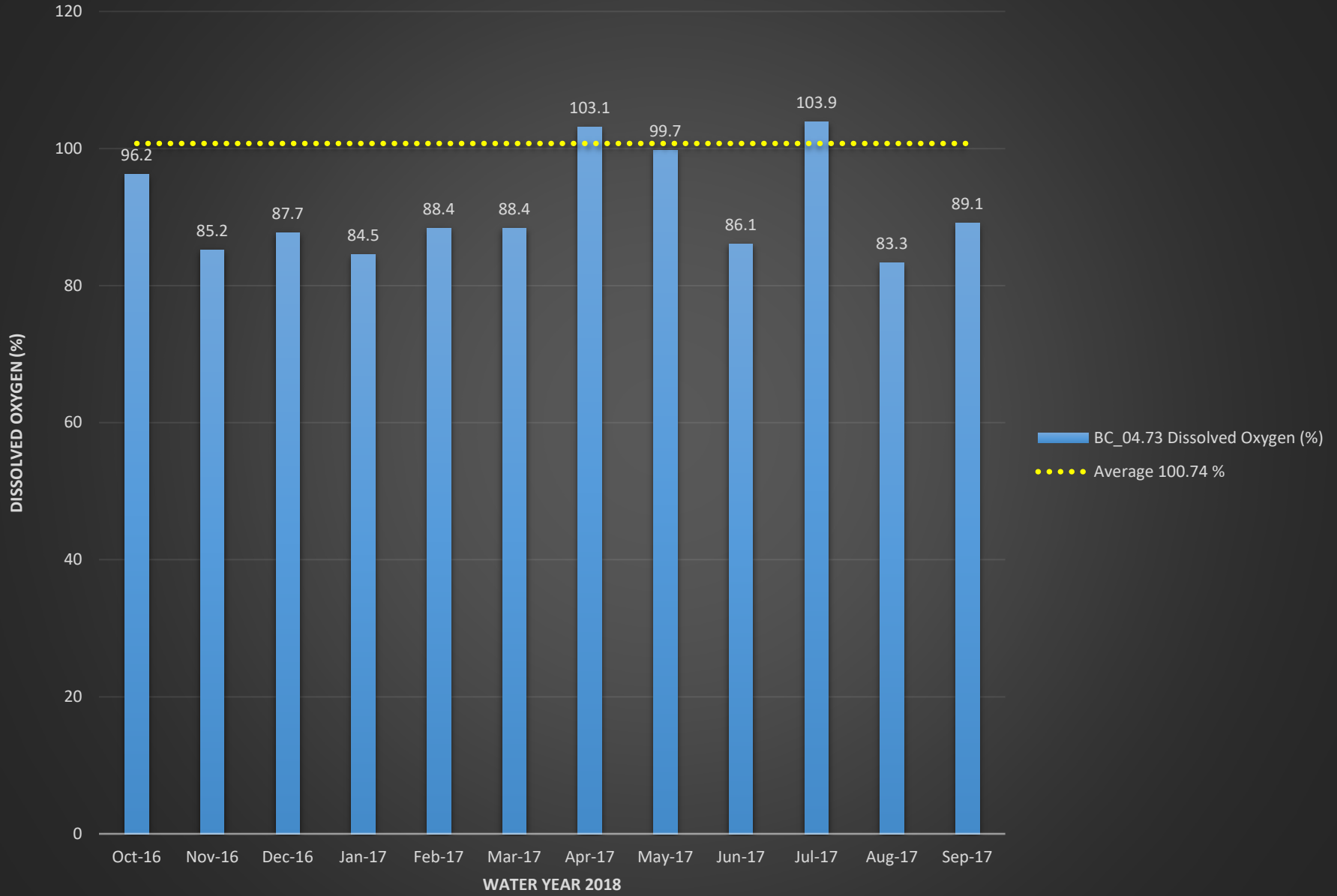




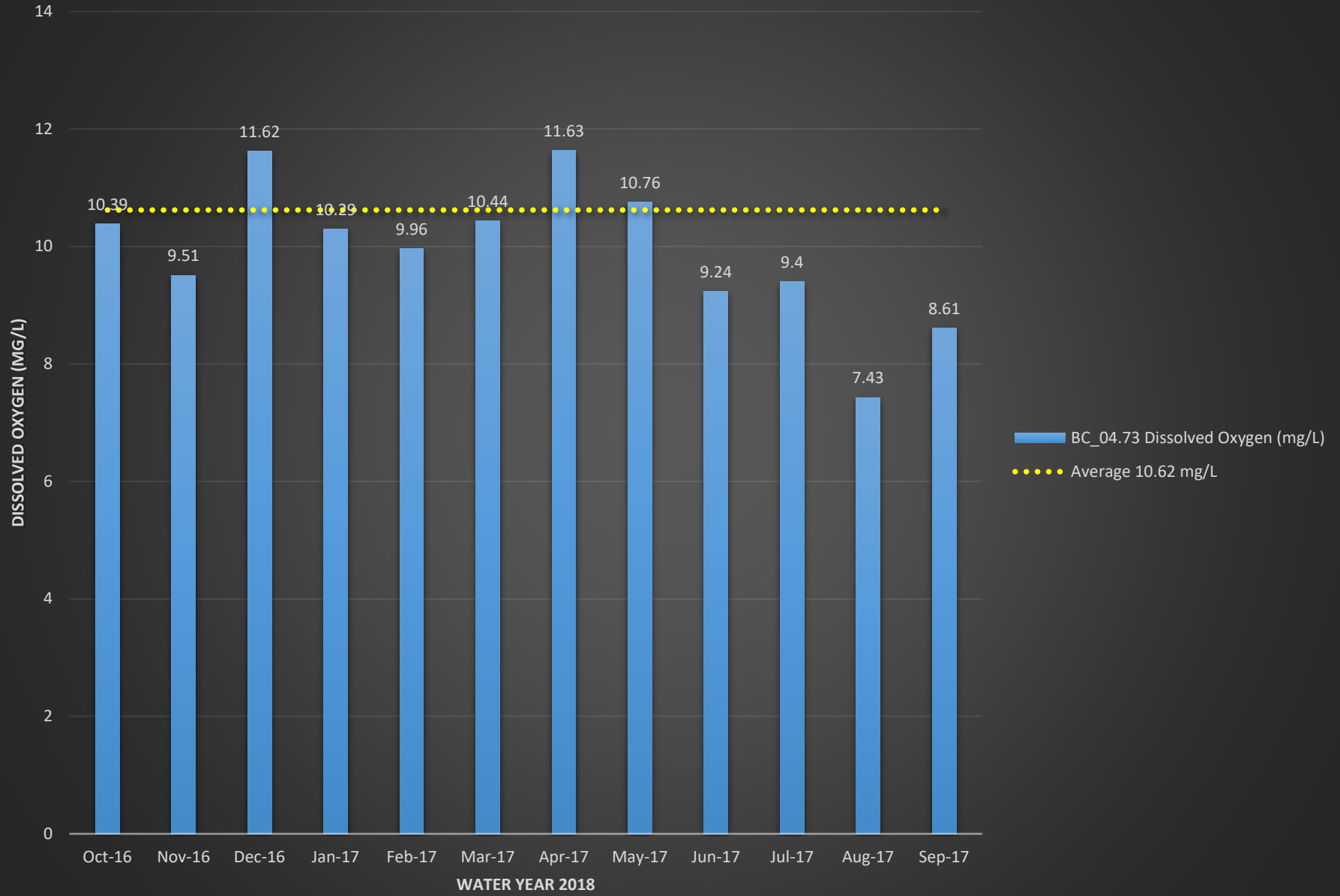
# BC\_04.73 Temperature (°C)



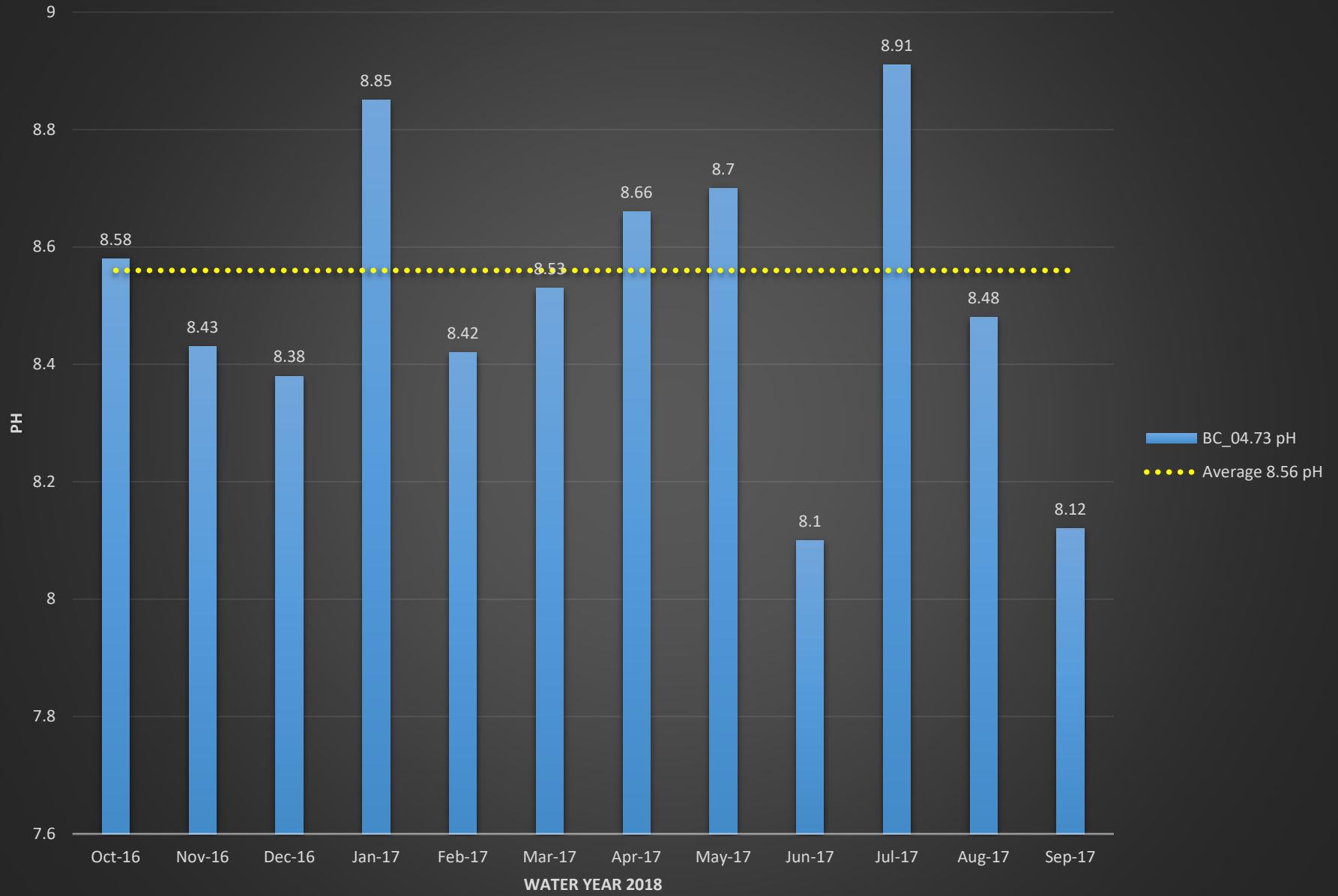
# BC\_04.73 Dissolved Oxygen (%)



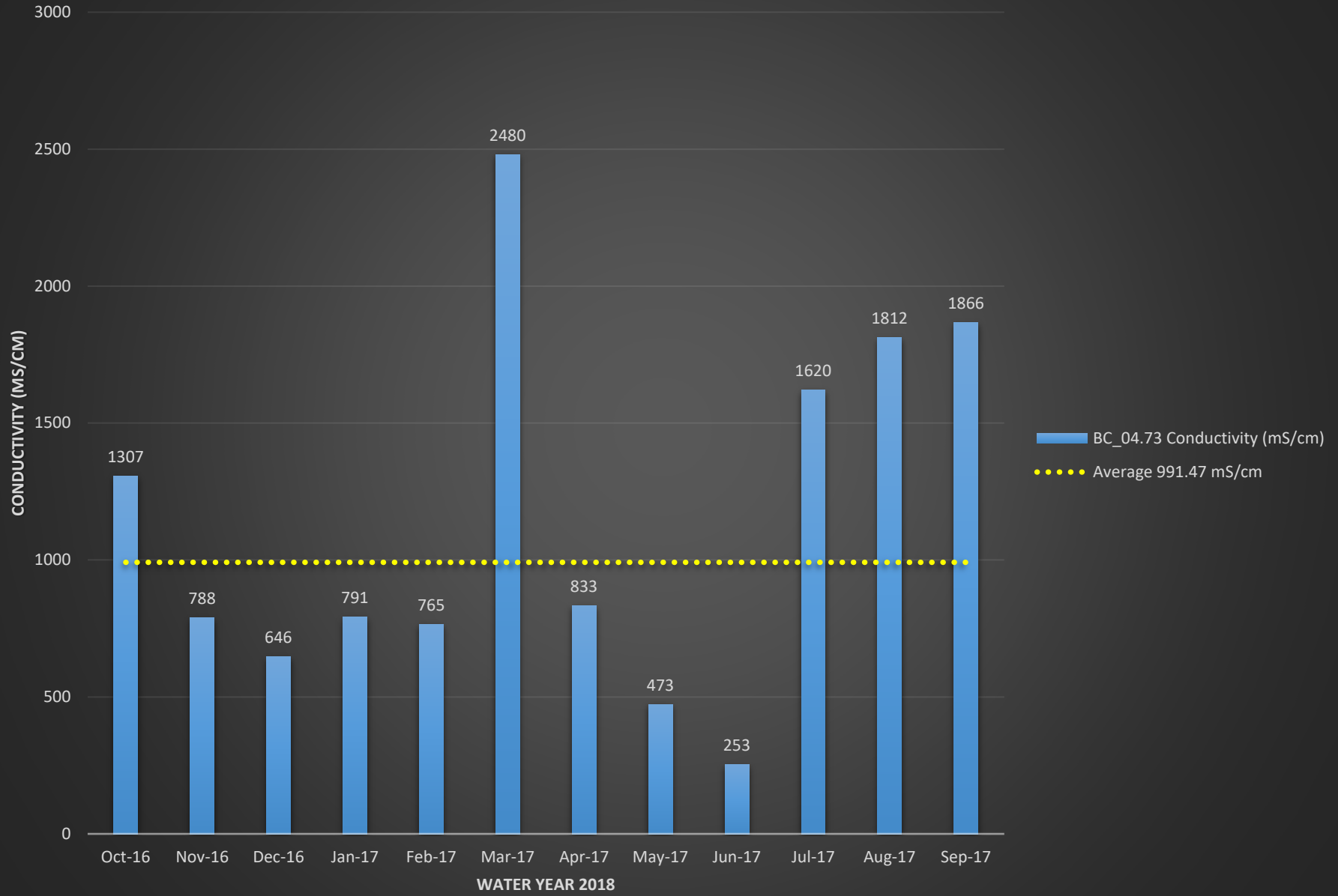
# BC\_04.73 Dissolved Oxygen (mg/L)



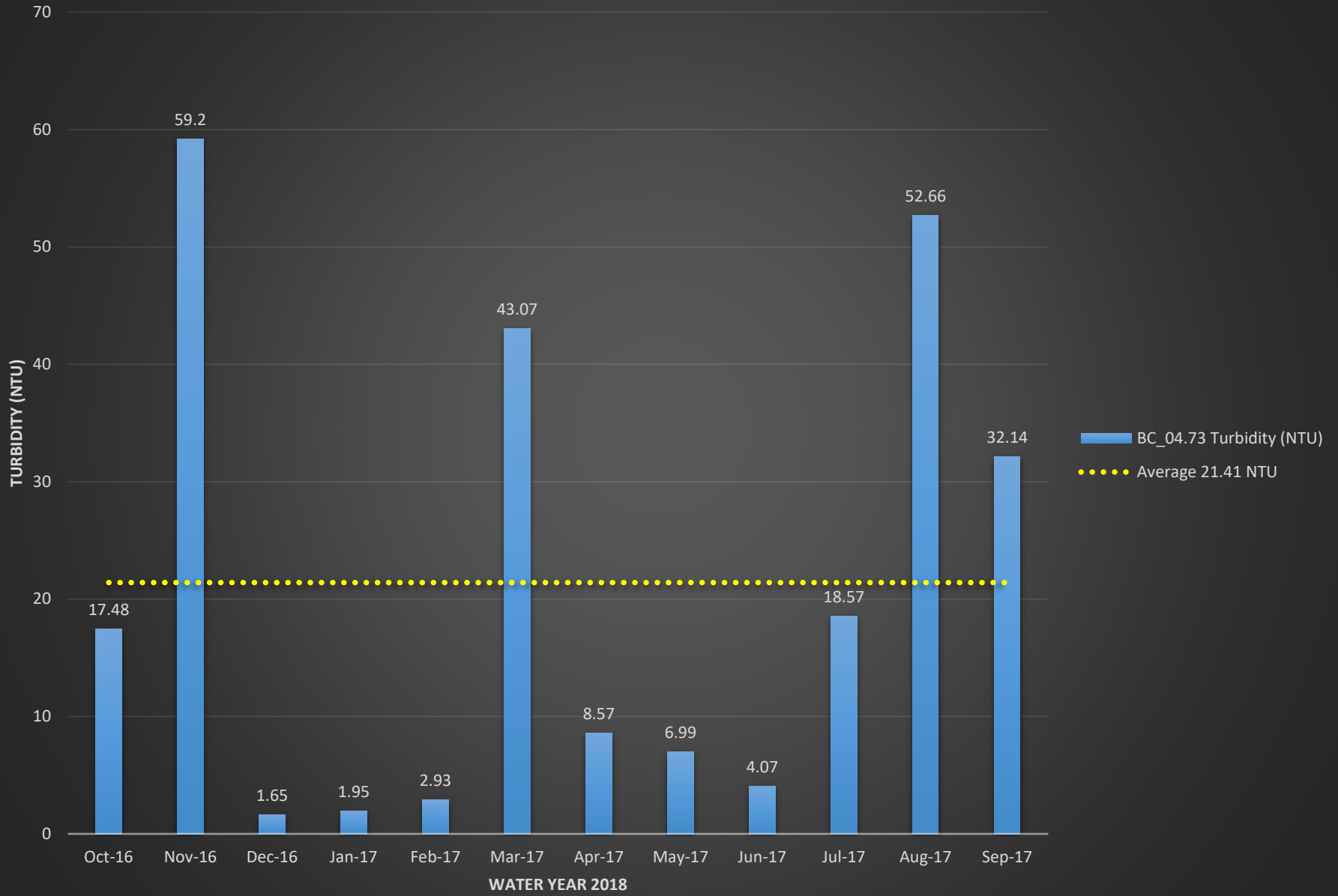
# BC\_04.73 pH



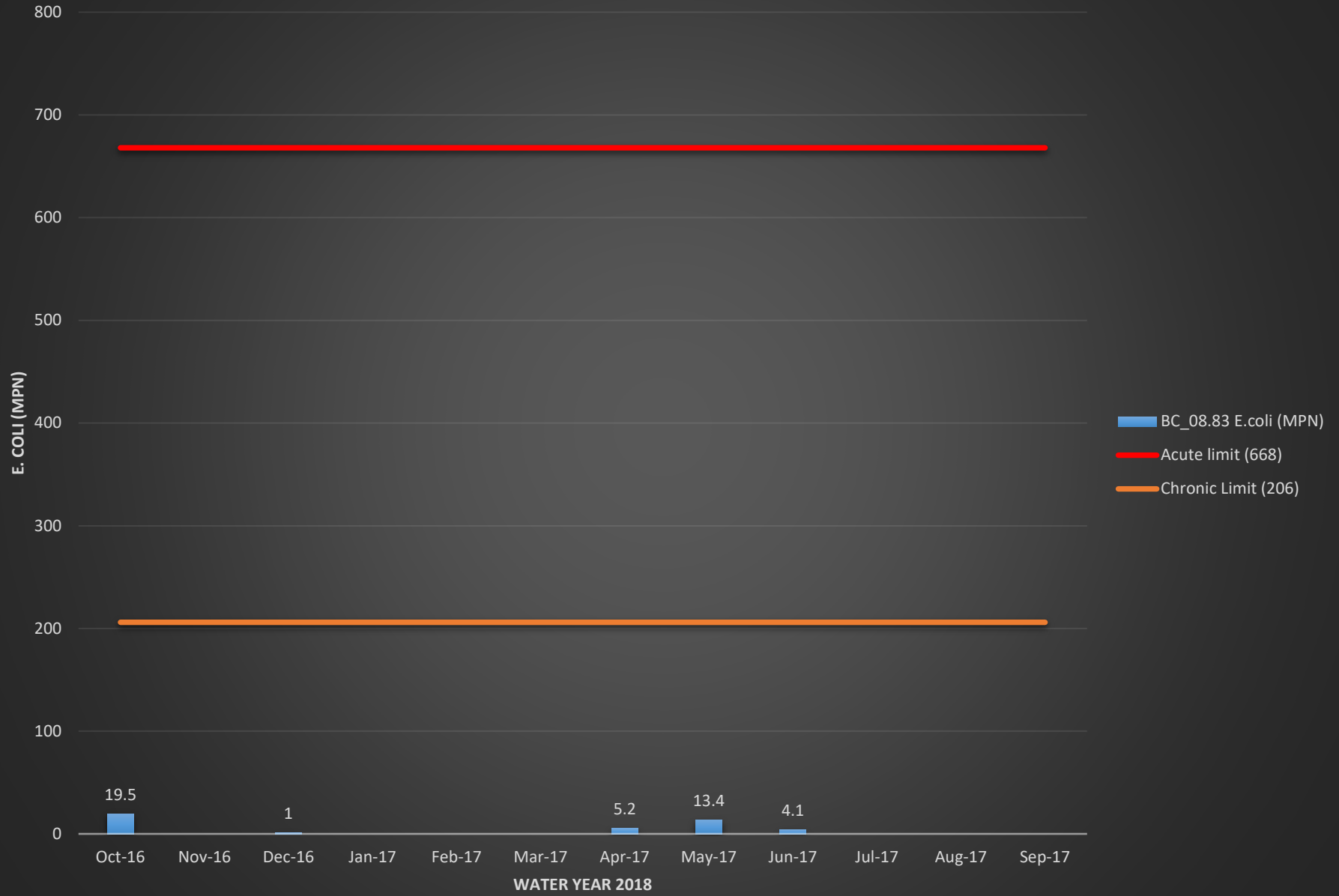
# BC\_04.73 Conductivity (mS/cm)



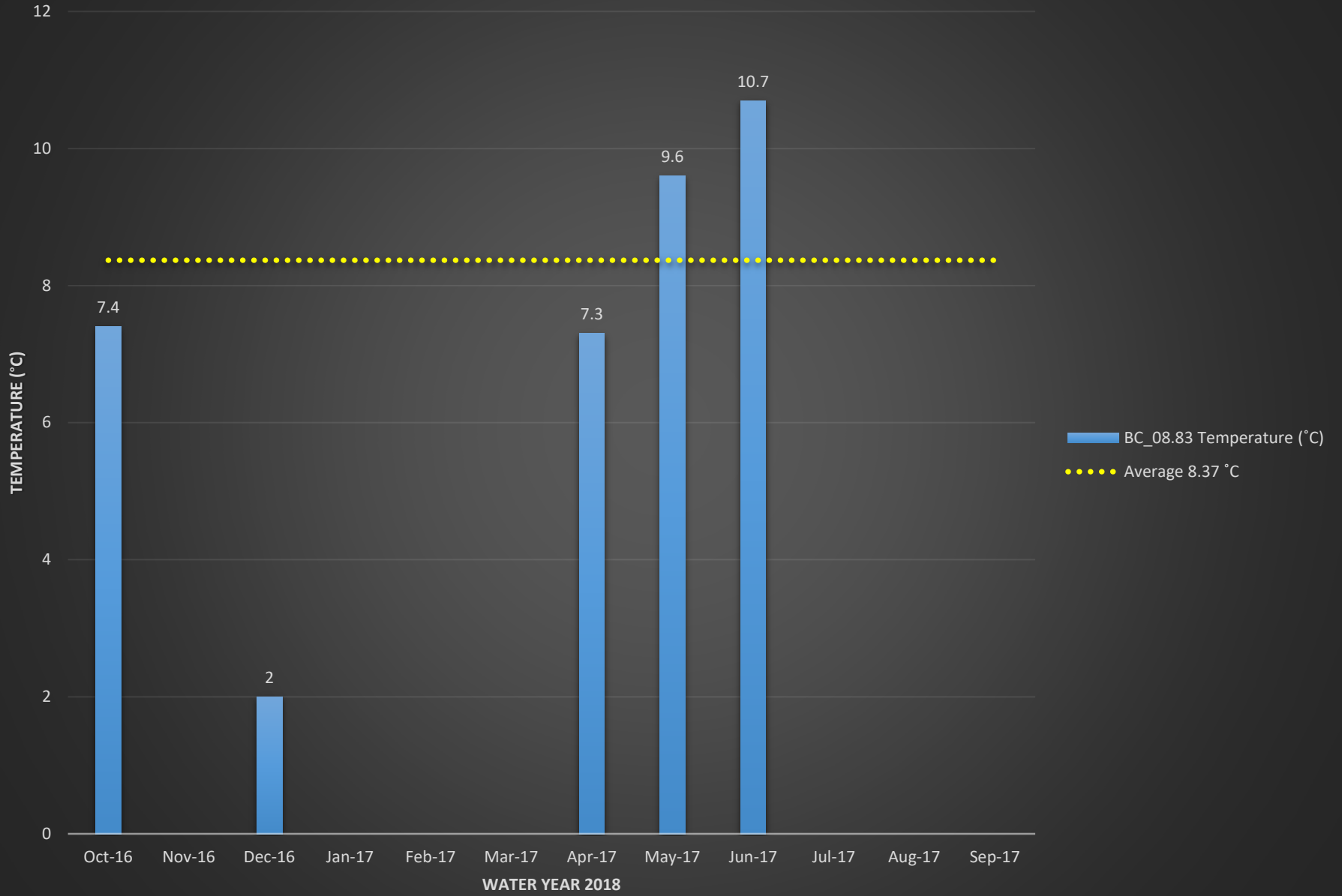
# BC\_04.73 Turbidity (NTU)



# BC\_08.83 E.coli (MPN)

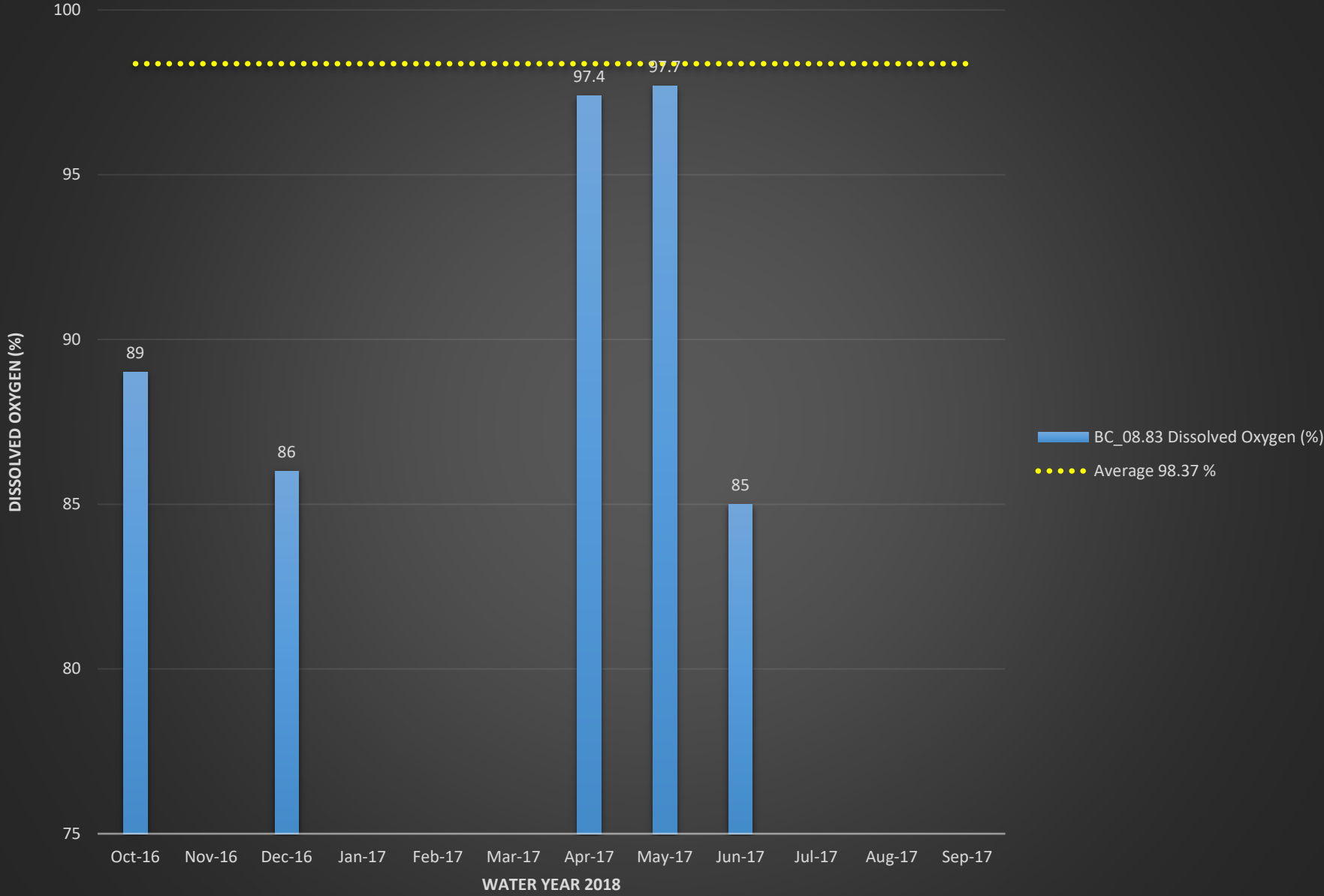


# BC\_08.83 Temperature (°C)

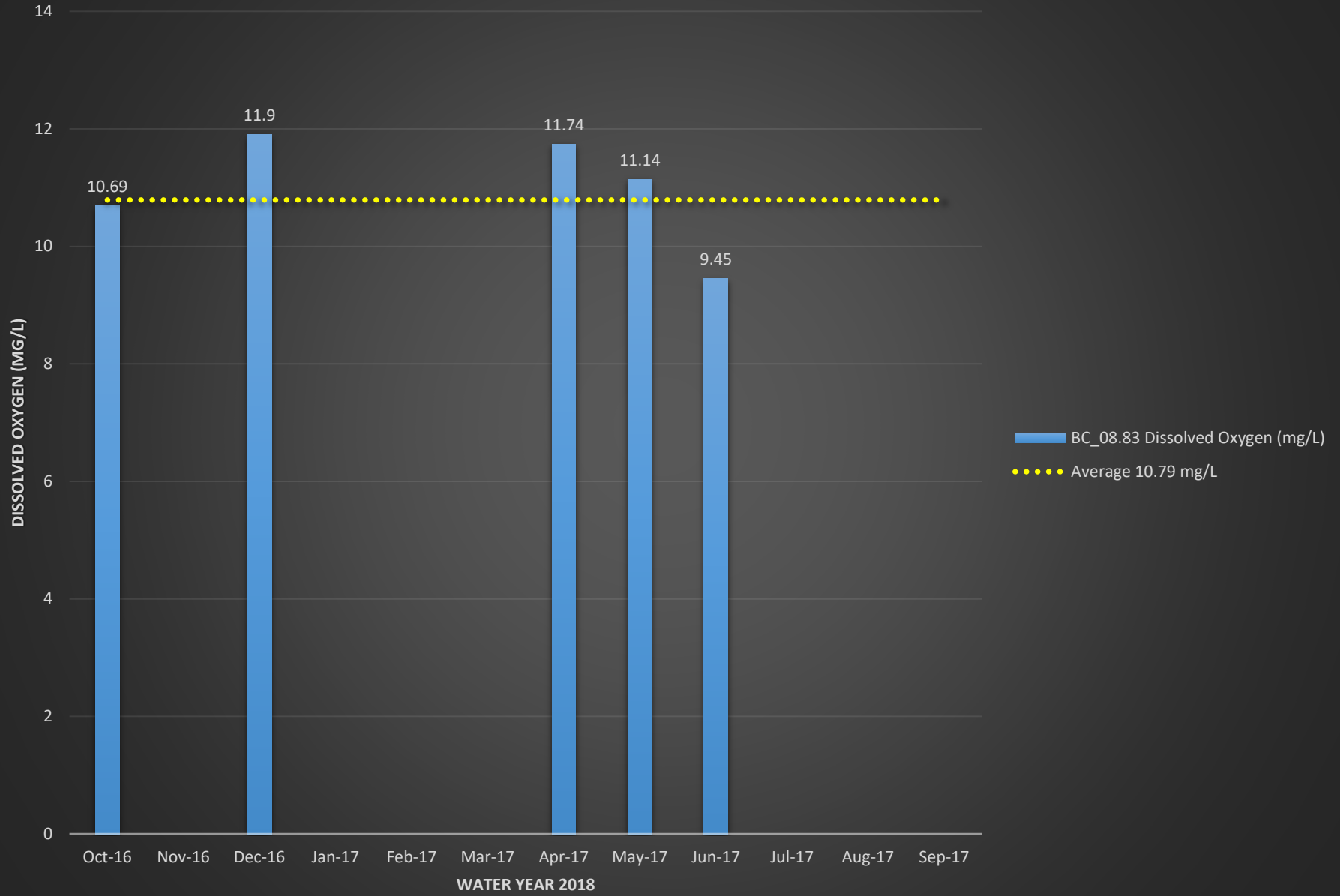




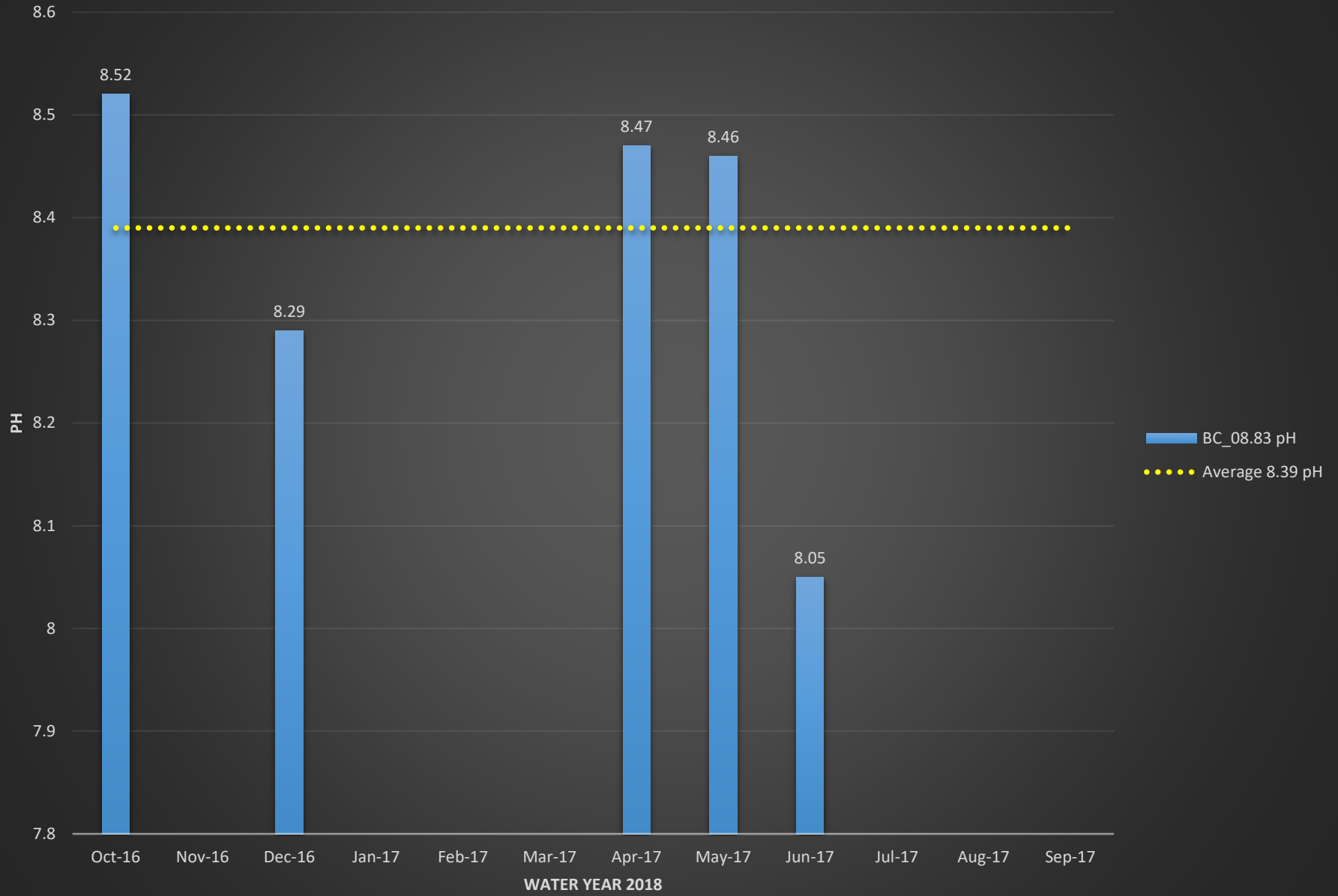
# BC\_08.83 Dissolved Oxygen (%)



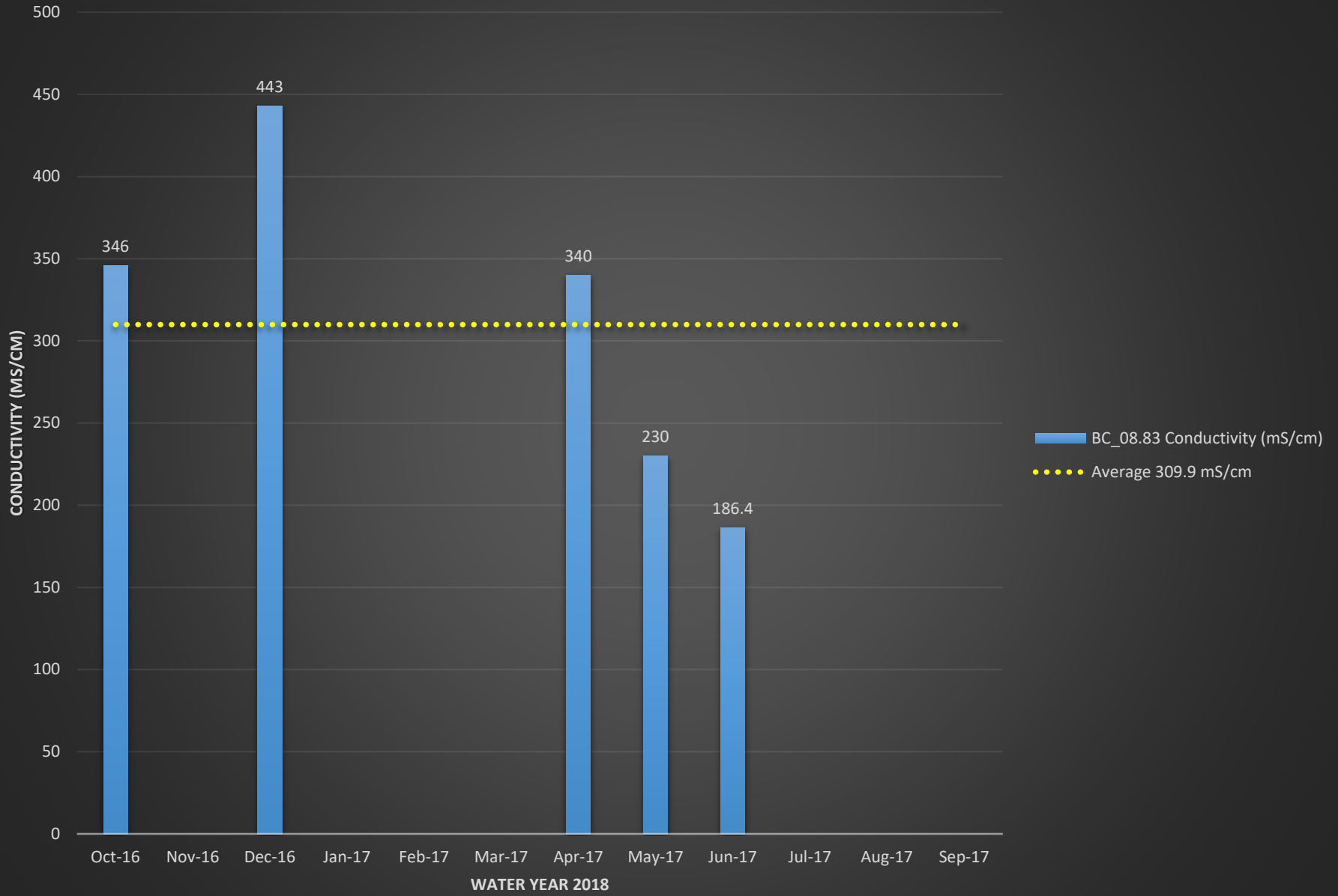
# BC\_08.83 Dissolved Oxygen (mg/L)



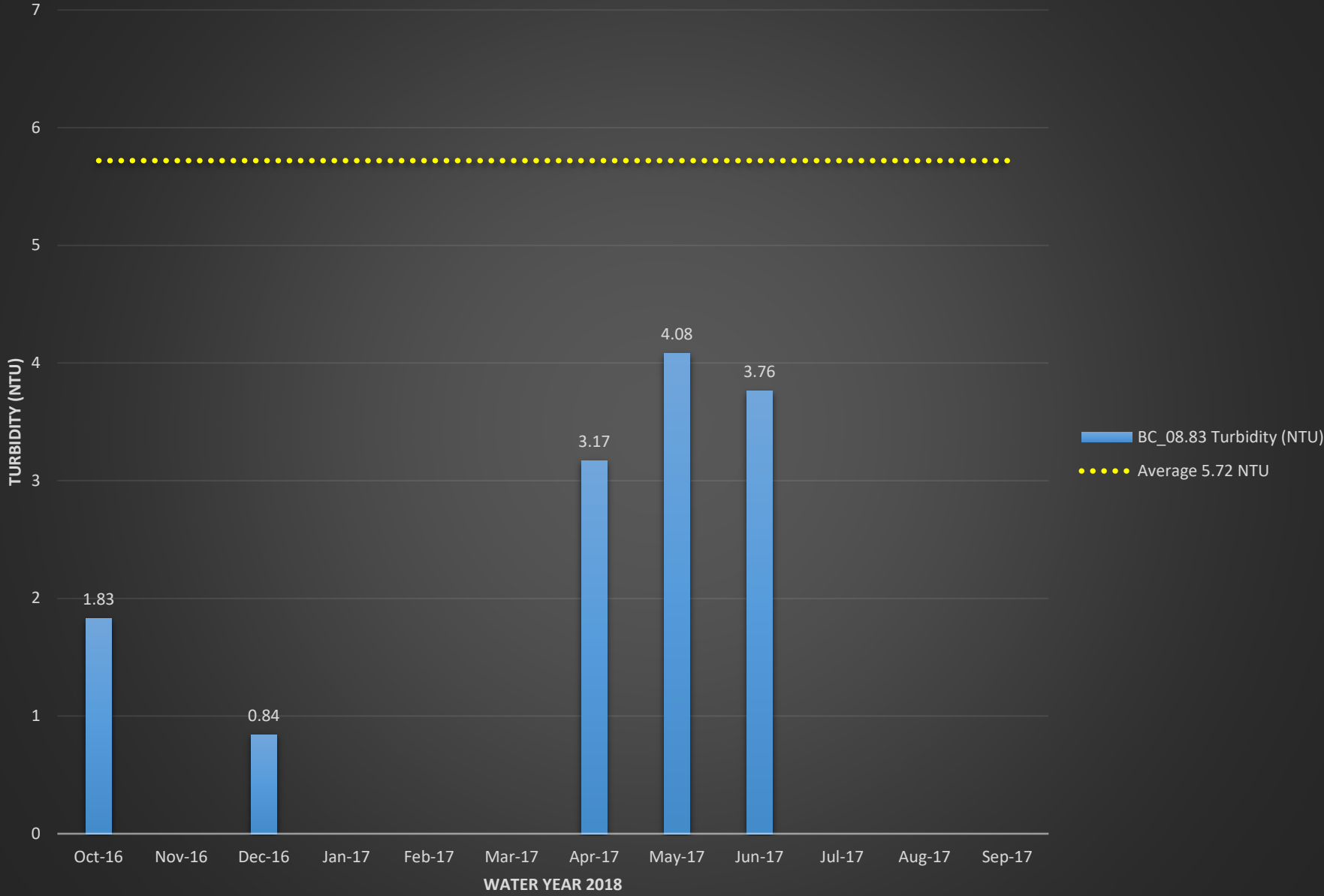
# BC\_08.83 pH



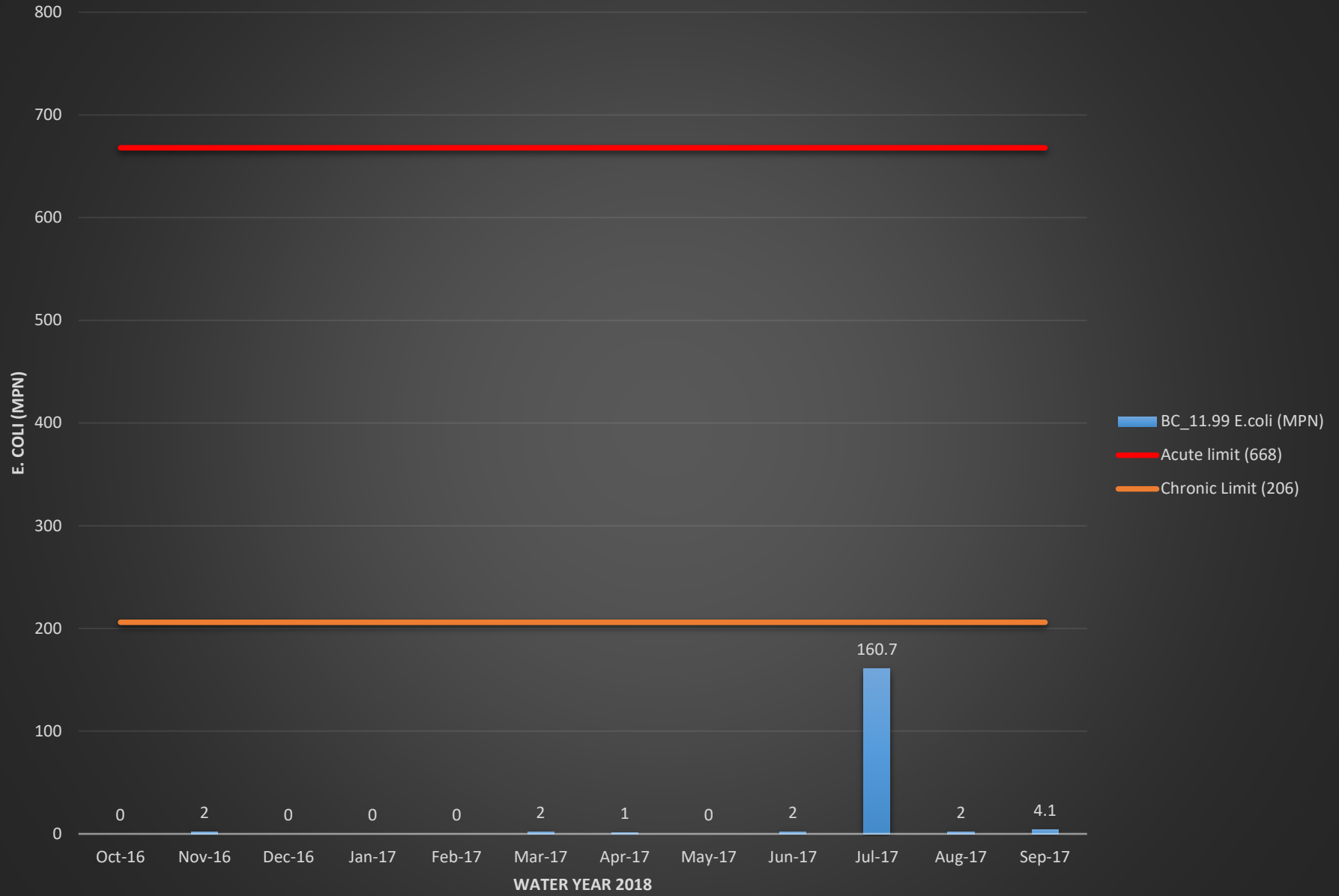
# BC\_08.83 Conductivity (mS/cm)



# BC\_08.83 Turbidity (NTU)

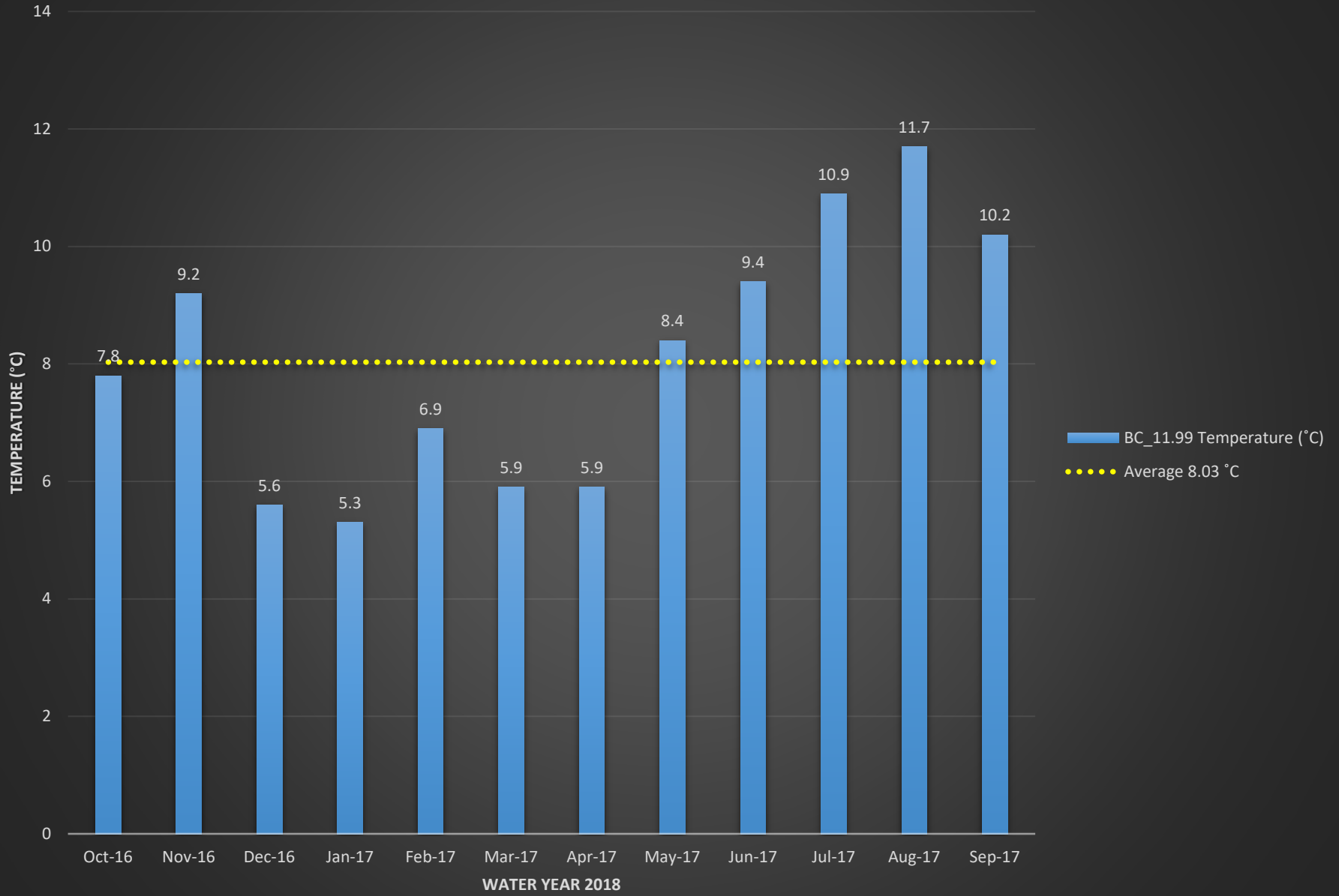


# BC\_11.99 E.coli (MPN)

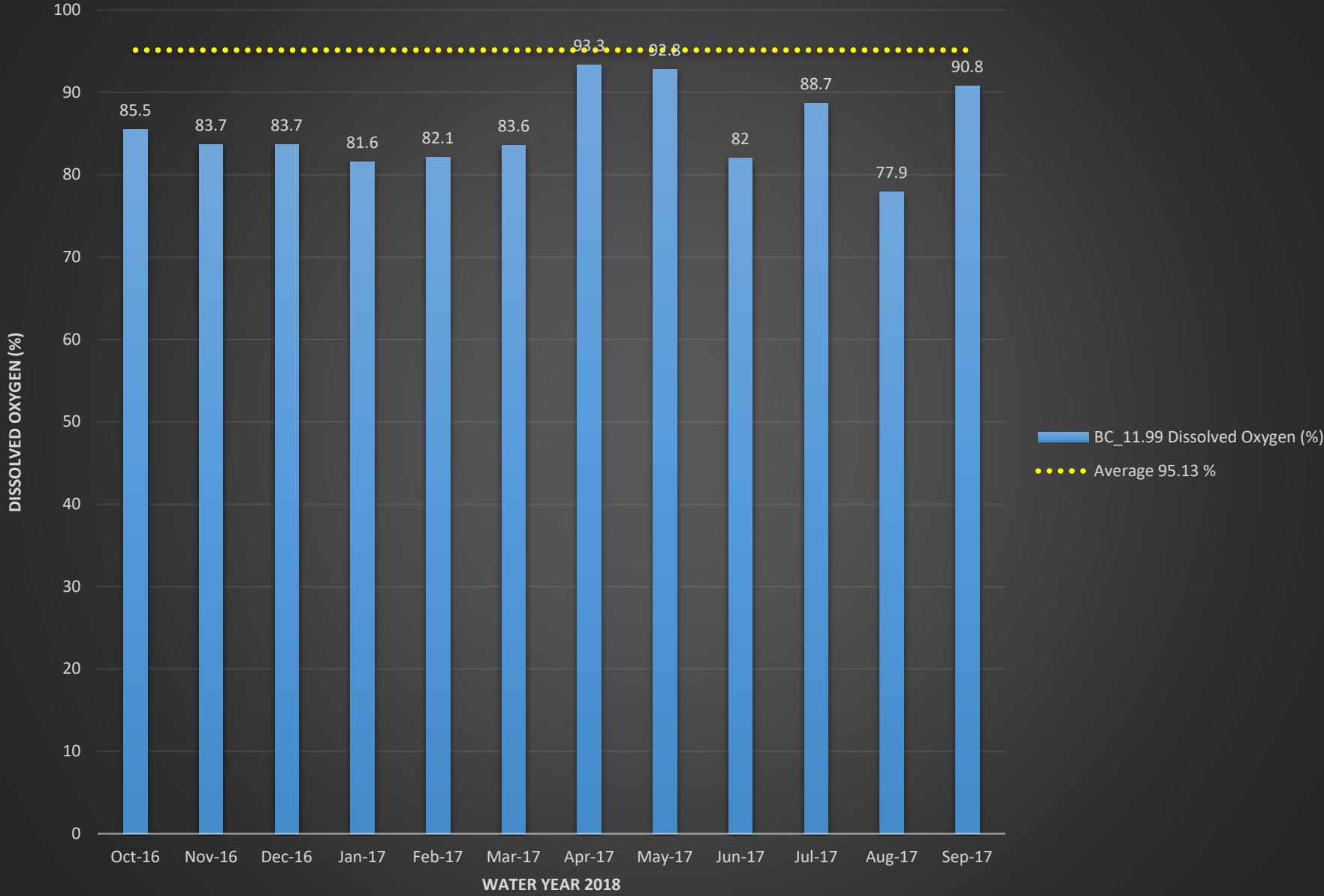




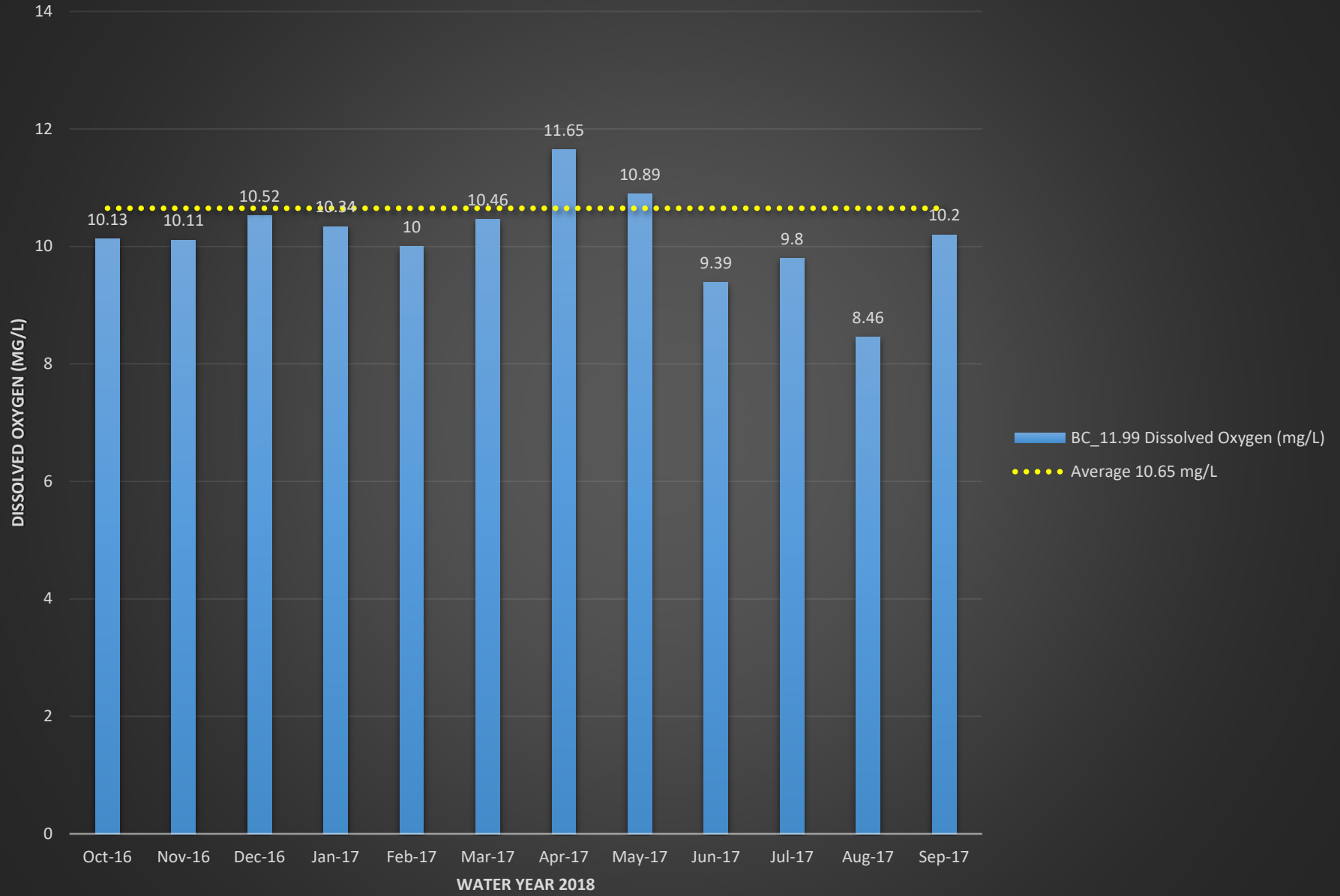
# BC\_11.99 Temperature (°C)



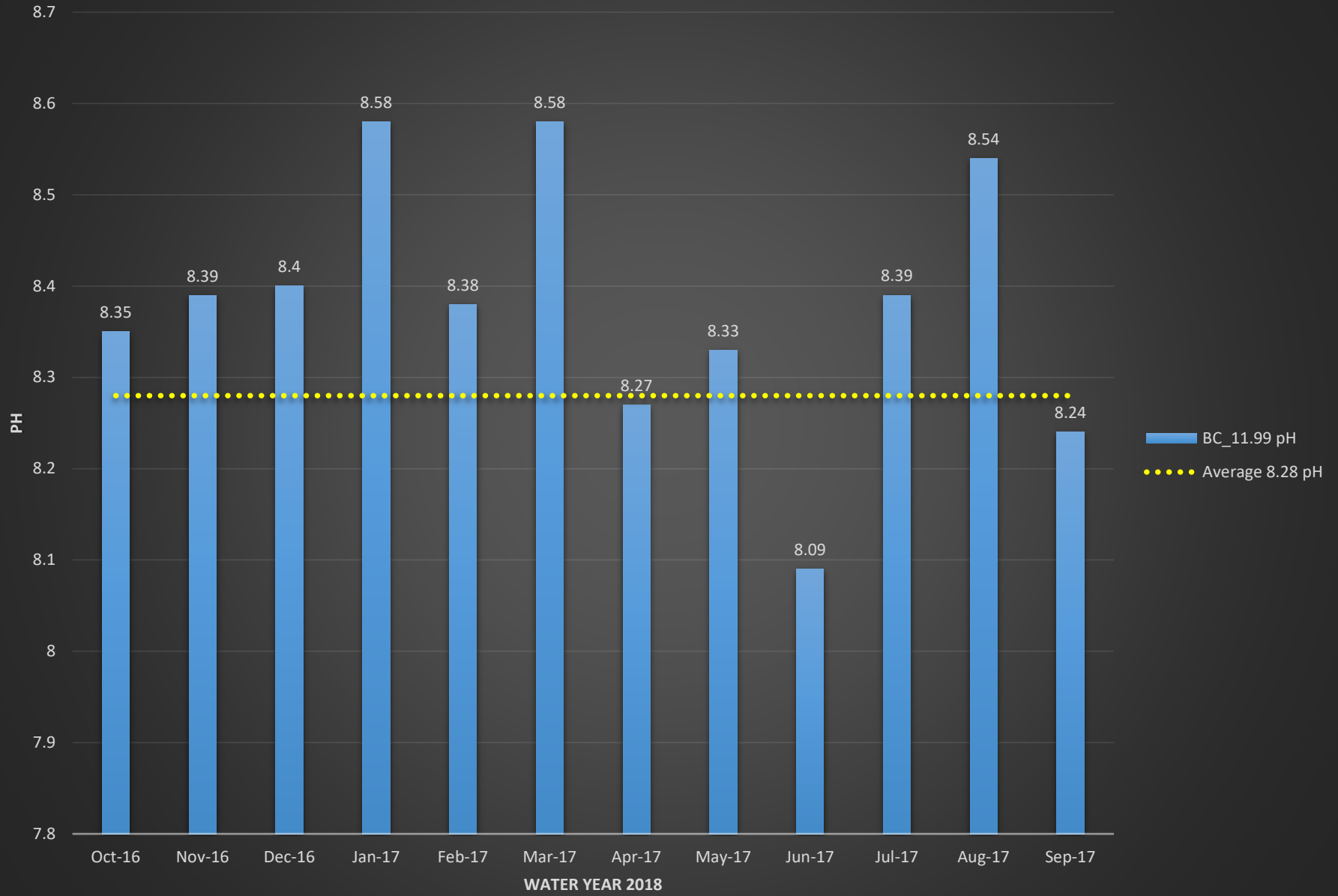
# BC\_11.99 Dissolved Oxygen (%)



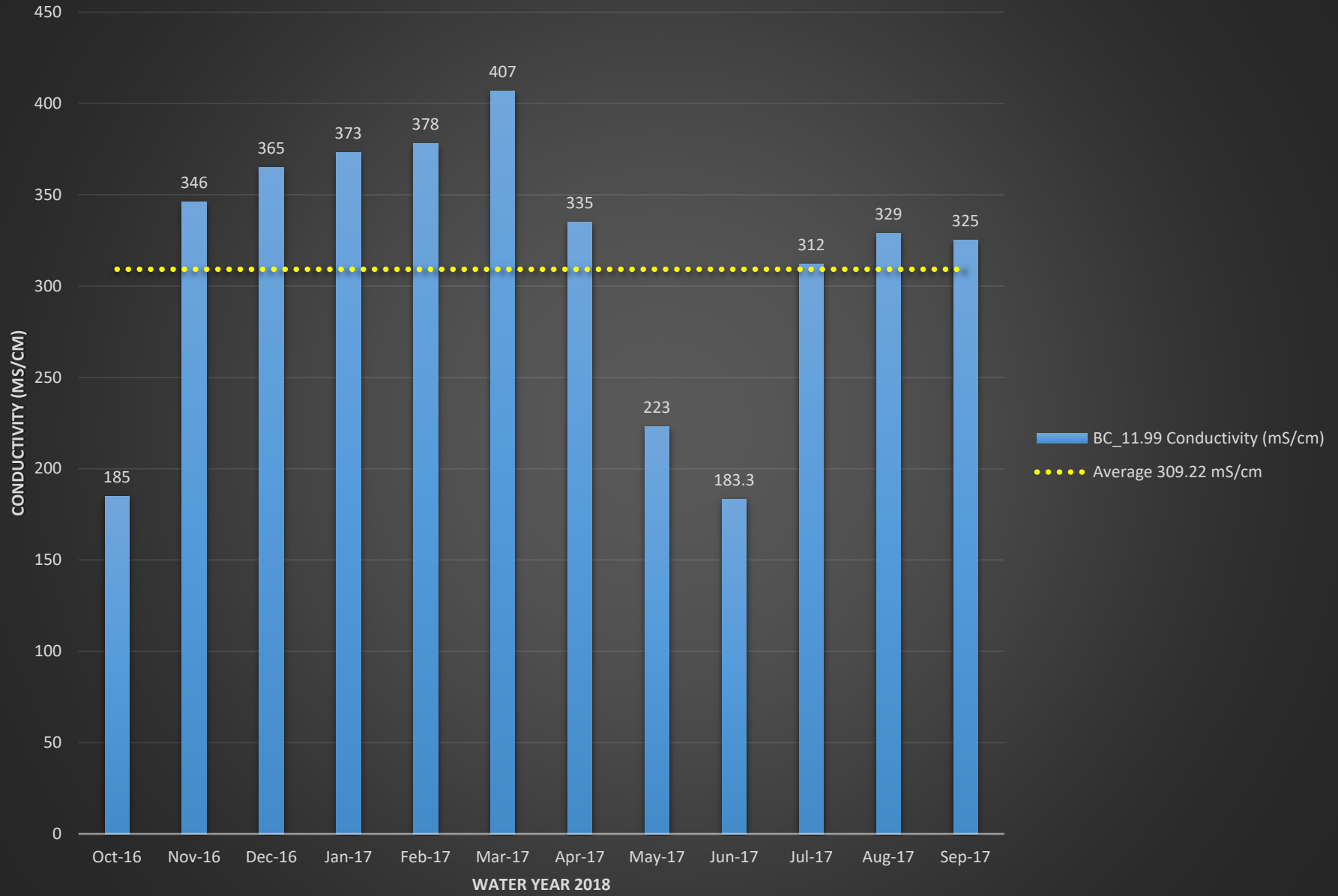
# BC\_11.99 Dissolved Oxygen (mg/L)



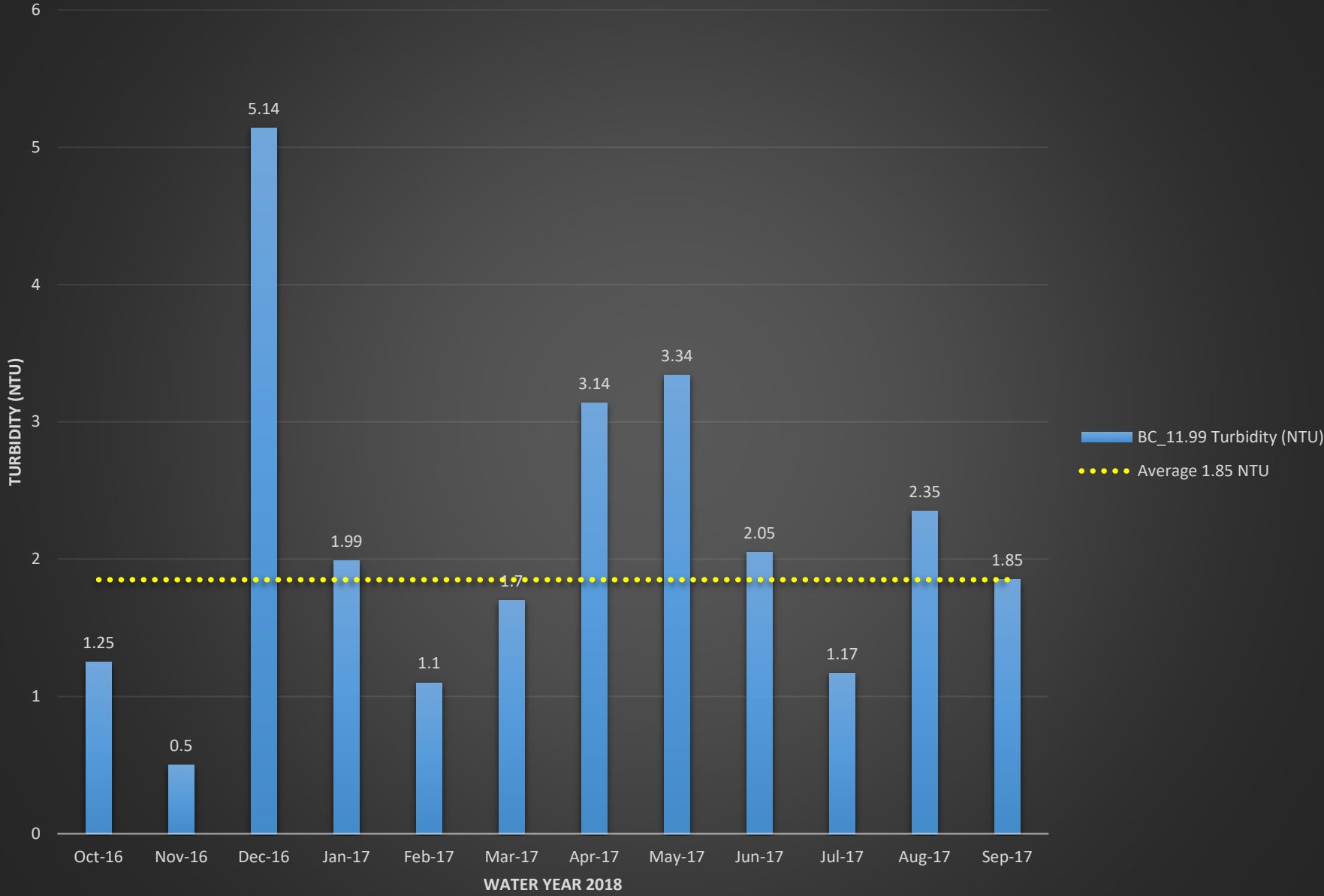
# BC\_11.99 pH



# BC\_11.99 Conductivity (mS/cm)

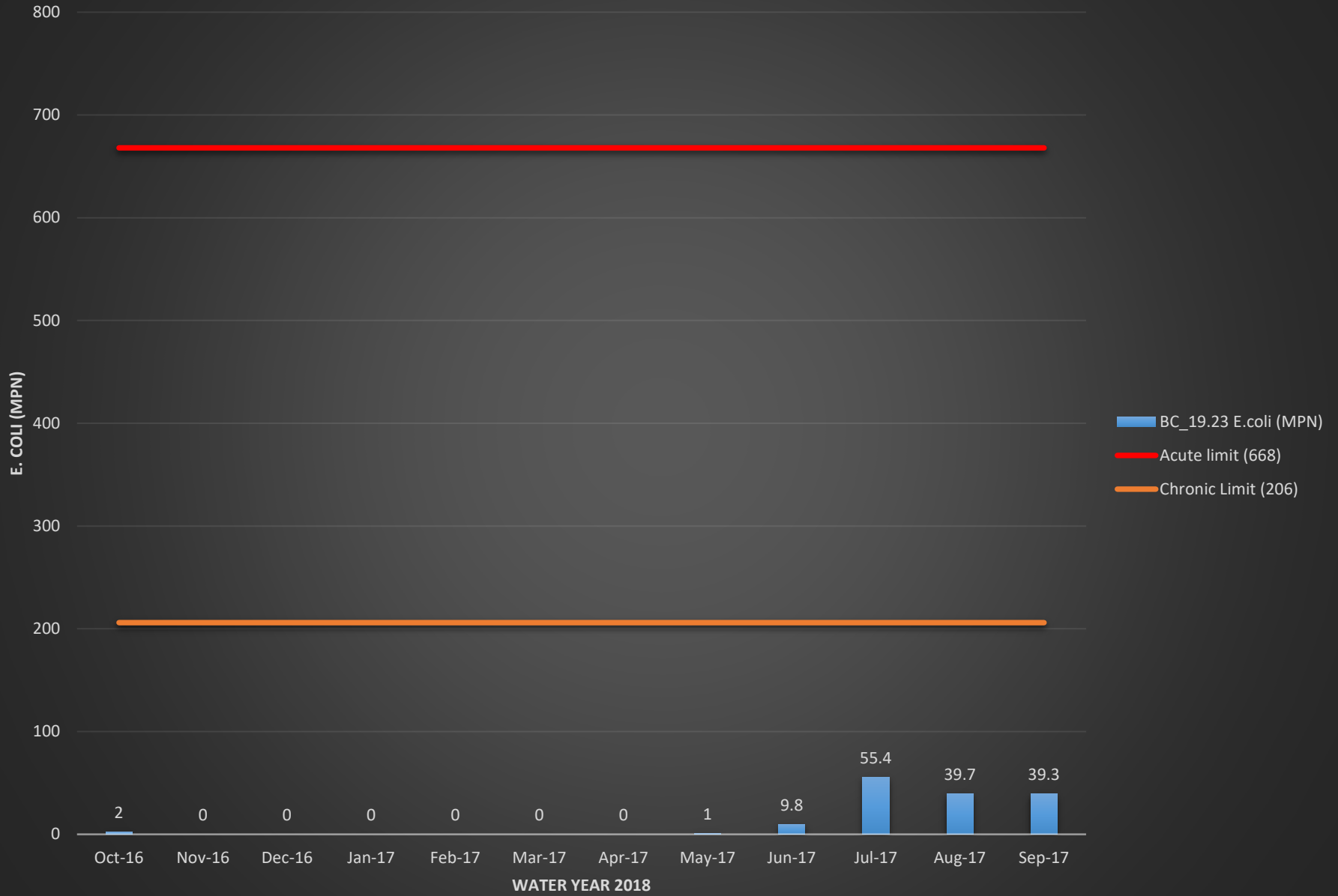


# BC\_11.99 Turbidity (NTU)

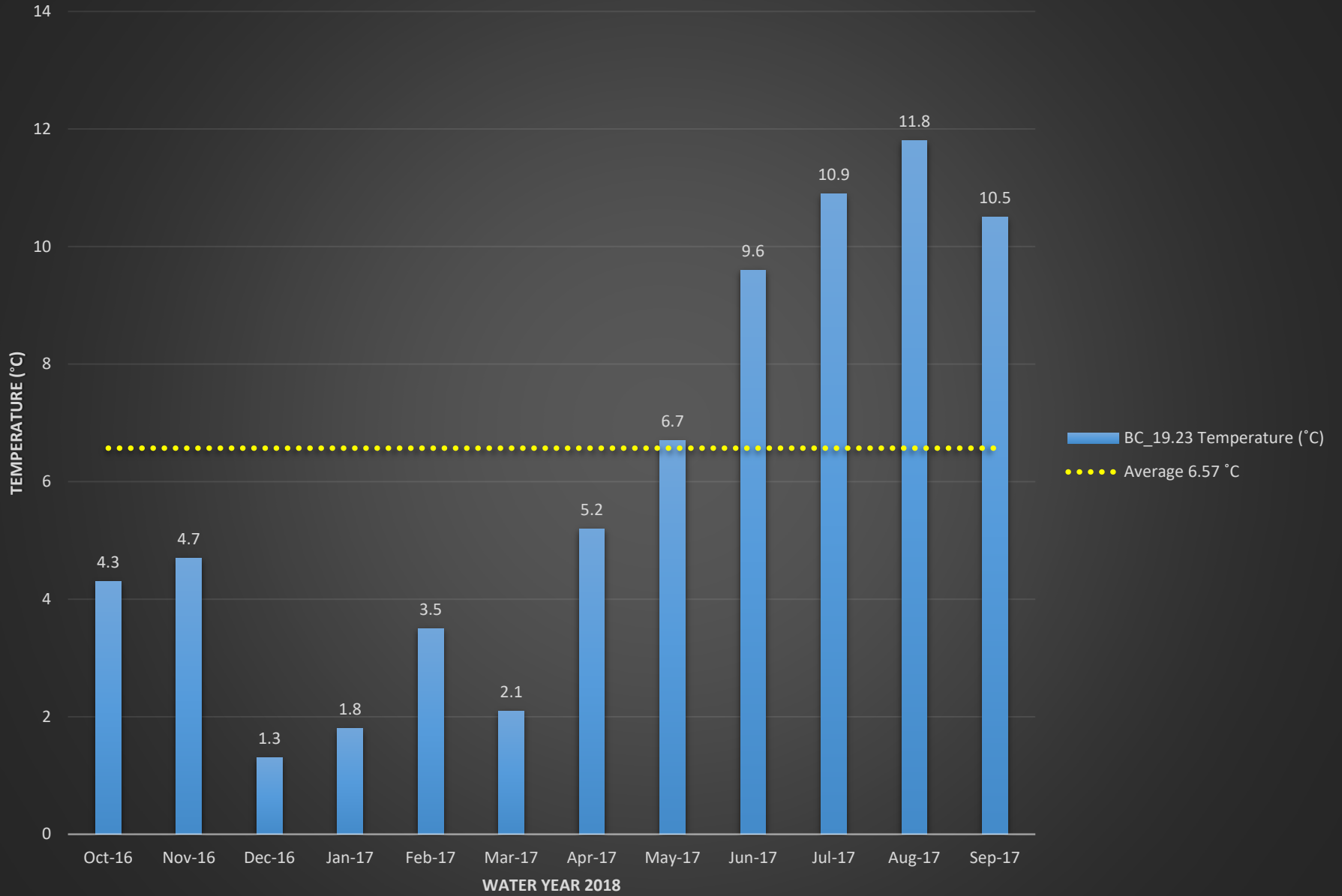




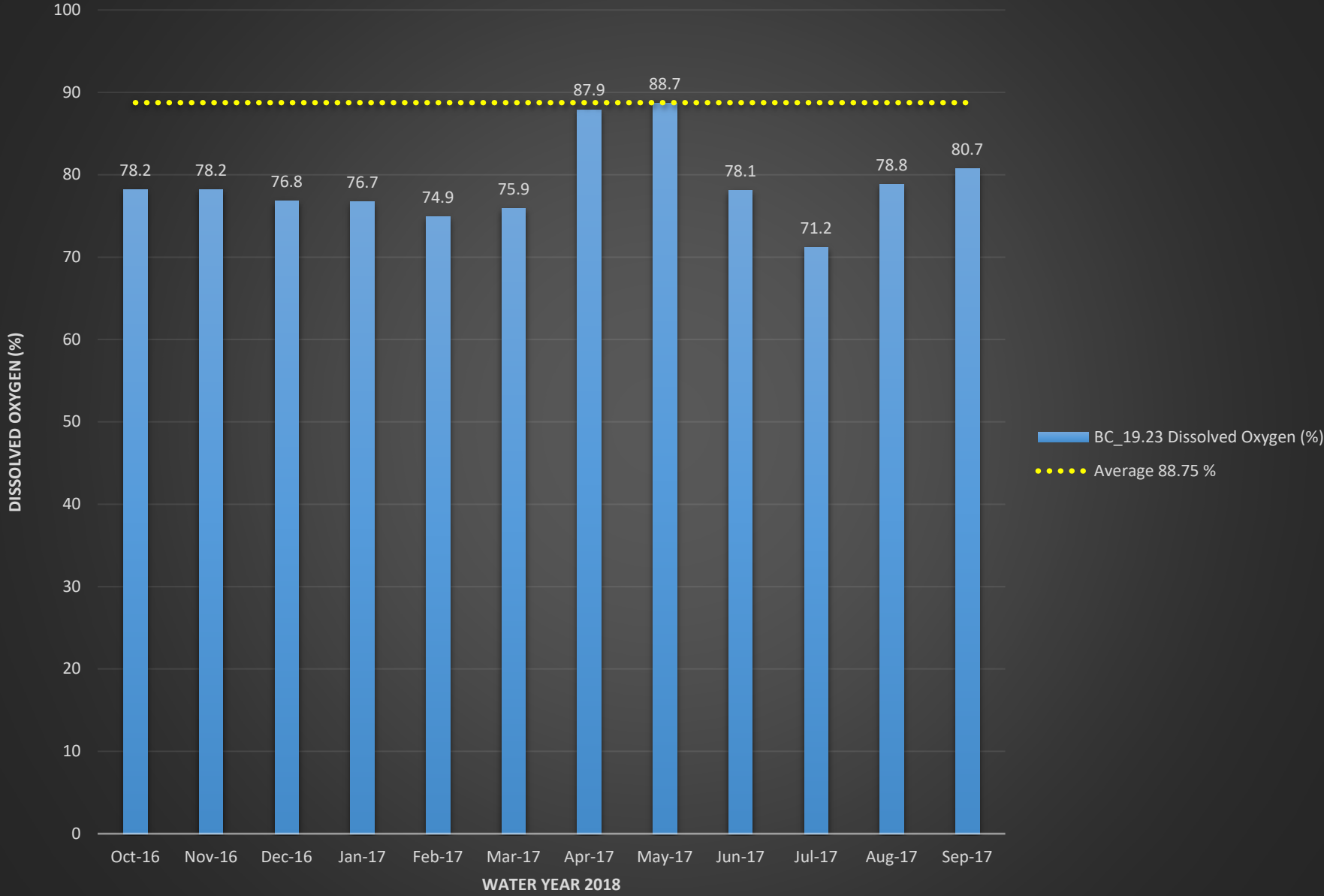
# BC\_19.23 E.coli (MPN)



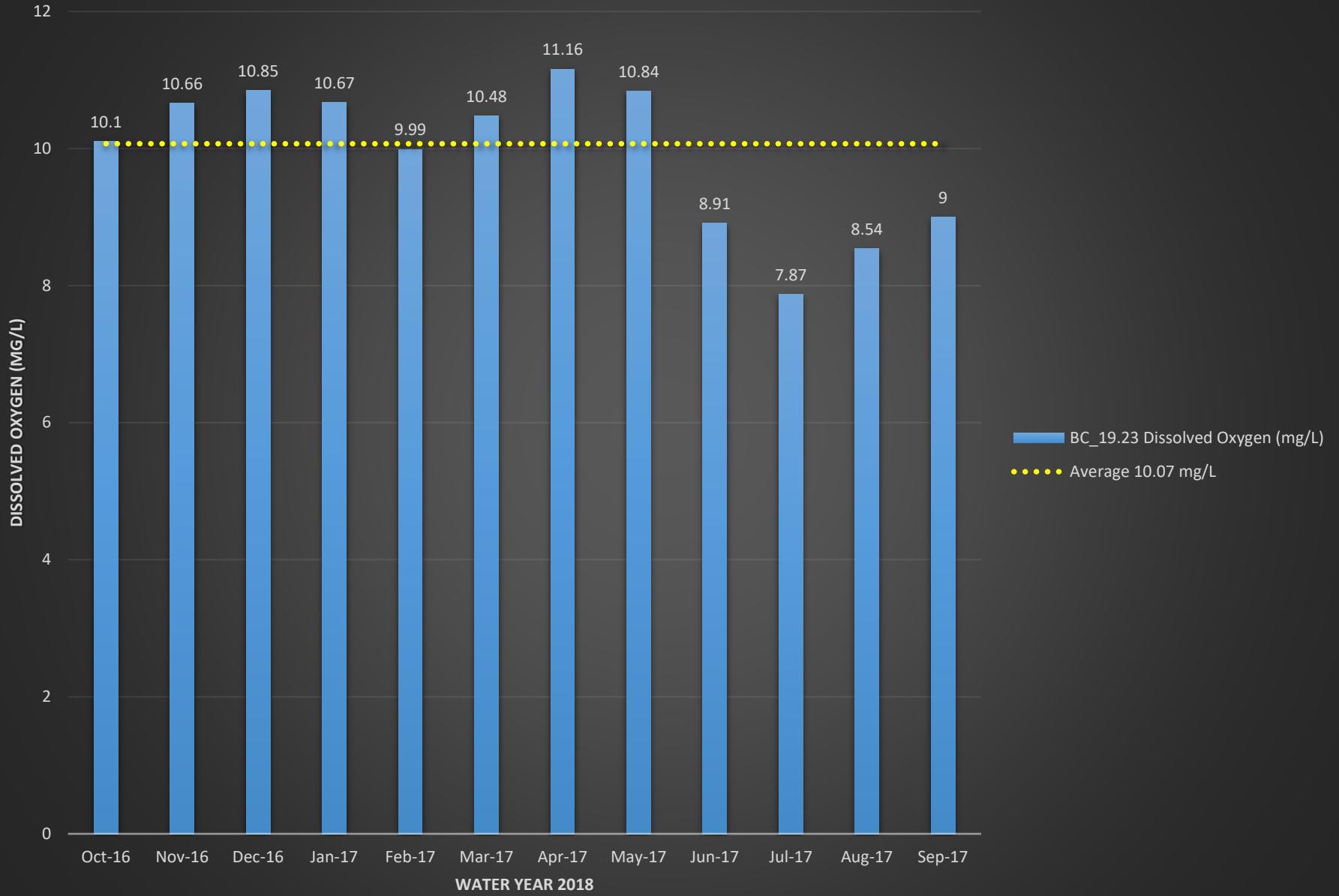
# BC\_19.23 Temperature (°C)



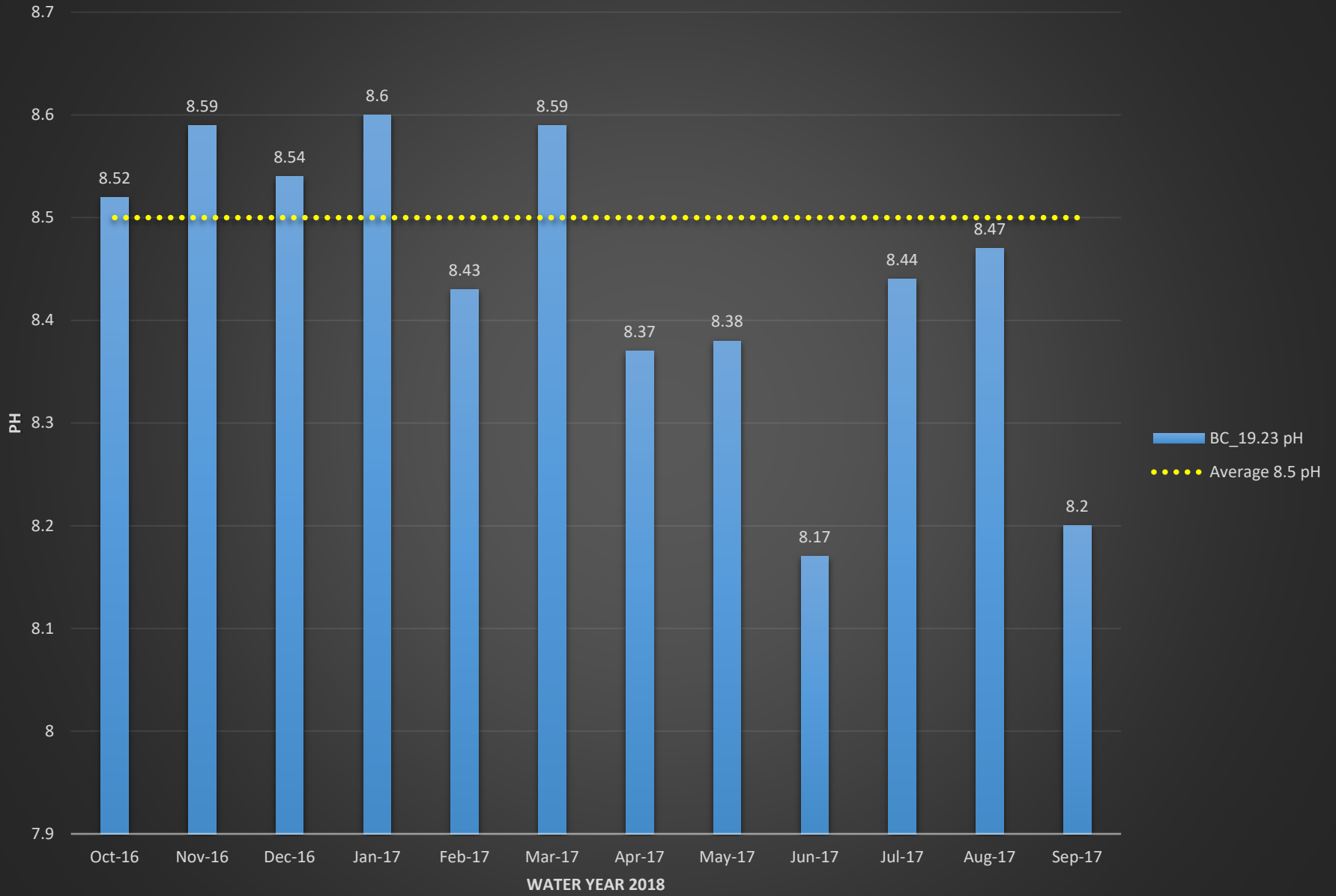
# BC\_19.23 Dissolved Oxygen (%)



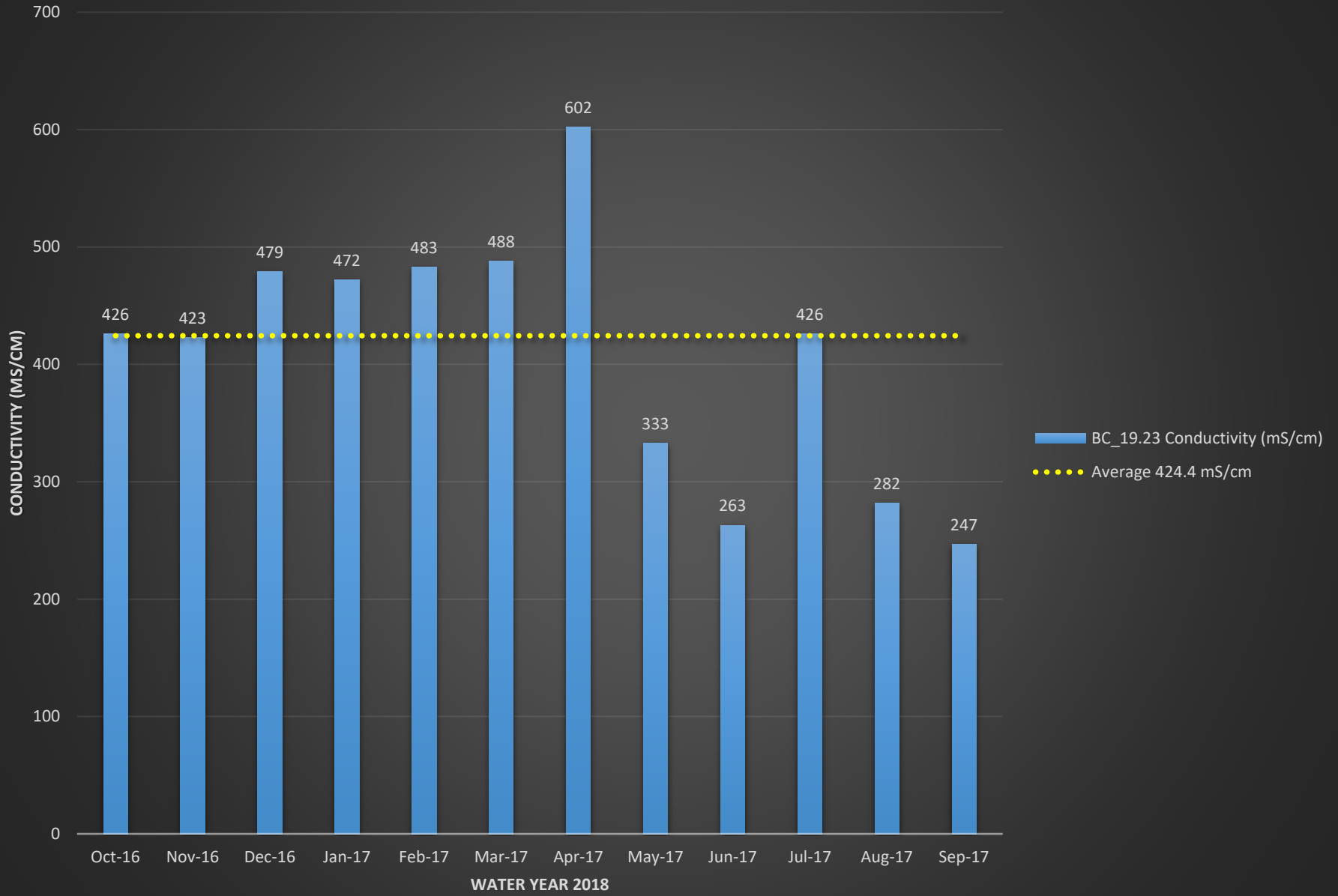
# BC\_19.23 Dissolved Oxygen (mg/L)



# BC\_19.23 pH

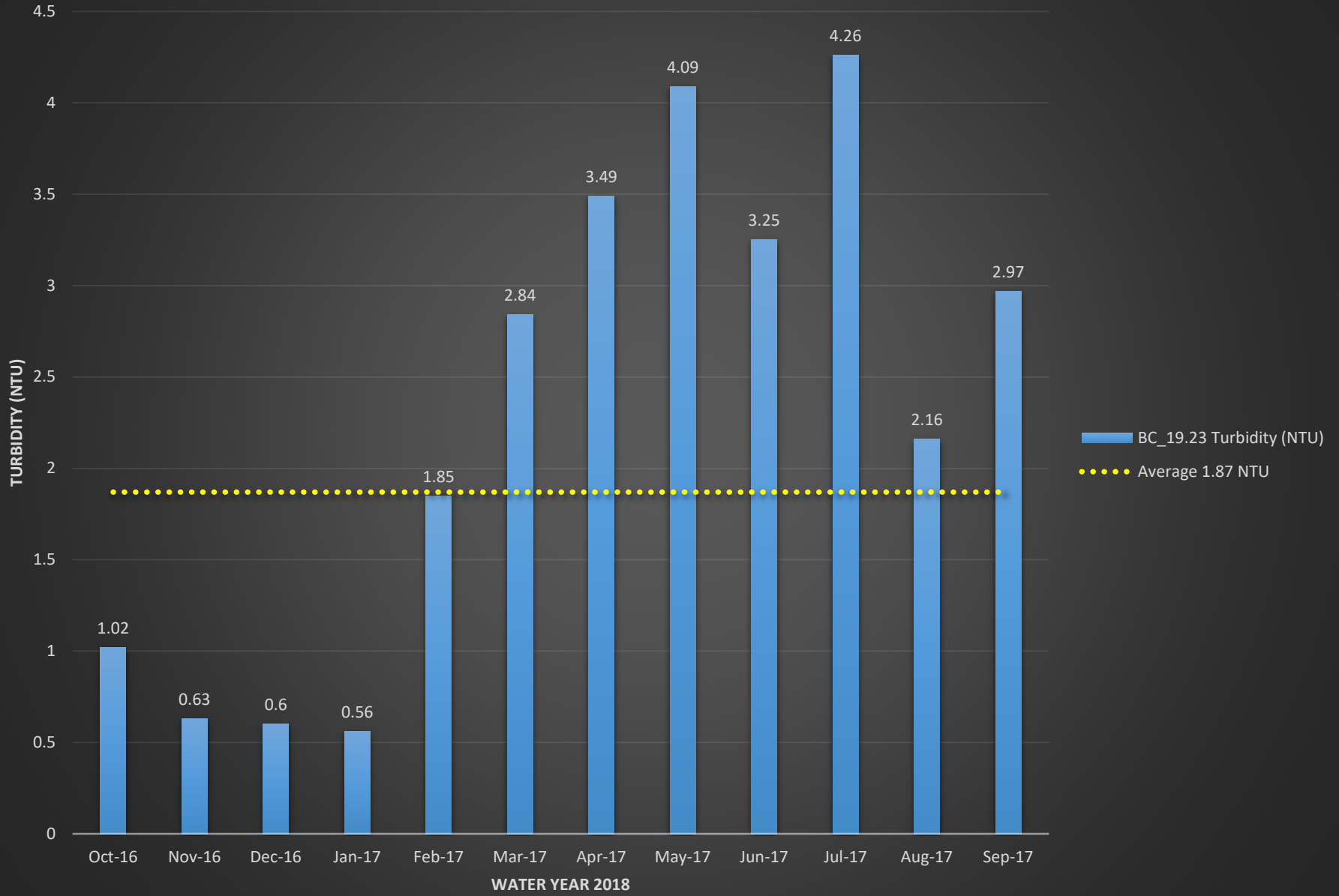


# BC\_19.23 Conductivity (mS/cm)

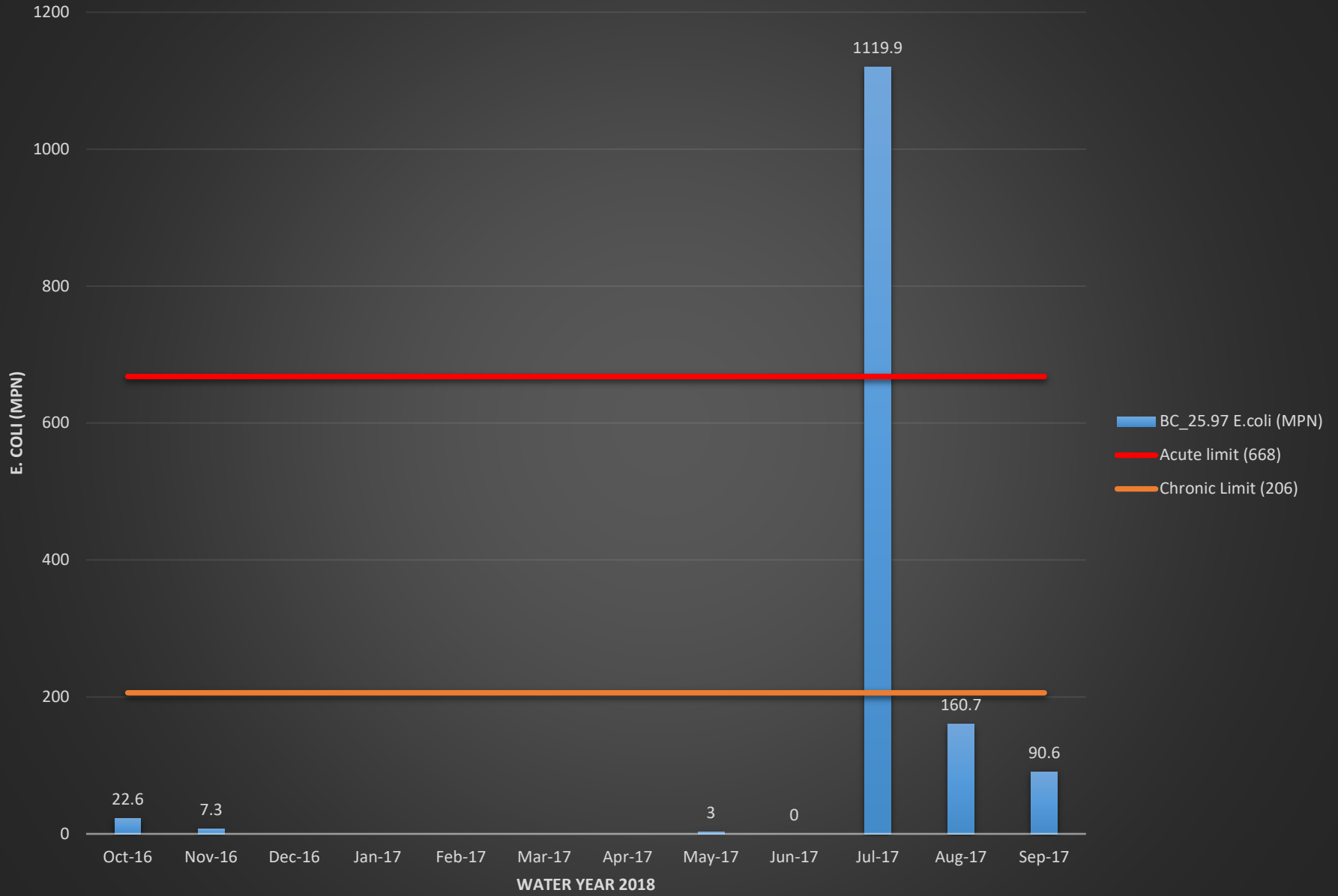




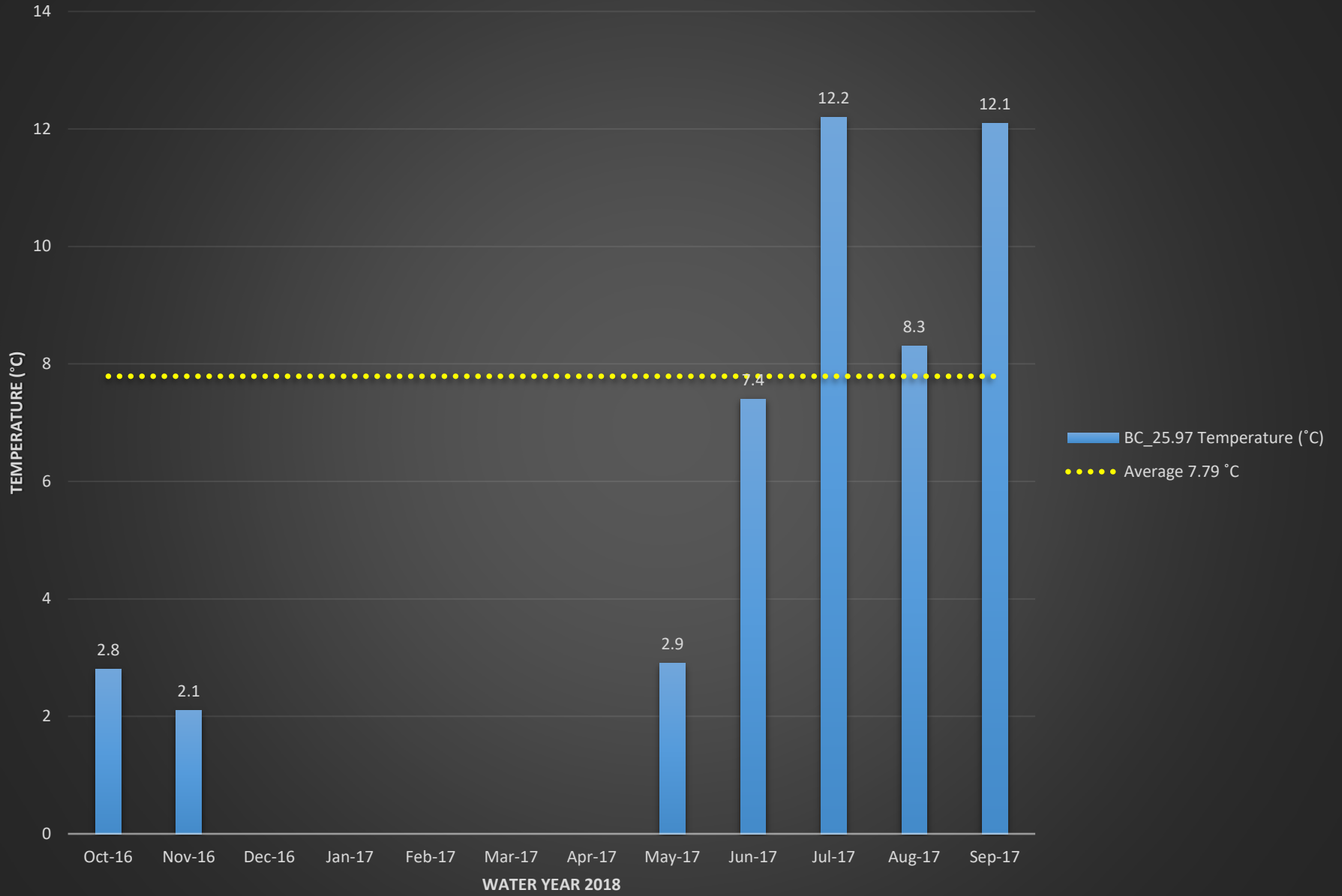
# BC\_19.23 Turbidity (NTU)



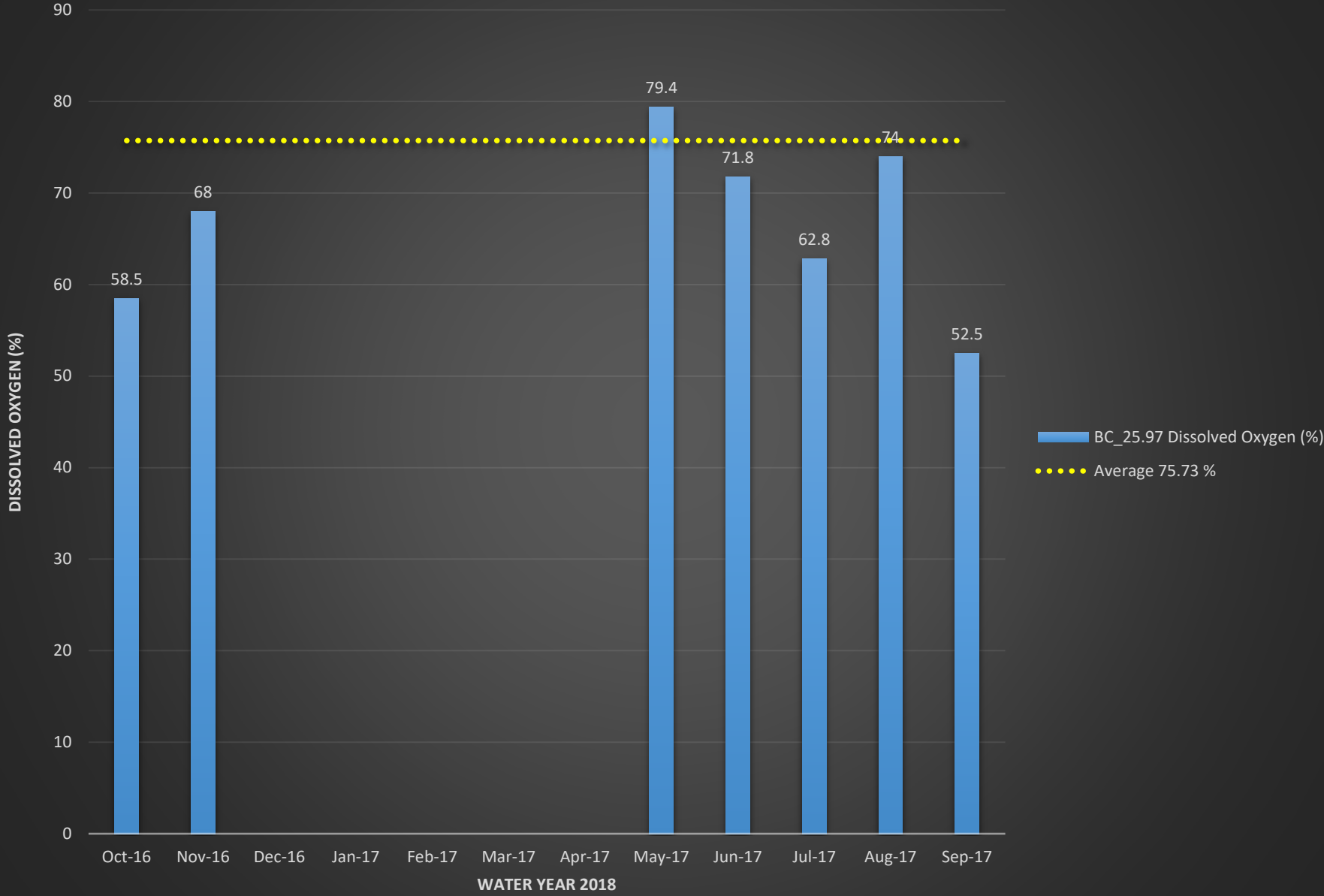
# BC\_25.97 E.coli (MPN)



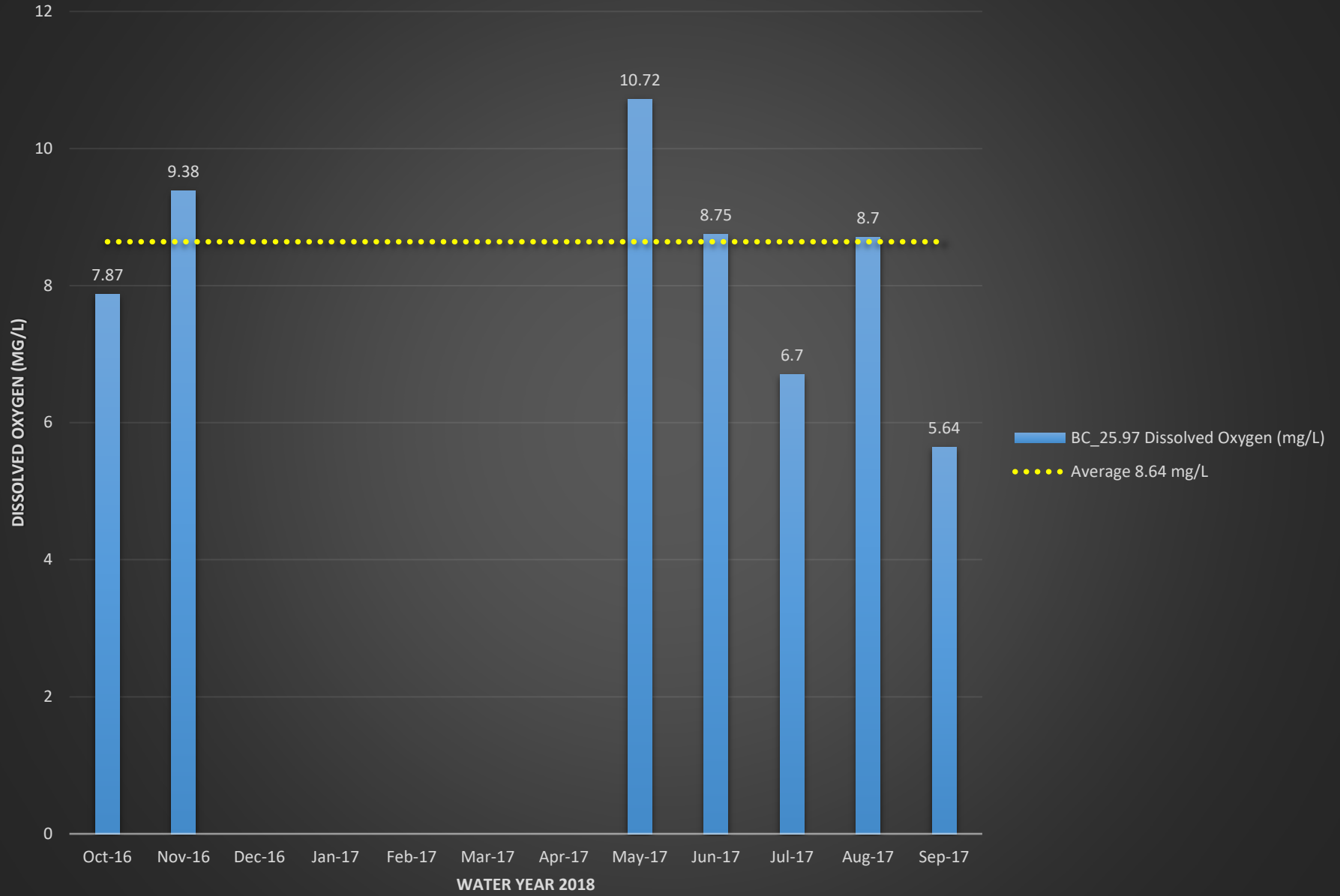
# BC\_25.97 Temperature (°C)



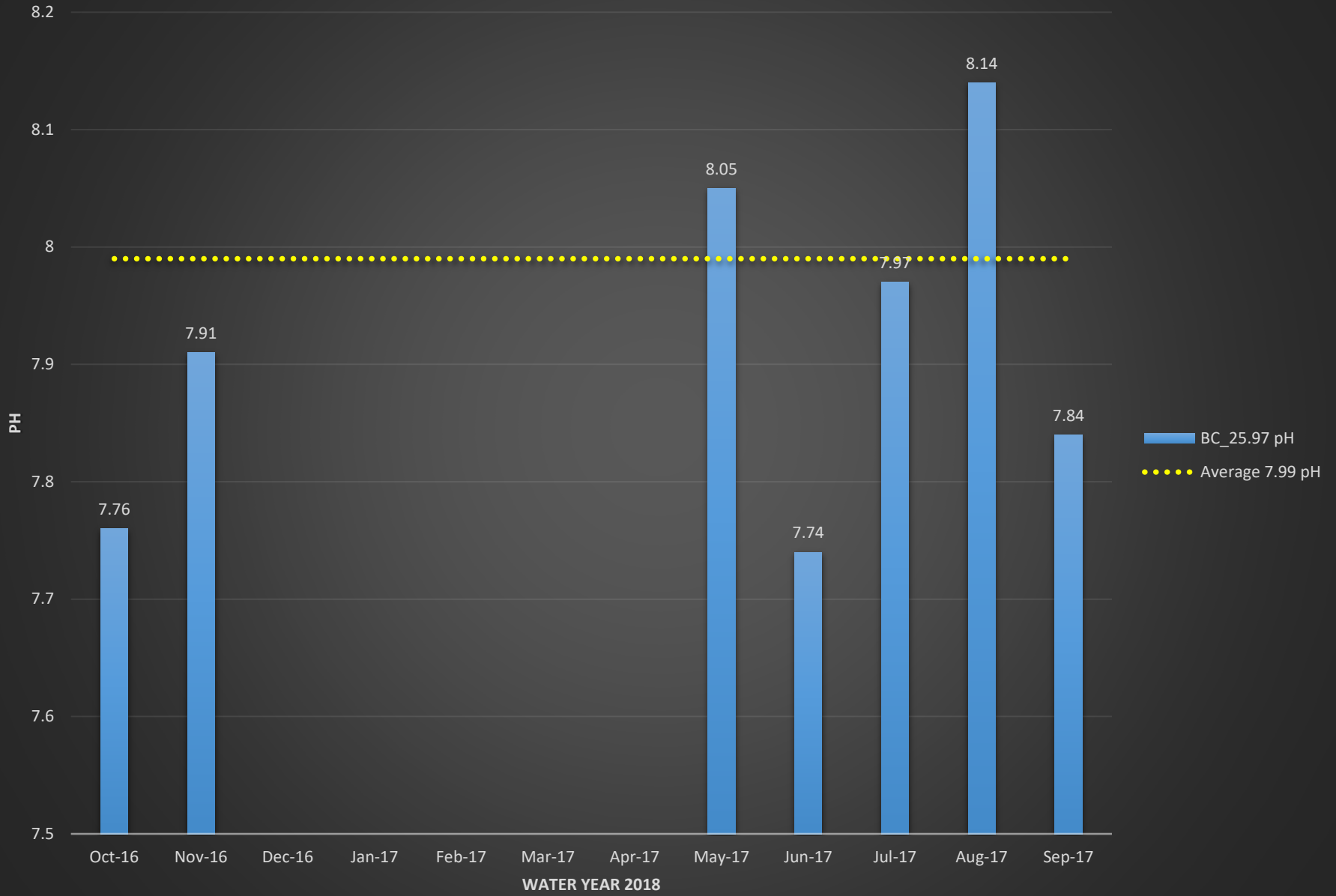
# BC\_25.97 Dissolved Oxygen (%)



# BC\_25.97 Dissolved Oxygen (mg/L)

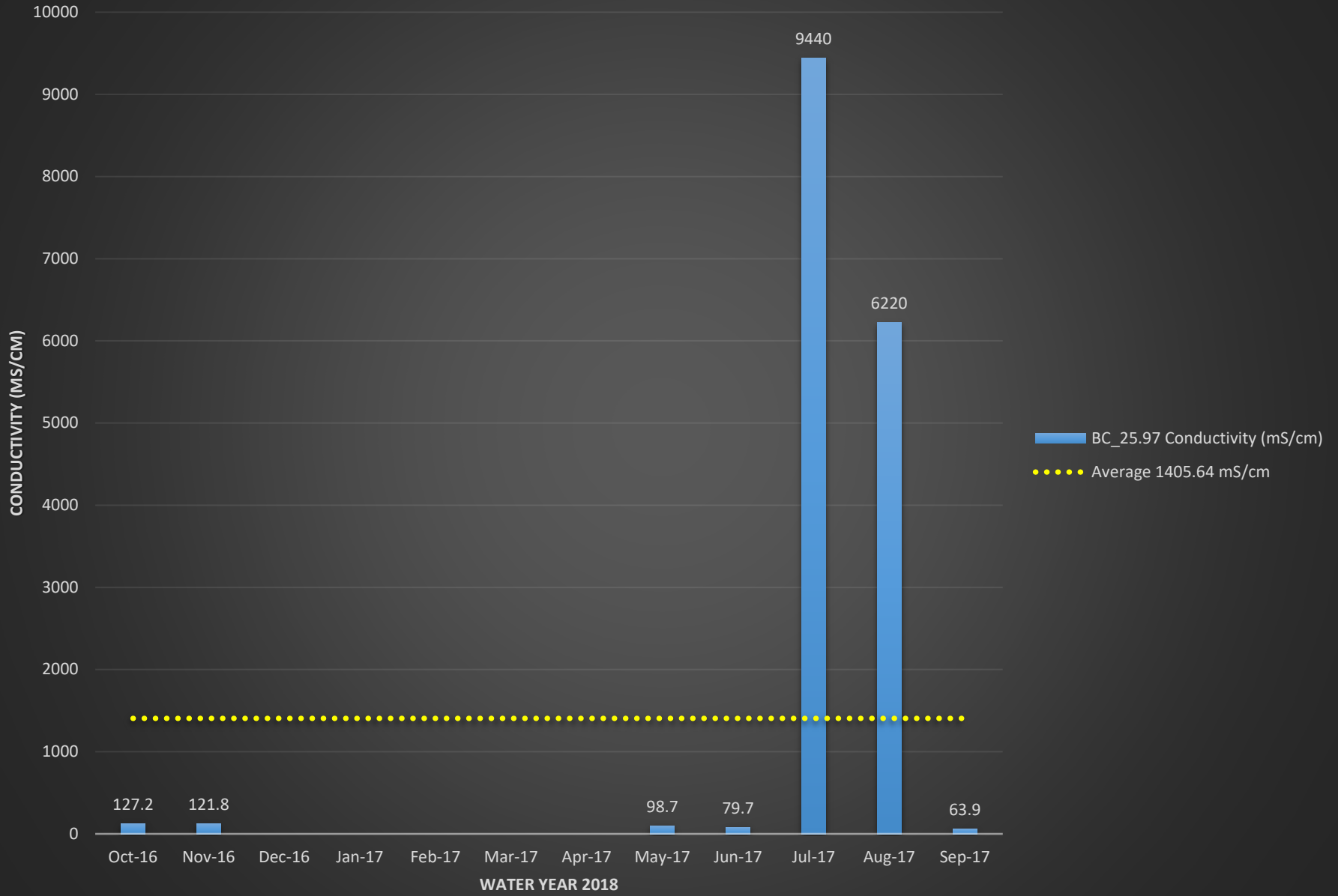


# BC\_25.97 pH

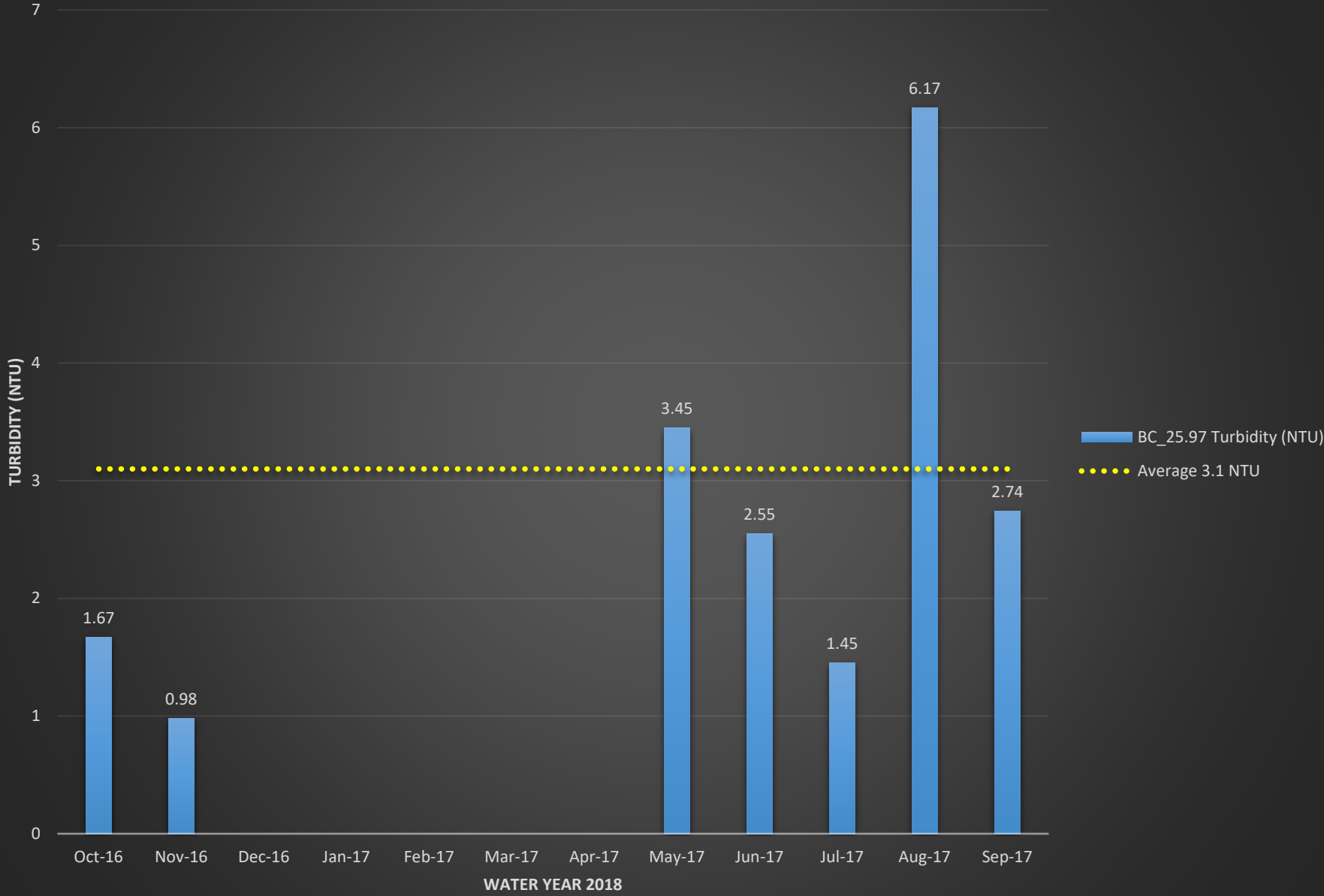




# BC\_25.97 Conductivity (mS/cm)

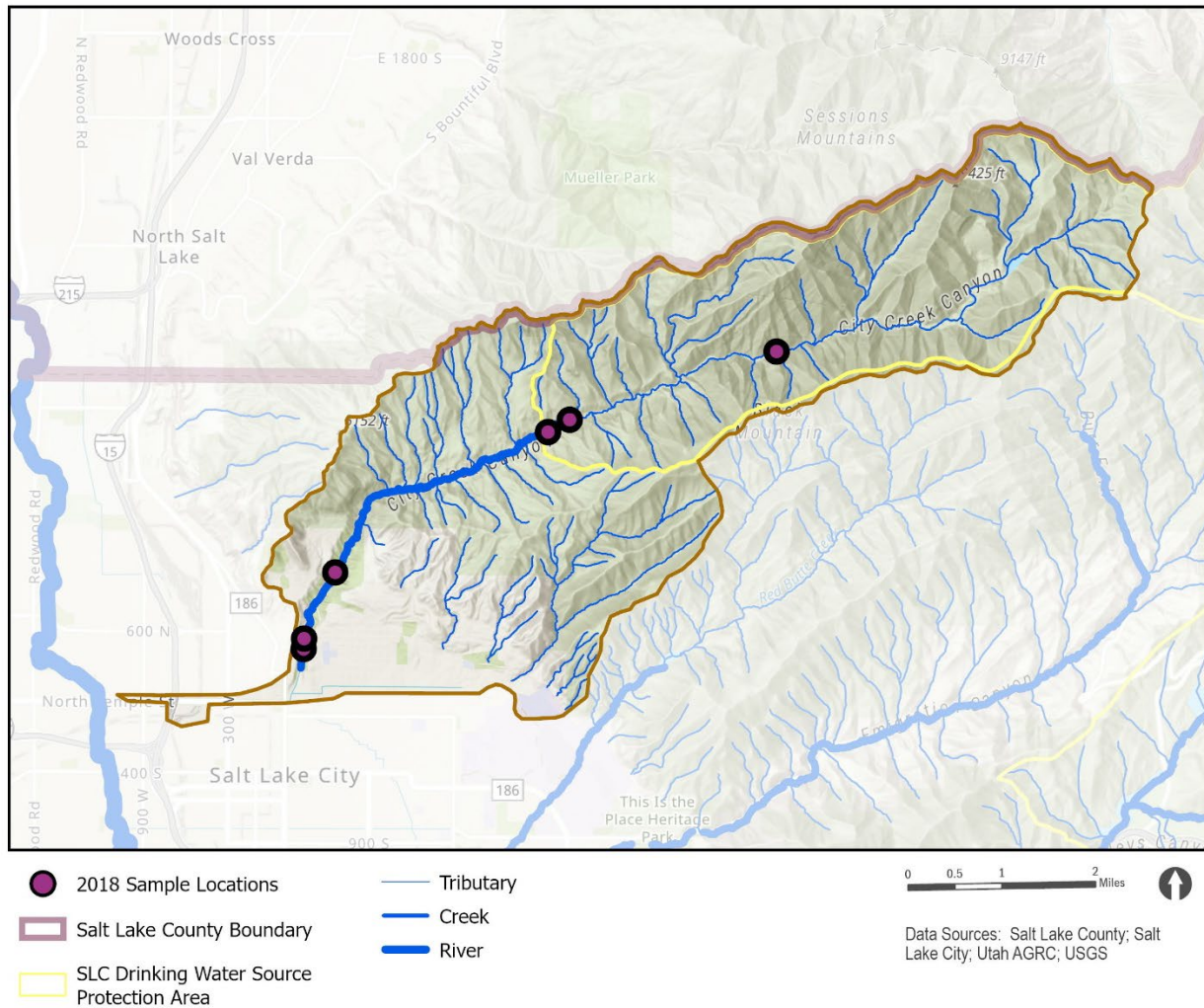


# BC\_25.97 Turbidity (NTU)

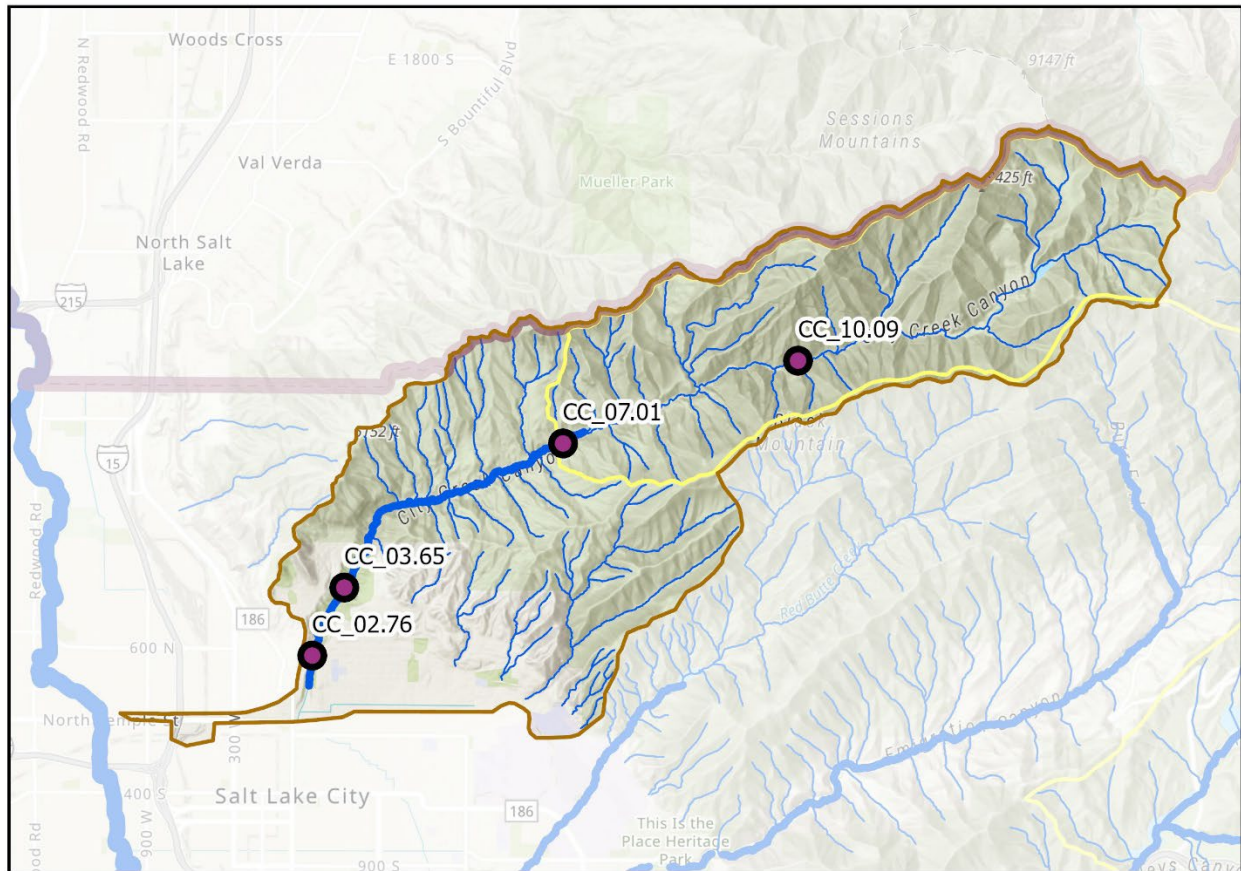


# CITY CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



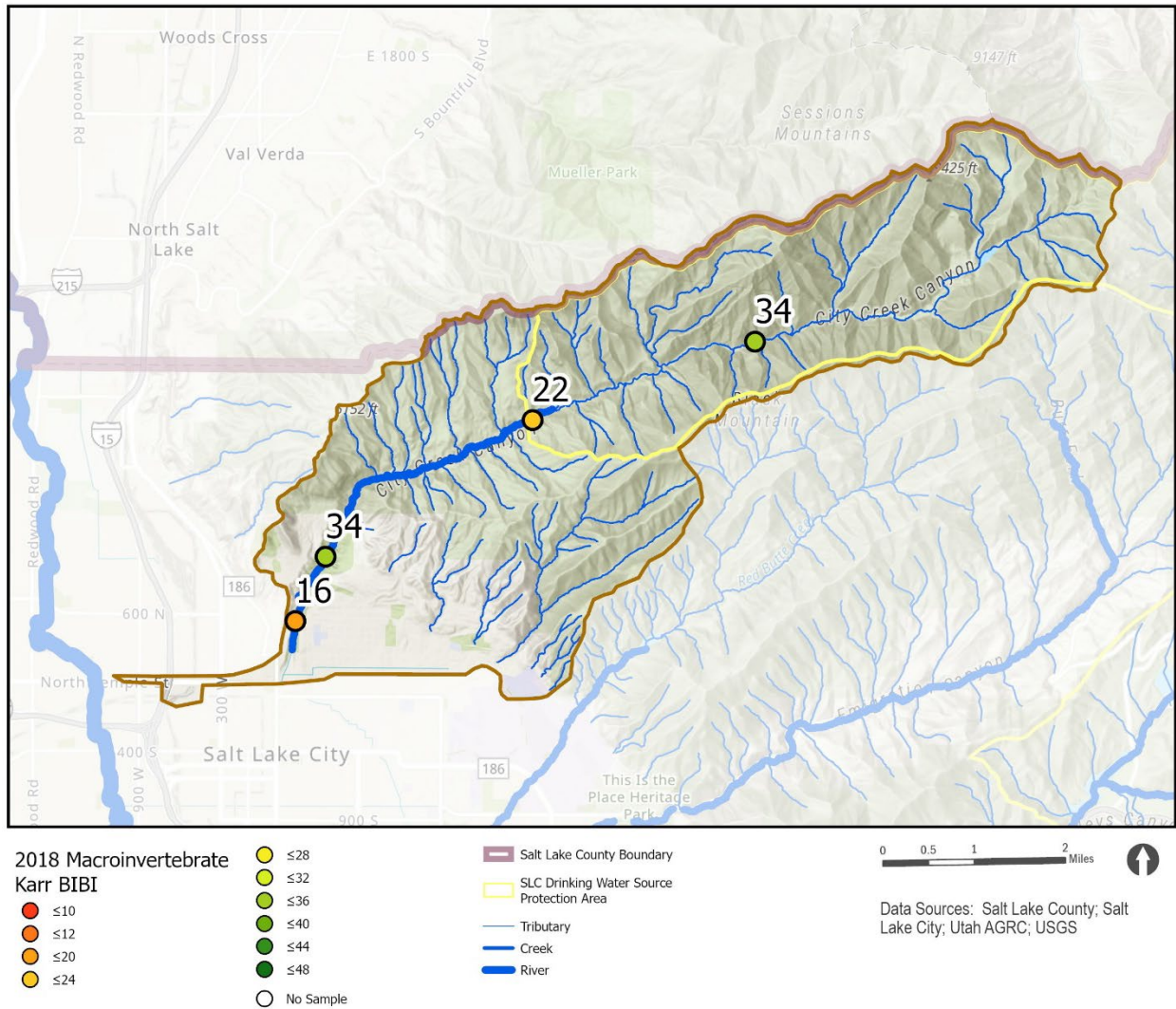
- 2018 Macroinvertebrate Sample Locations
- Tributary
- Creek
- River
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area

0 0.5 1 2 Miles

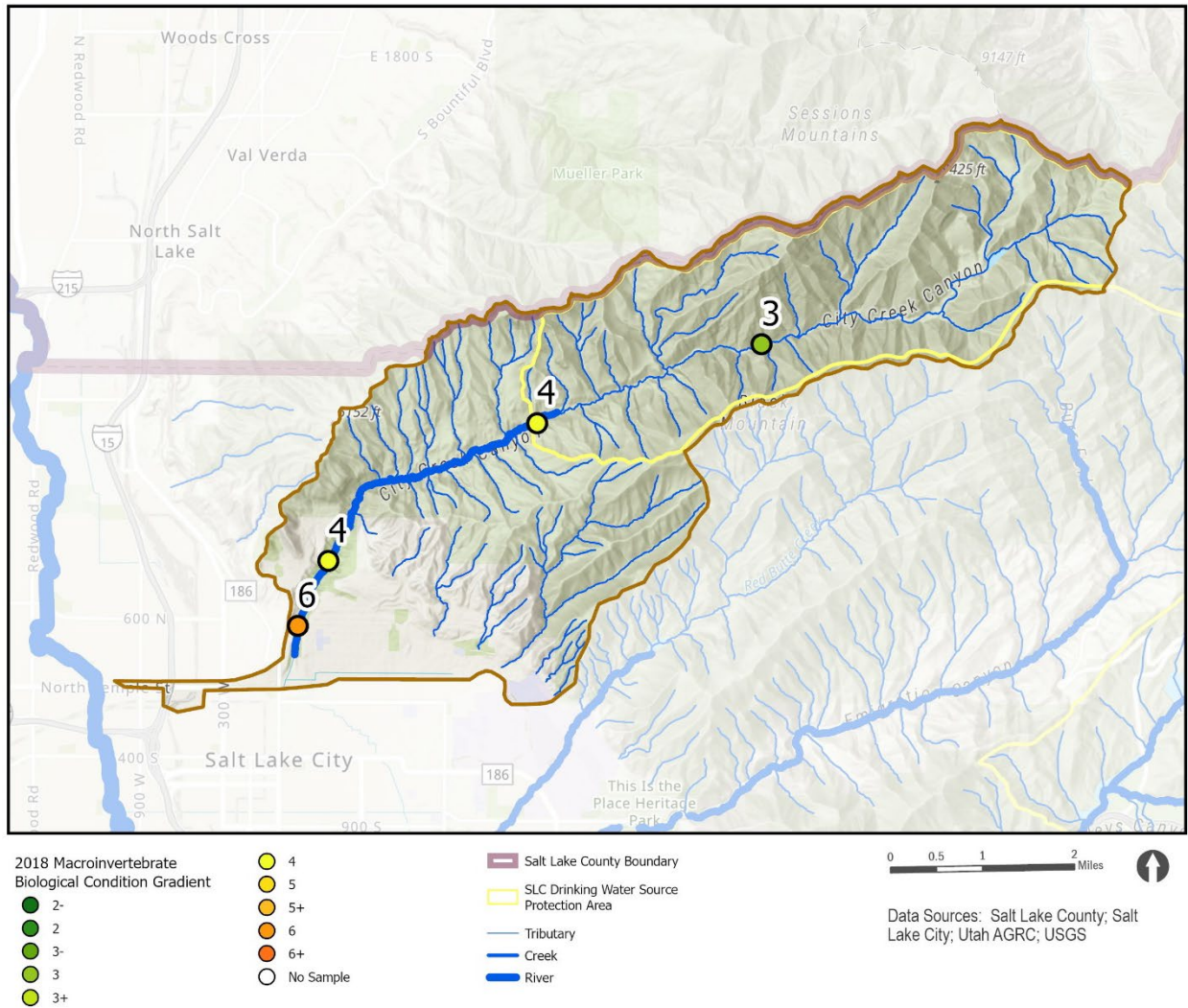
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



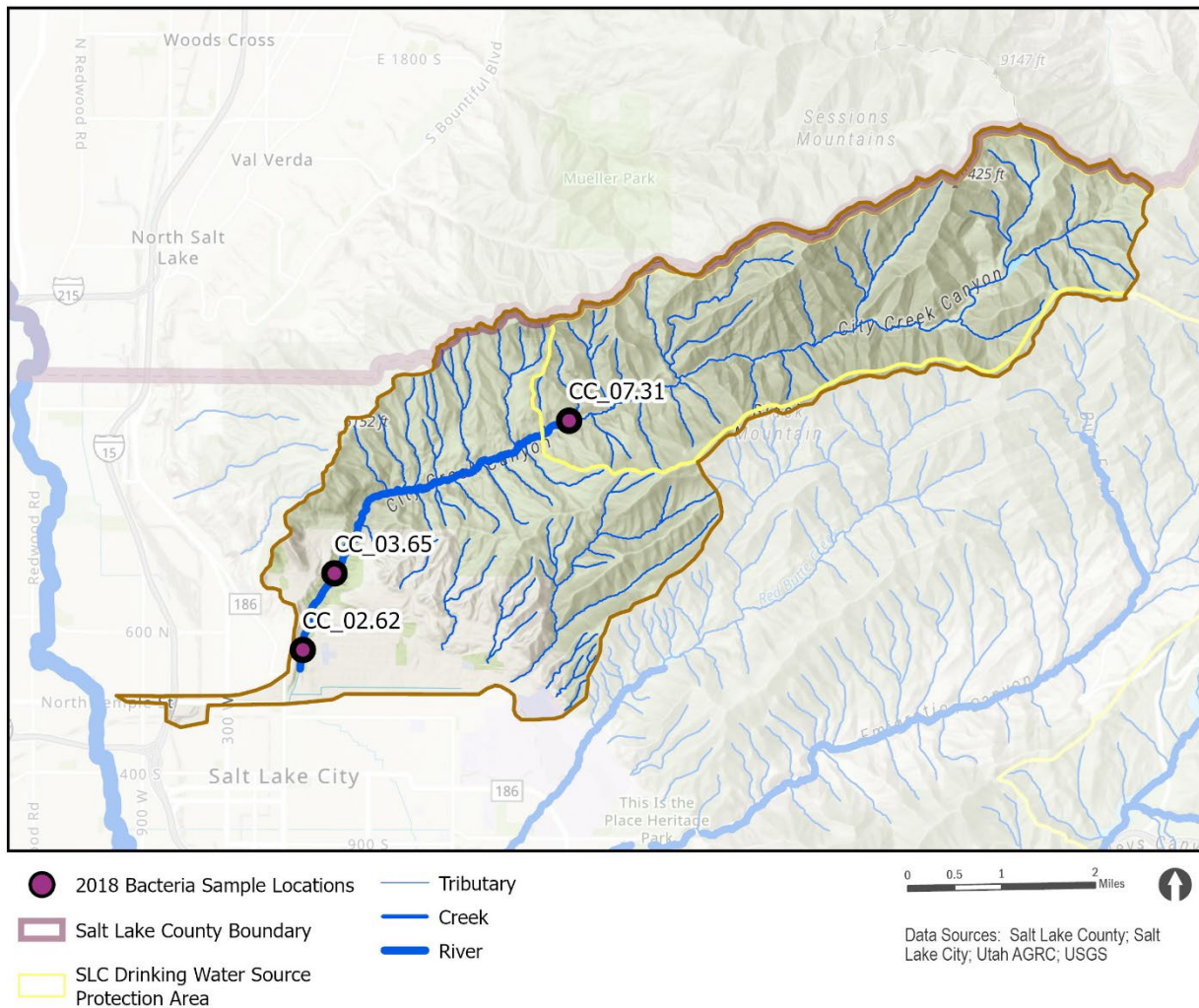
# Macroinvertebrate Karr-BIBI Results



# Macroinvertebrate Biological Condition Gradient (BCG) Results



## Subwatershed Map with Bacteria Sample Sites

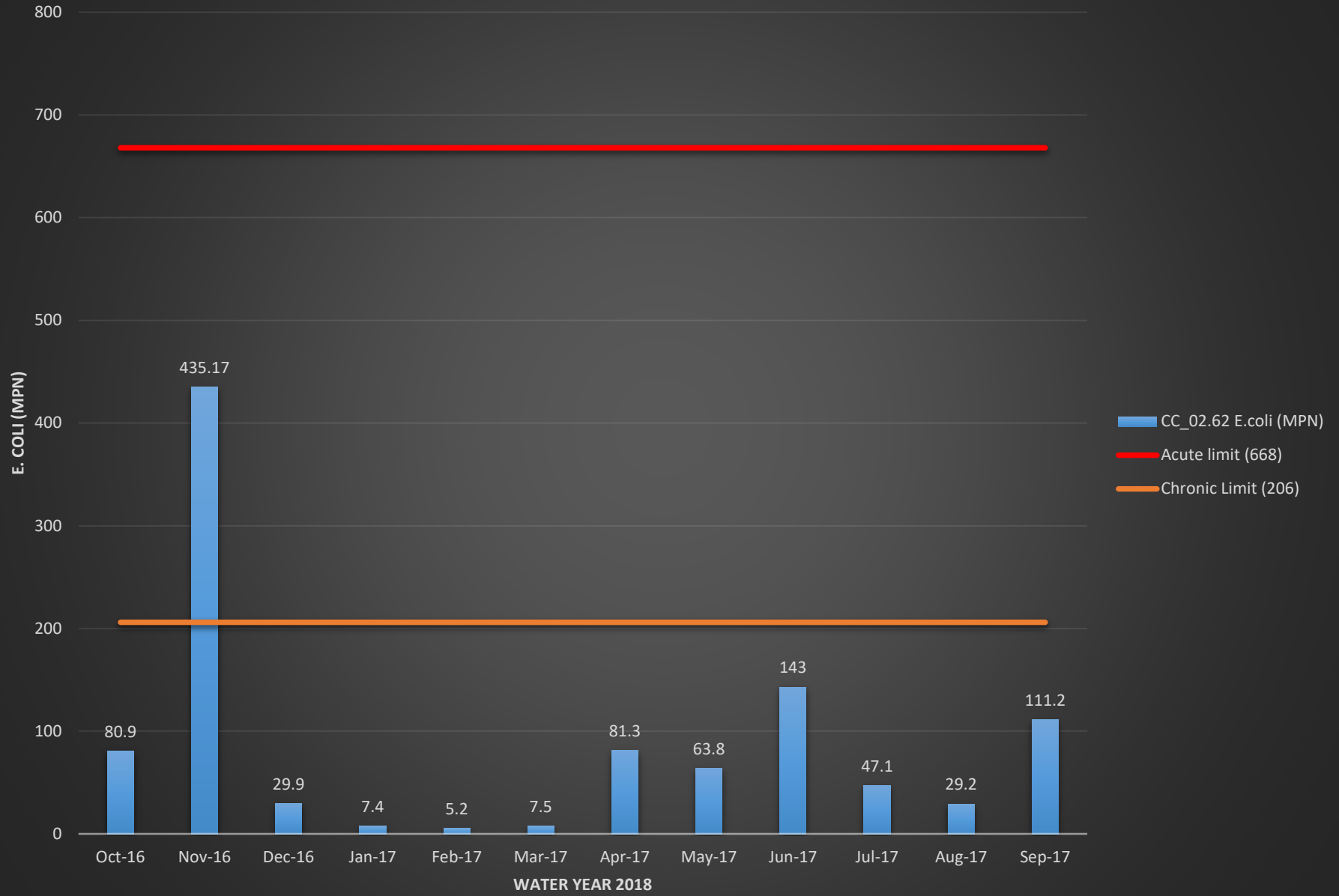


## *E. coli* & Field Parameter Graphs

Graphs begin on next page...

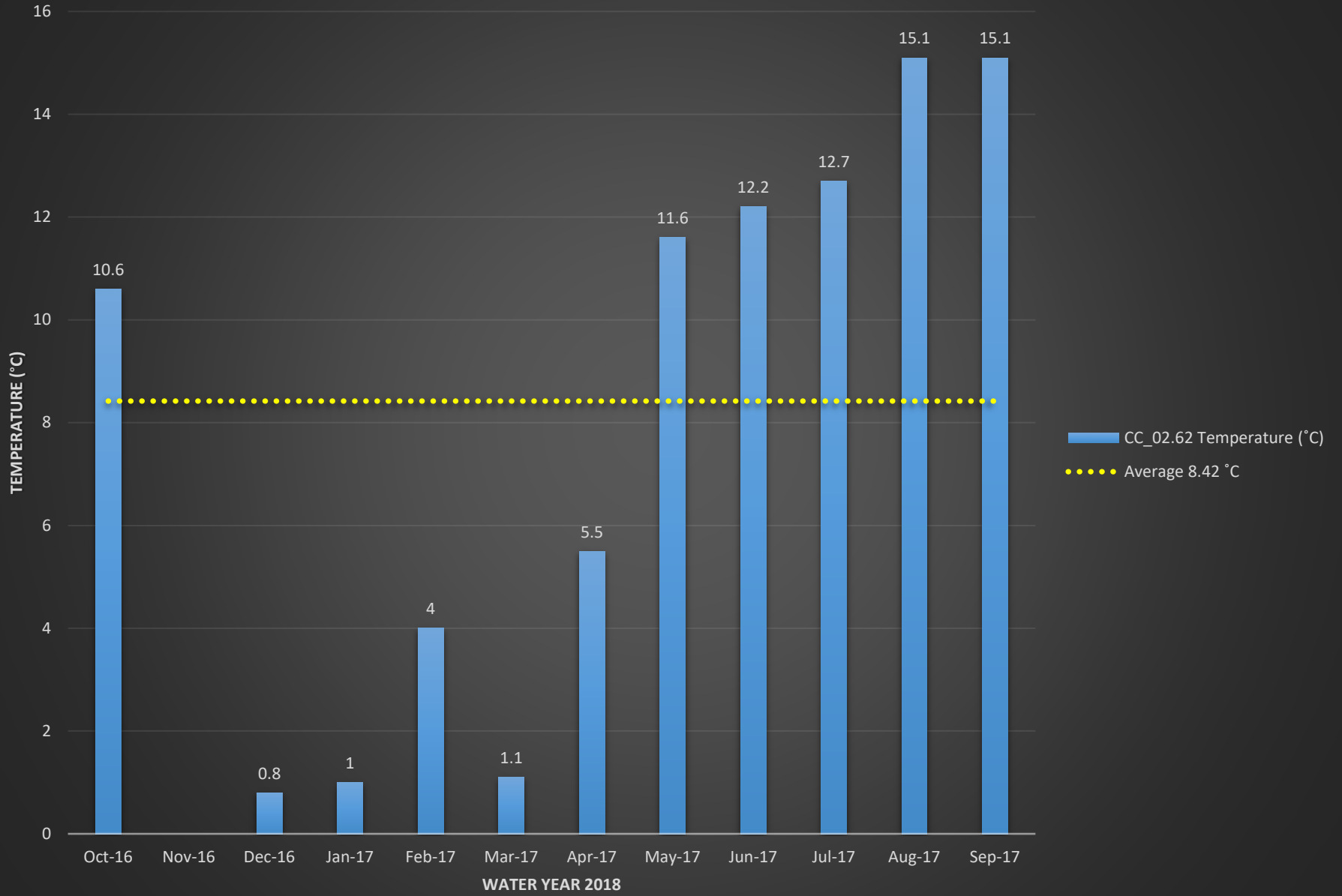


# CC\_02.62 E.coli (MPN)

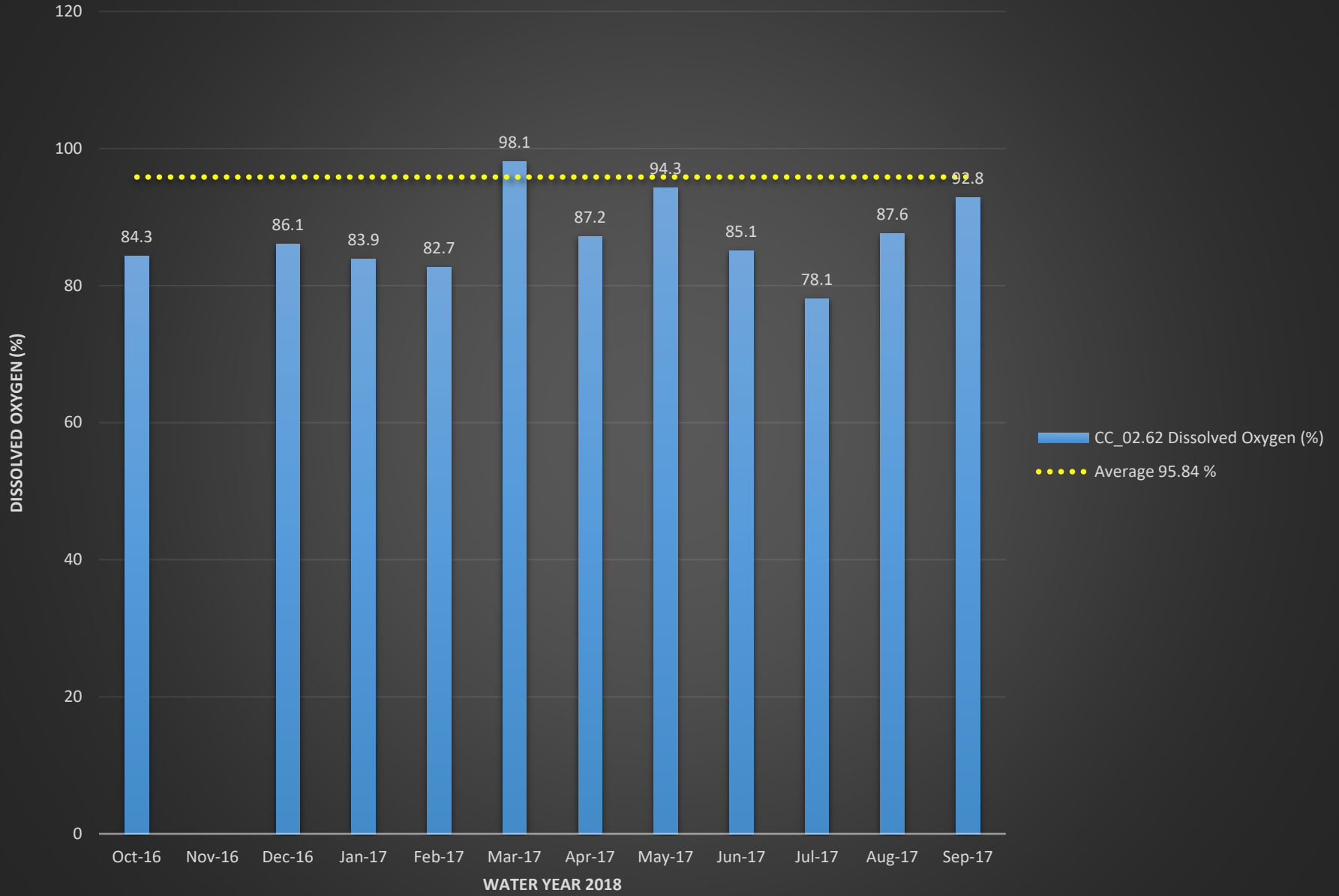




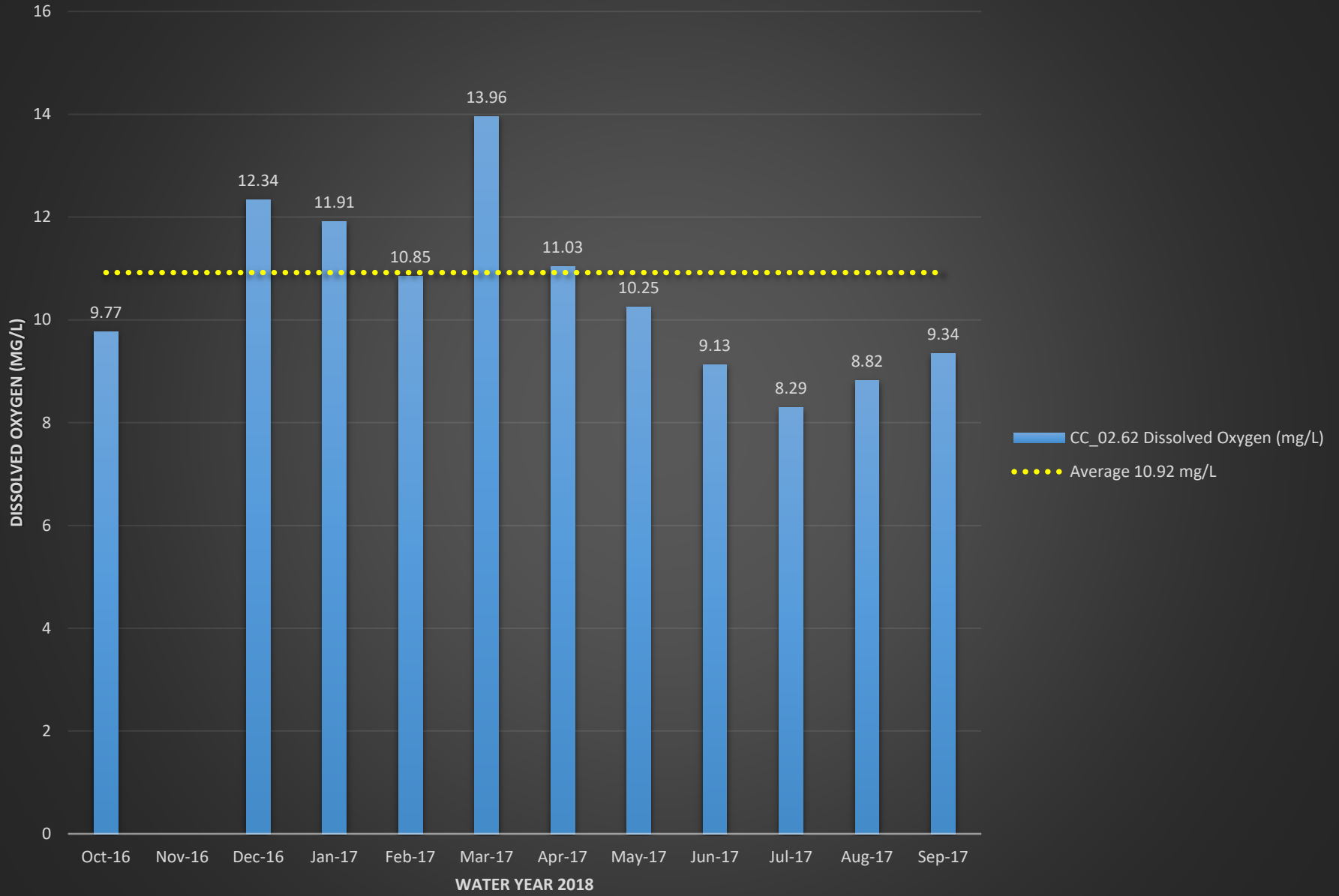
# CC\_02.62 Temperature (°C)



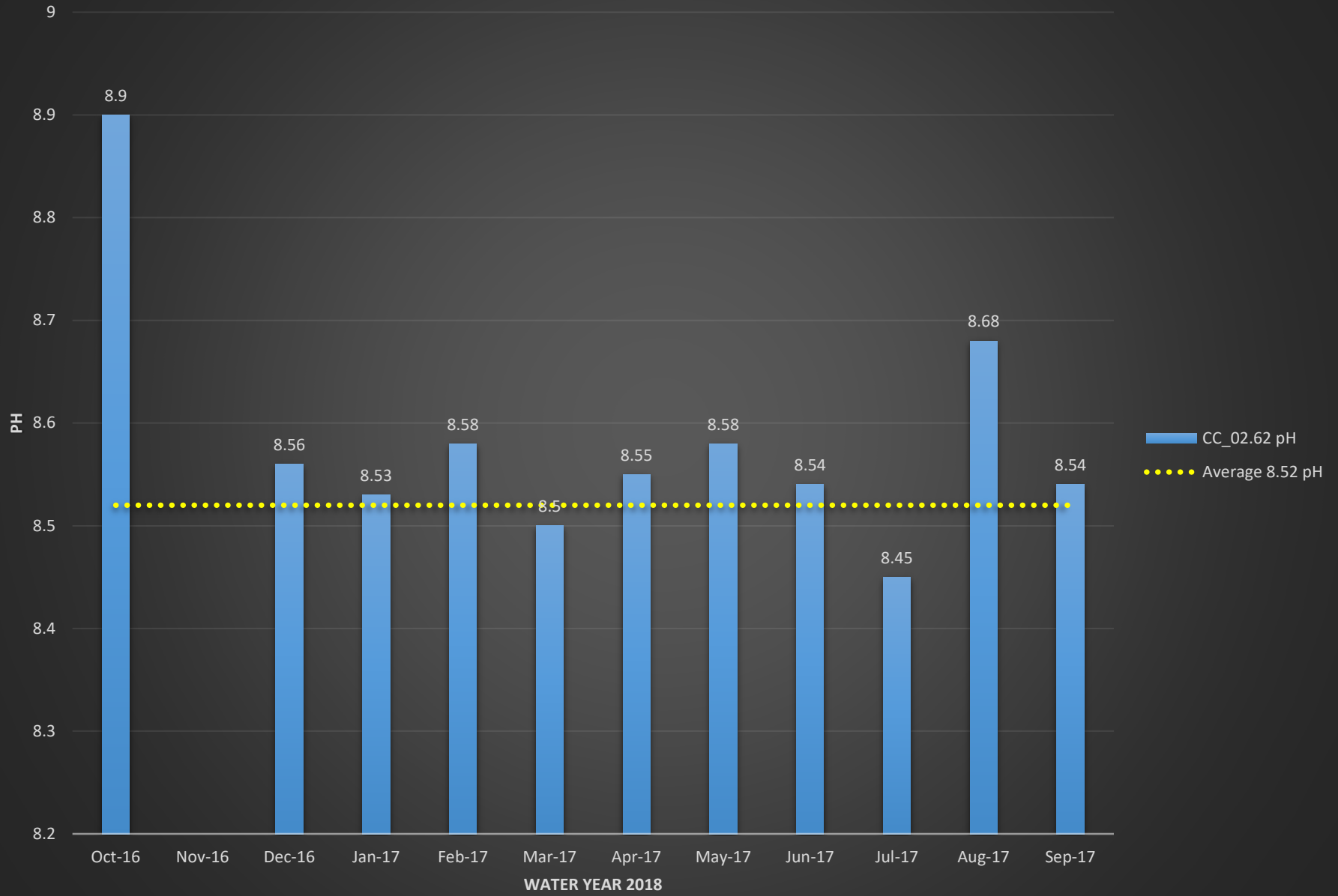
# CC\_02.62 Dissolved Oxygen (%)



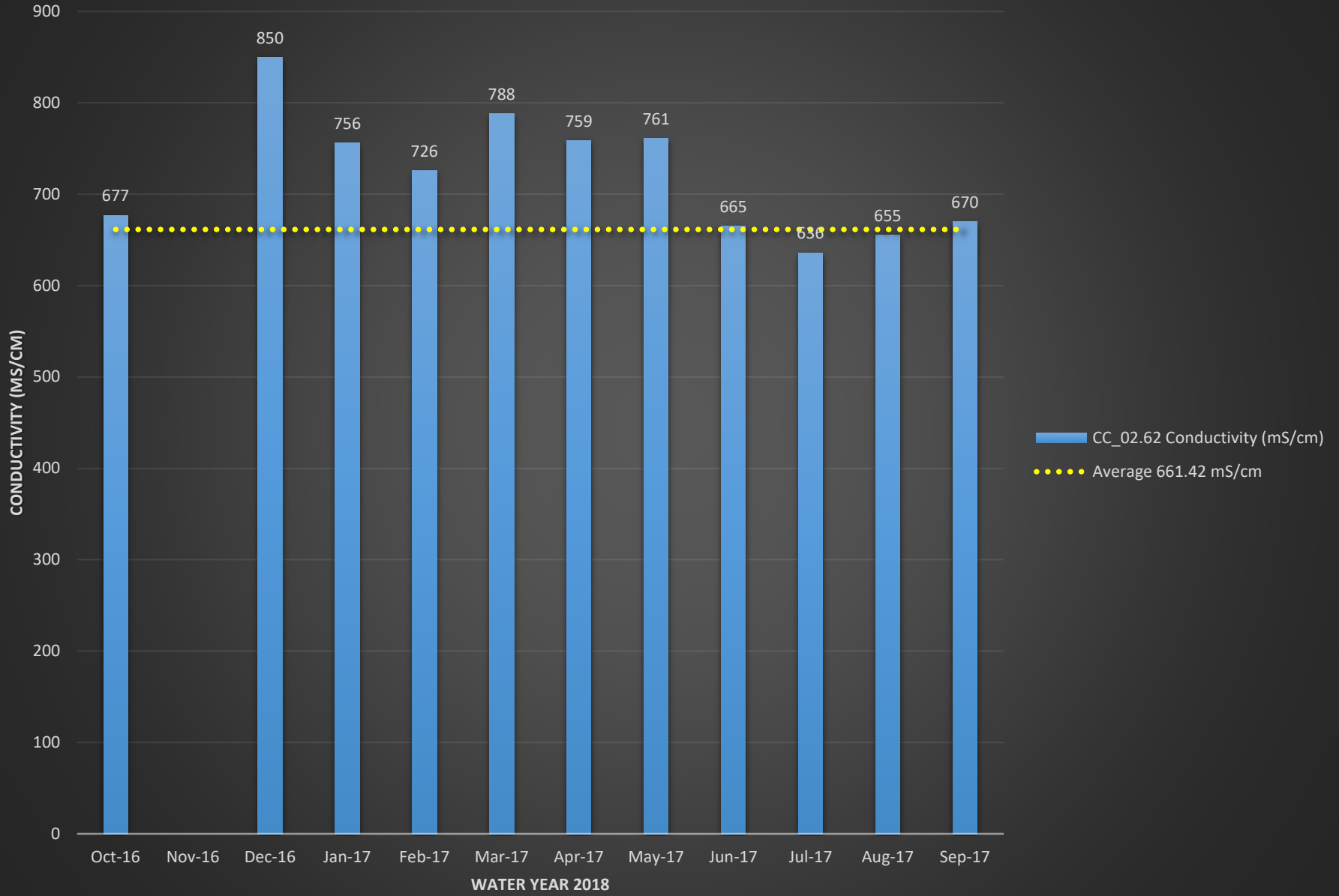
# CC\_02.62 Dissolved Oxygen (mg/L)



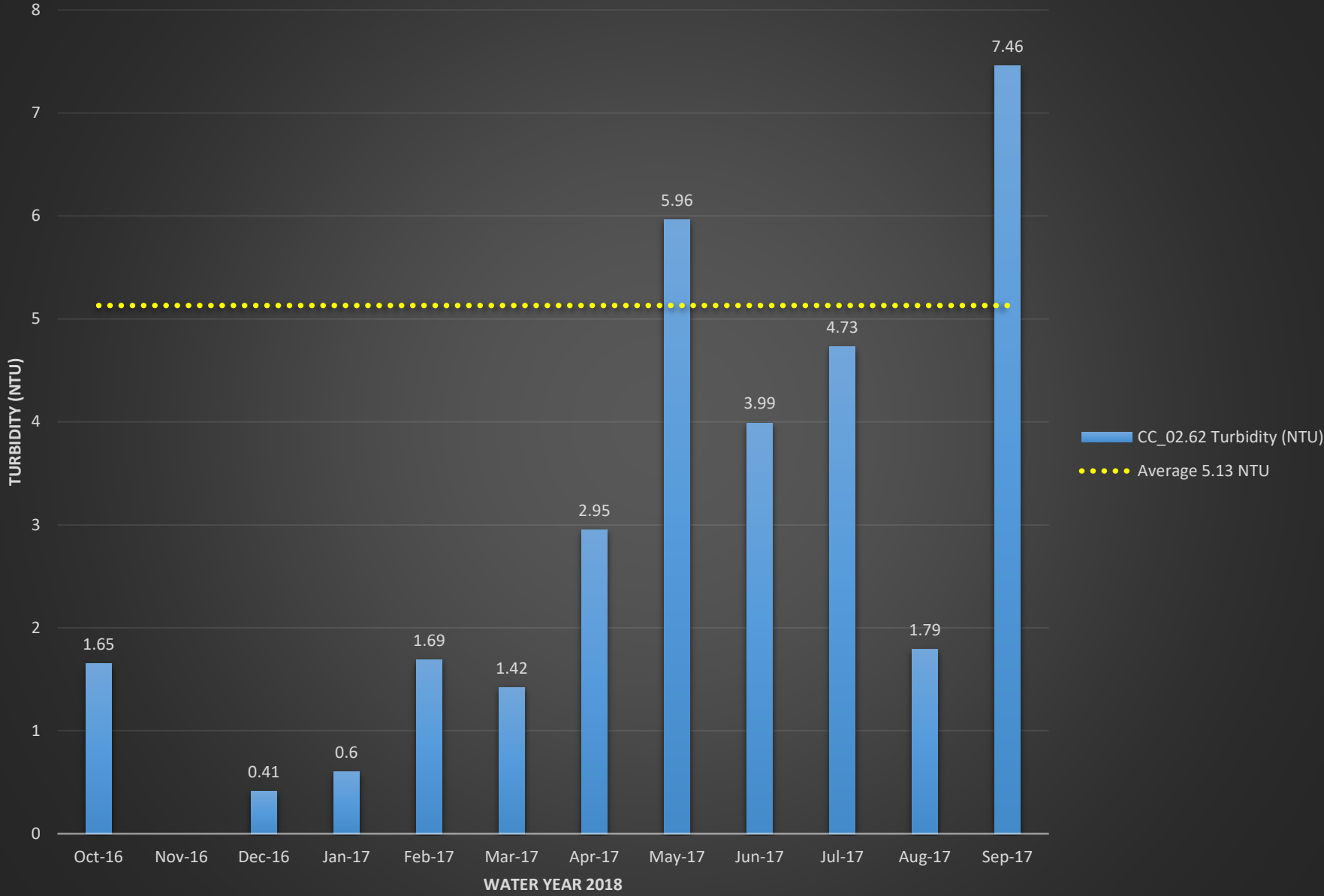
# CC\_02.62 pH



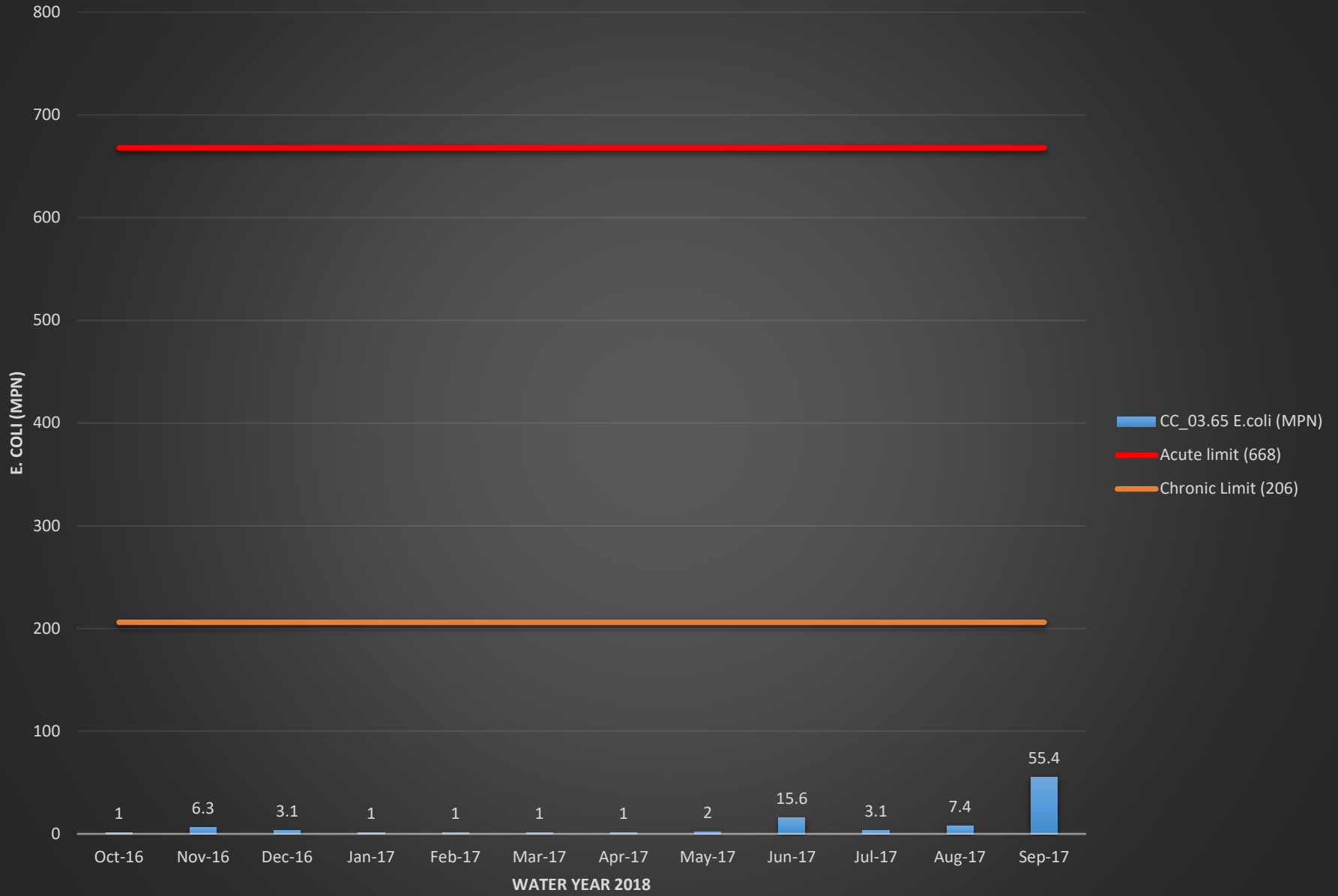
# CC\_02.62 Conductivity (mS/cm)



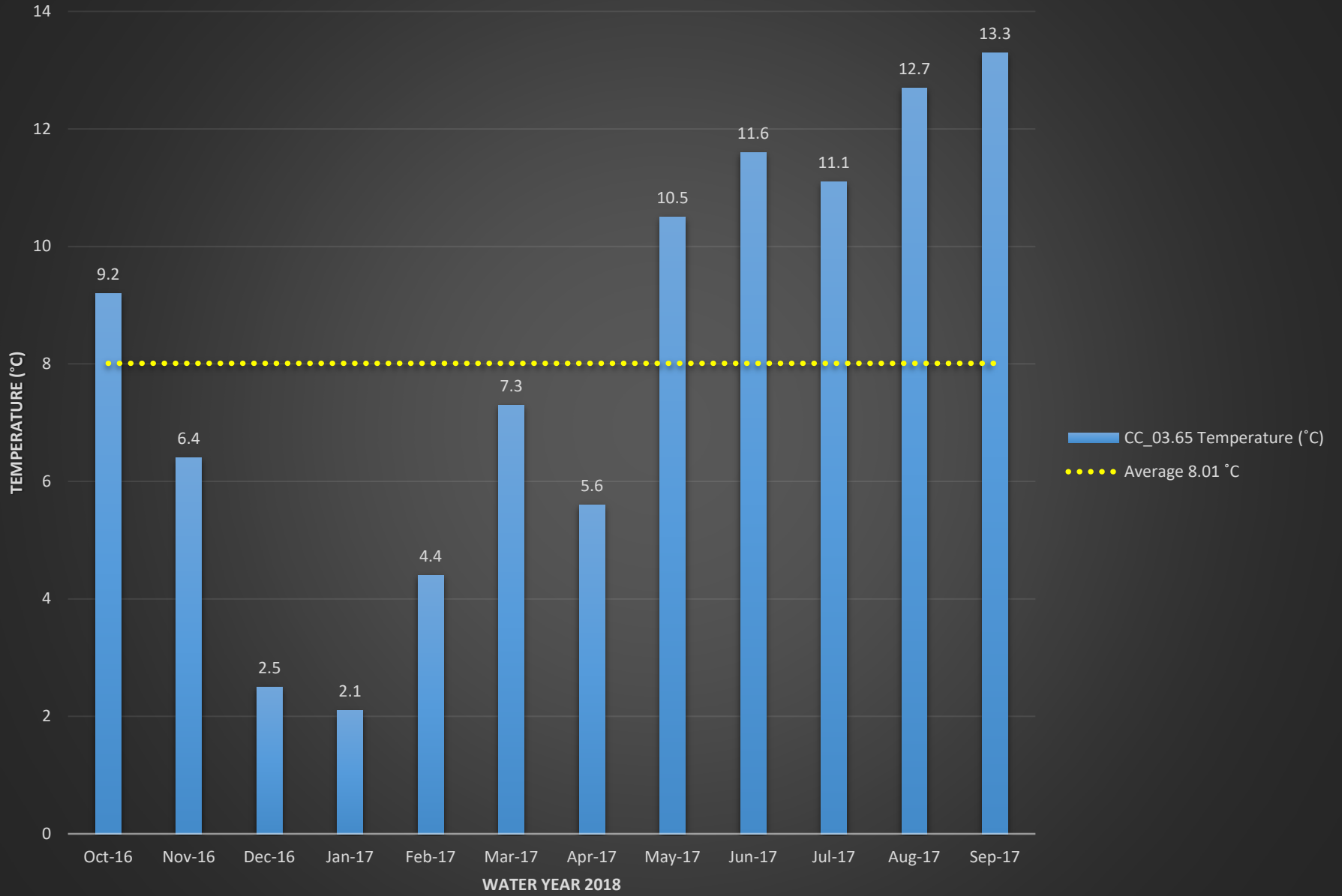
# CC\_02.62 Turbidity (NTU)



# CC\_03.65 E.coli (MPN)

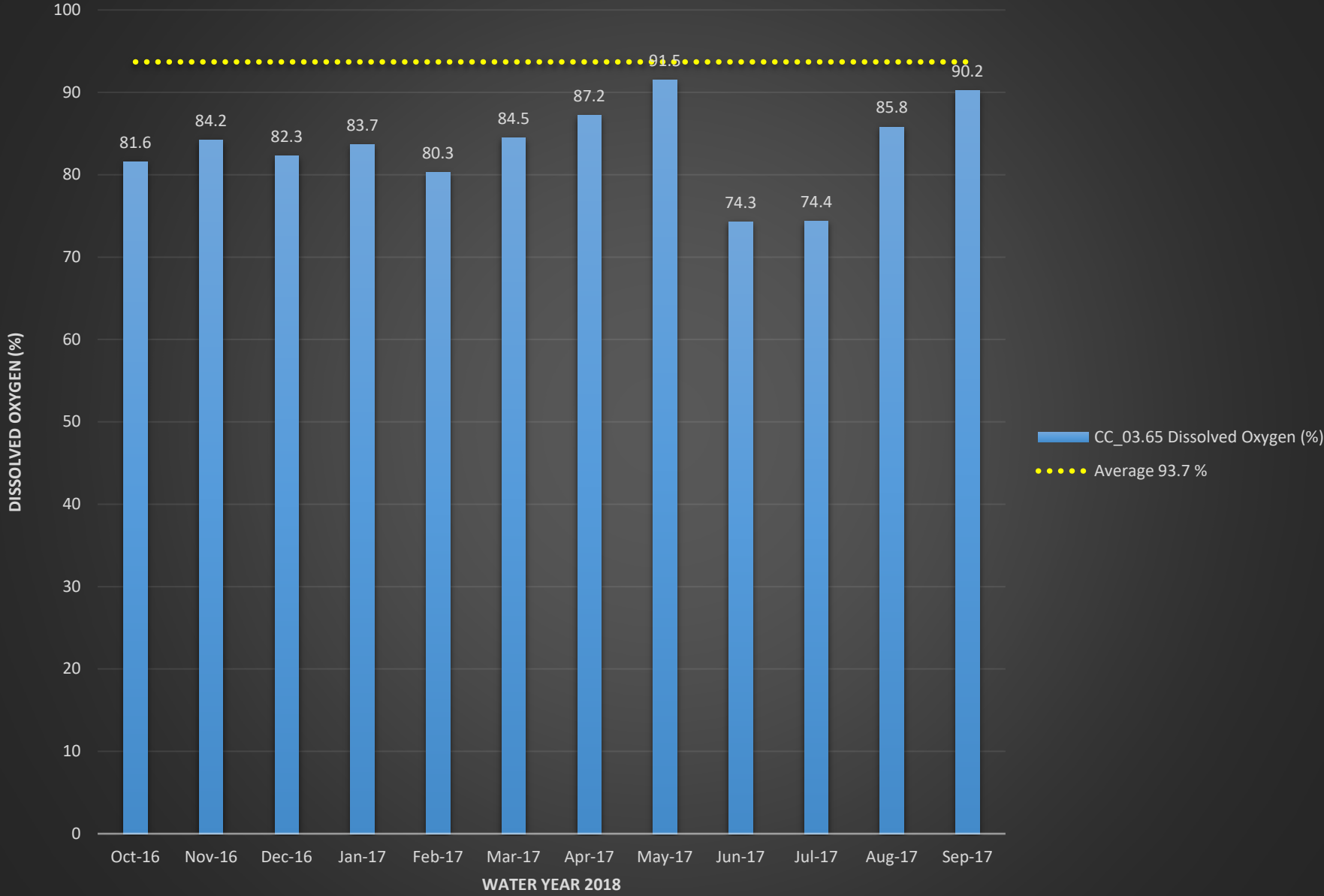


# CC\_03.65 Temperature (°C)

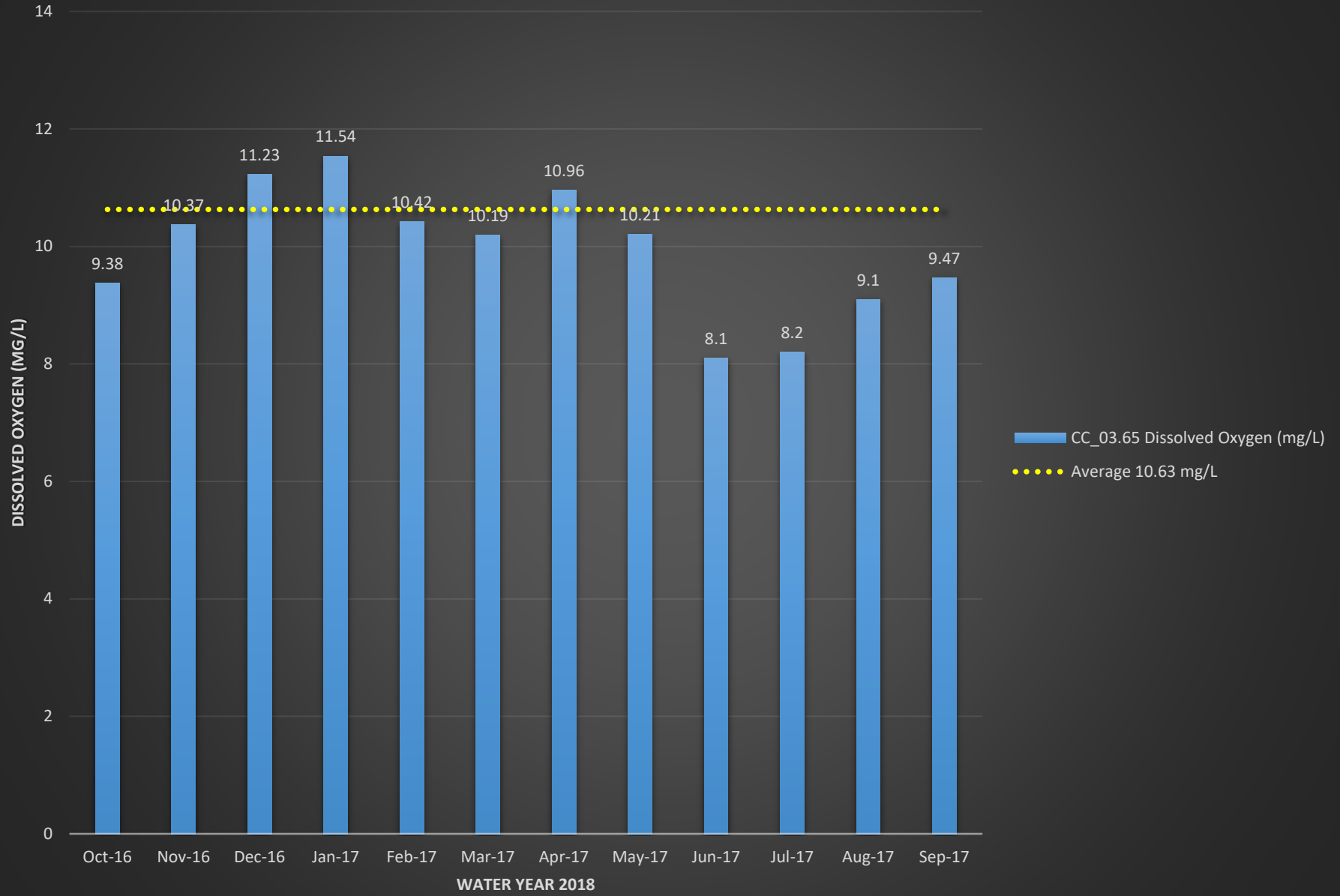




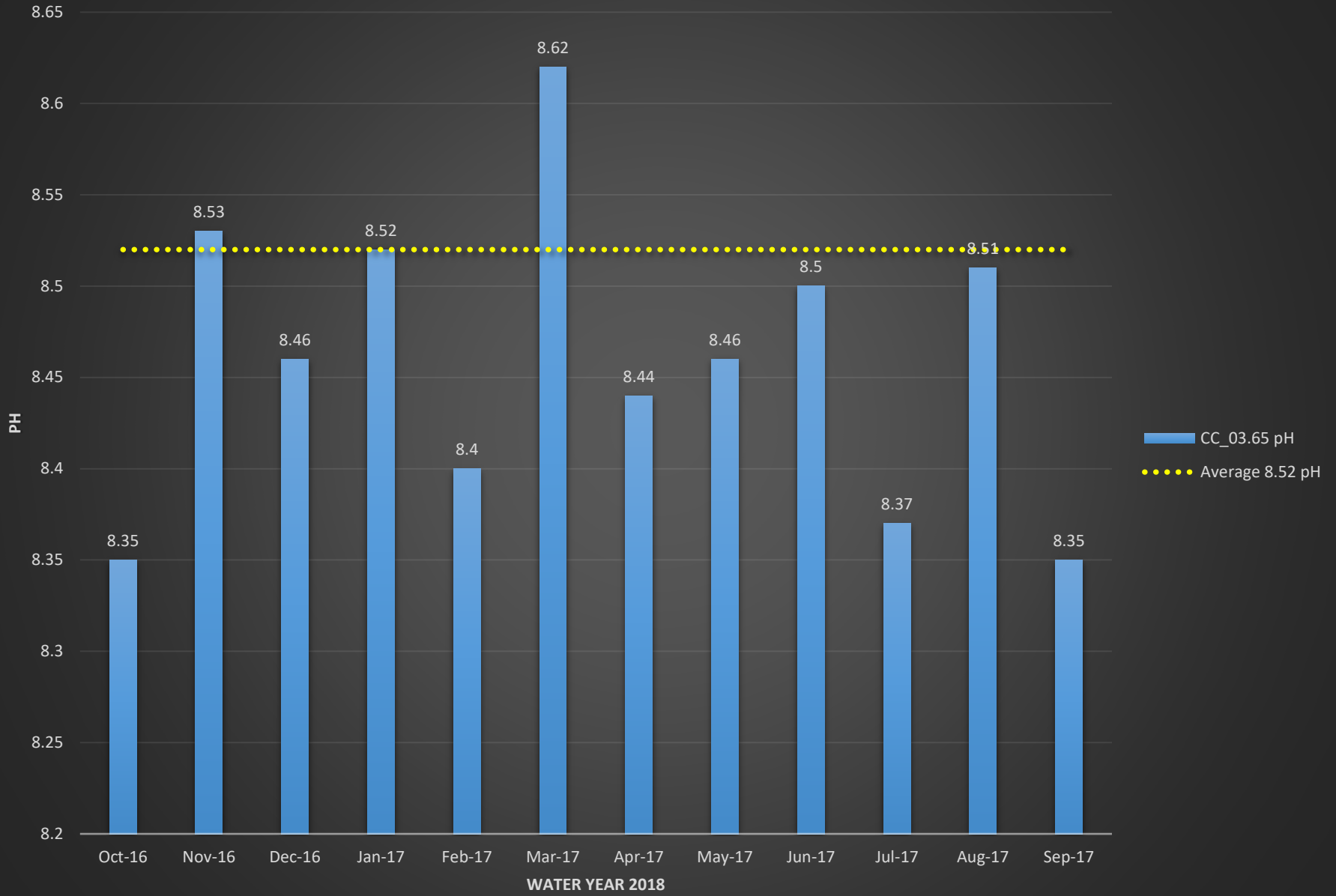
# CC\_03.65 Dissolved Oxygen (%)



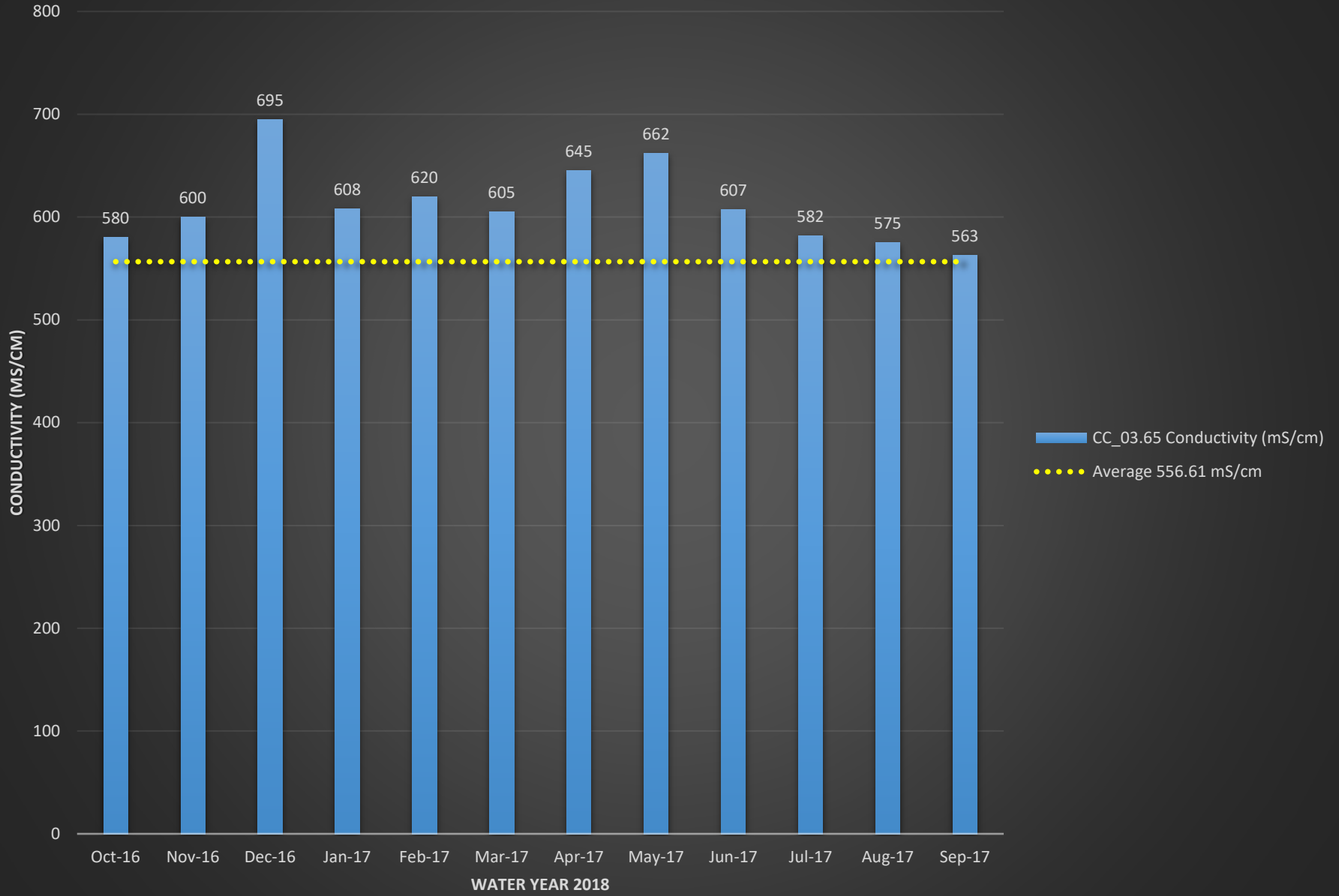
# CC\_03.65 Dissolved Oxygen (mg/L)



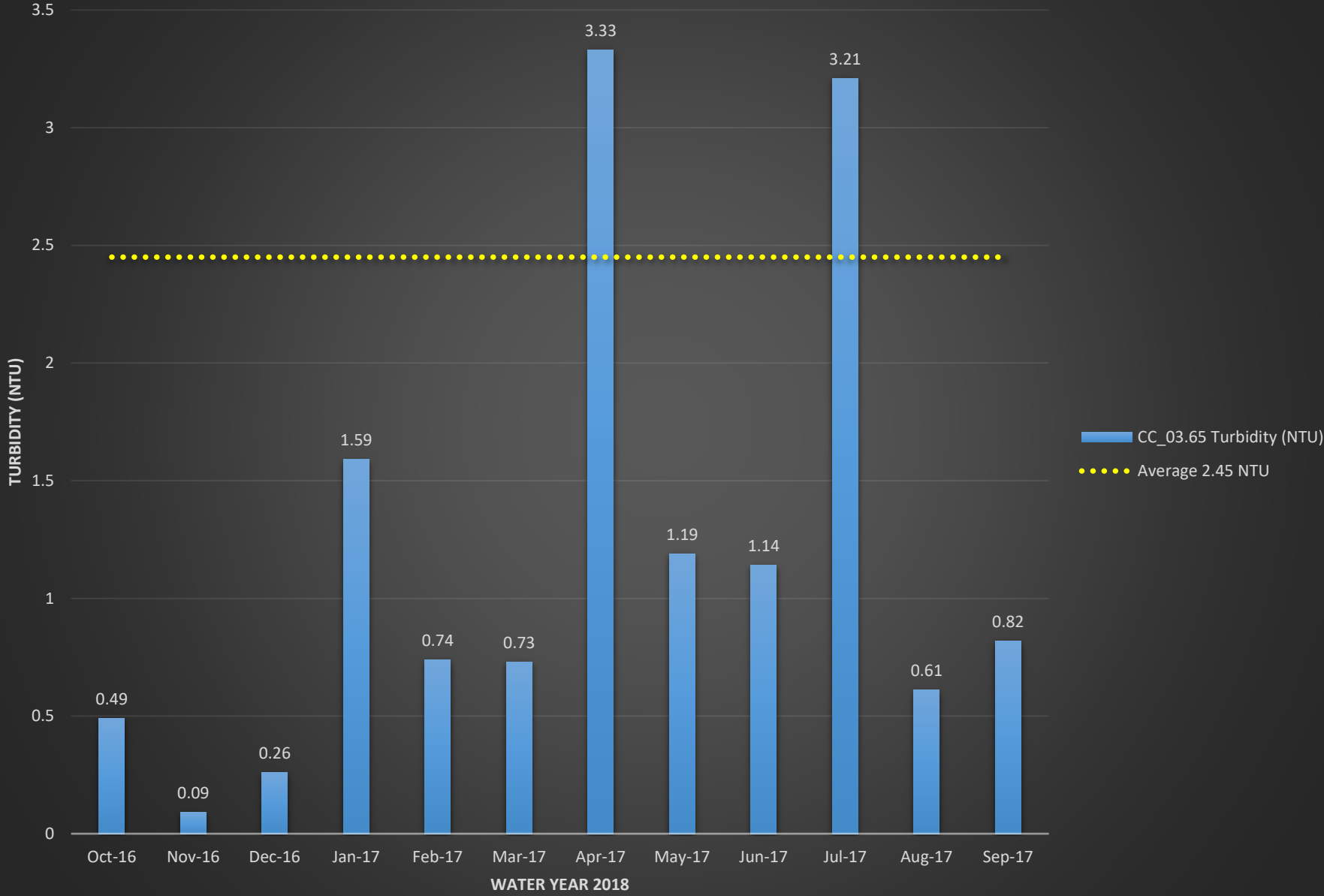
# CC\_03.65 pH



# CC\_03.65 Conductivity (mS/cm)

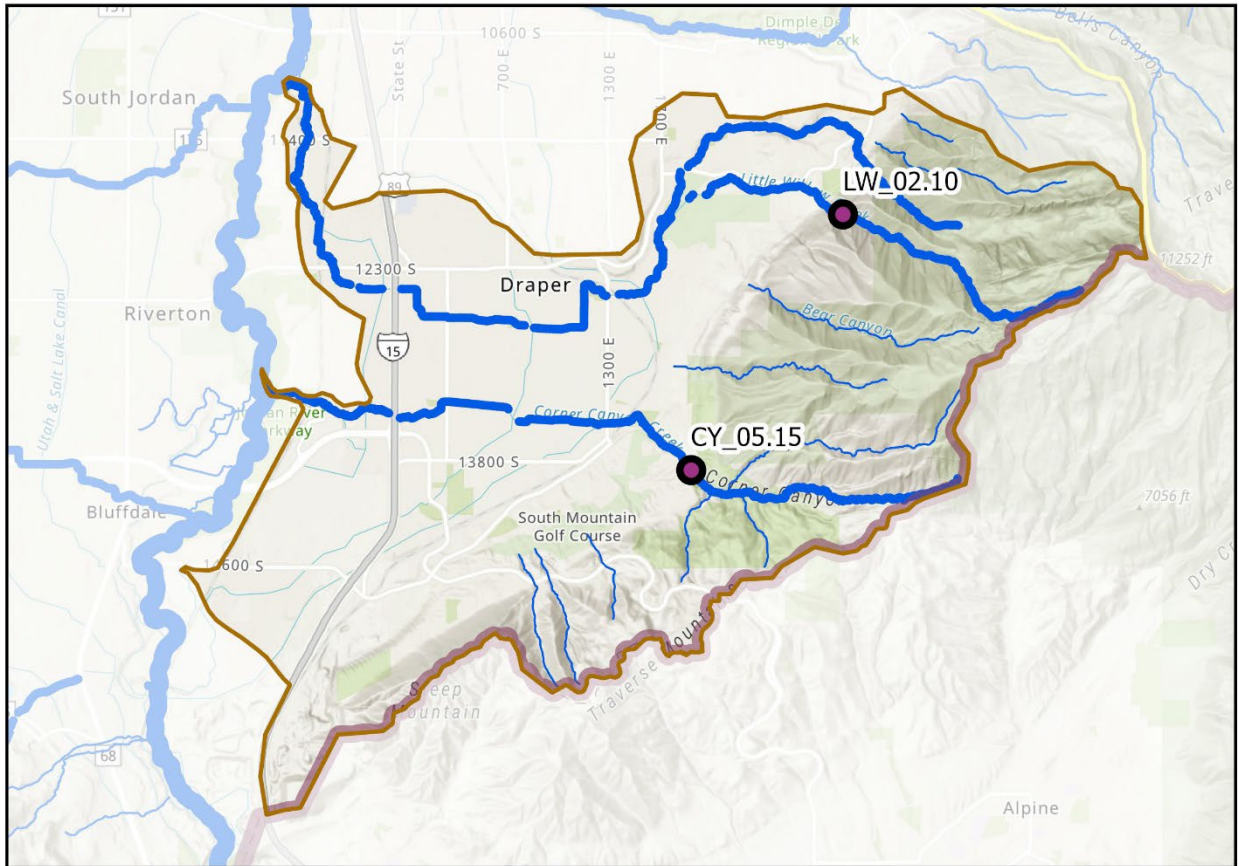




# CC\_03.65 Turbidity (NTU)



# CORNER CANYON/WILLOW CREEKS SUBWATERSHED

## Subwatershed Map with Macroinvertebrate Sample Sites

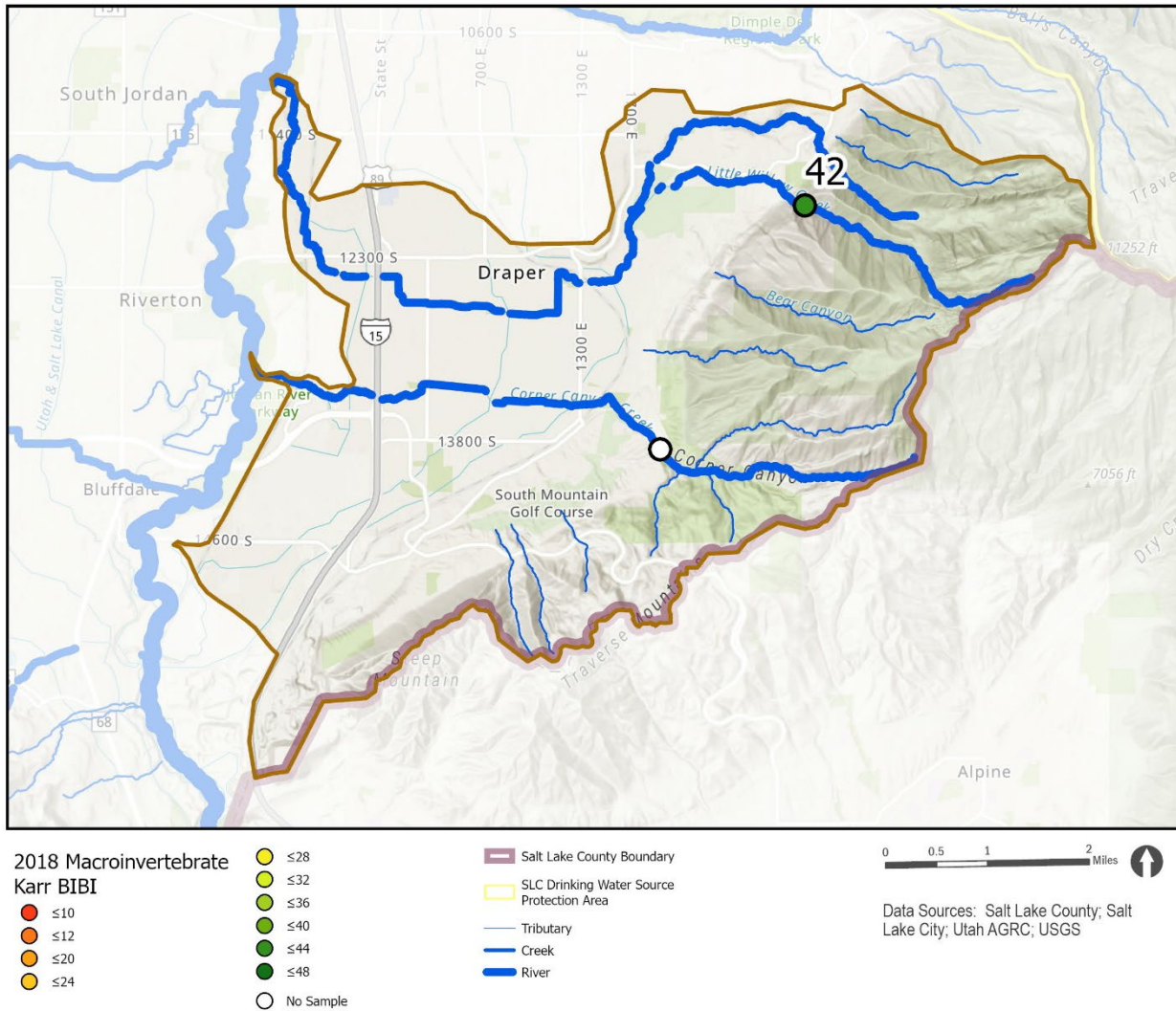


-  2018 Macroinvertebrate Sample Locations
-  Tributary
-  Creek
-  Salt Lake County Boundary
-  River
-  SLC Drinking Water Source Protection Area



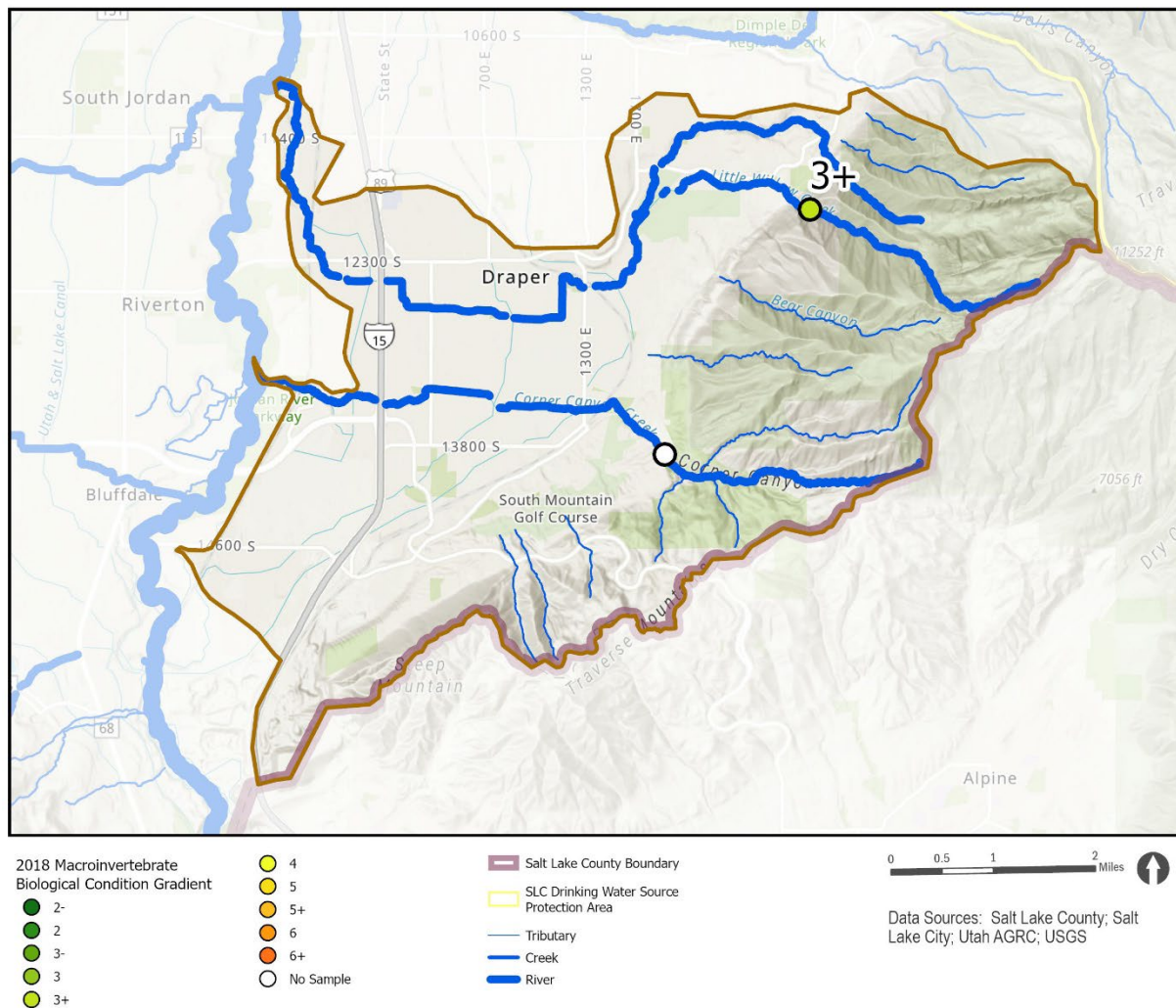
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

# Macroinvertebrate Karr-BIBI Results





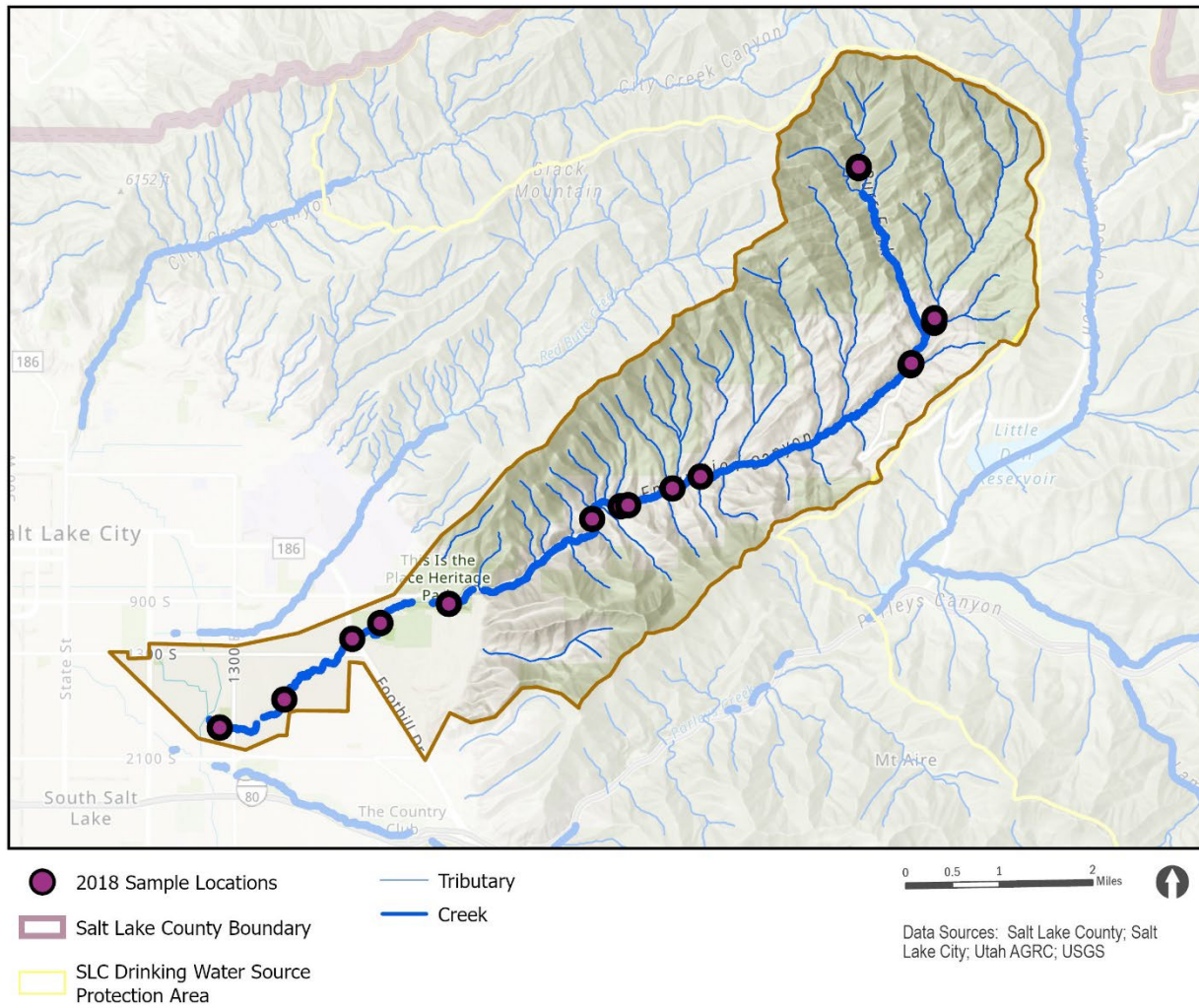
# Macroinvertebrate Biological Condition Gradient (BCG) Results



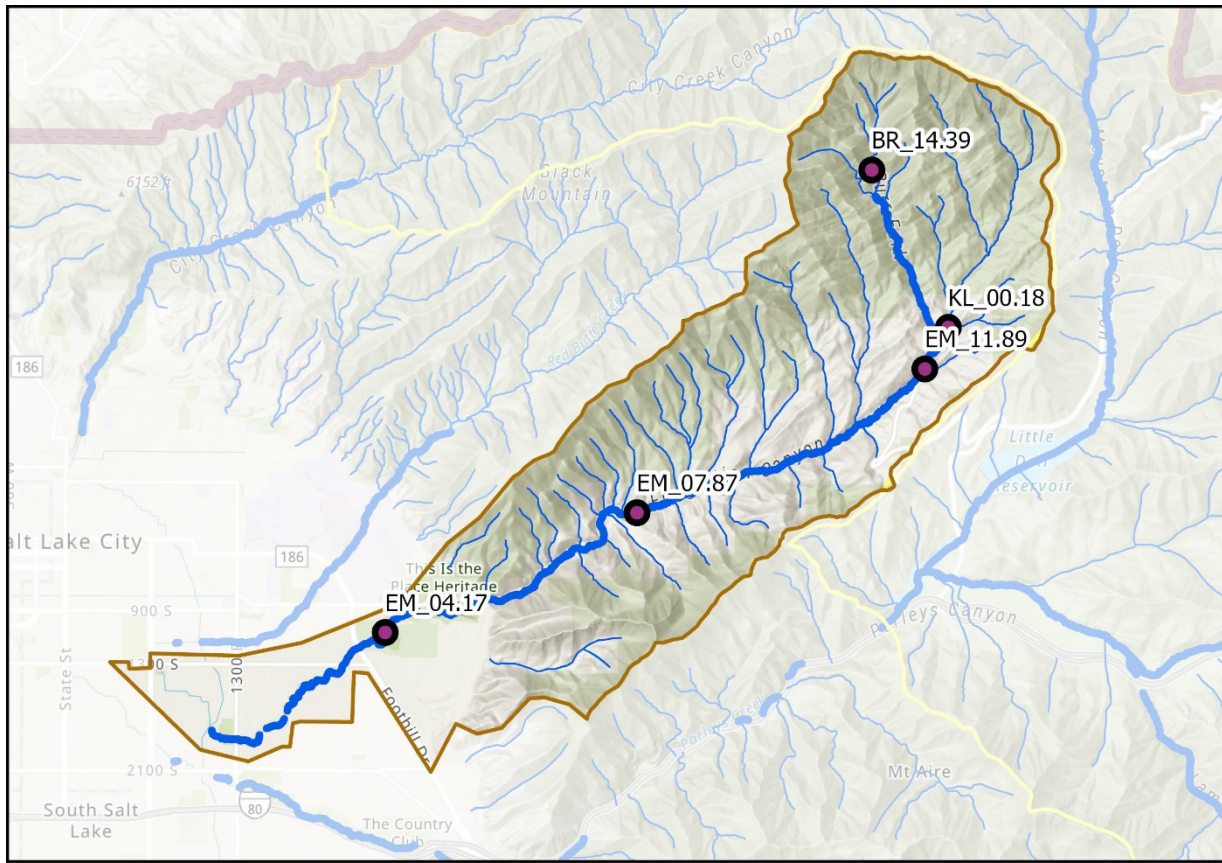


# EMIGRATION CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



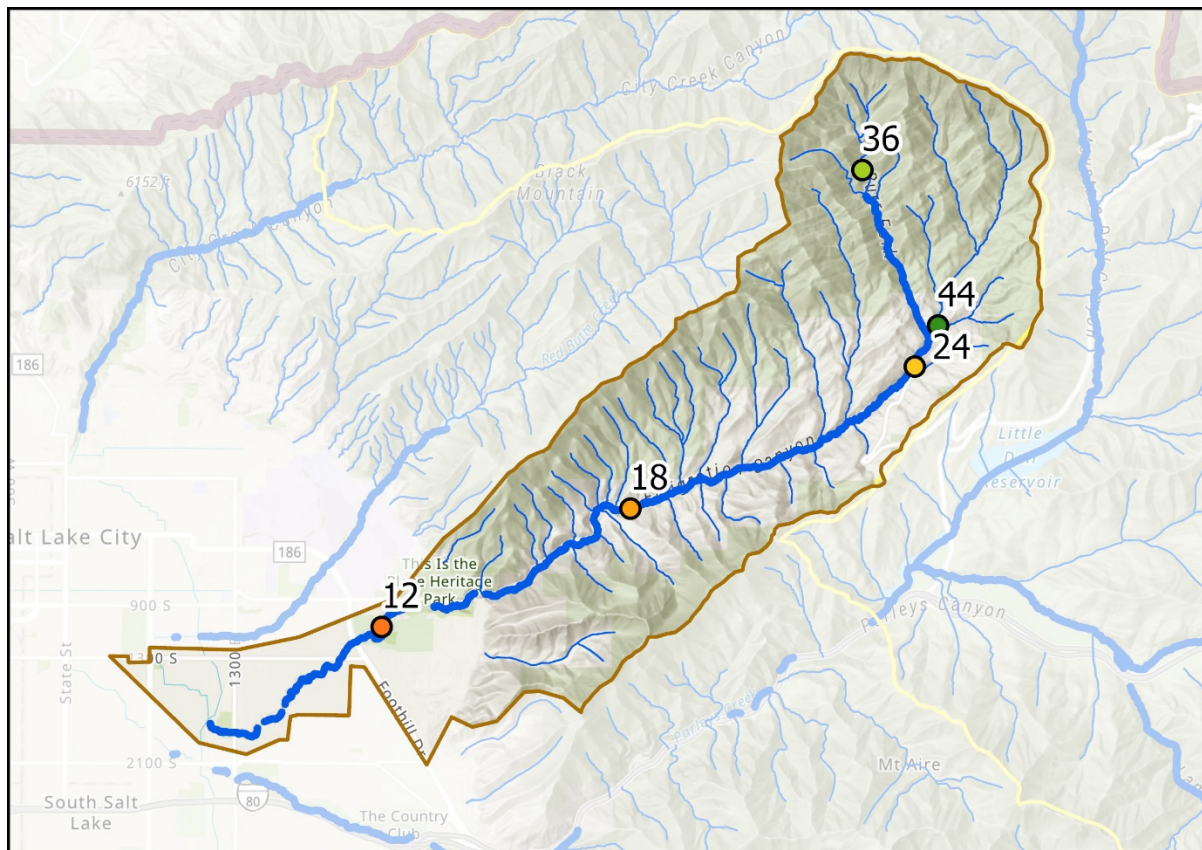
- 2018 Macroinvertebrate Sample Locations
- SLC Drinking Water Source Protection Area
- Salt Lake County Boundary
- Tributary
- Creek



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



2018 Macroinvertebrate  
Karr BIBI

- ≤10
- ≤12
- ≤20
- ≤24
- ≤28

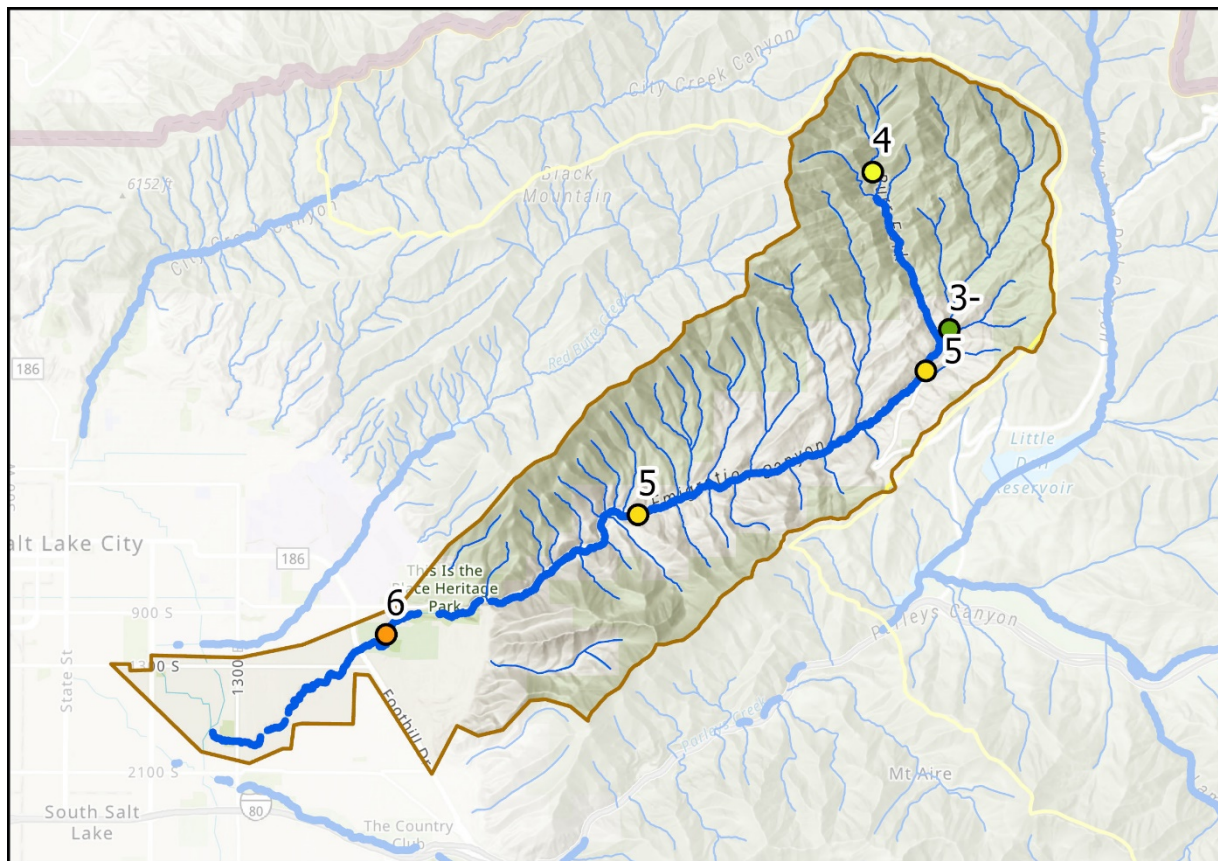
- ≤32
- ≤36
- ≤40
- ≤44
- ≤48
- No Sample

- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

# Macroinvertebrate Biological Condition Gradient (BCG) Results



2018 Macroinvertebrate Biological Condition Gradient

- 2-
- 2
- 3-
- 3
- 3+

- 4
- 5
- 5+
- 6
- 6+
- No Sample

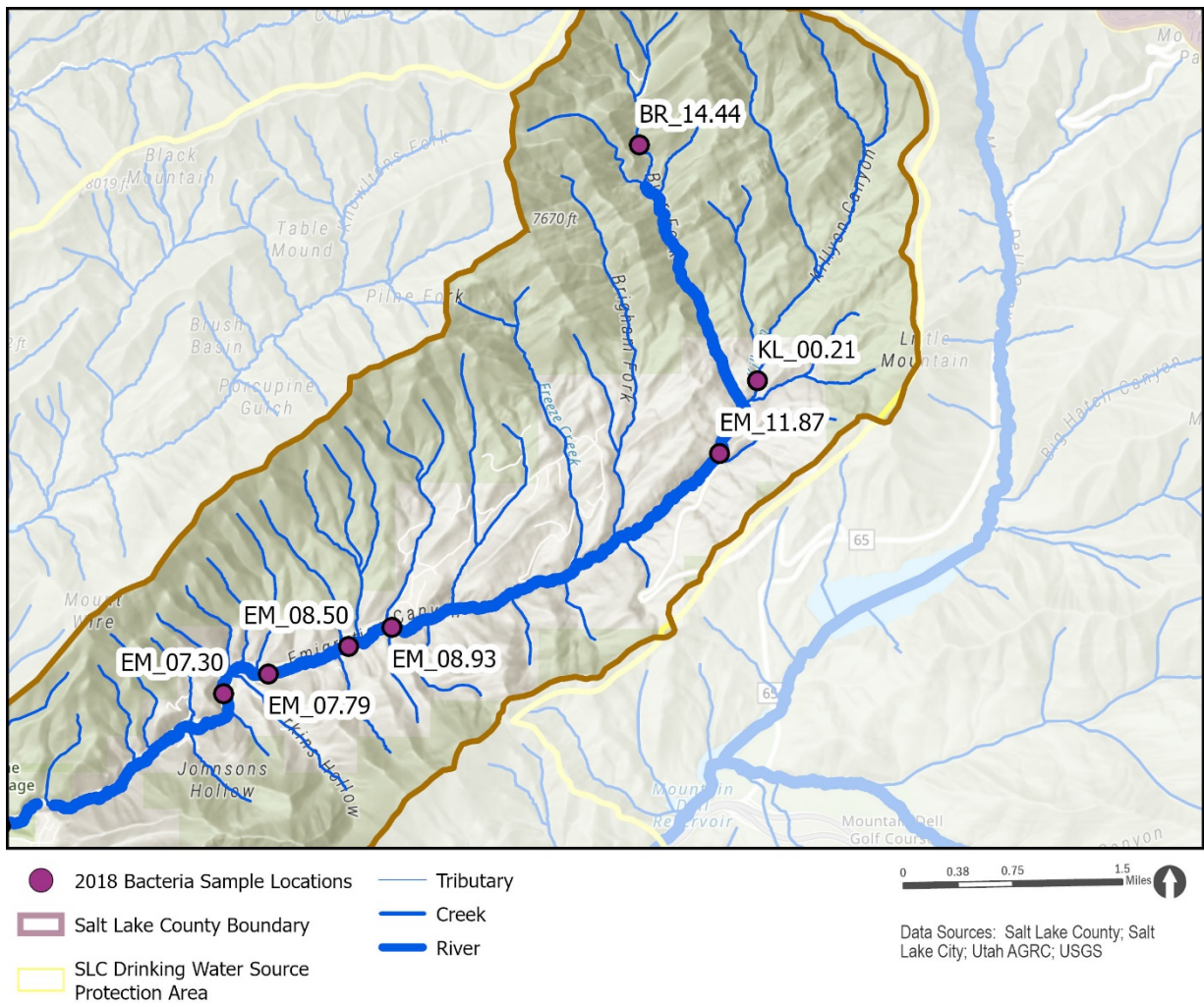
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



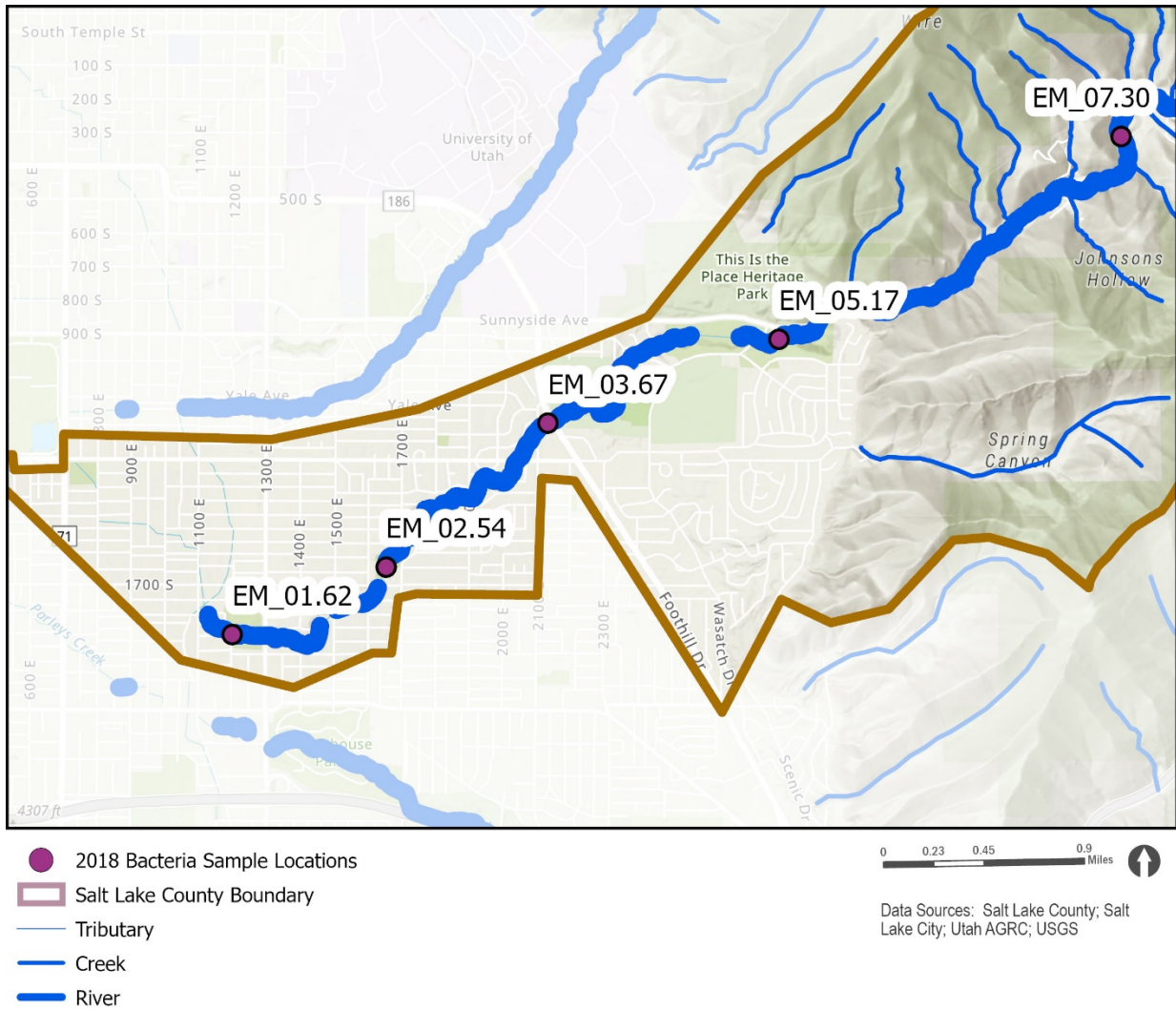
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



Subwatershed Map with Bacteria Sample Sites (upper)



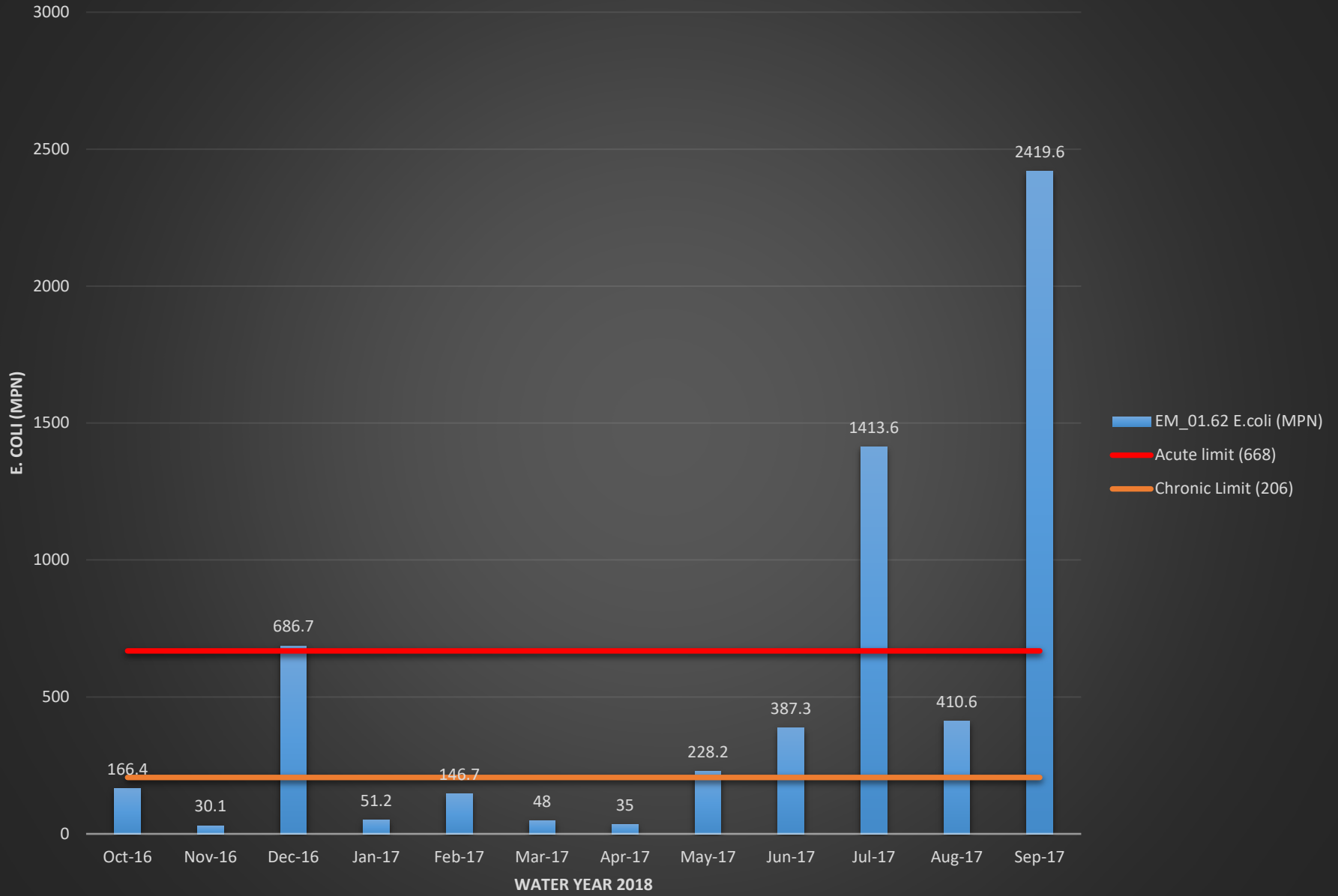
## Subwatershed Map with Bacteria Sample Sites (lower)



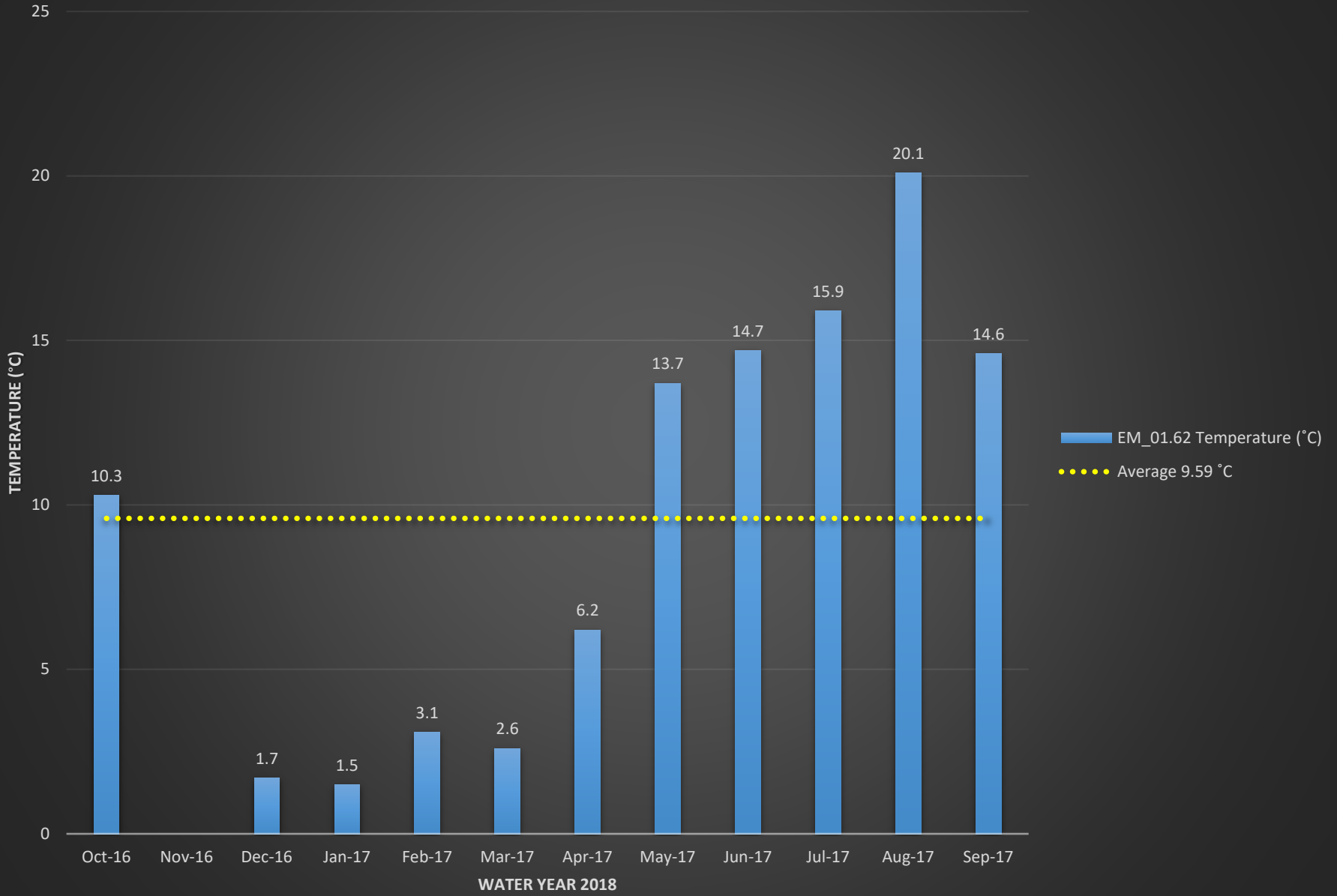
## E. coli & Field Parameter Graphs

Graphs start on next page...

# EM\_01.62 E.coli (MPN)

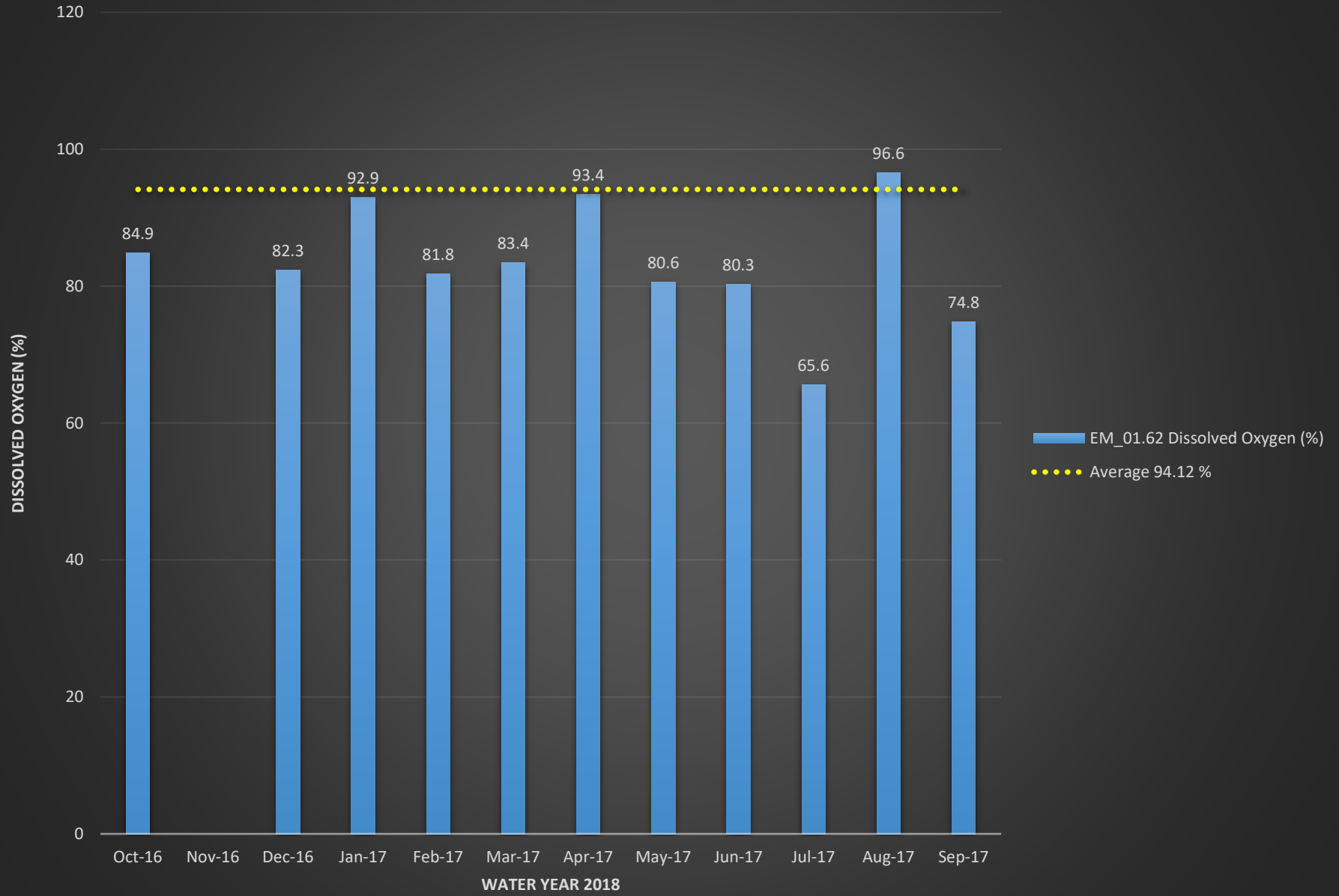


# EM\_01.62 Temperature (°C)

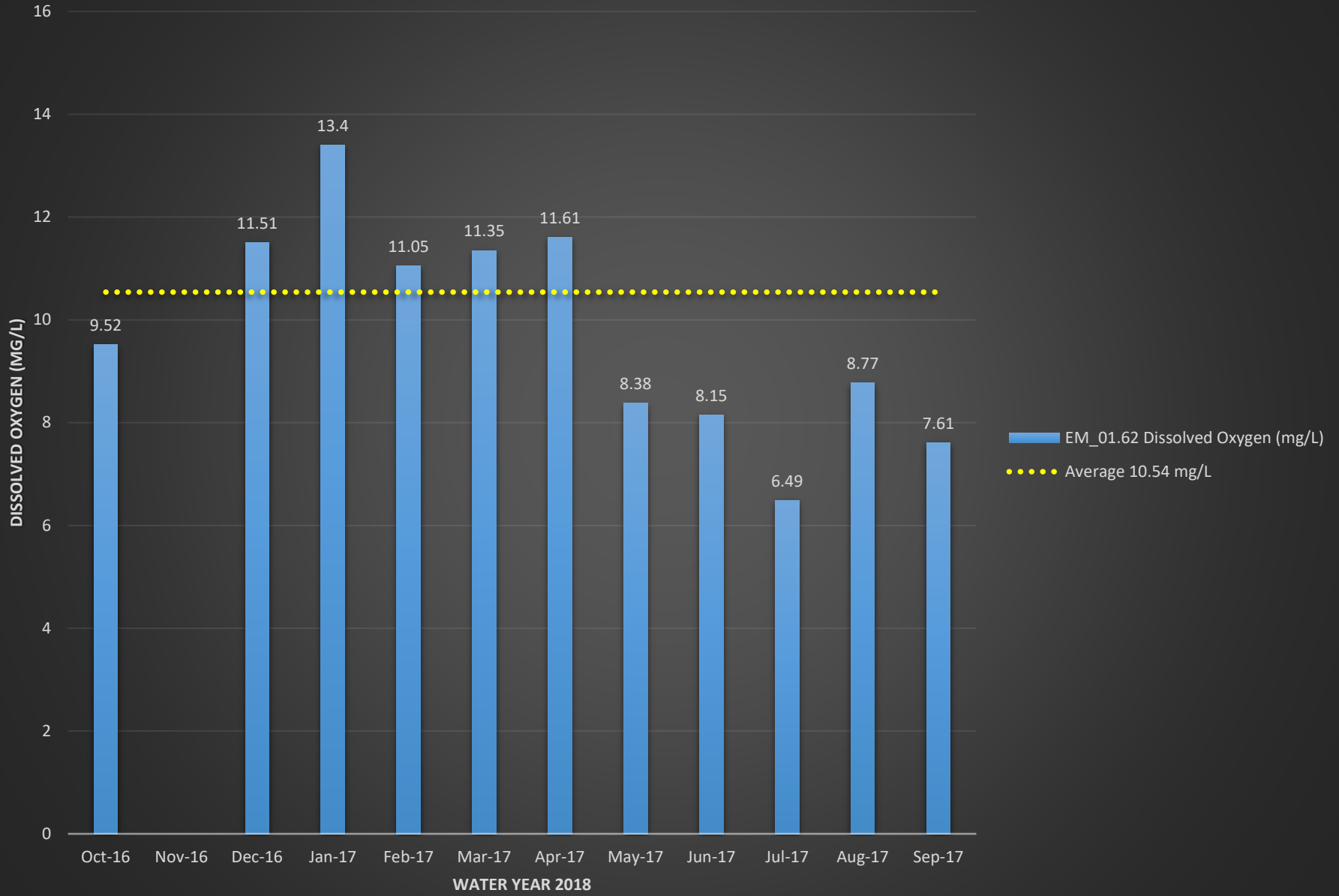




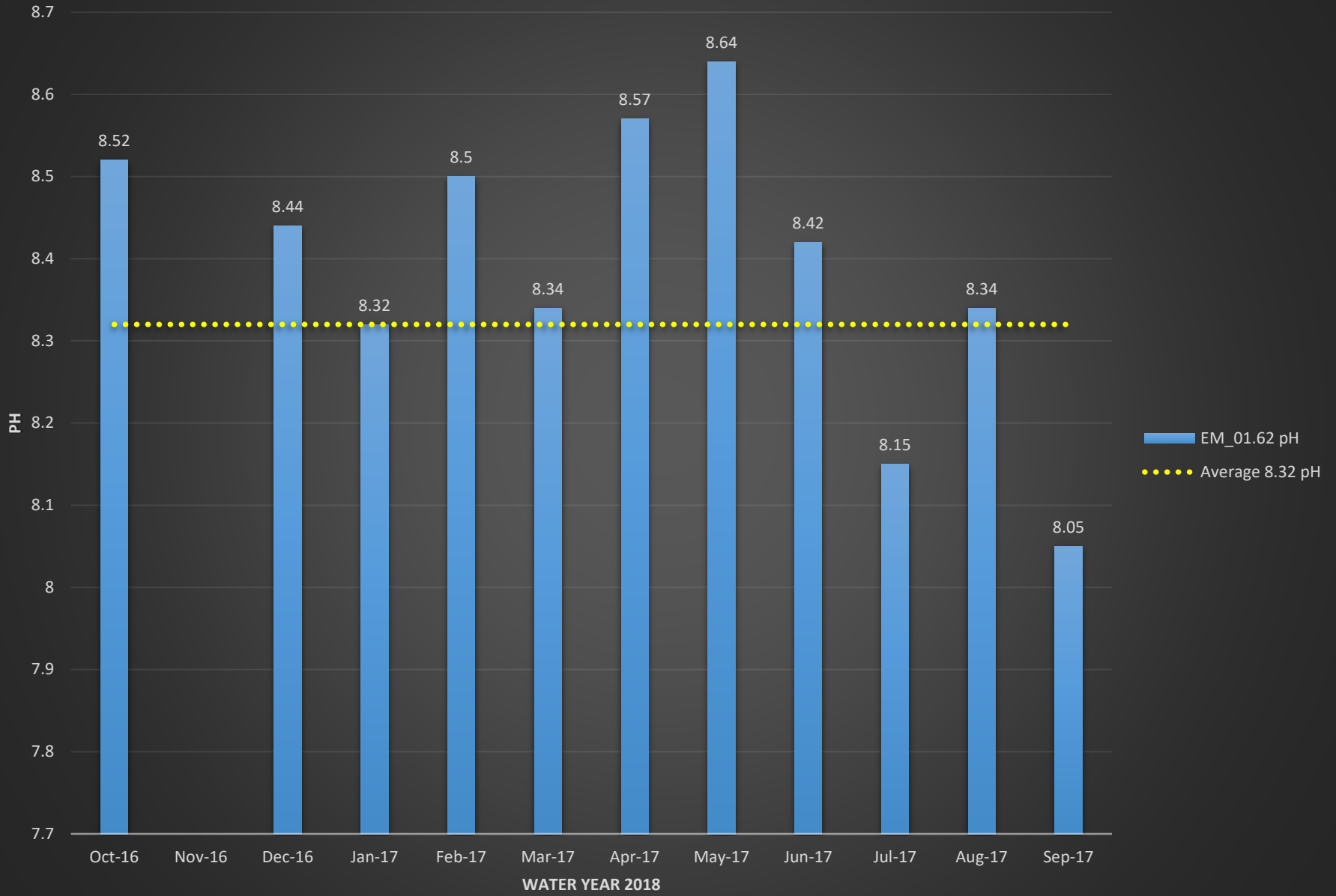
# EM\_01.62 Dissolved Oxygen (%)



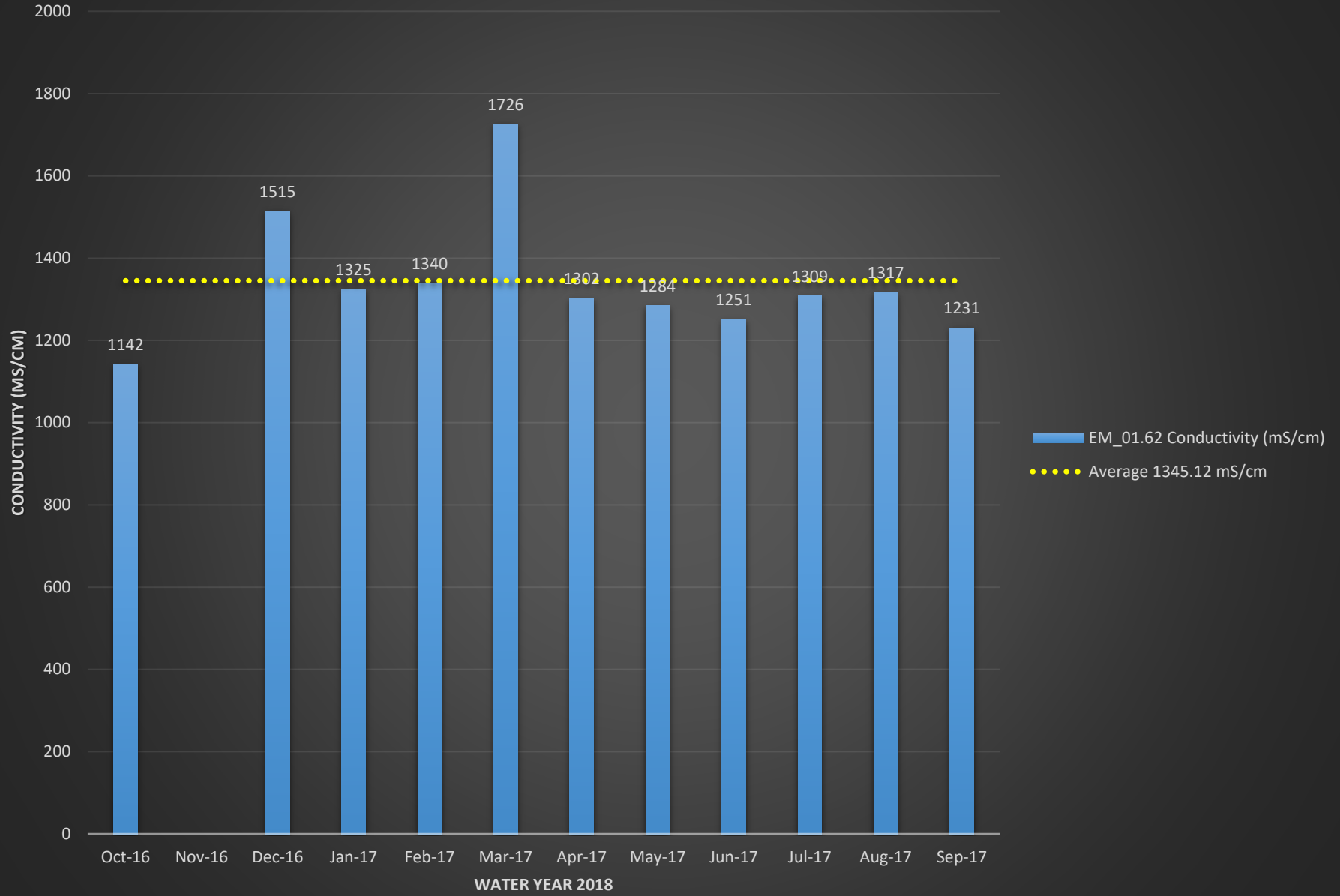
# EM\_01.62 Dissolved Oxygen (mg/L)



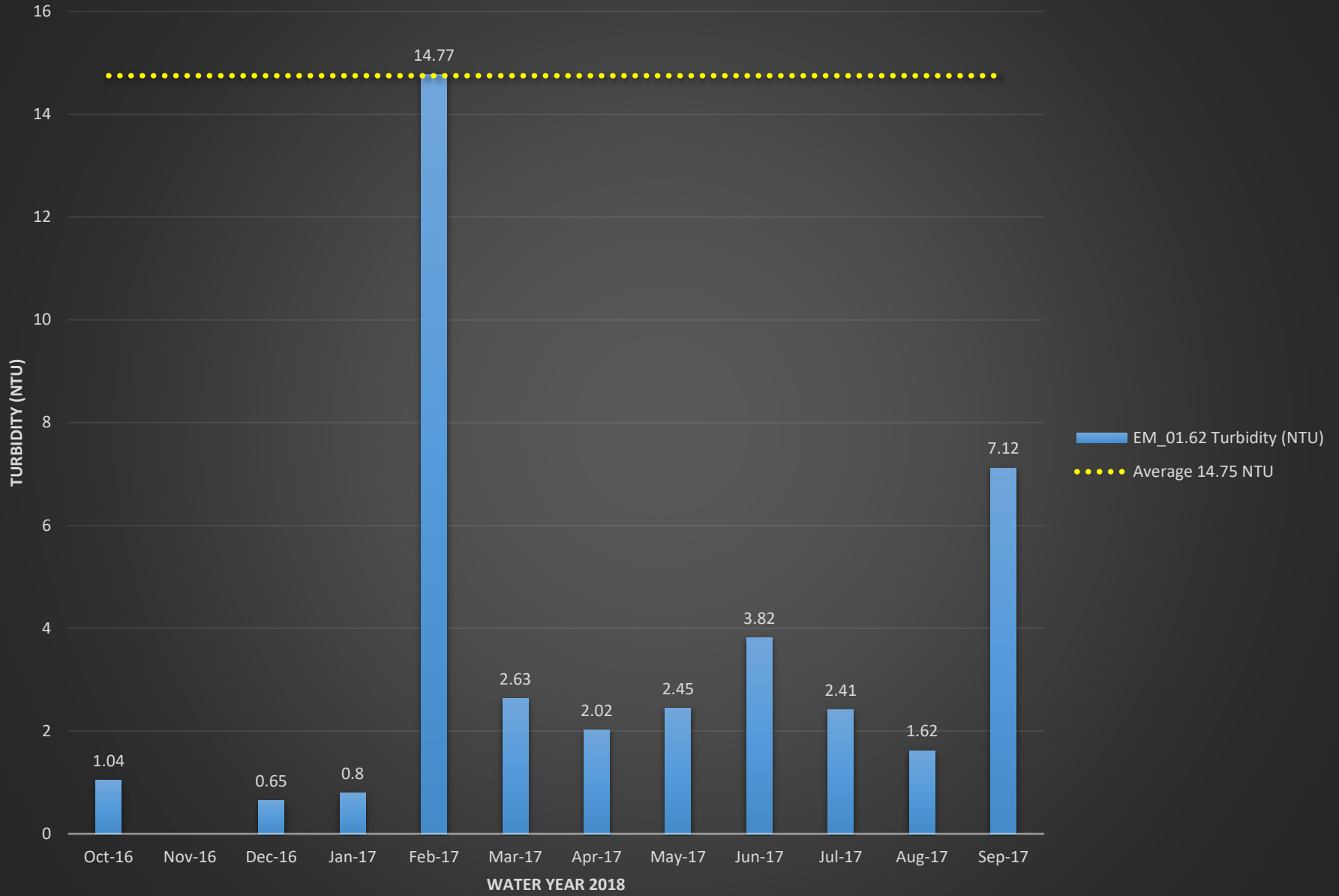
# EM\_01.62 pH



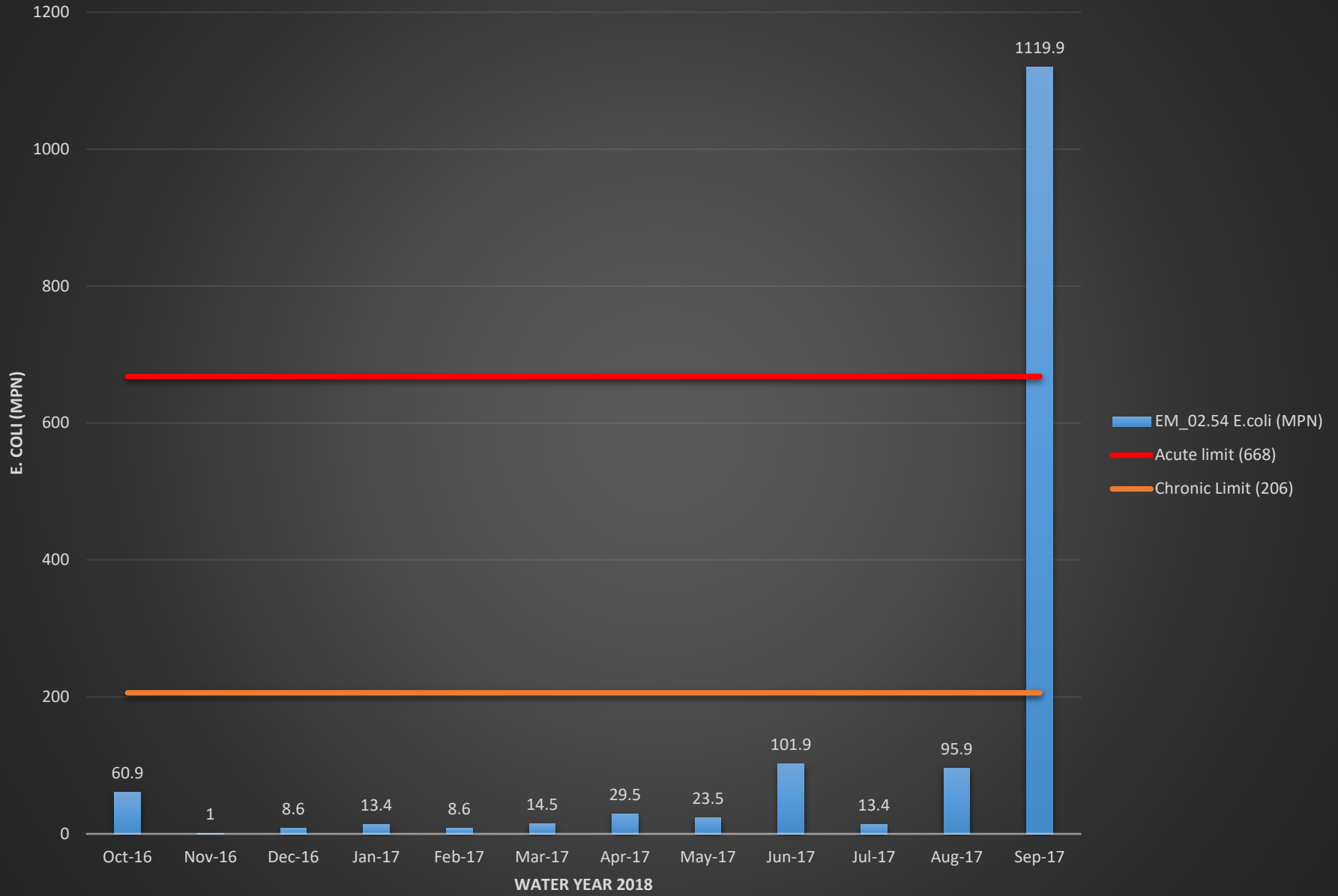
# EM\_01.62 Conductivity (mS/cm)



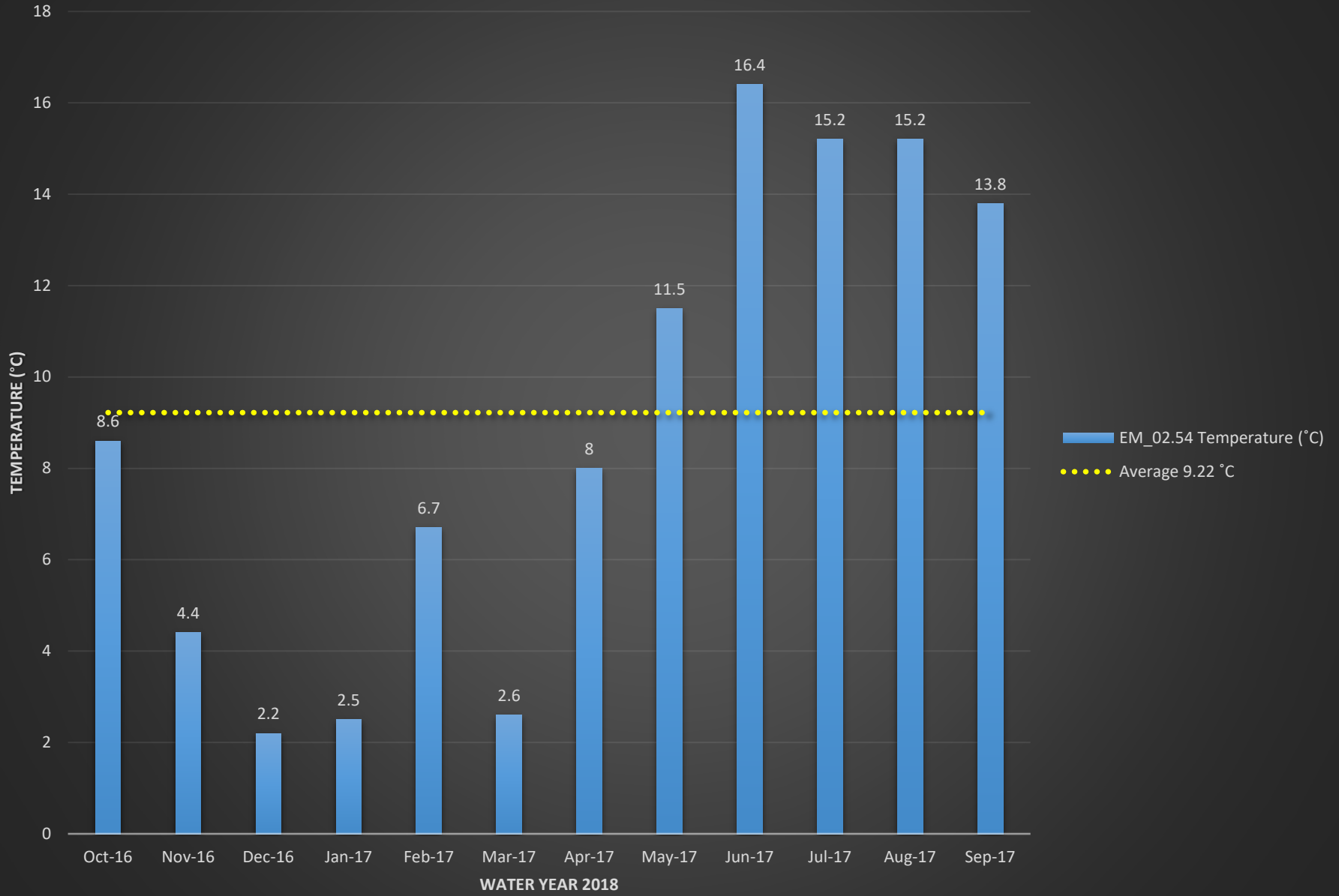
# EM\_01.62 Turbidity (NTU)



# EM\_02.54 E.coli (MPN)

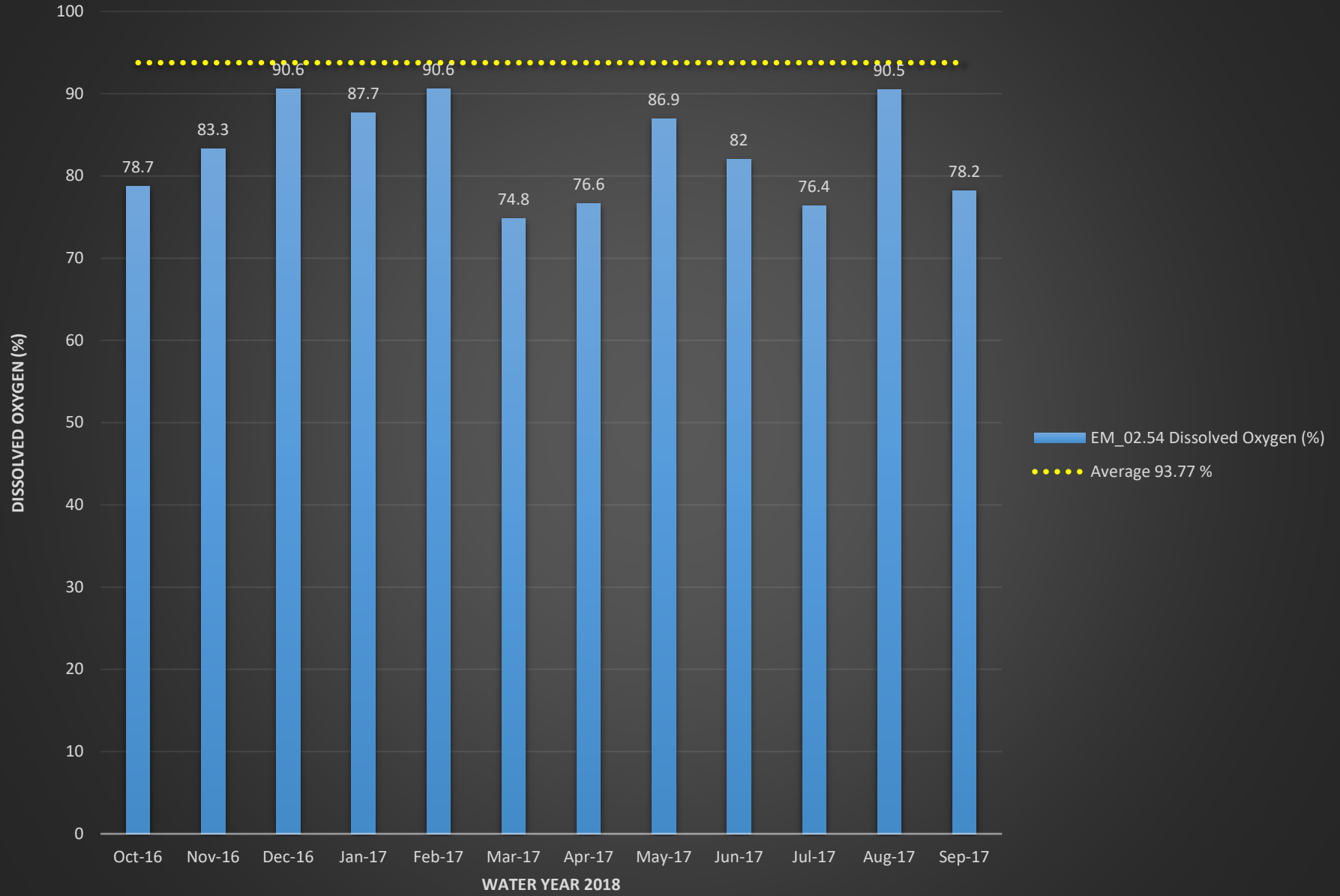


# EM\_02.54 Temperature (°C)

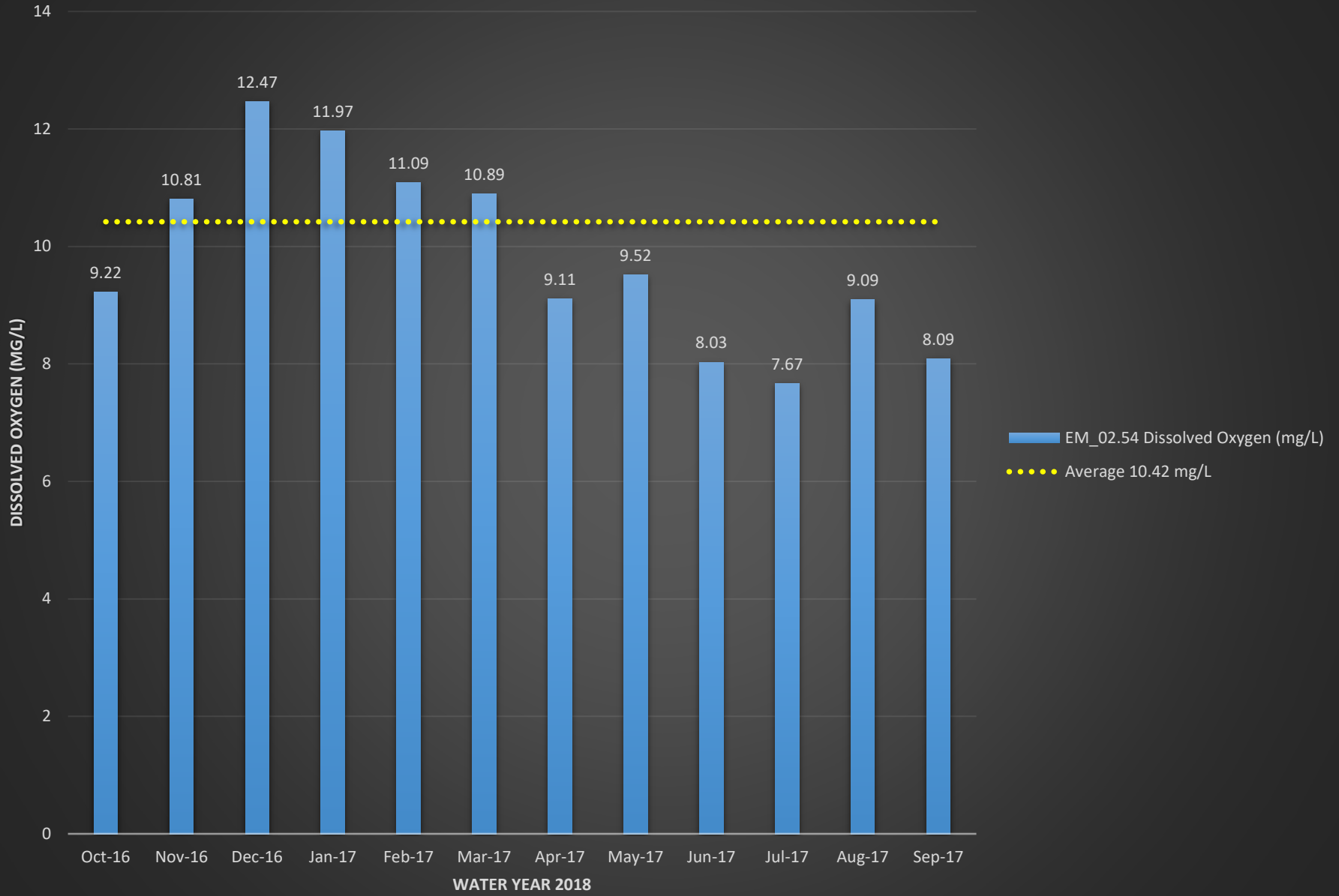




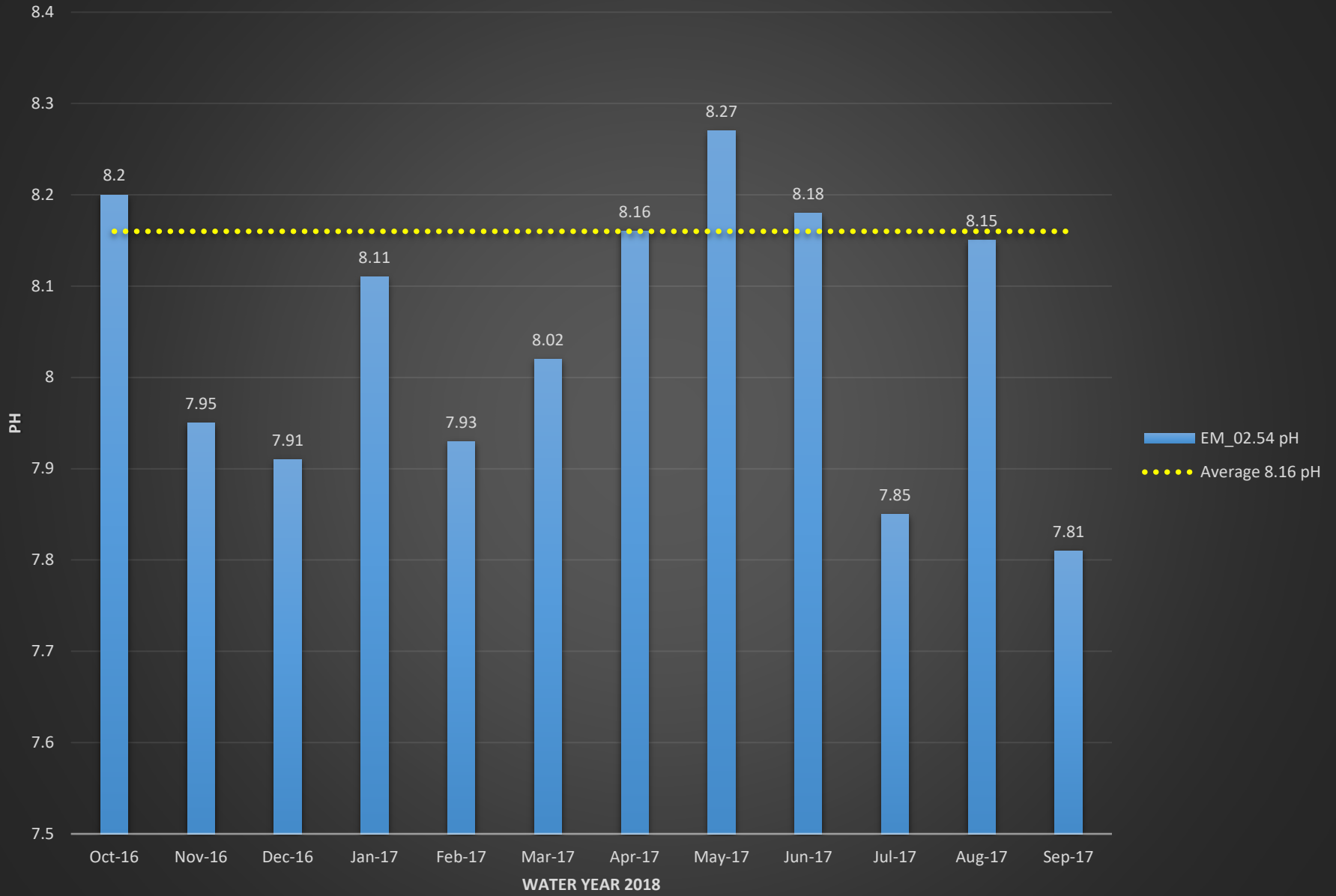
# EM\_02.54 Dissolved Oxygen (%)



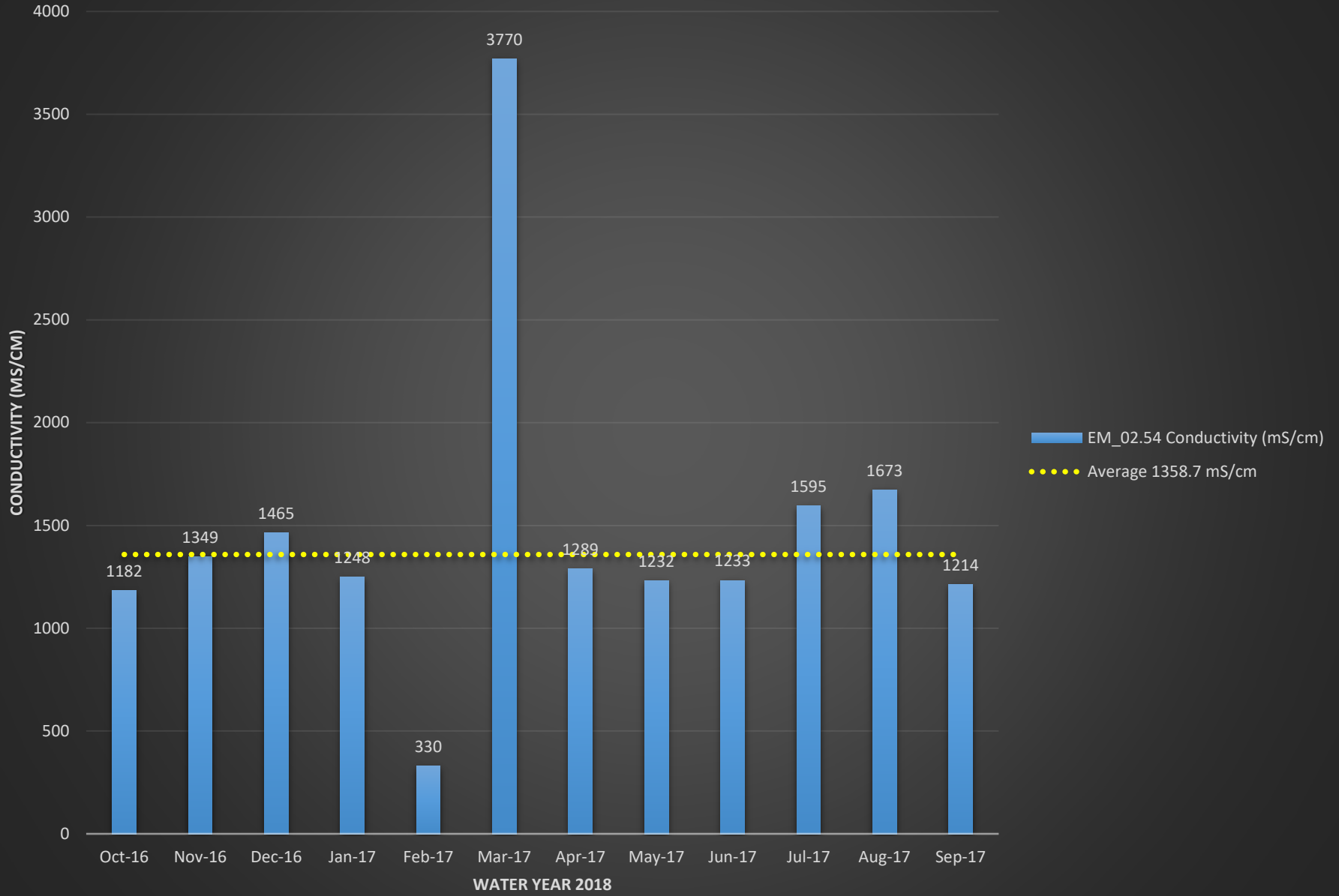
# EM\_02.54 Dissolved Oxygen (mg/L)



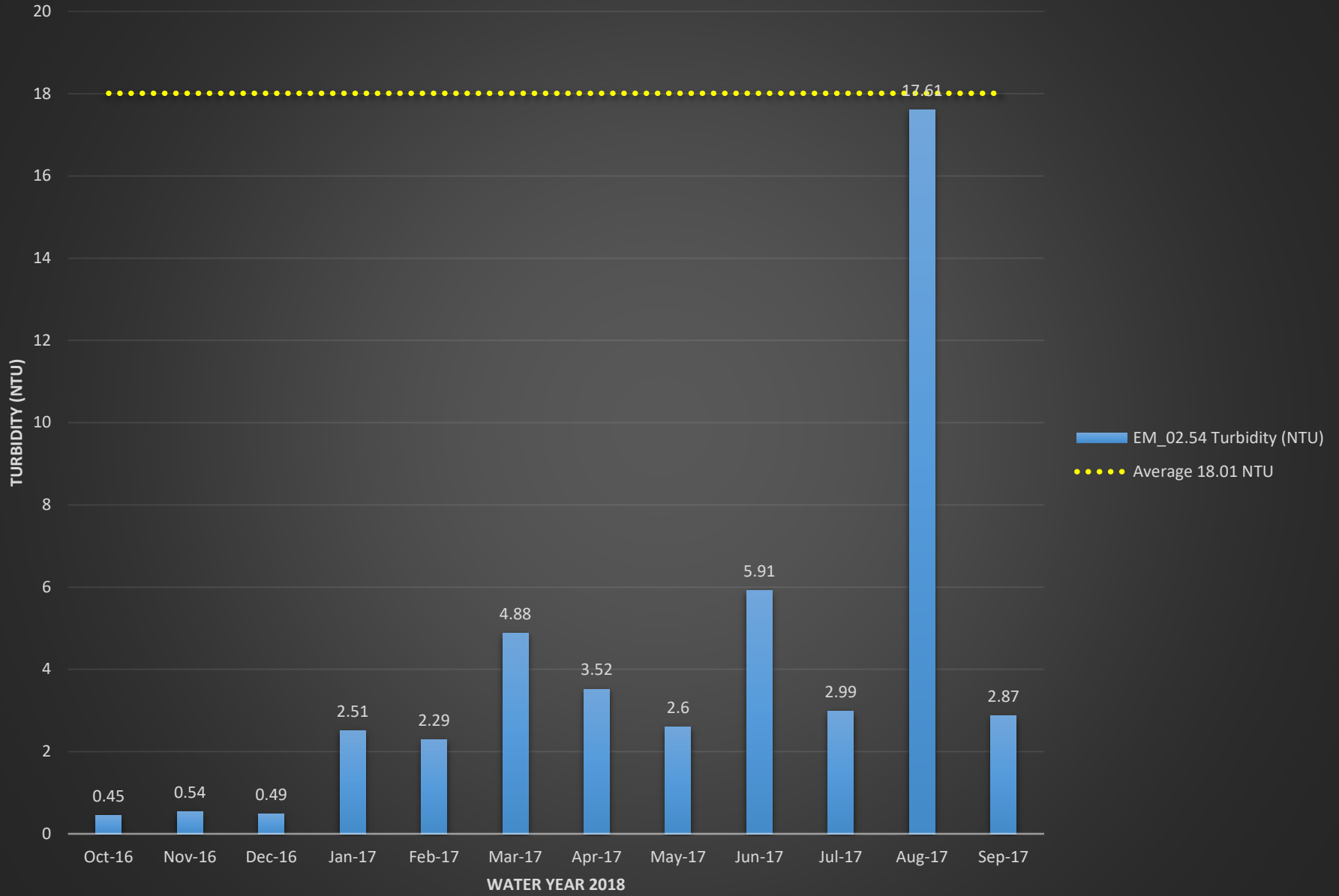
# EM\_02.54 pH



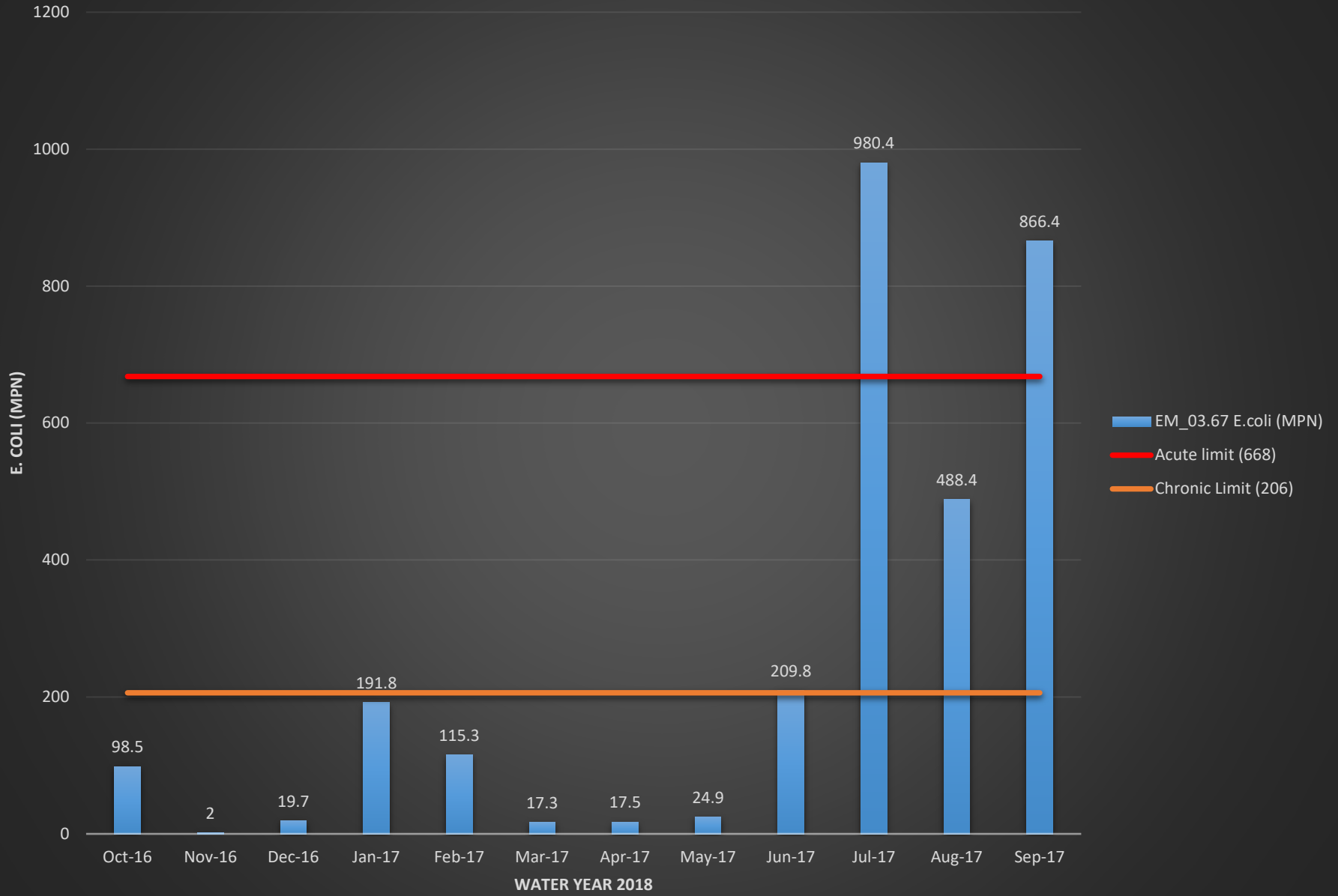
# EM\_02.54 Conductivity (mS/cm)



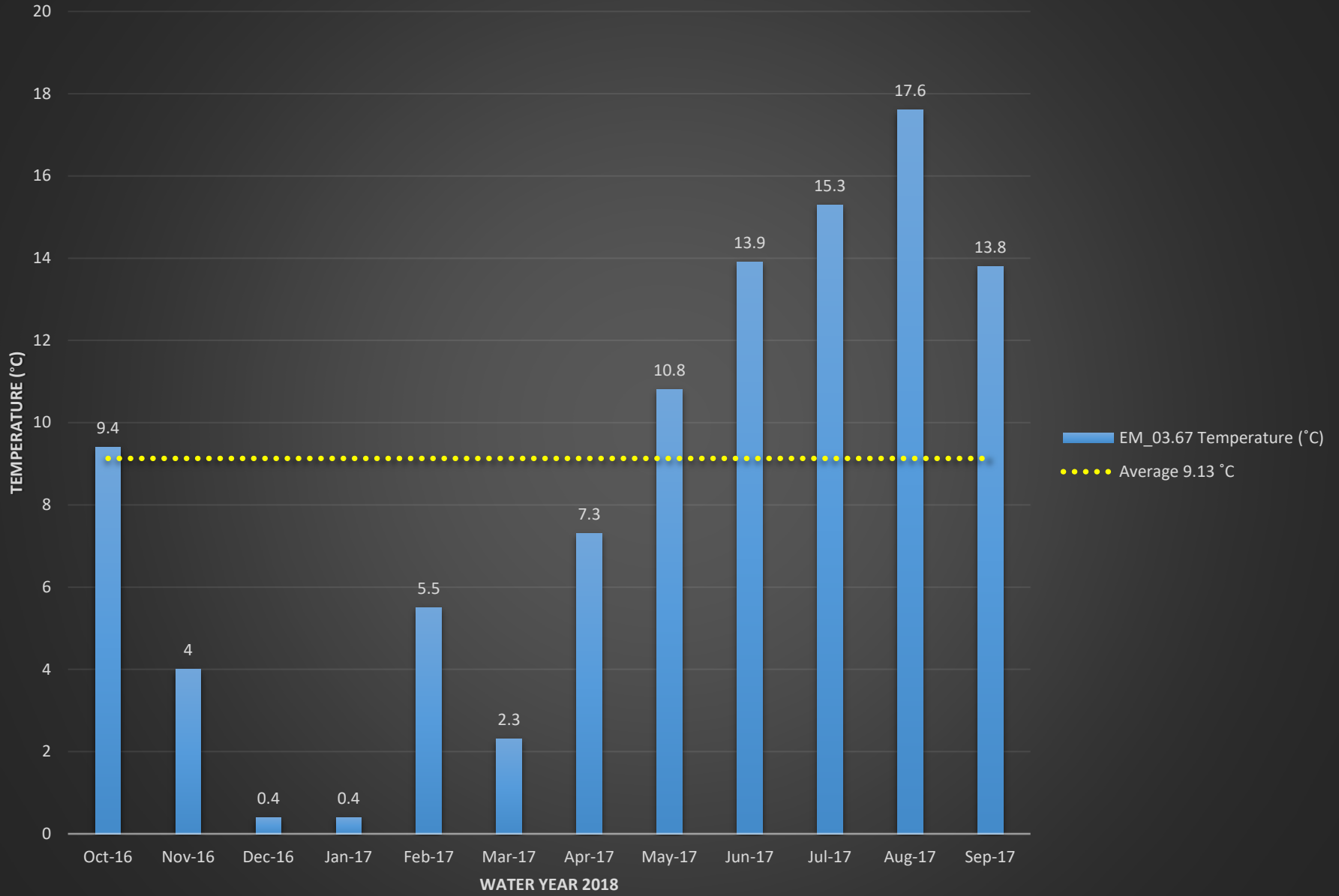
# EM\_02.54 Turbidity (NTU)



# EM\_03.67 E.coli (MPN)

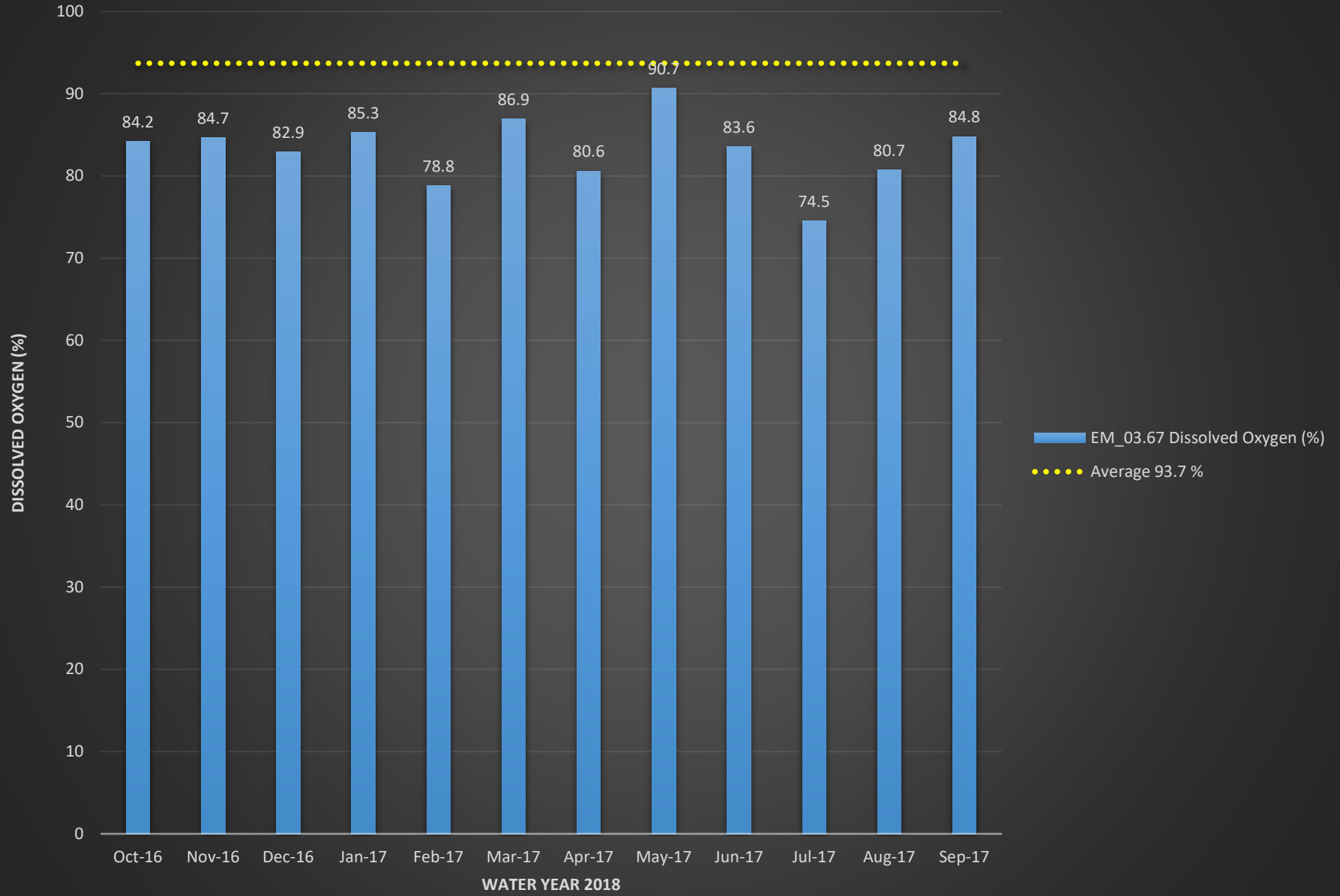


# EM\_03.67 Temperature (°C)

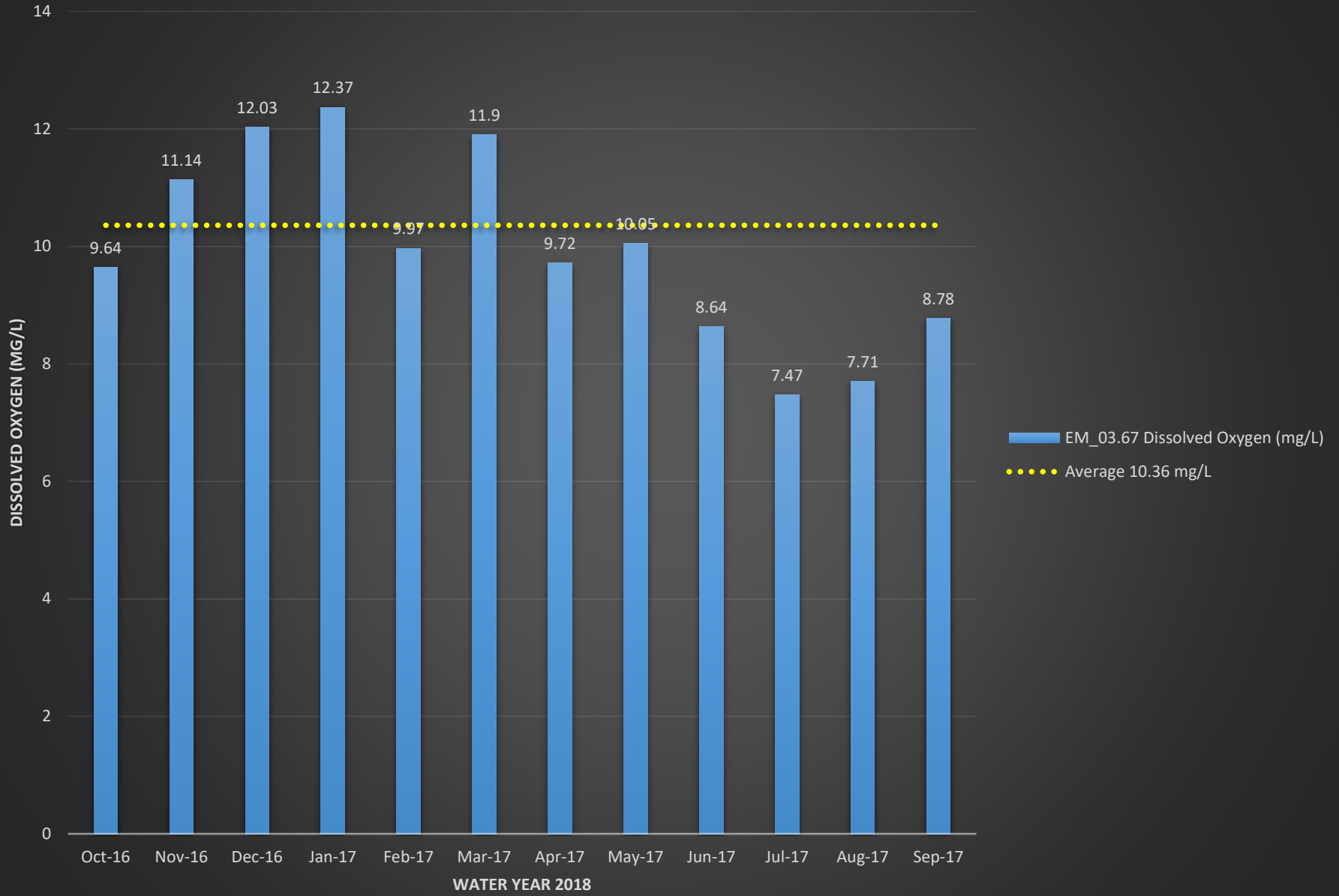




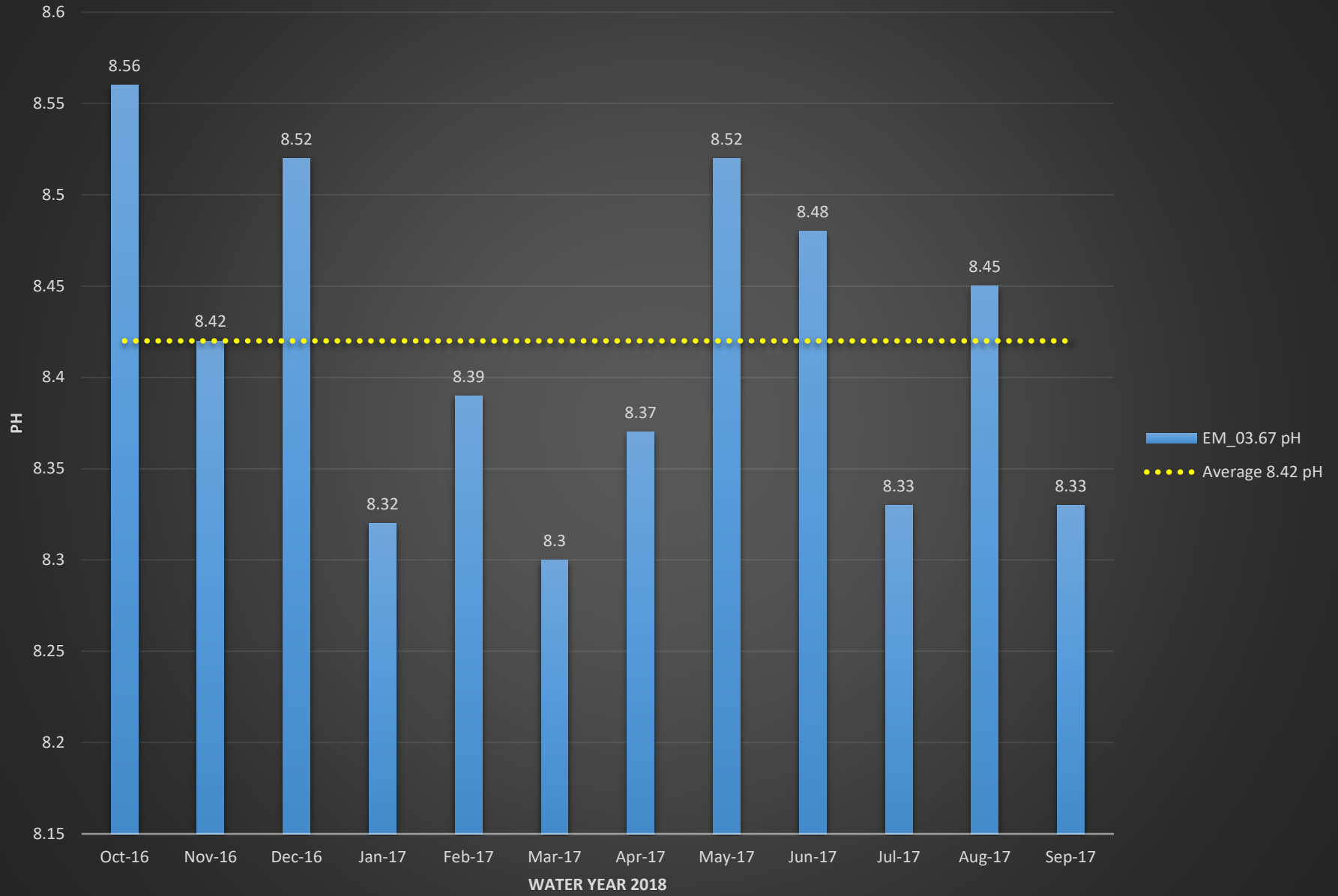
# EM\_03.67 Dissolved Oxygen (%)



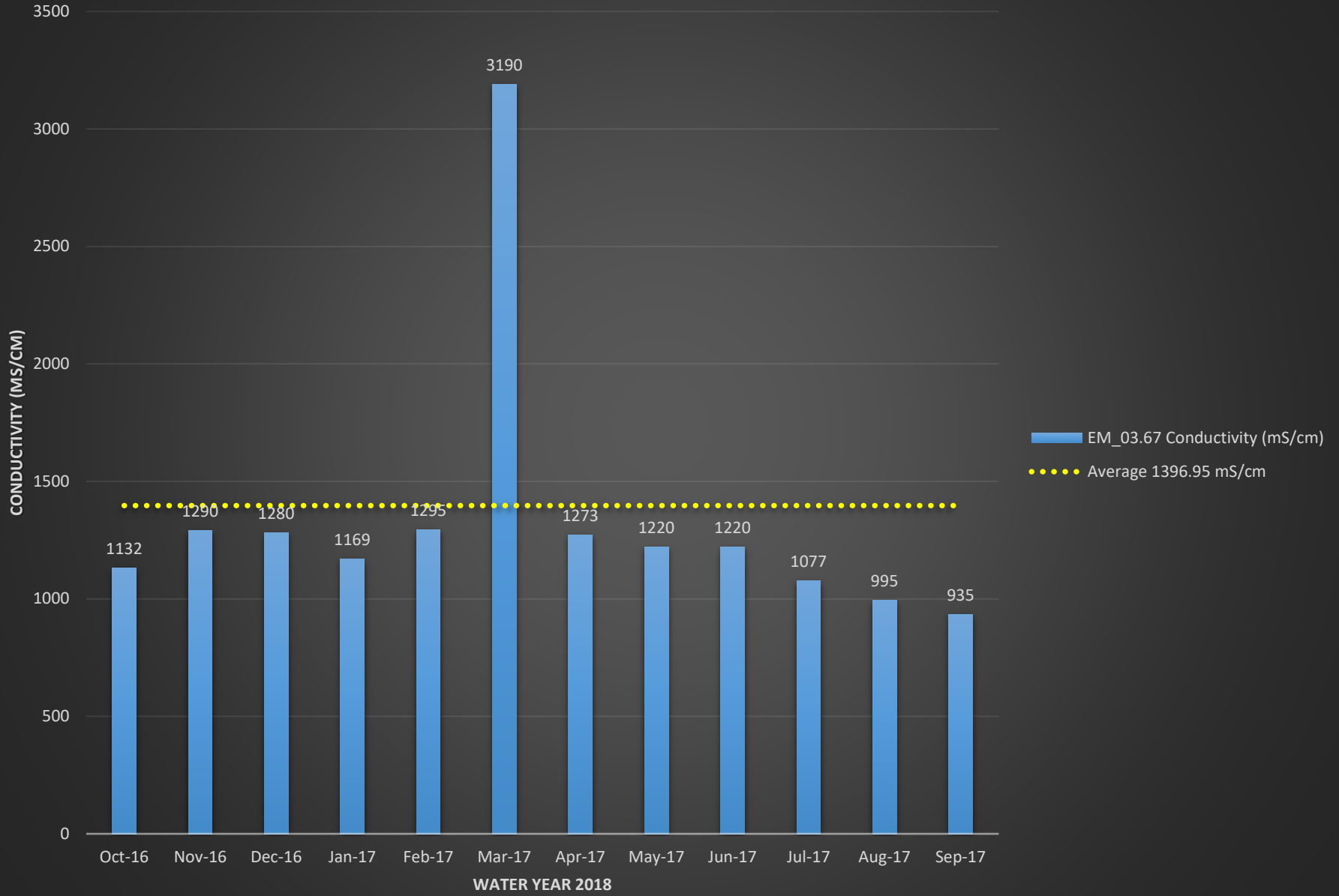
# EM\_03.67 Dissolved Oxygen (mg/L)



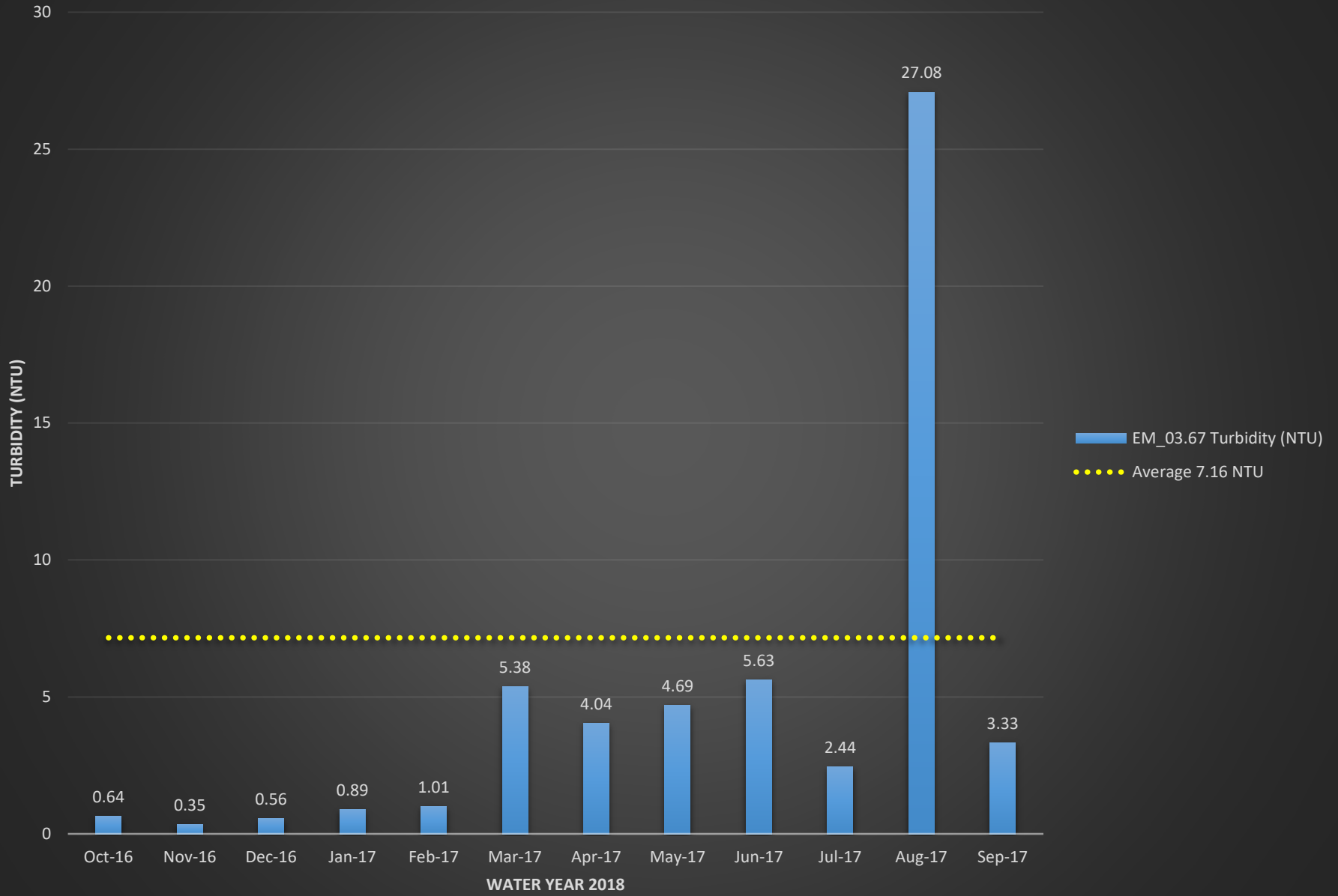
# EM\_03.67 pH



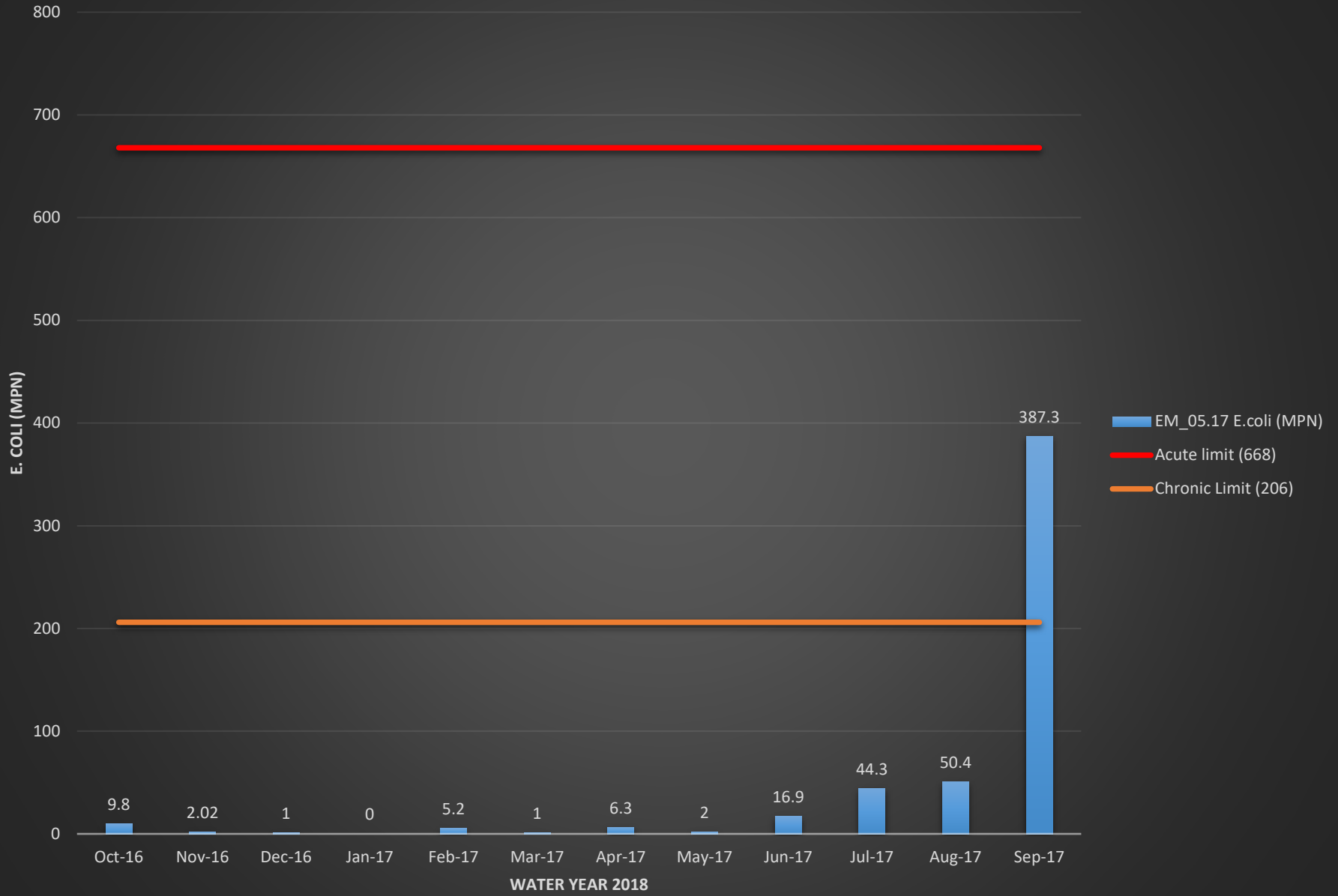
# EM\_03.67 Conductivity (mS/cm)



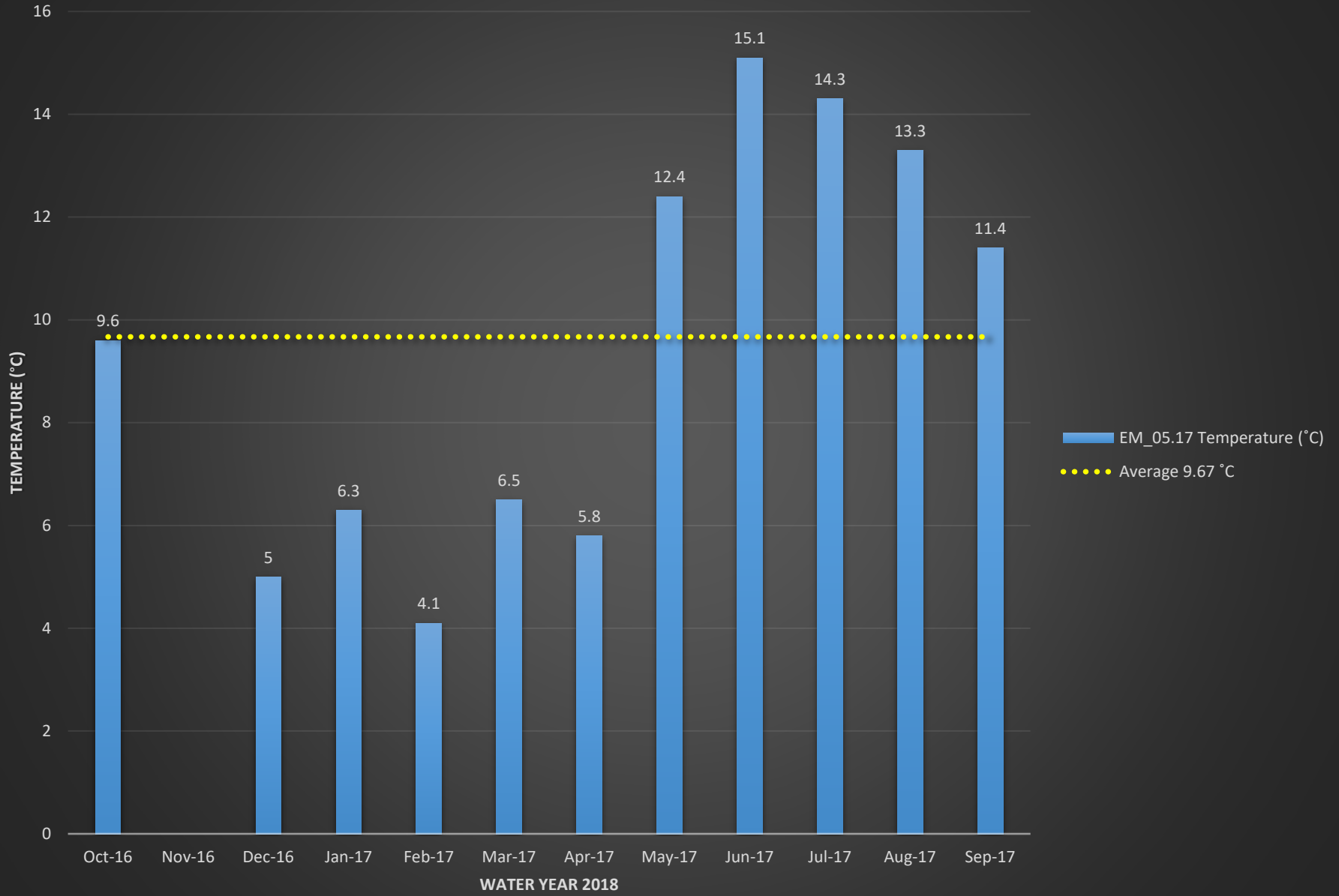
# EM\_03.67 Turbidity (NTU)



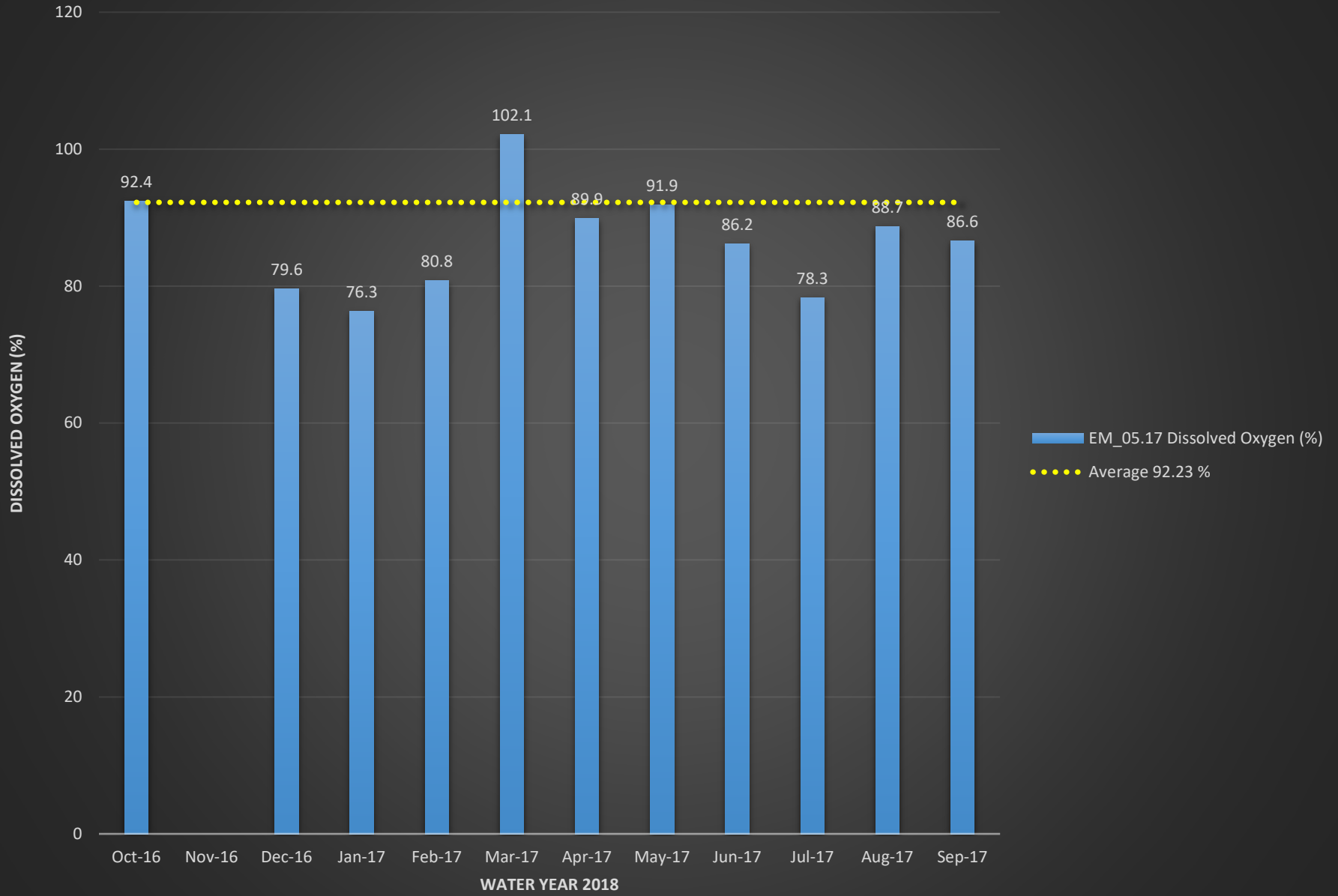
# EM\_05.17 E.coli (MPN)



# EM\_05.17 Temperature (°C)

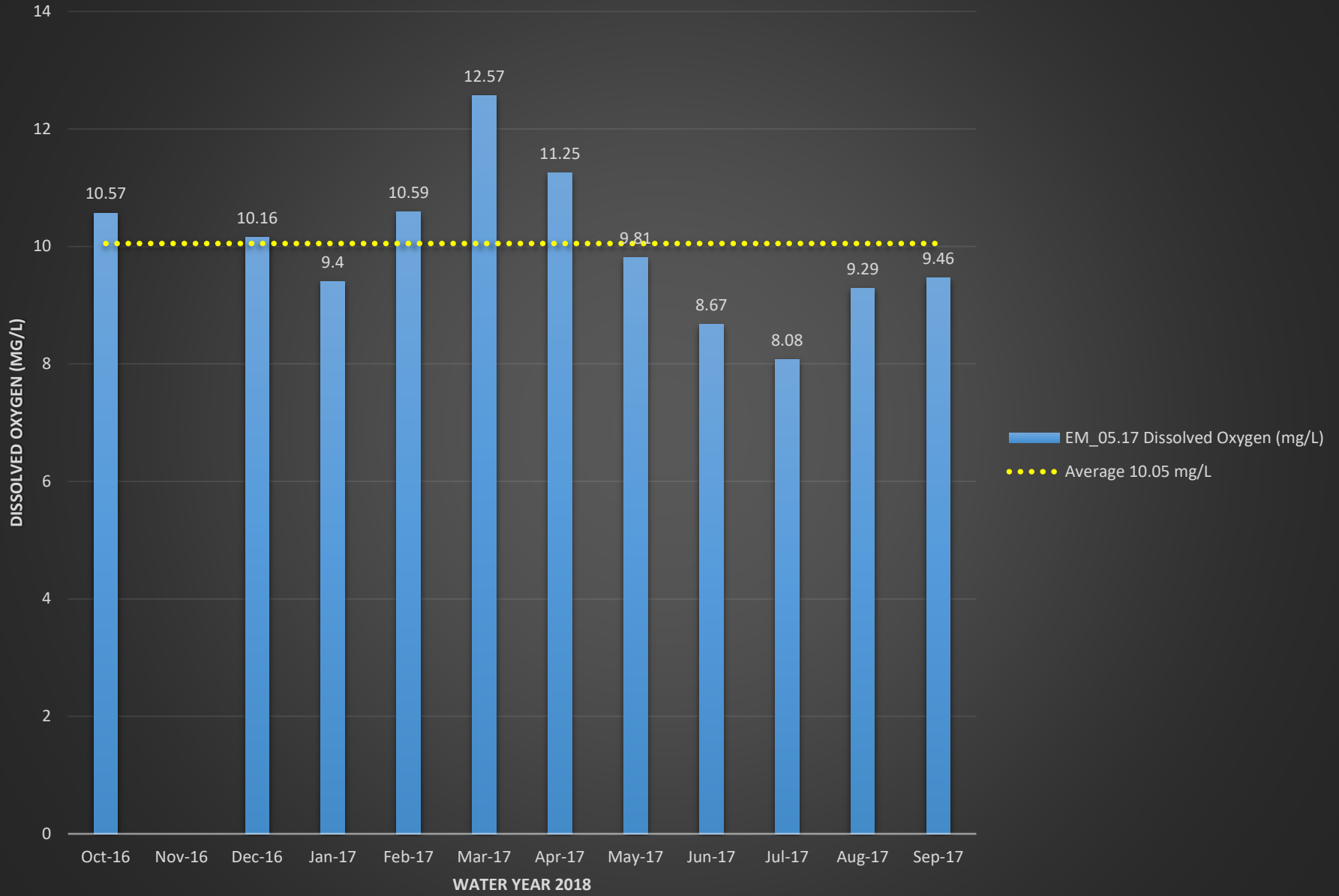


# EM\_05.17 Dissolved Oxygen (%)

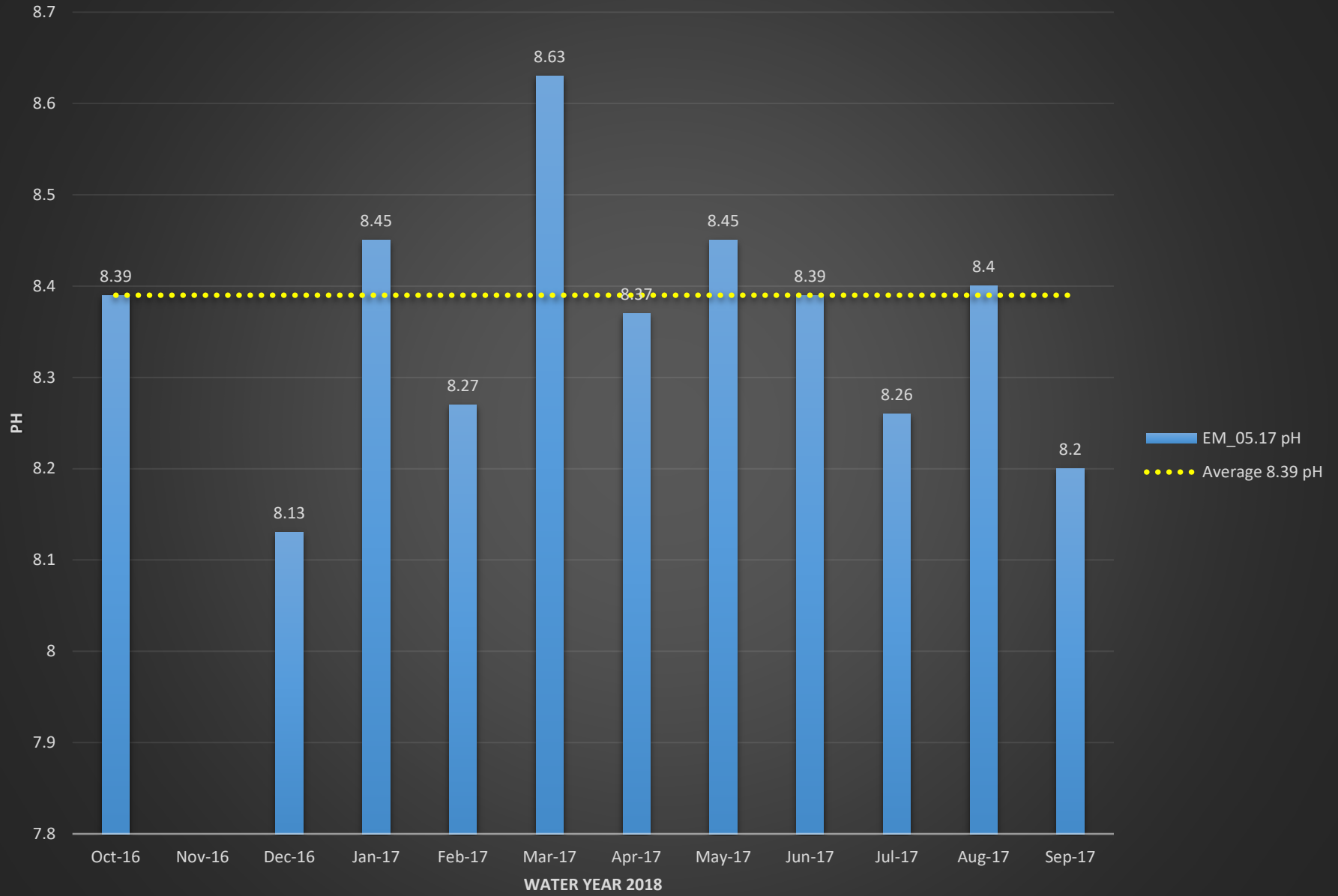




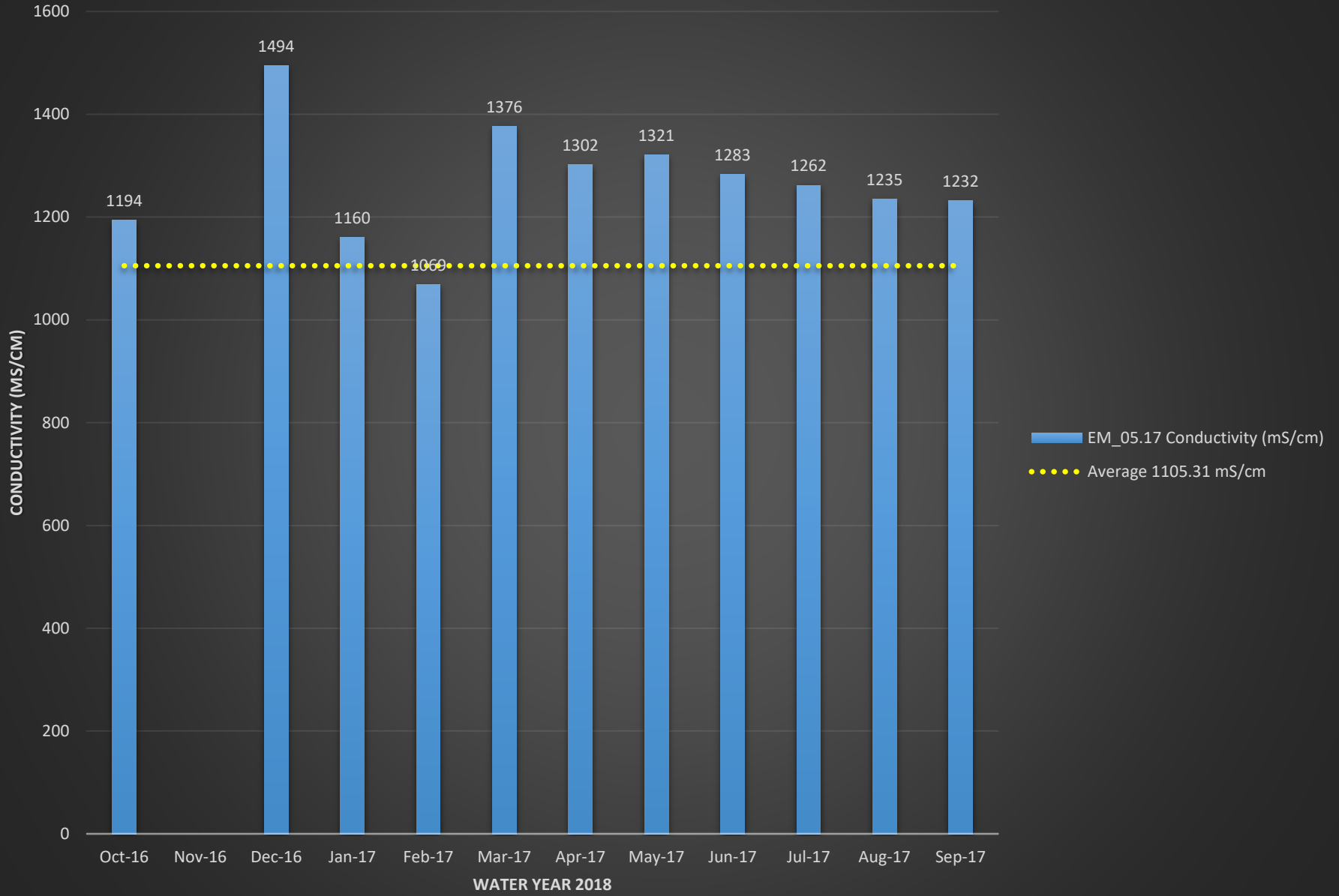
# EM\_05.17 Dissolved Oxygen (mg/L)



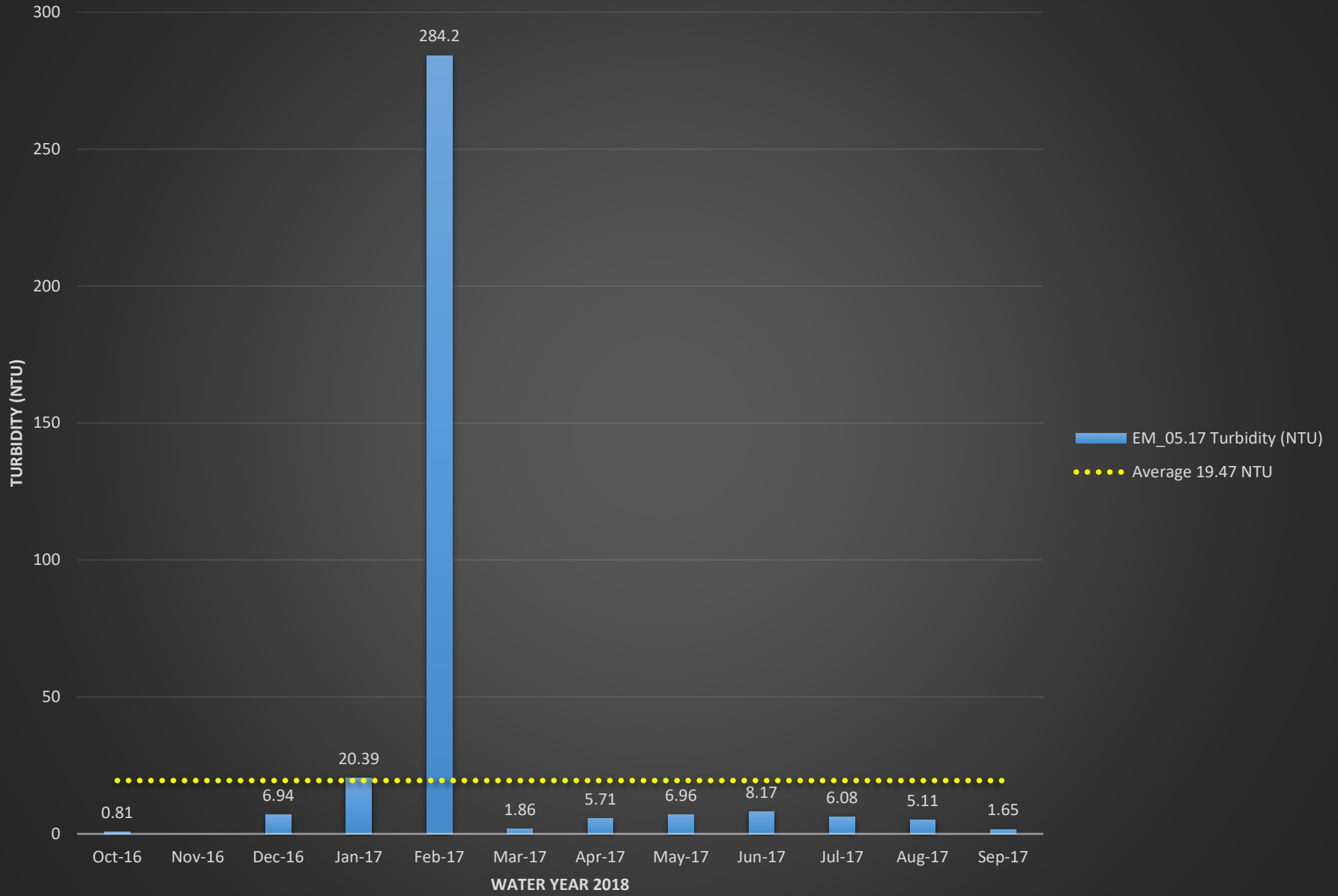
# EM\_05.17 pH



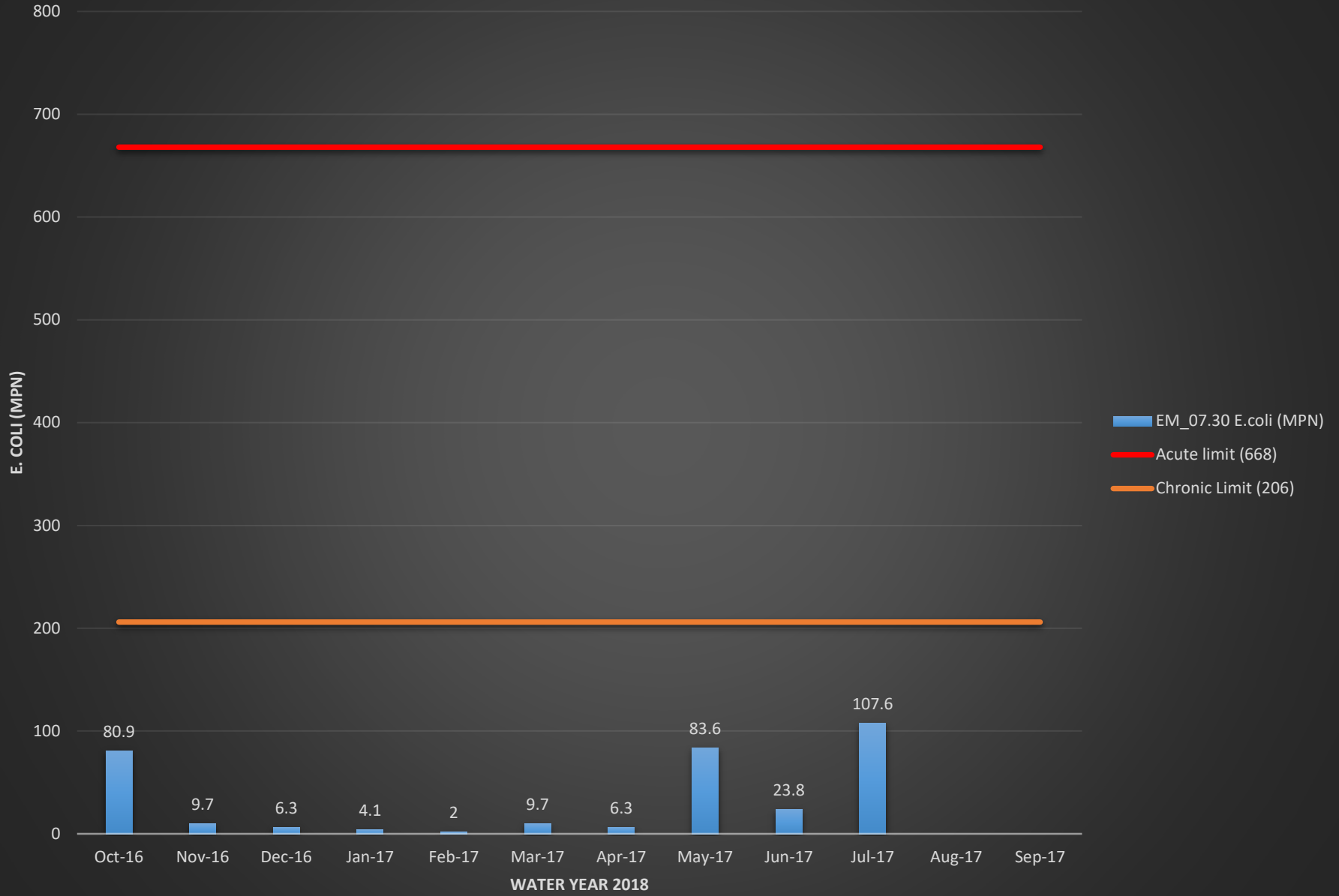
# EM\_05.17 Conductivity (mS/cm)



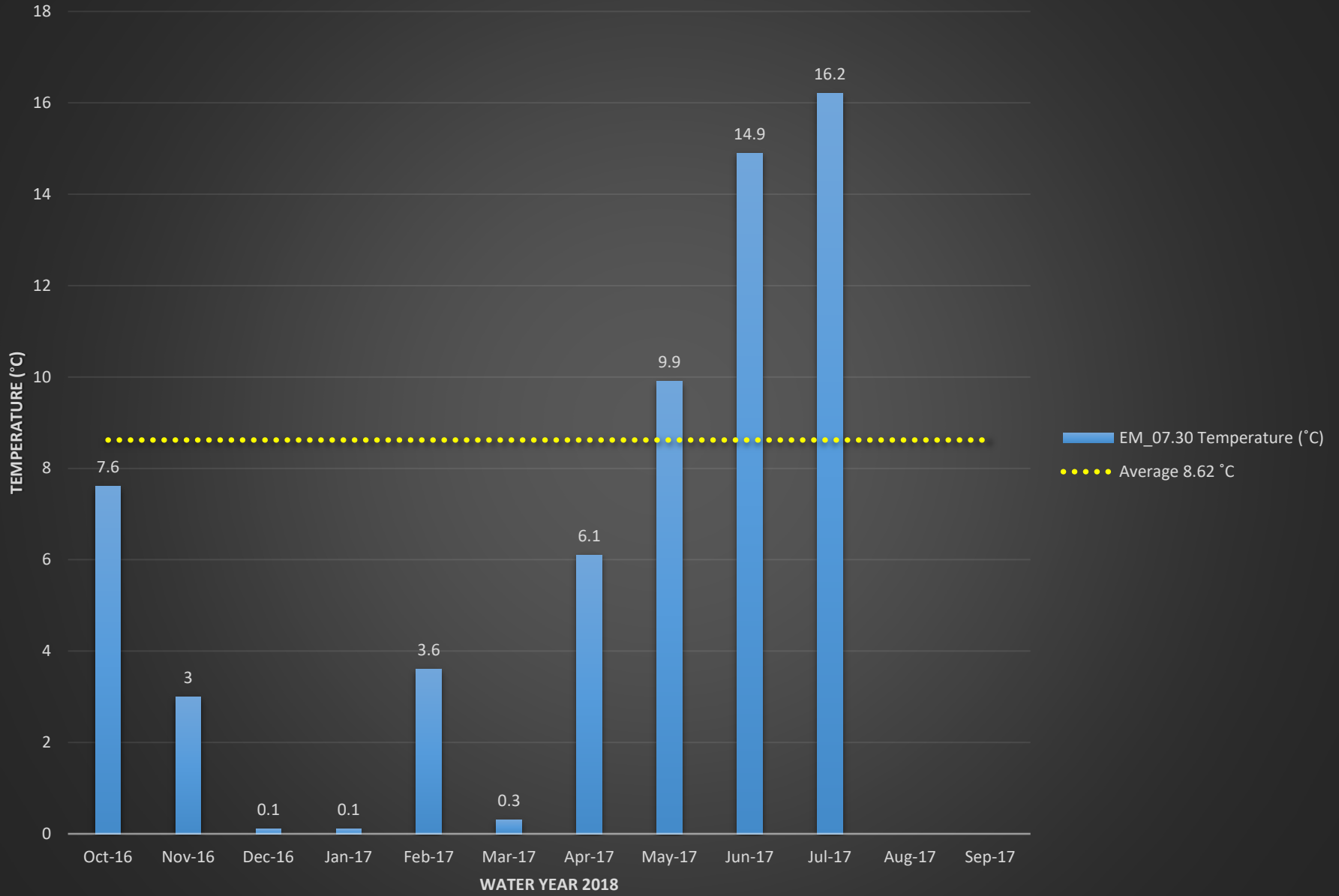
# EM\_05.17 Turbidity (NTU)



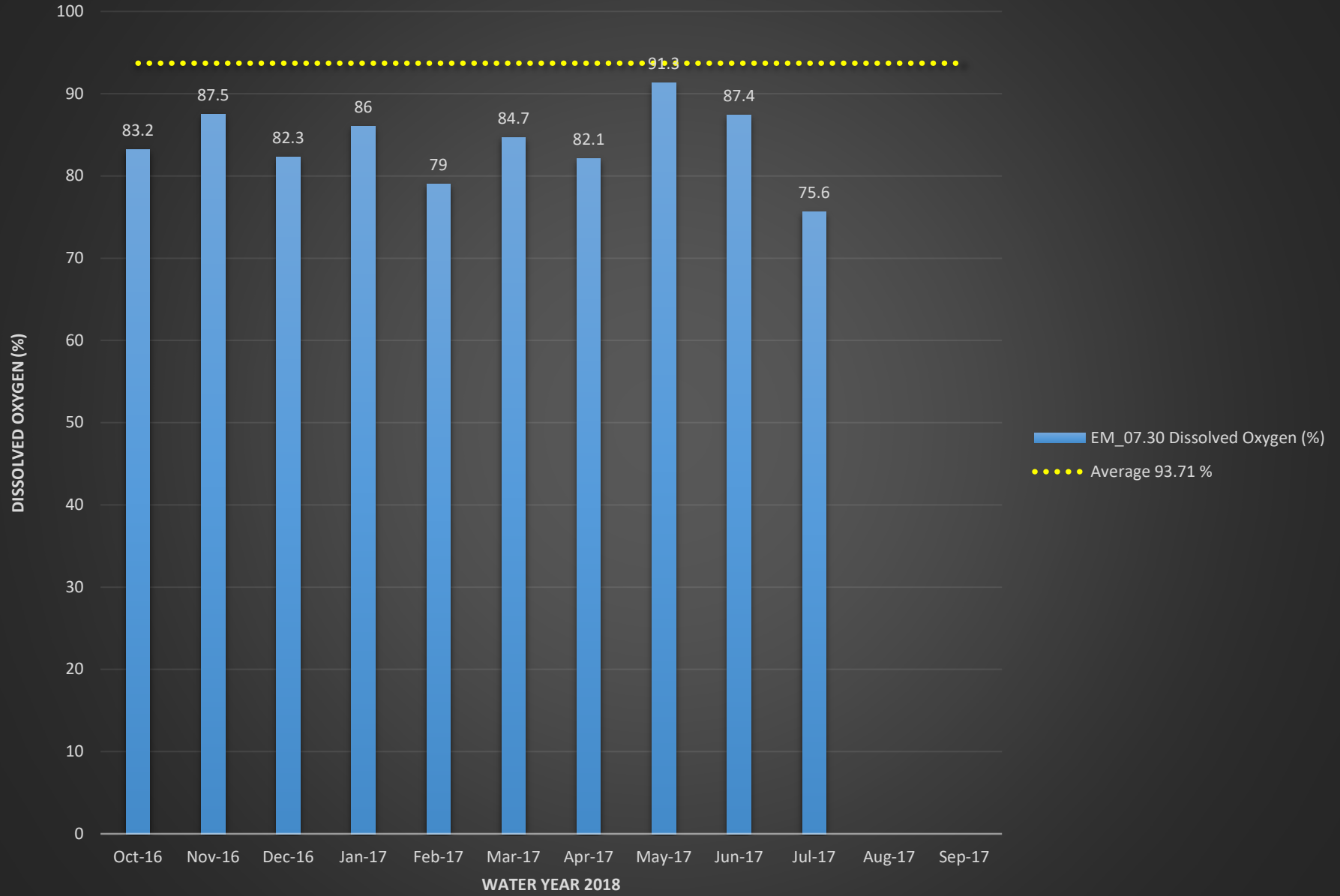
# EM\_07.30 E.coli (MPN)



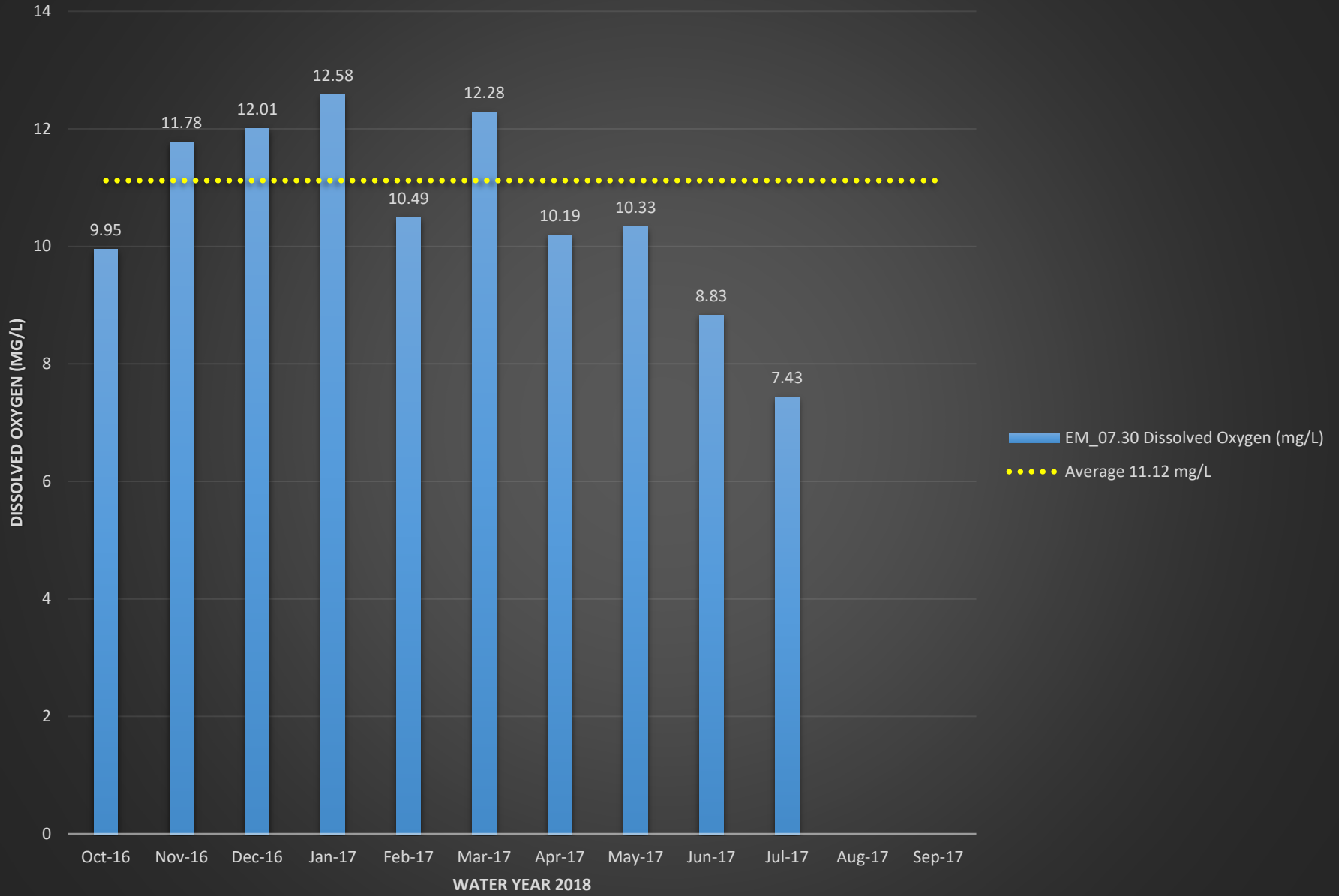
# EM\_07.30 Temperature (°C)



# EM\_07.30 Dissolved Oxygen (%)

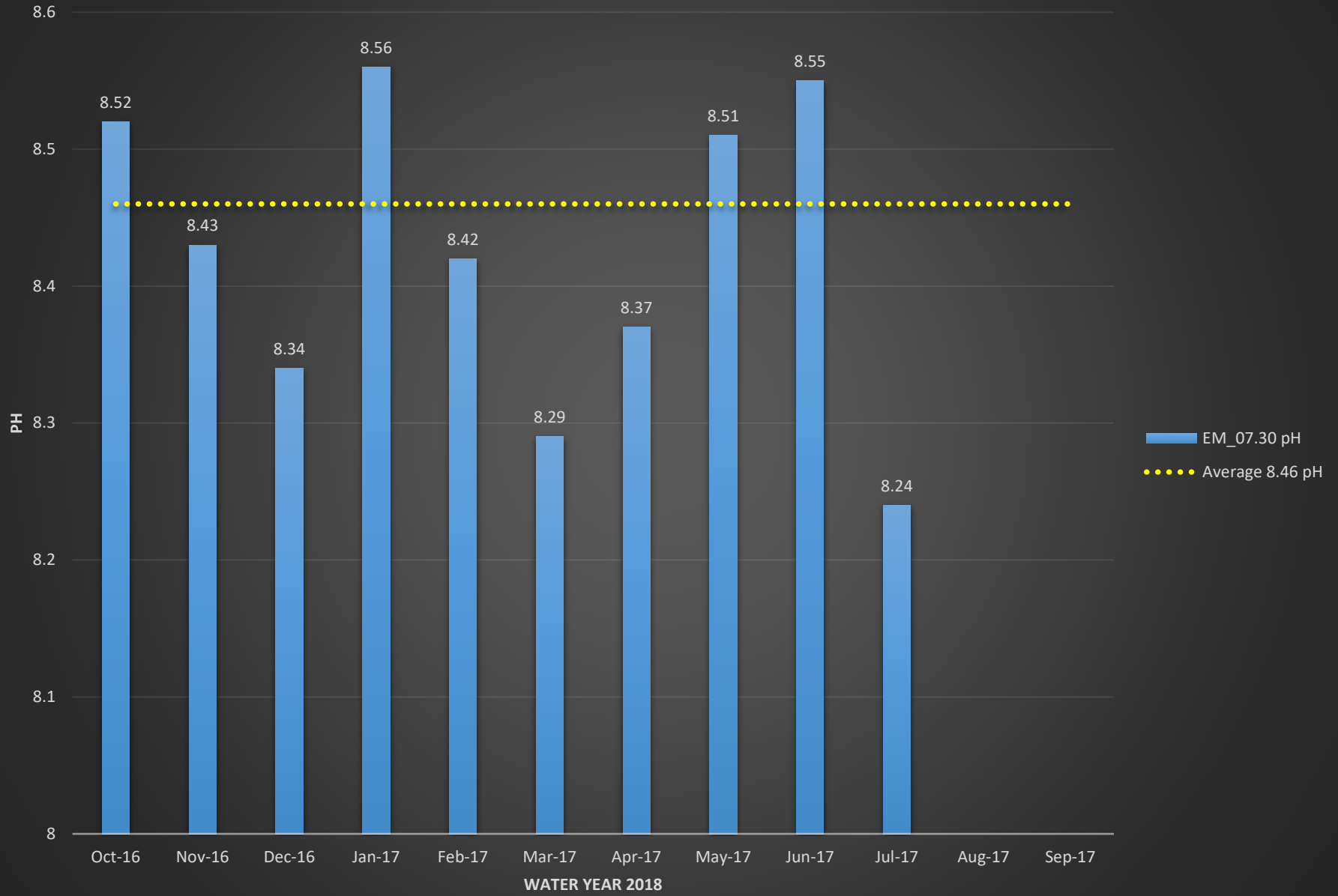


# EM\_07.30 Dissolved Oxygen (mg/L)

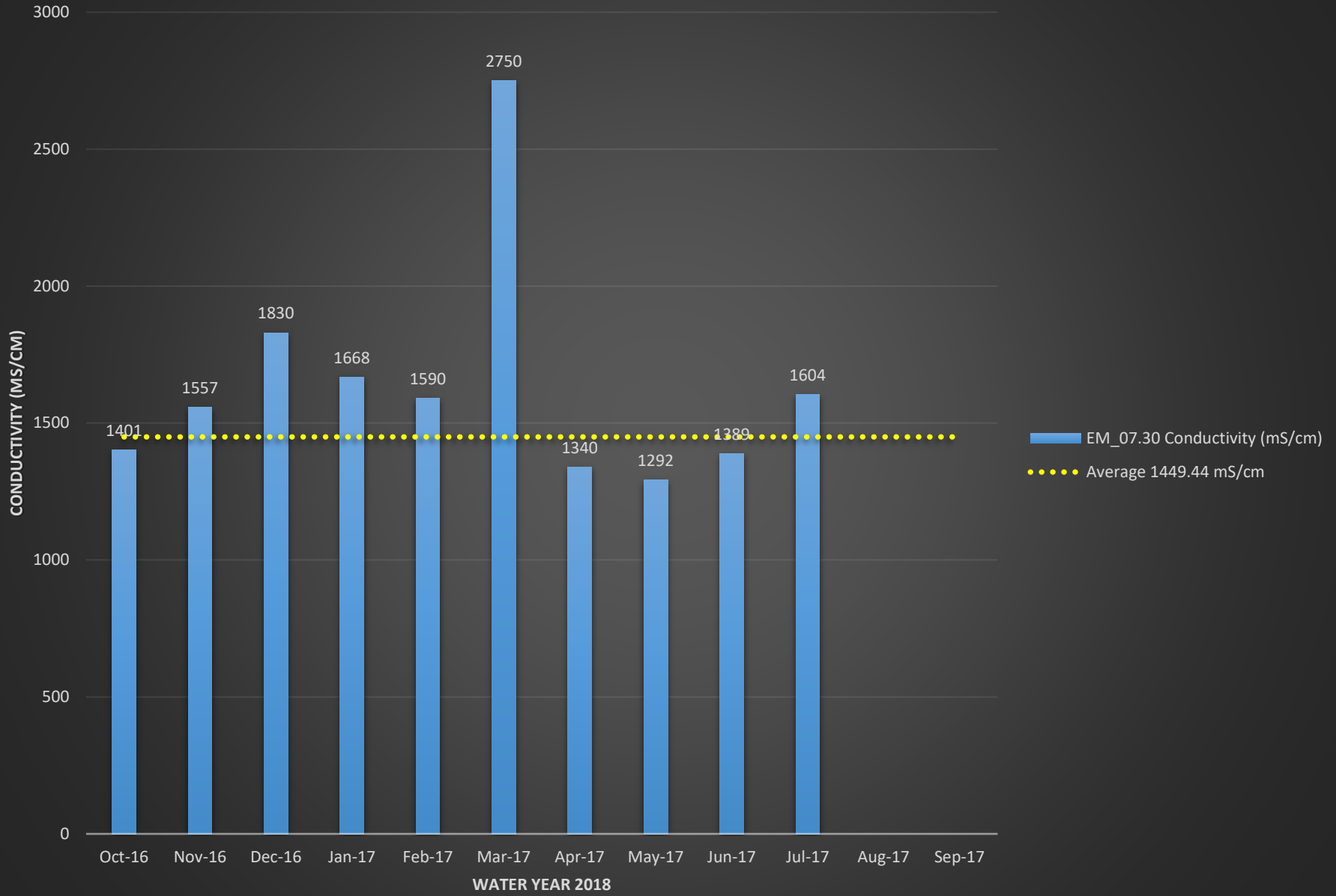




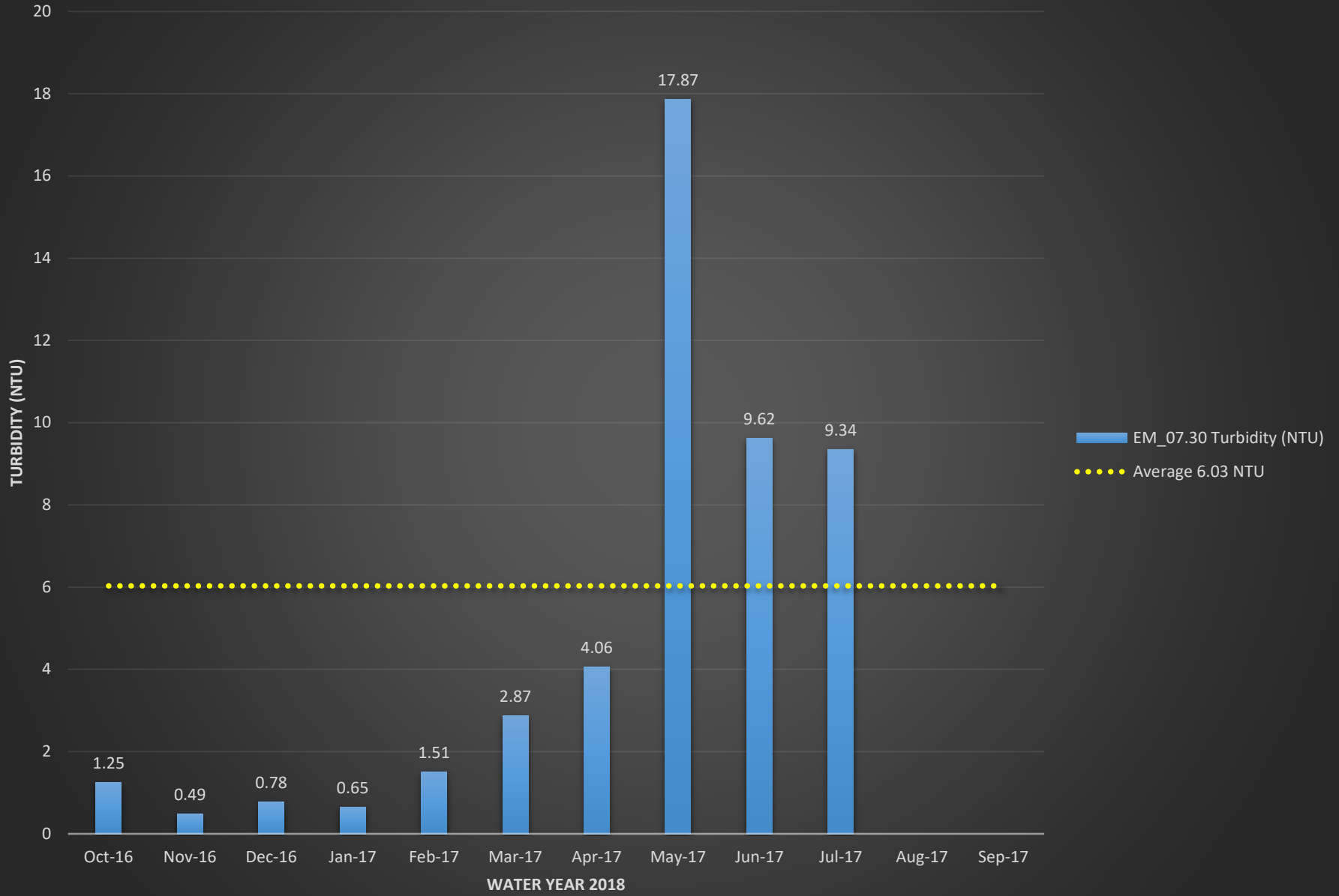
# EM\_07.30 pH



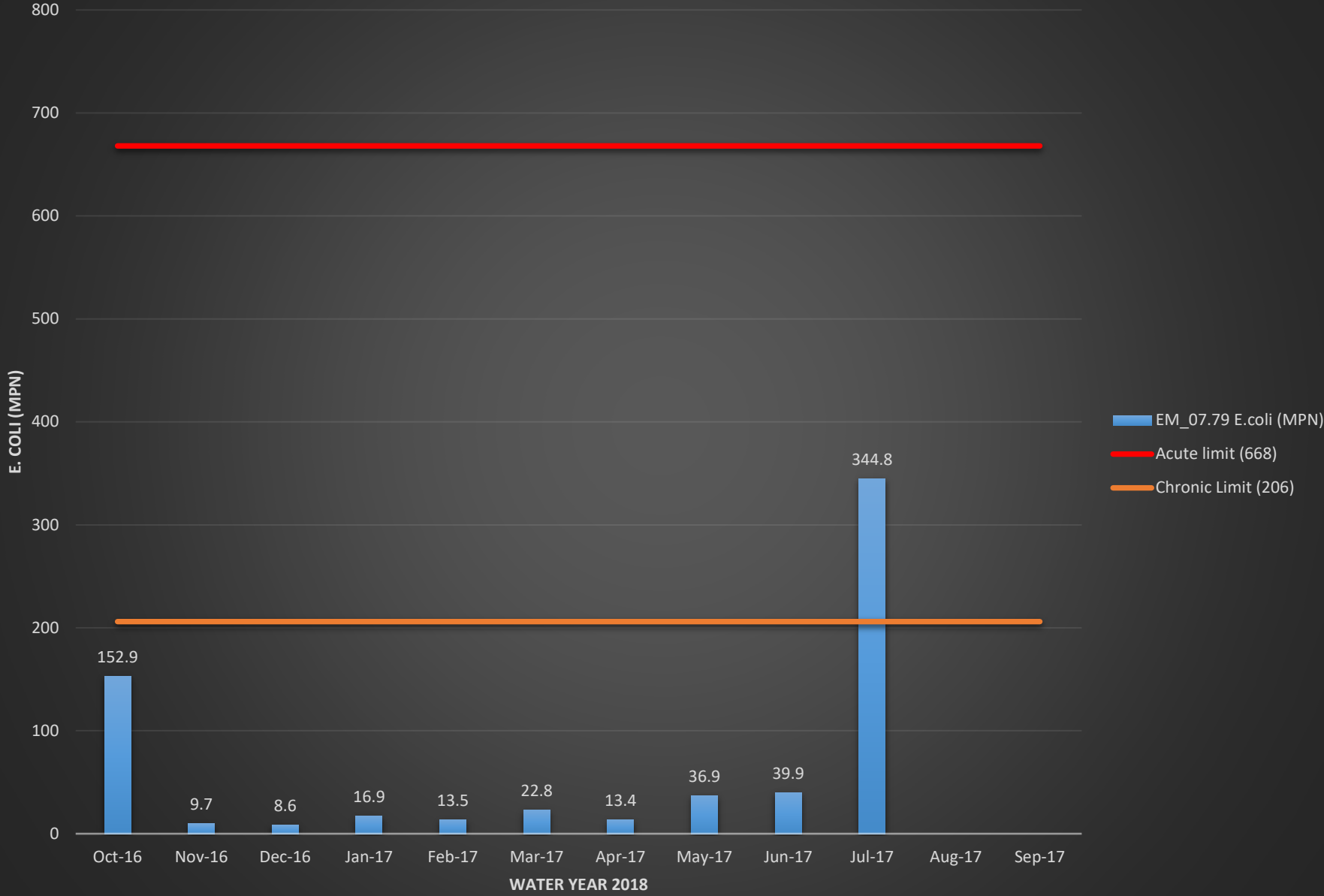
# EM\_07.30 Conductivity (mS/cm)



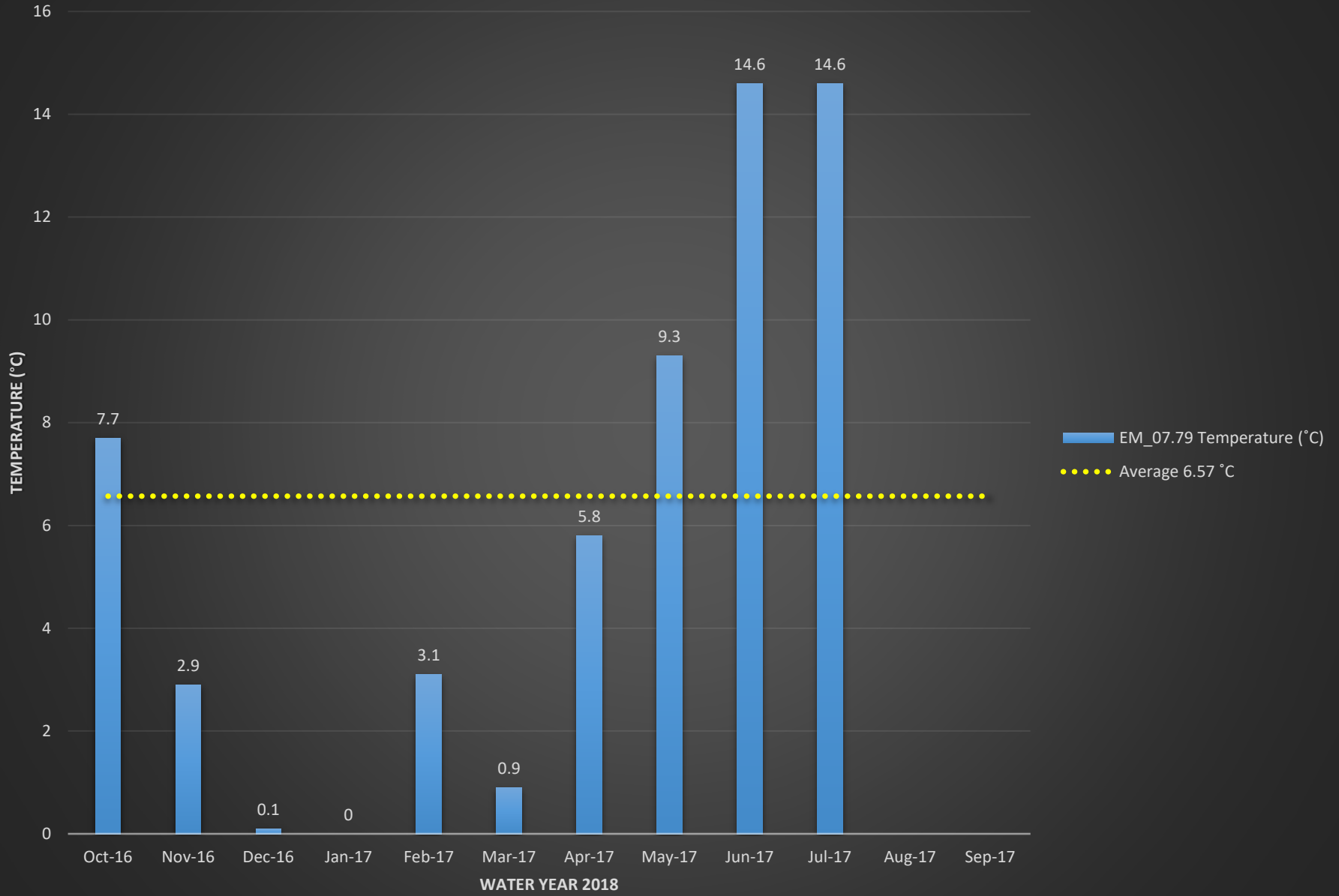
# EM\_07.30 Turbidity (NTU)



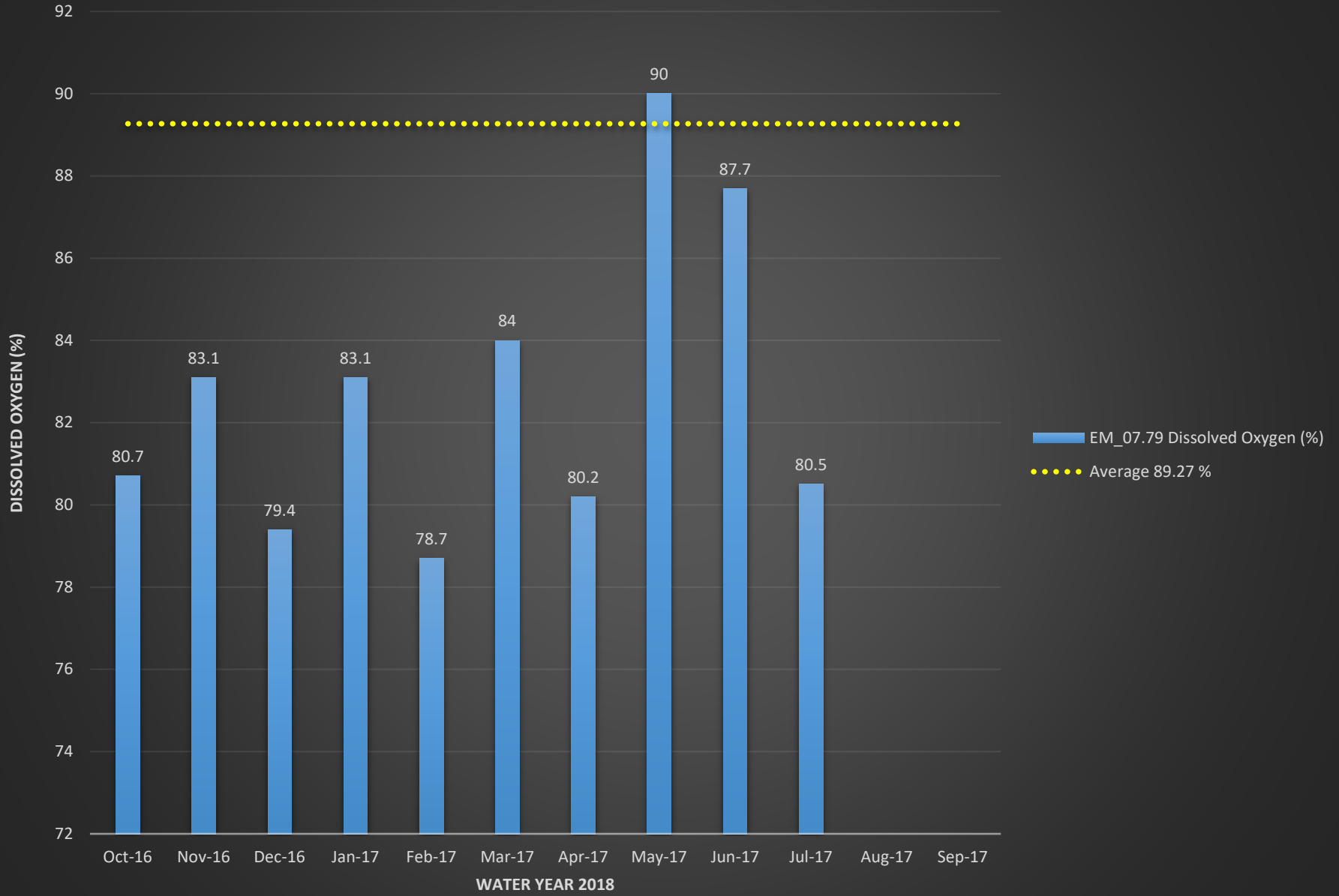
# EM\_07.79 E.coli (MPN)



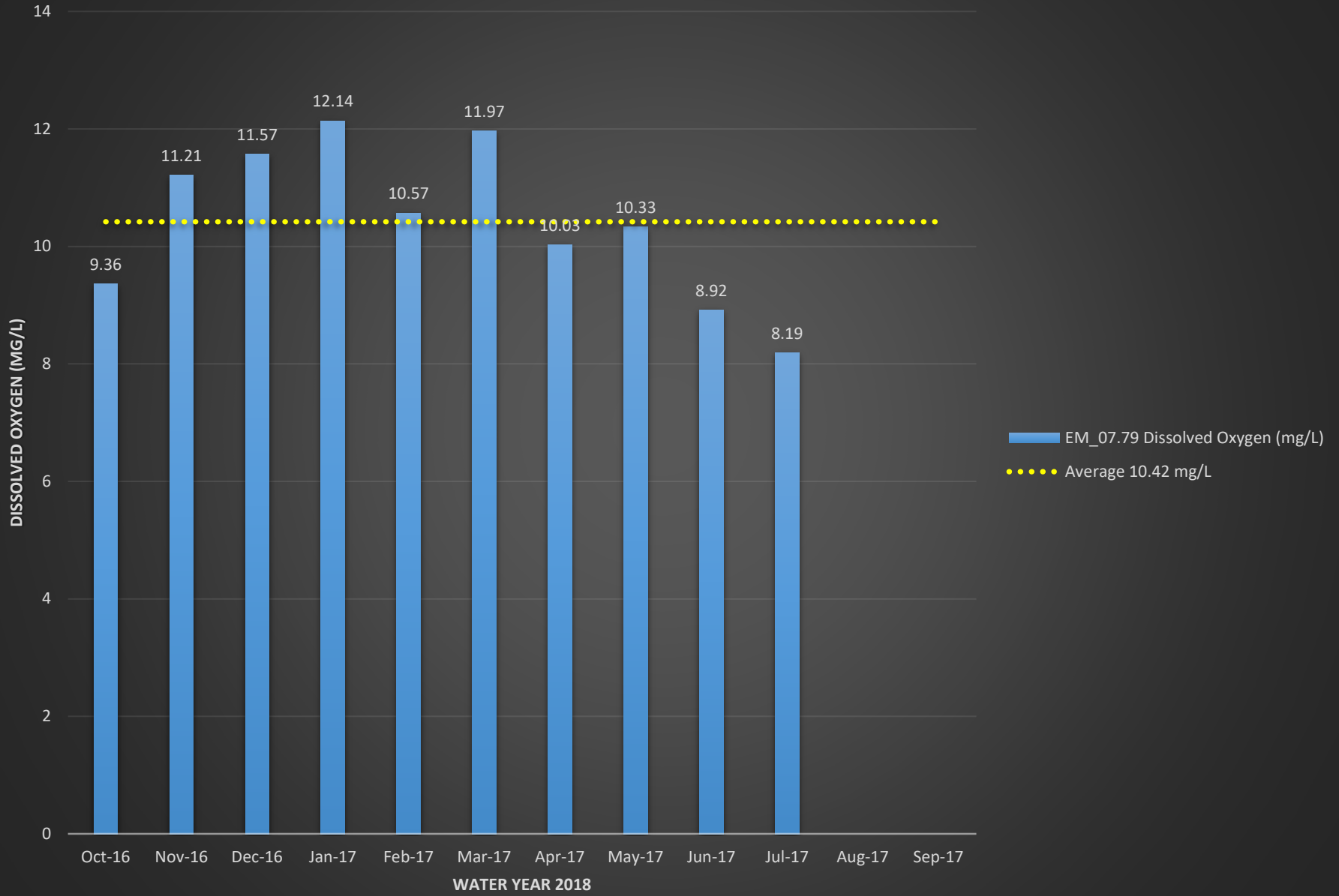
# EM\_07.79 Temperature (°C)



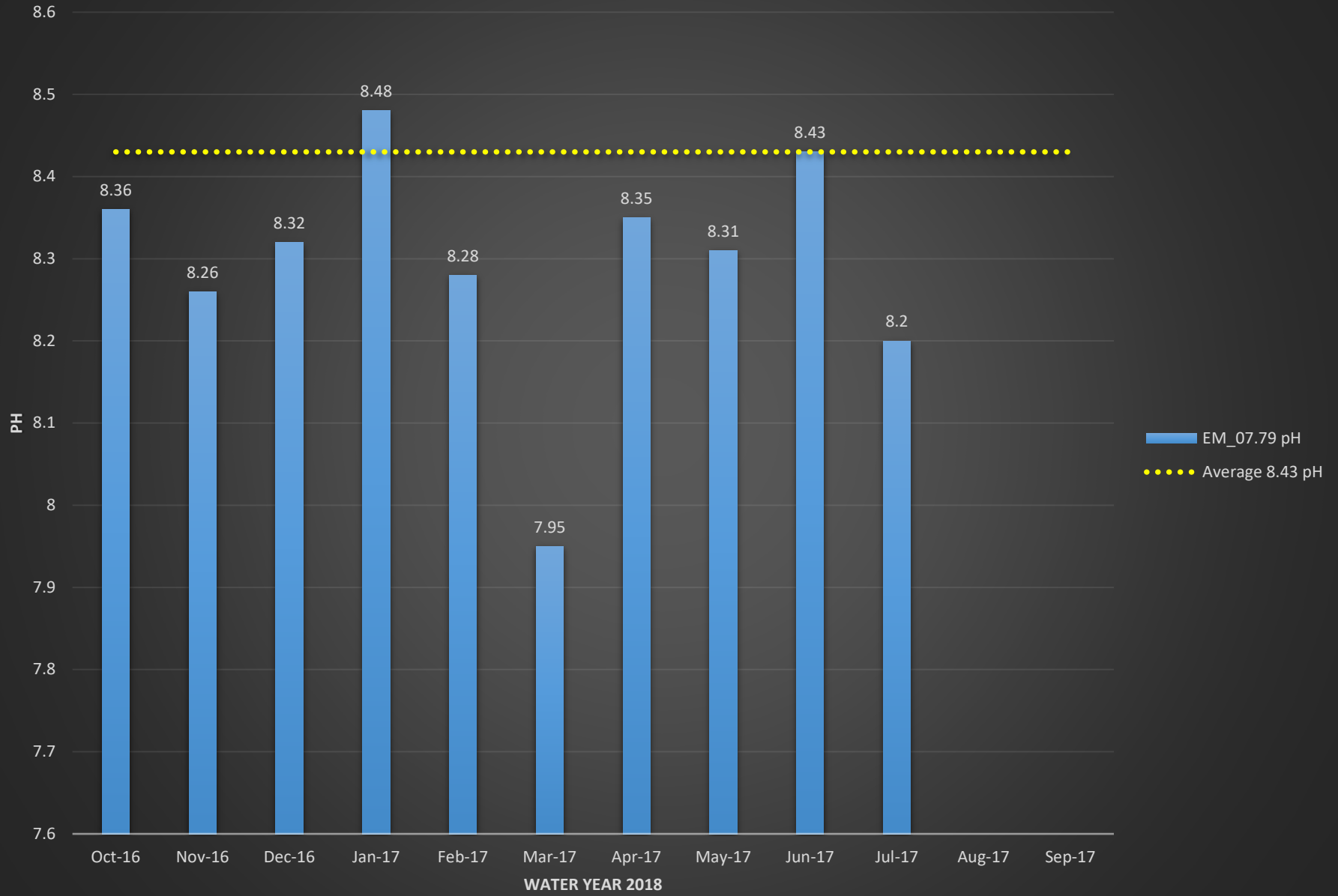
# EM\_07.79 Dissolved Oxygen (%)



# EM\_07.79 Dissolved Oxygen (mg/L)

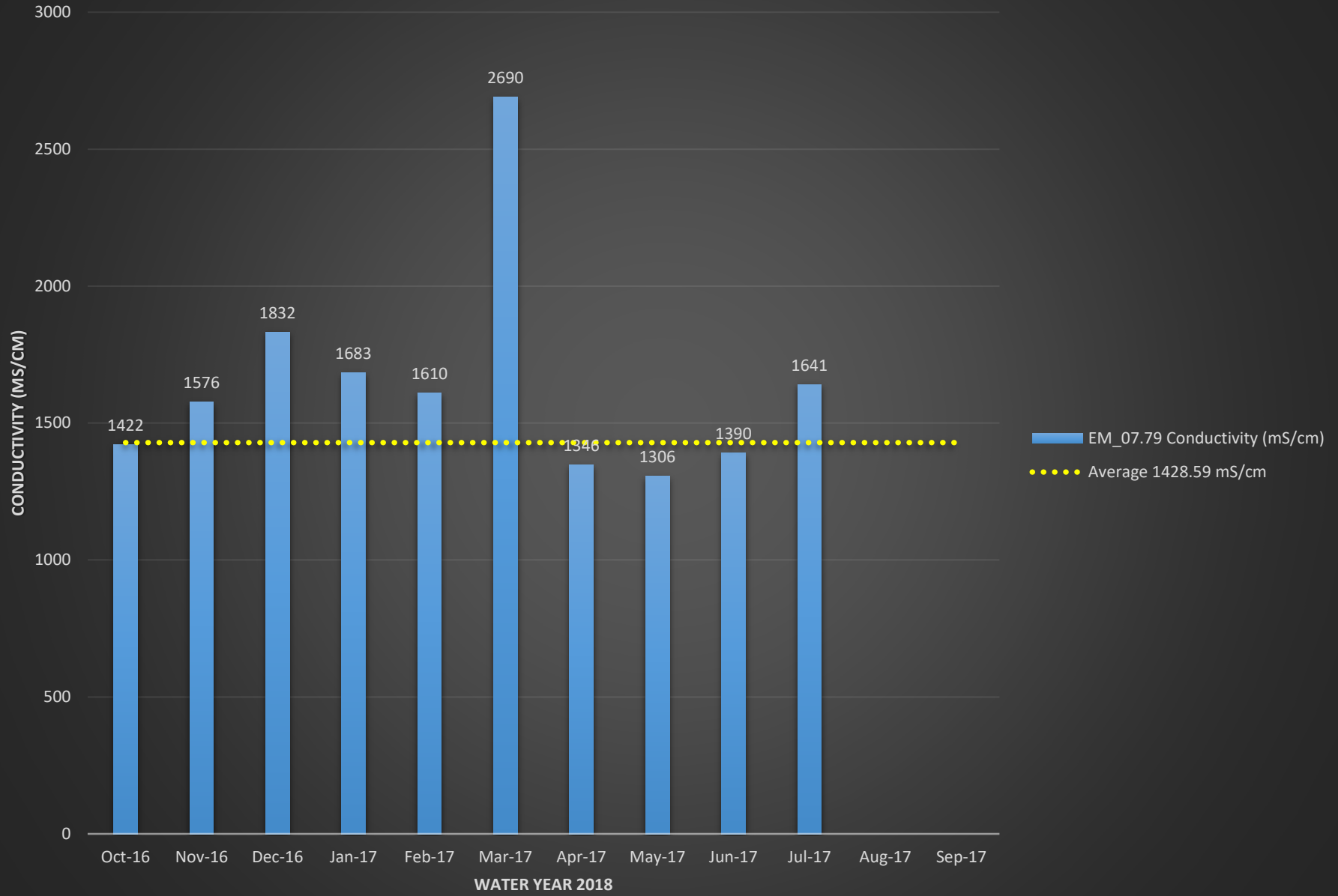


# EM\_07.79 pH

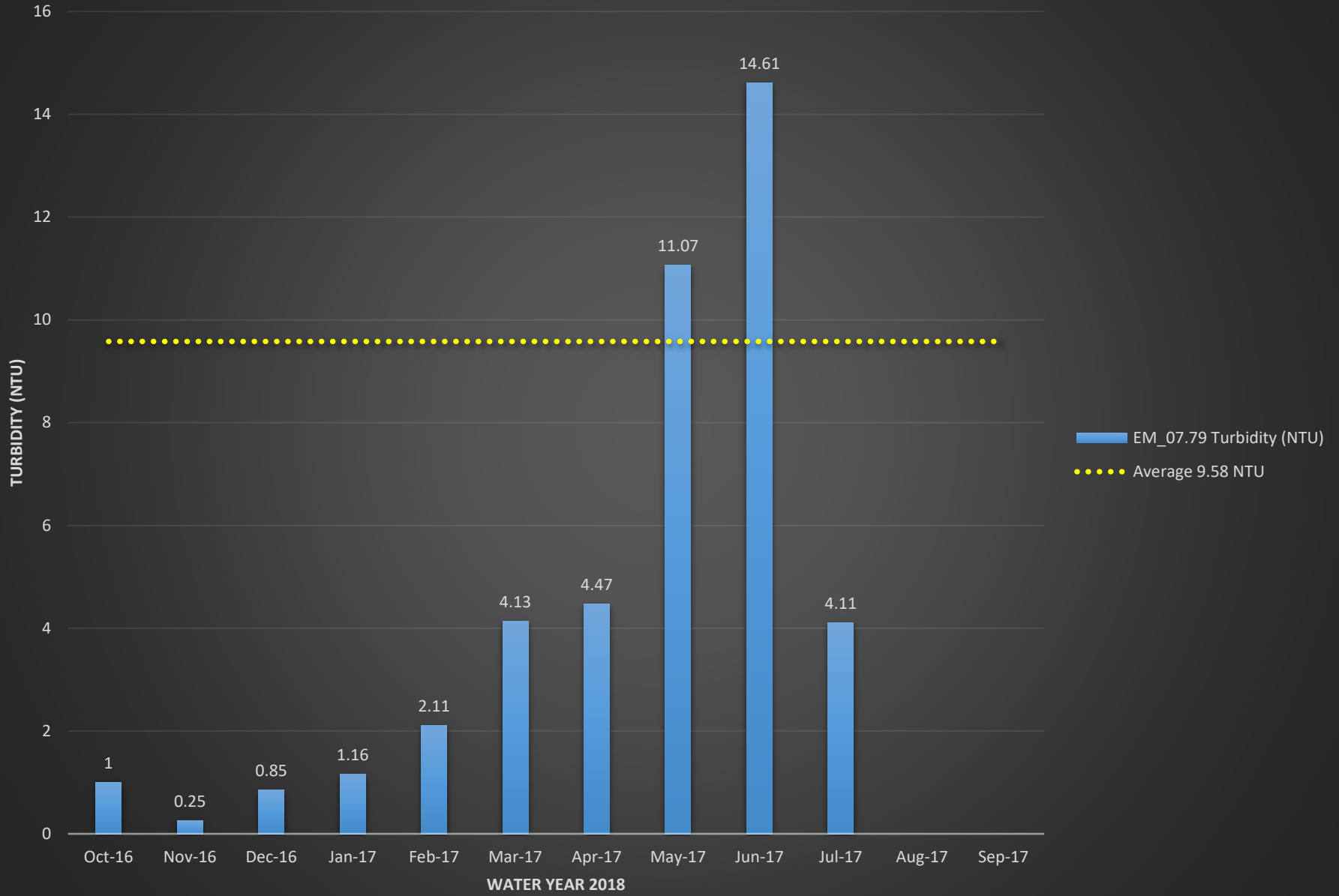




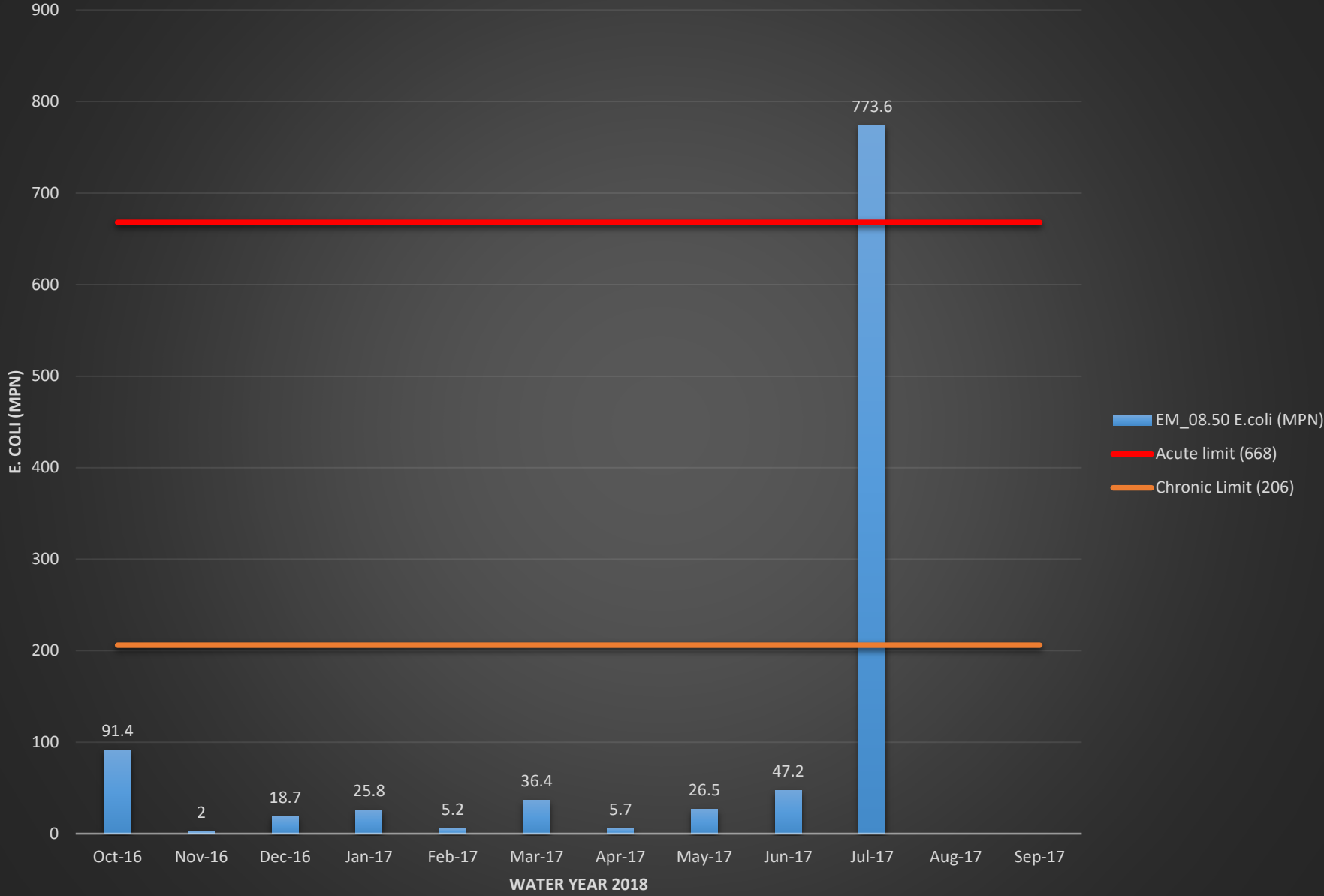
# EM\_07.79 Conductivity (mS/cm)



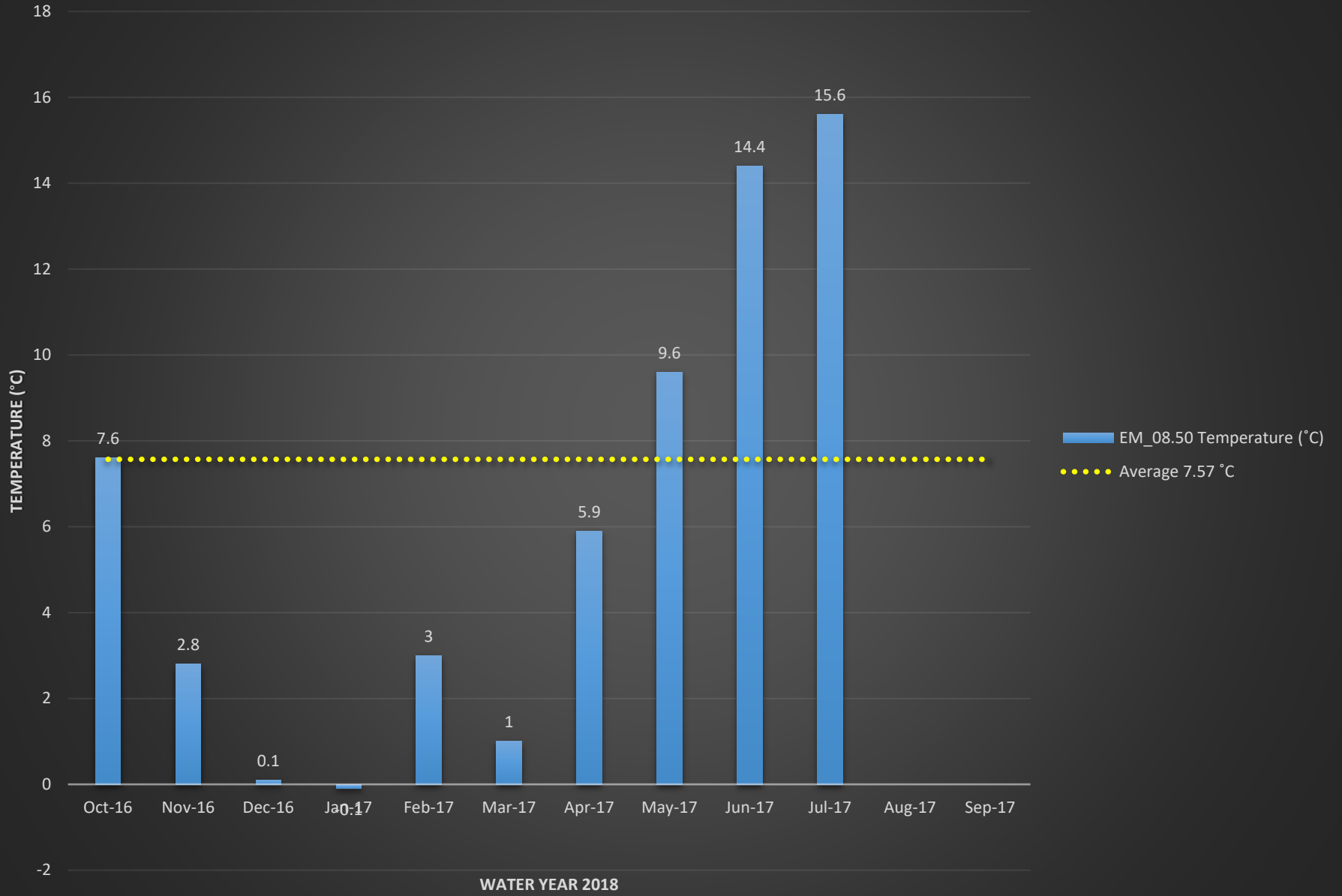
# EM\_07.79 Turbidity (NTU)



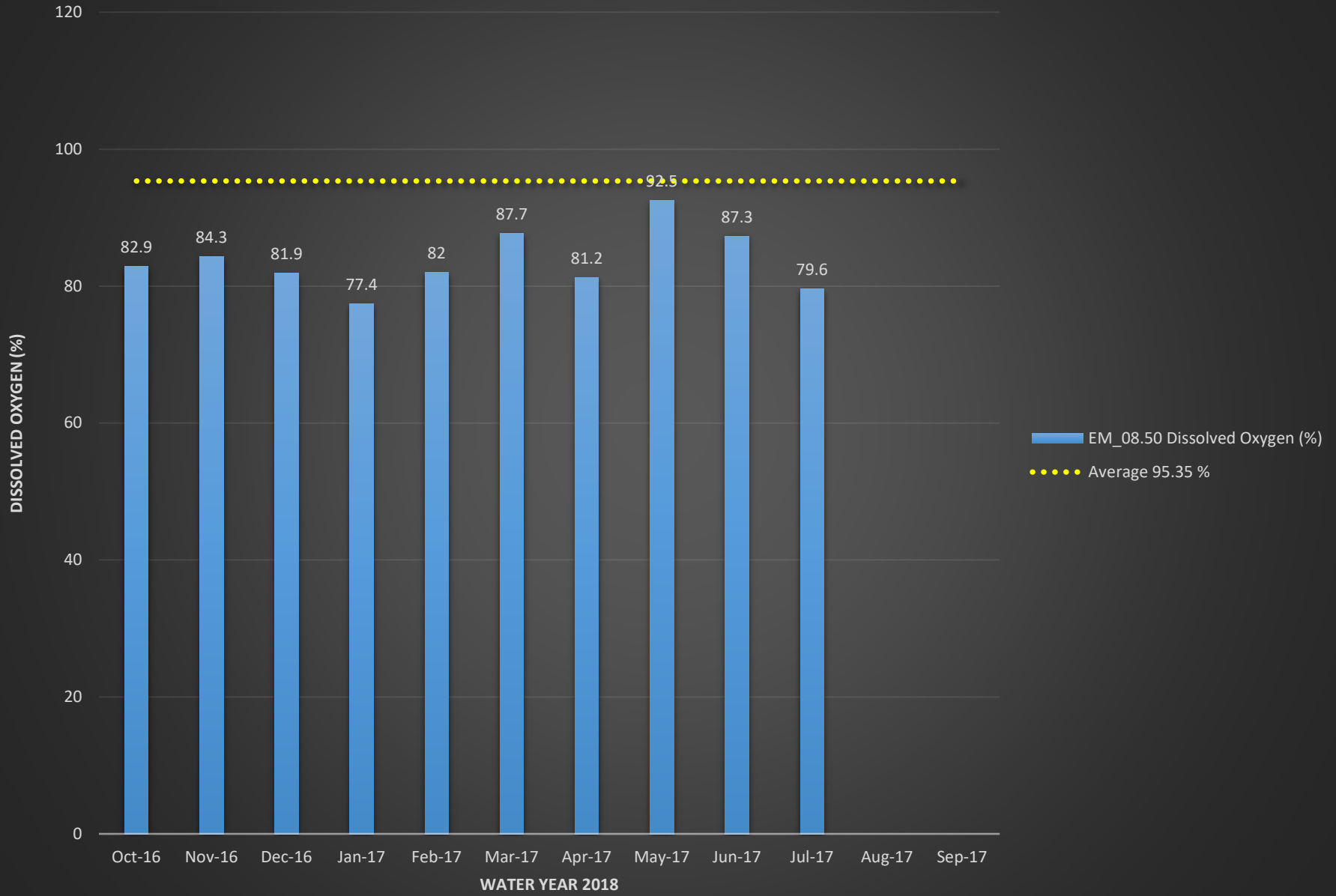
# EM\_08.50 E.coli (MPN)



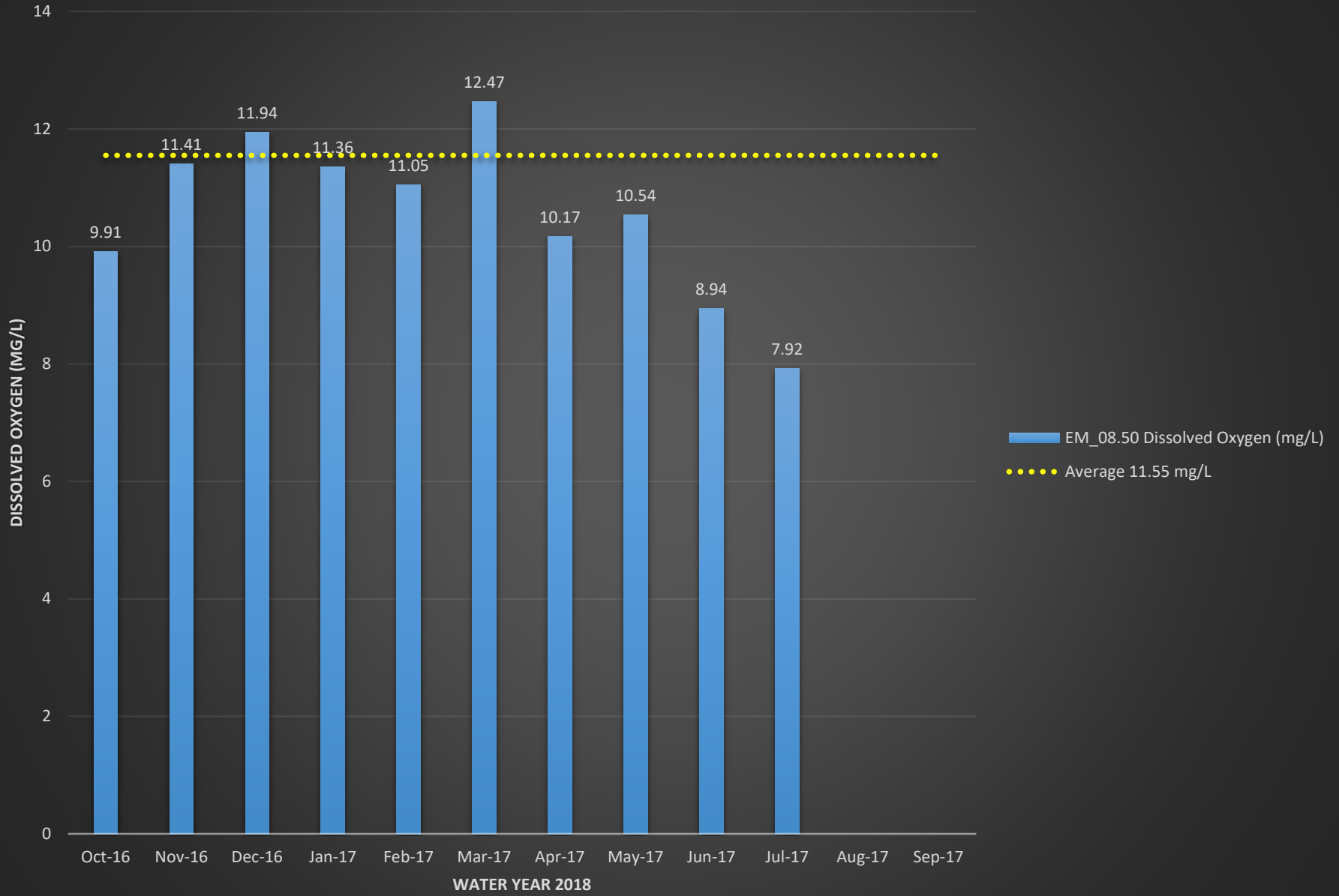
# EM\_08.50 Temperature (°C)



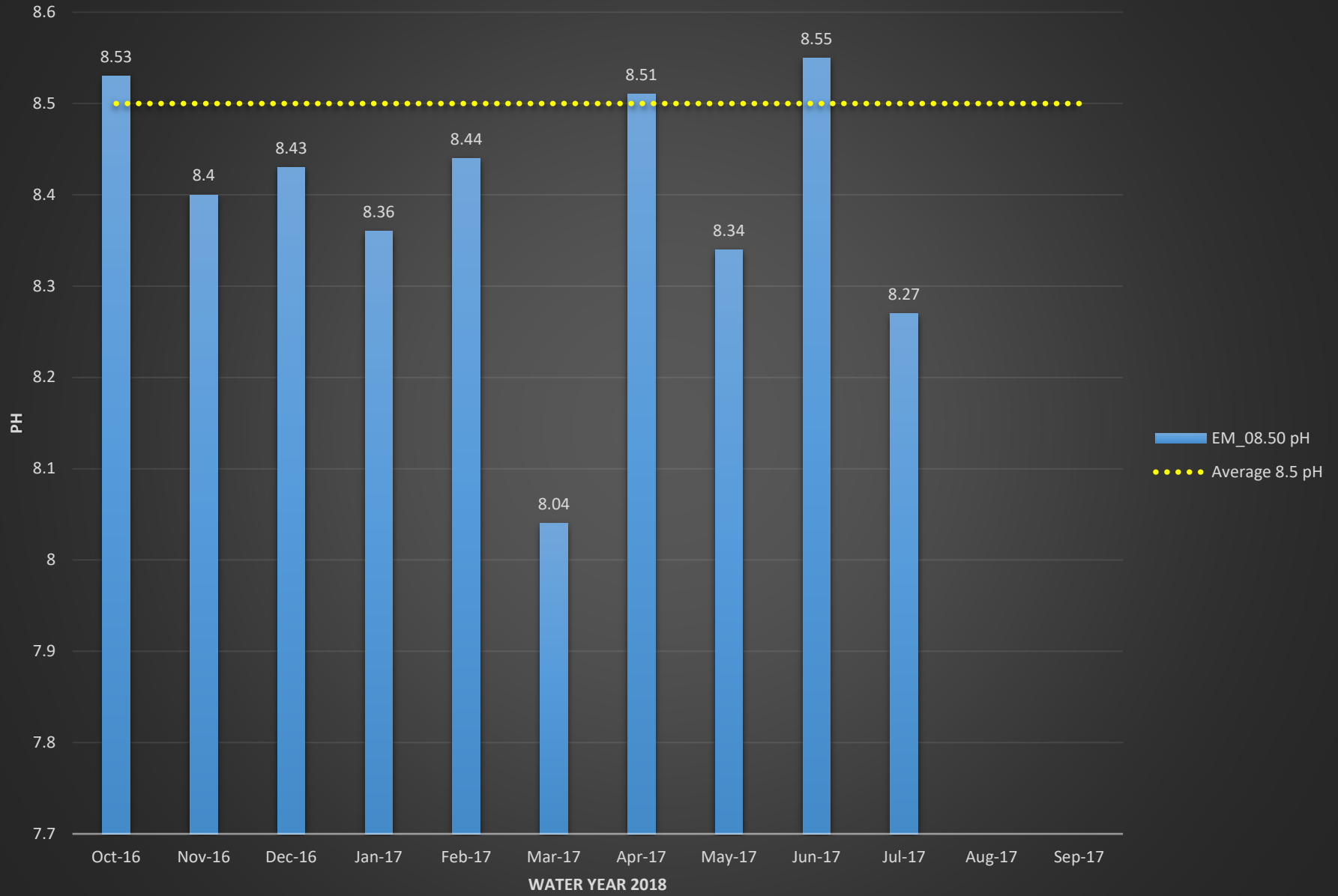
# EM\_08.50 Dissolved Oxygen (%)



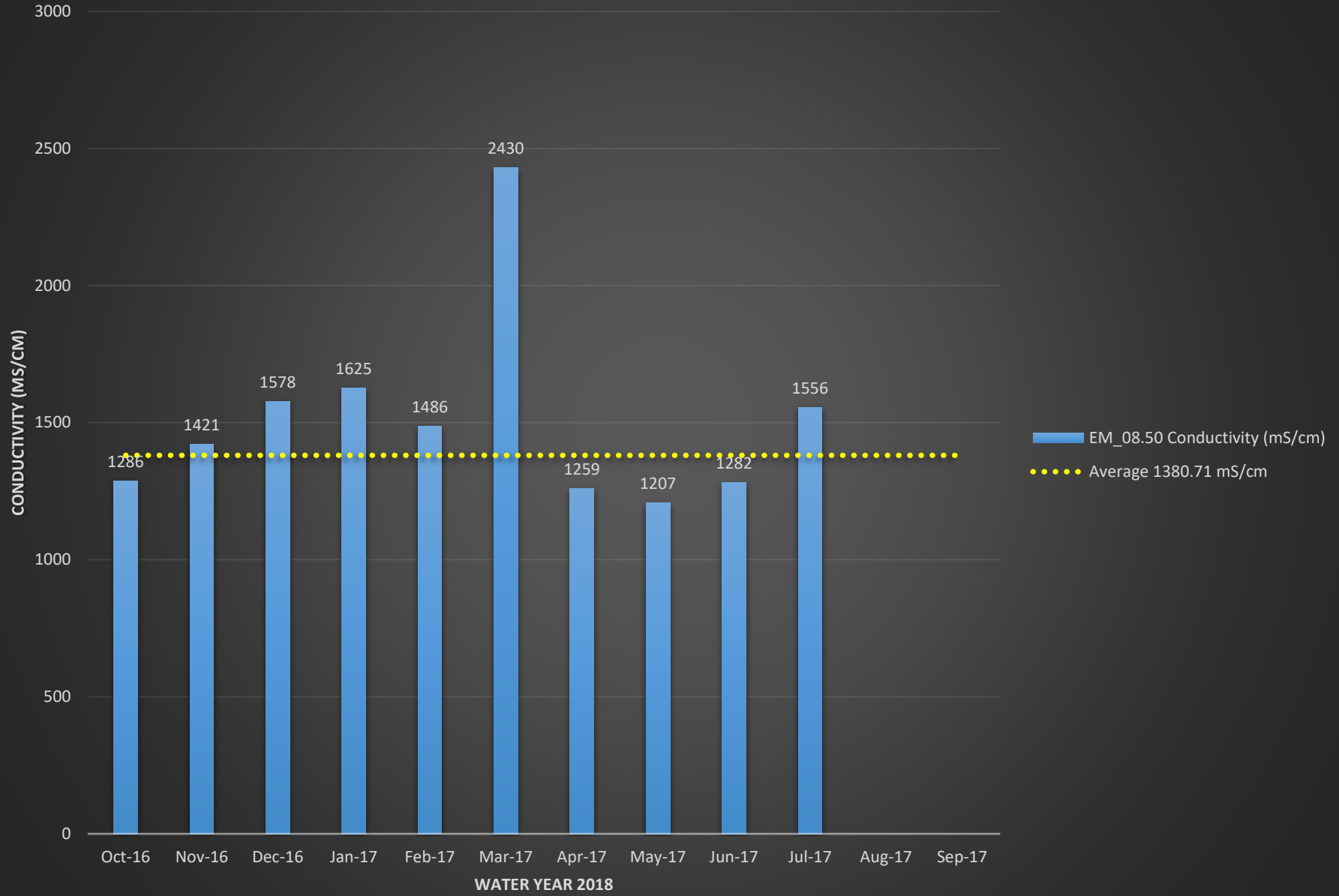
# EM\_08.50 Dissolved Oxygen (mg/L)



# EM\_08.50 pH

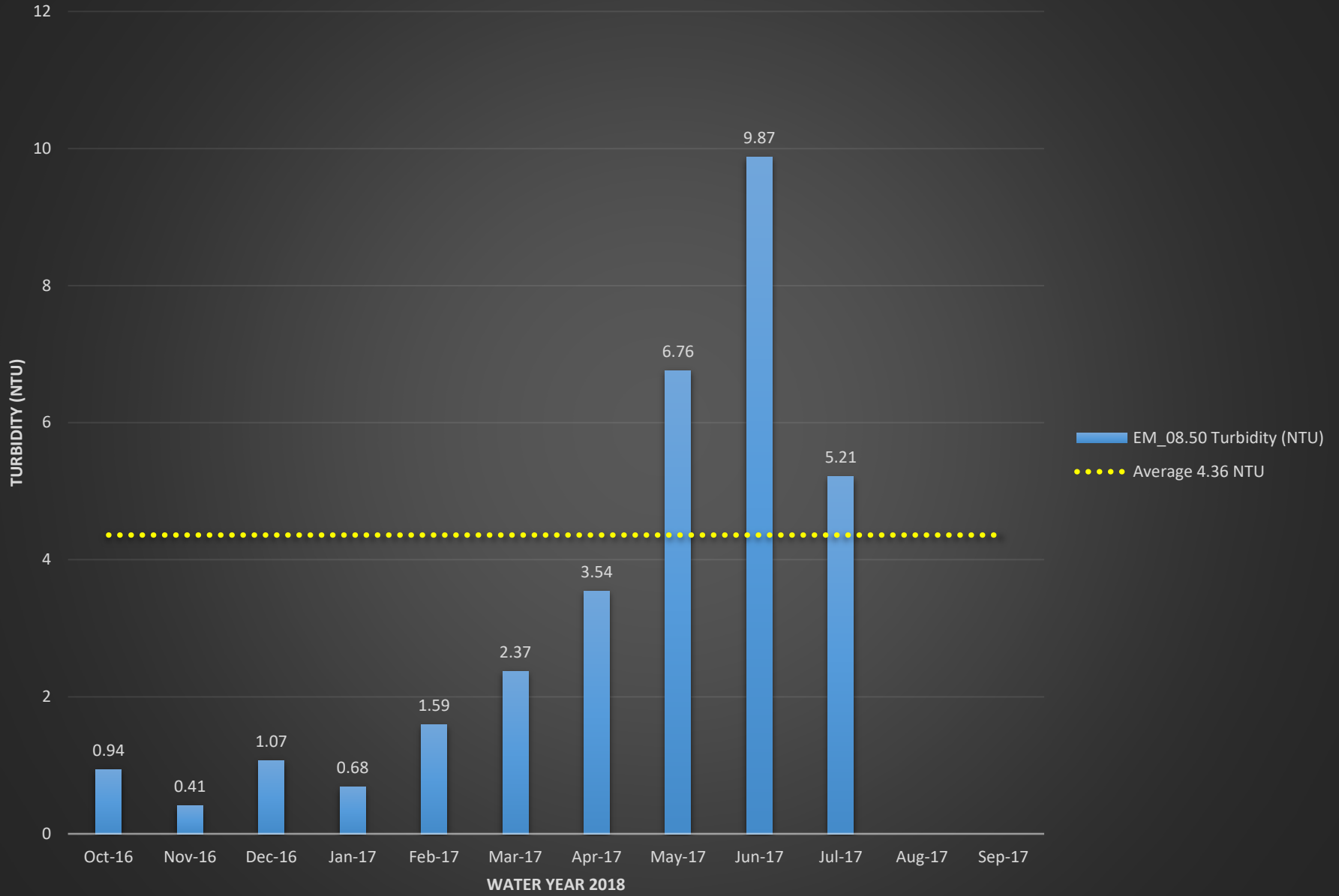


# EM\_08.50 Conductivity (mS/cm)

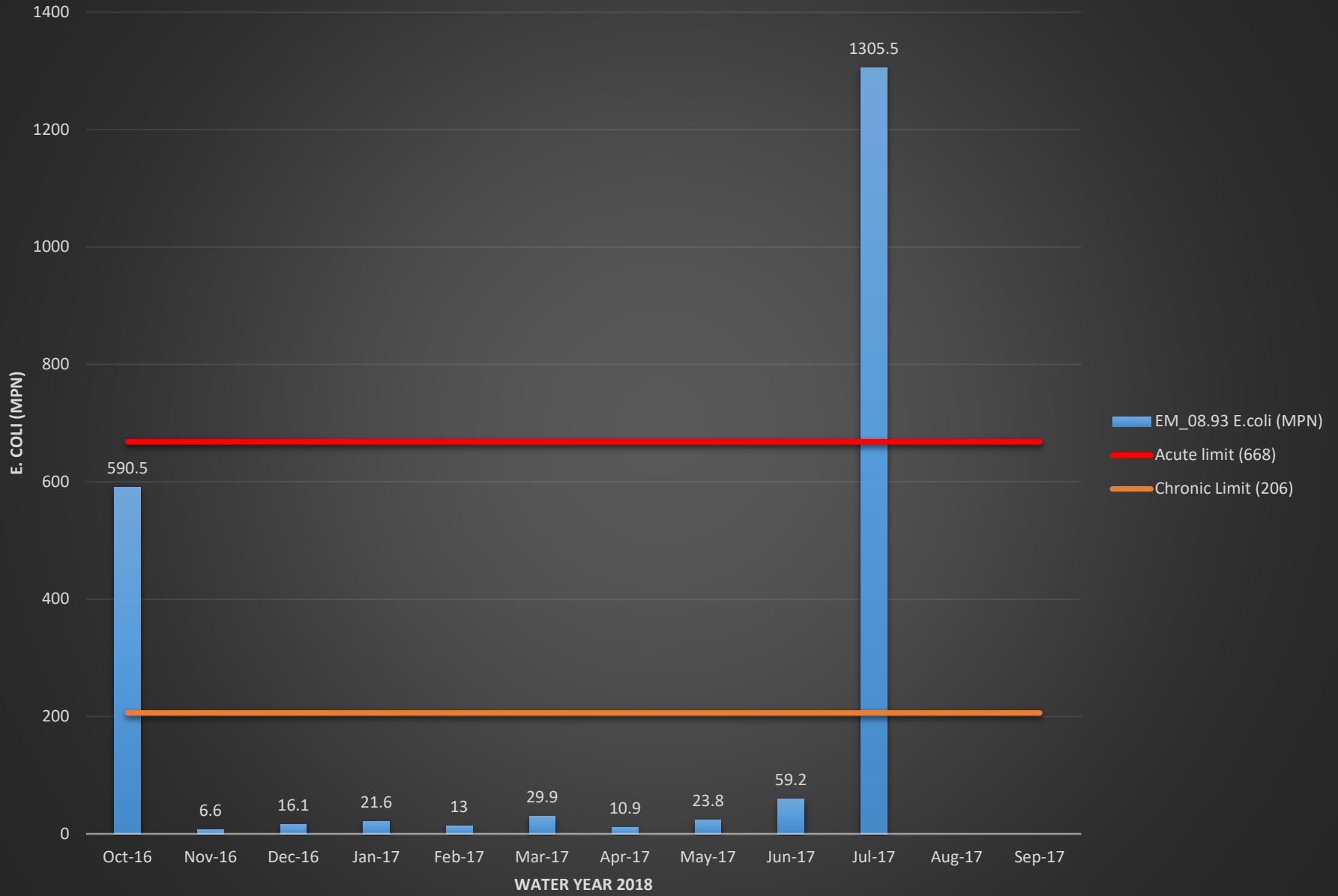




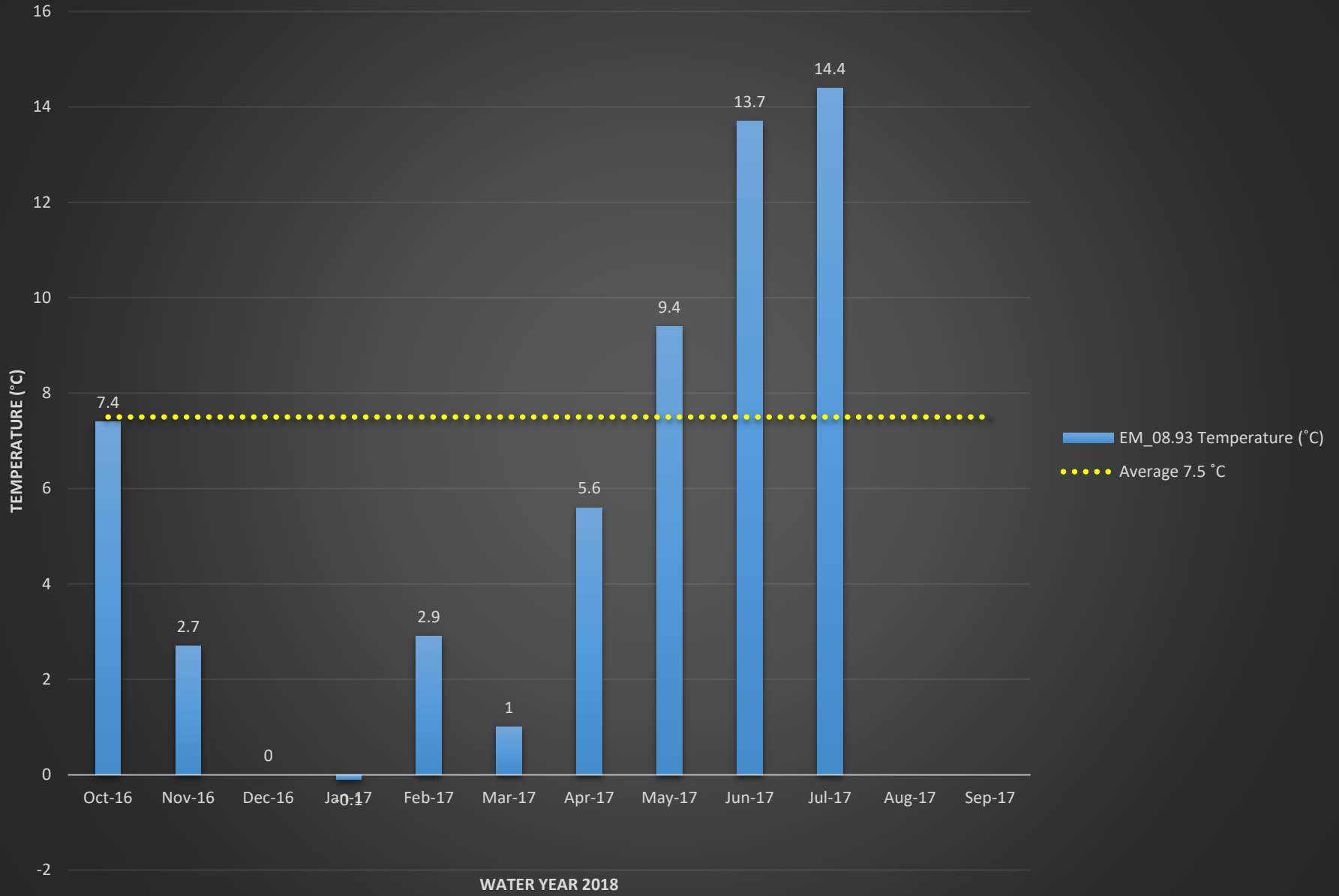
# EM\_08.50 Turbidity (NTU)



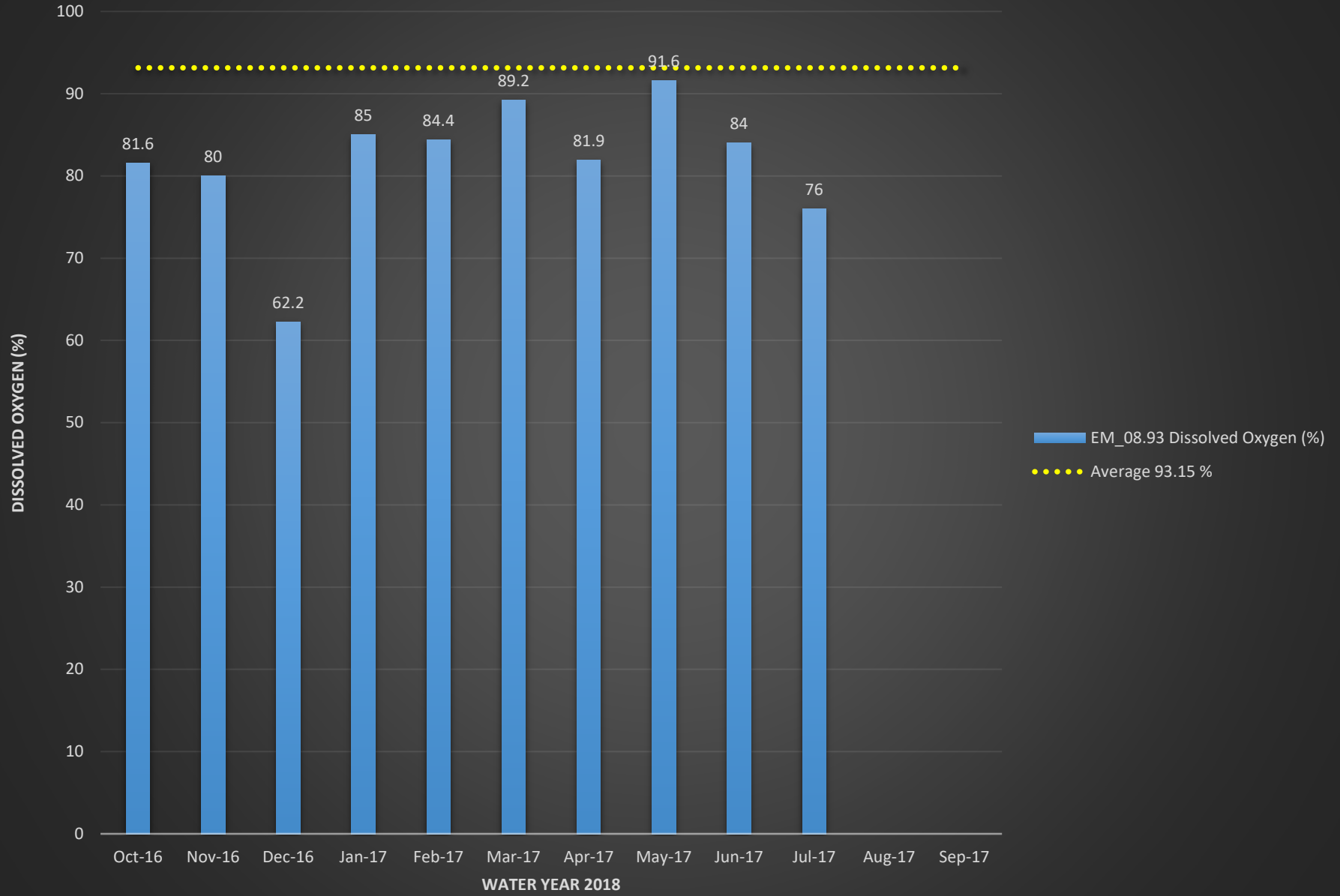
# EM\_08.93 E.coli (MPN)



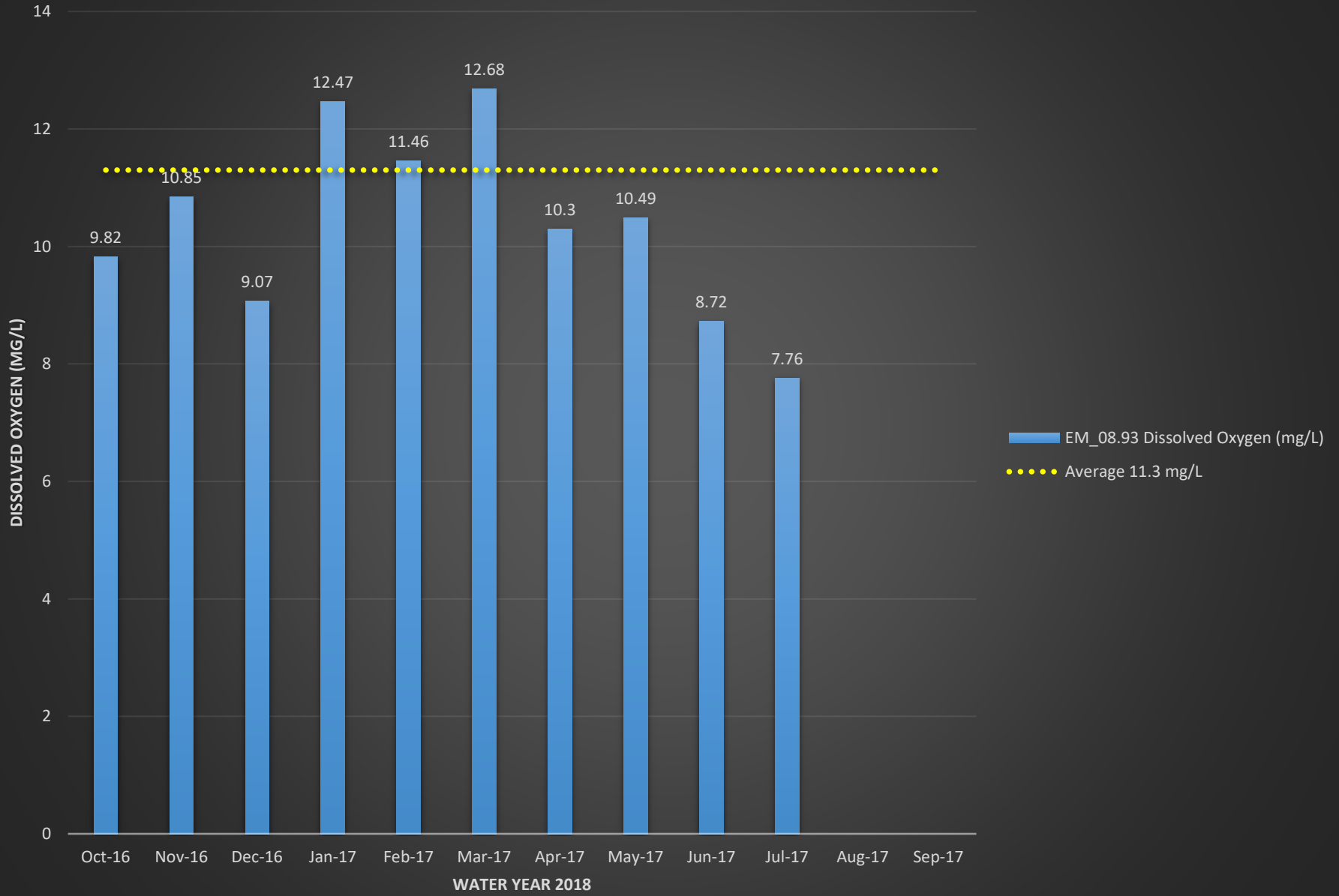
# EM\_08.93 Temperature (°C)



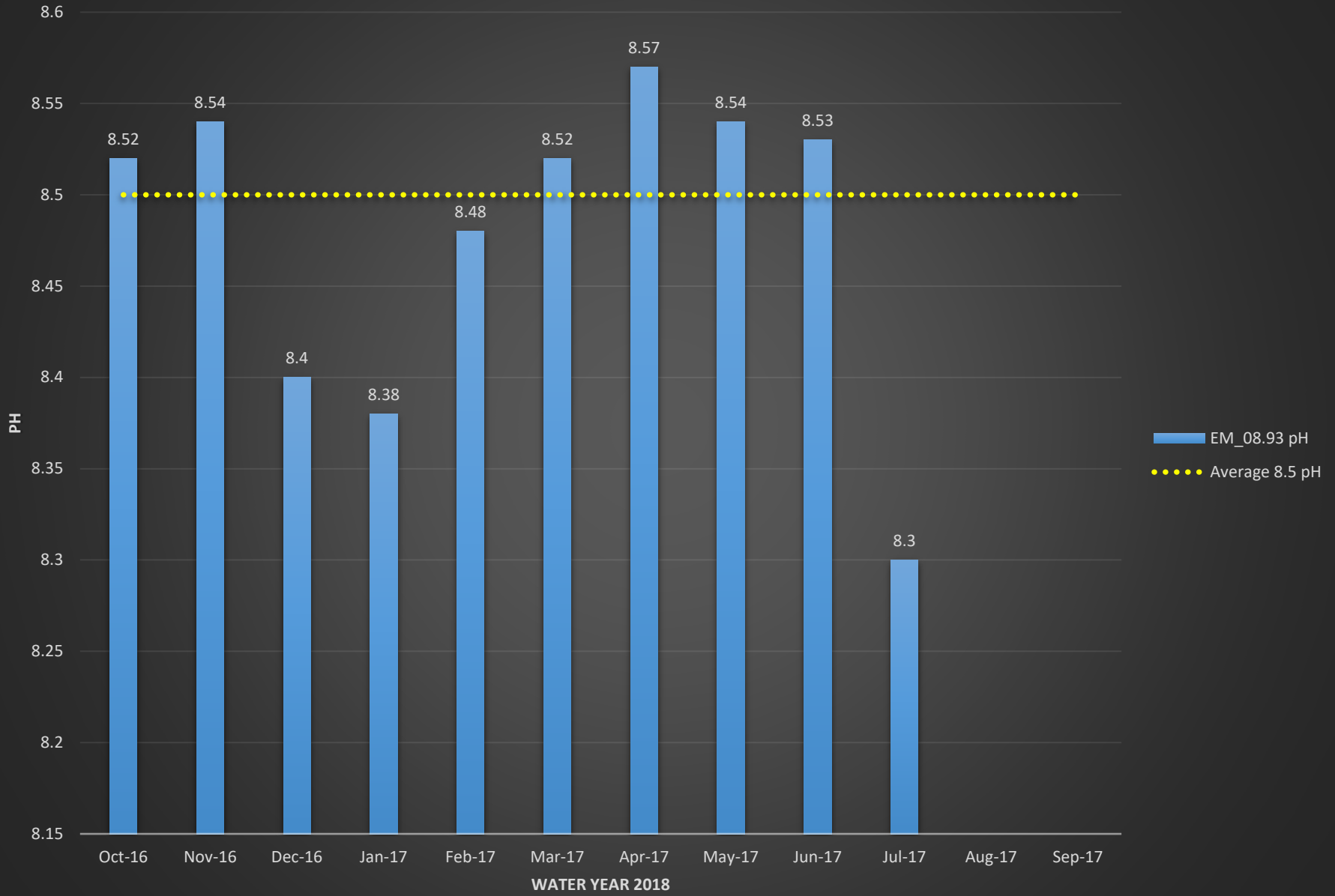
# EM\_08.93 Dissolved Oxygen (%)



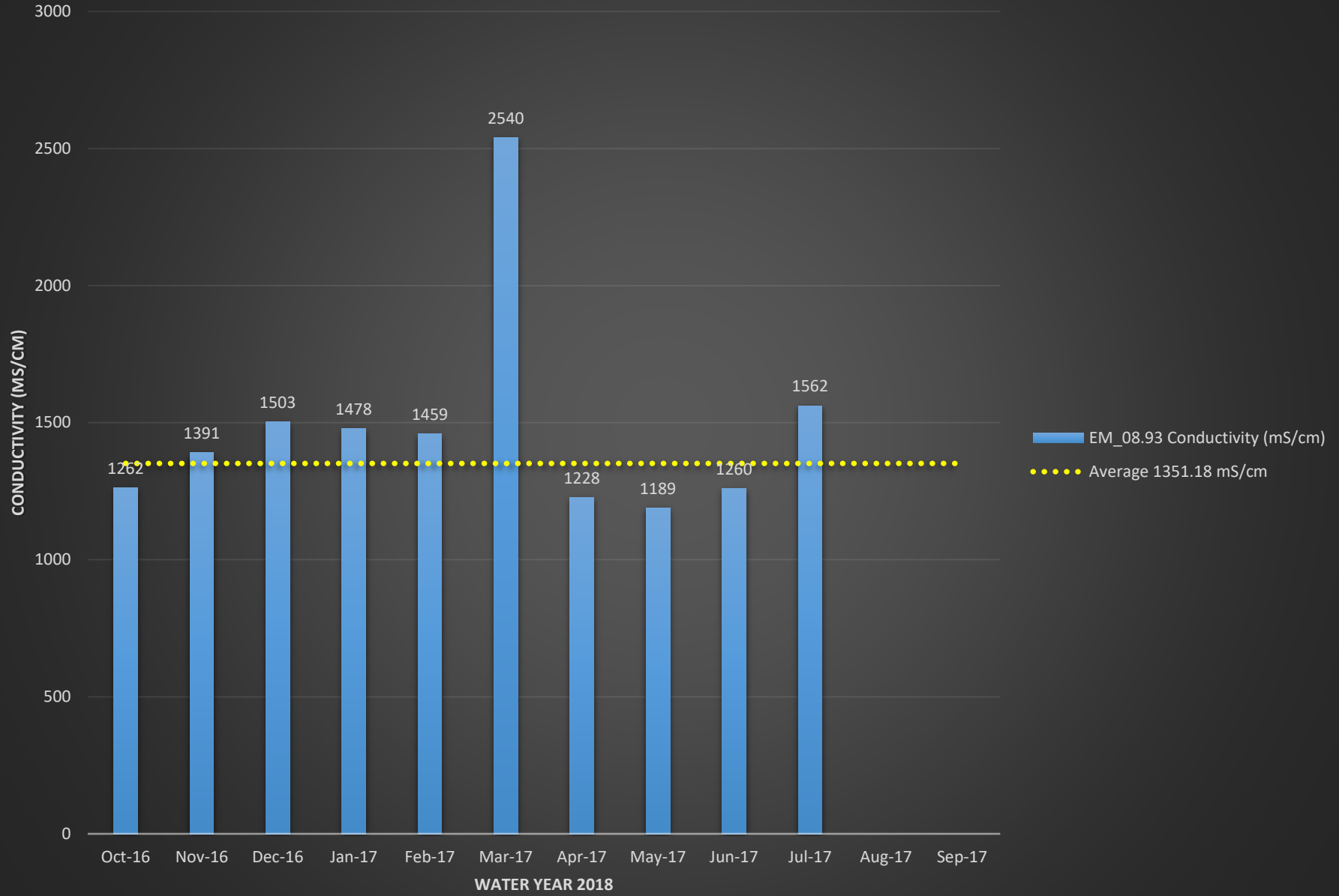
# EM\_08.93 Dissolved Oxygen (mg/L)



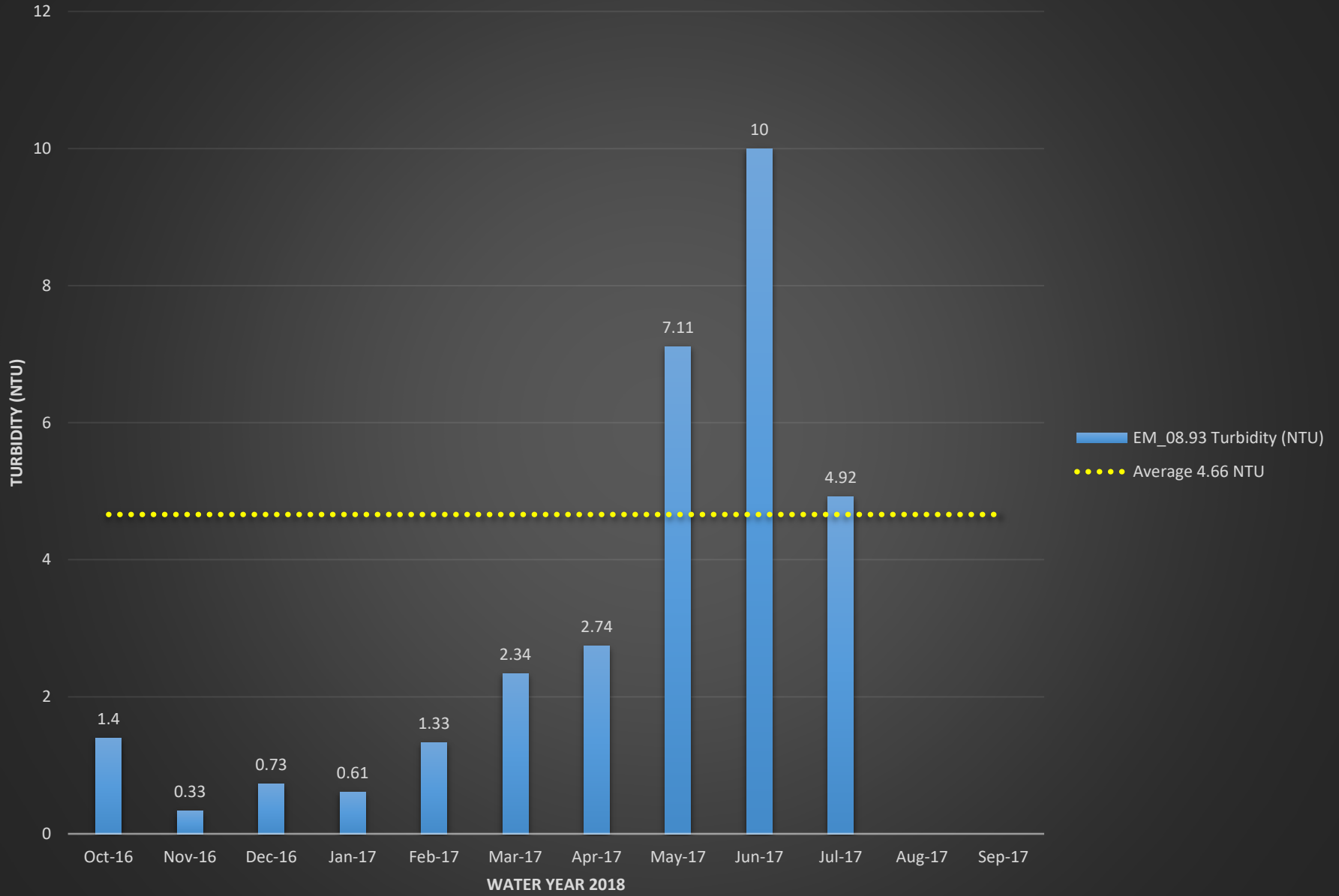
# EM\_08.93 pH



# EM\_08.93 Conductivity (mS/cm)

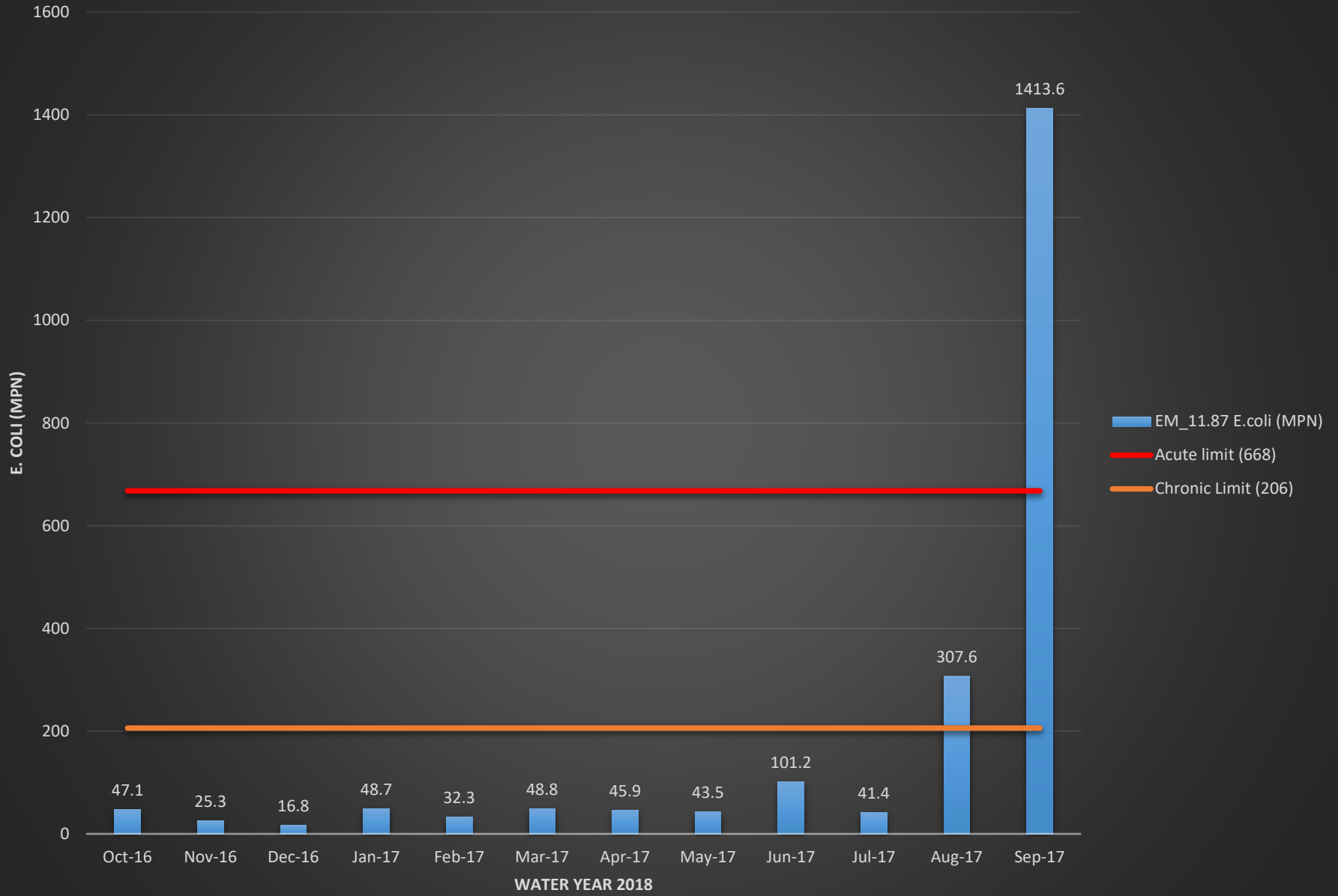


# EM\_08.93 Turbidity (NTU)

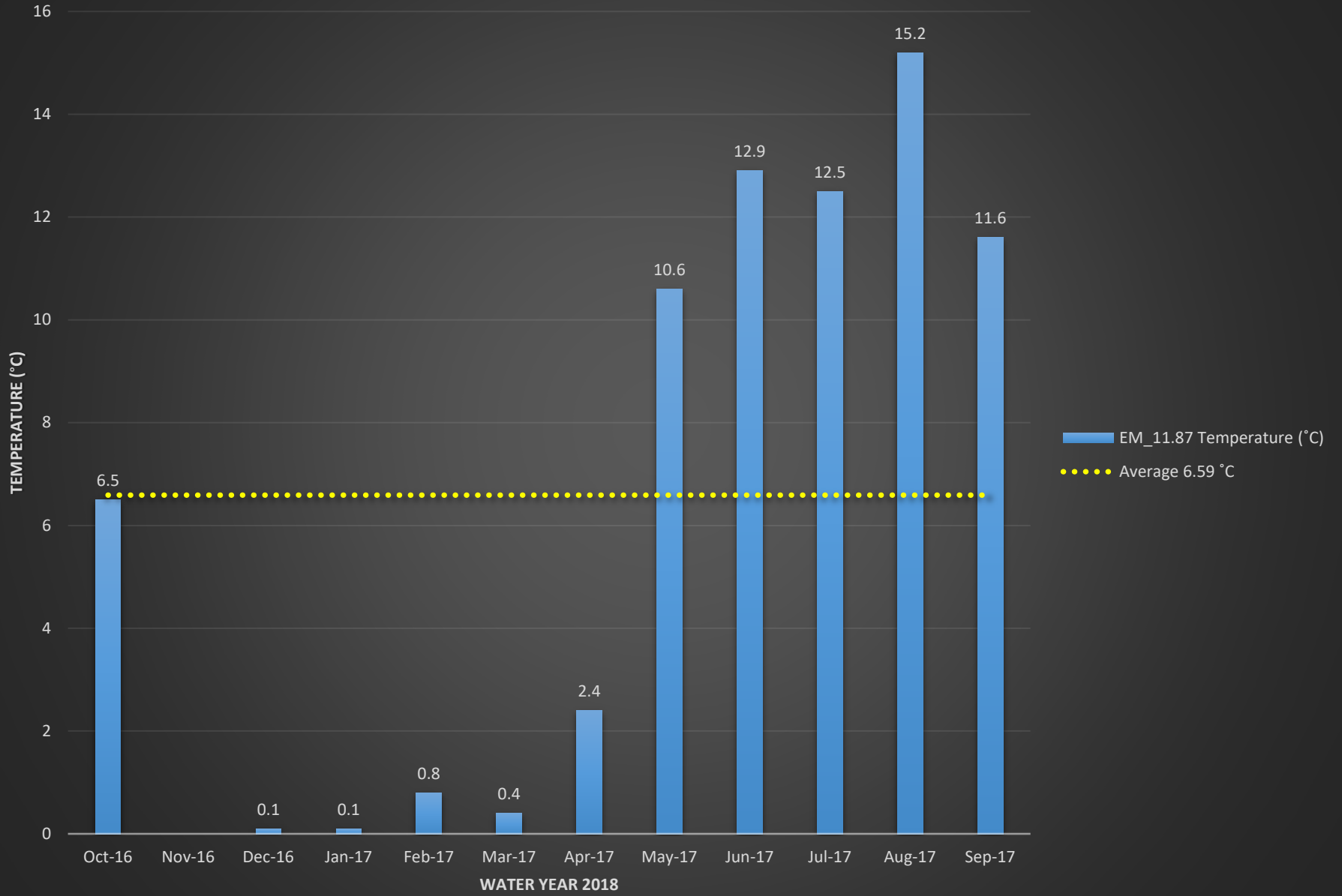




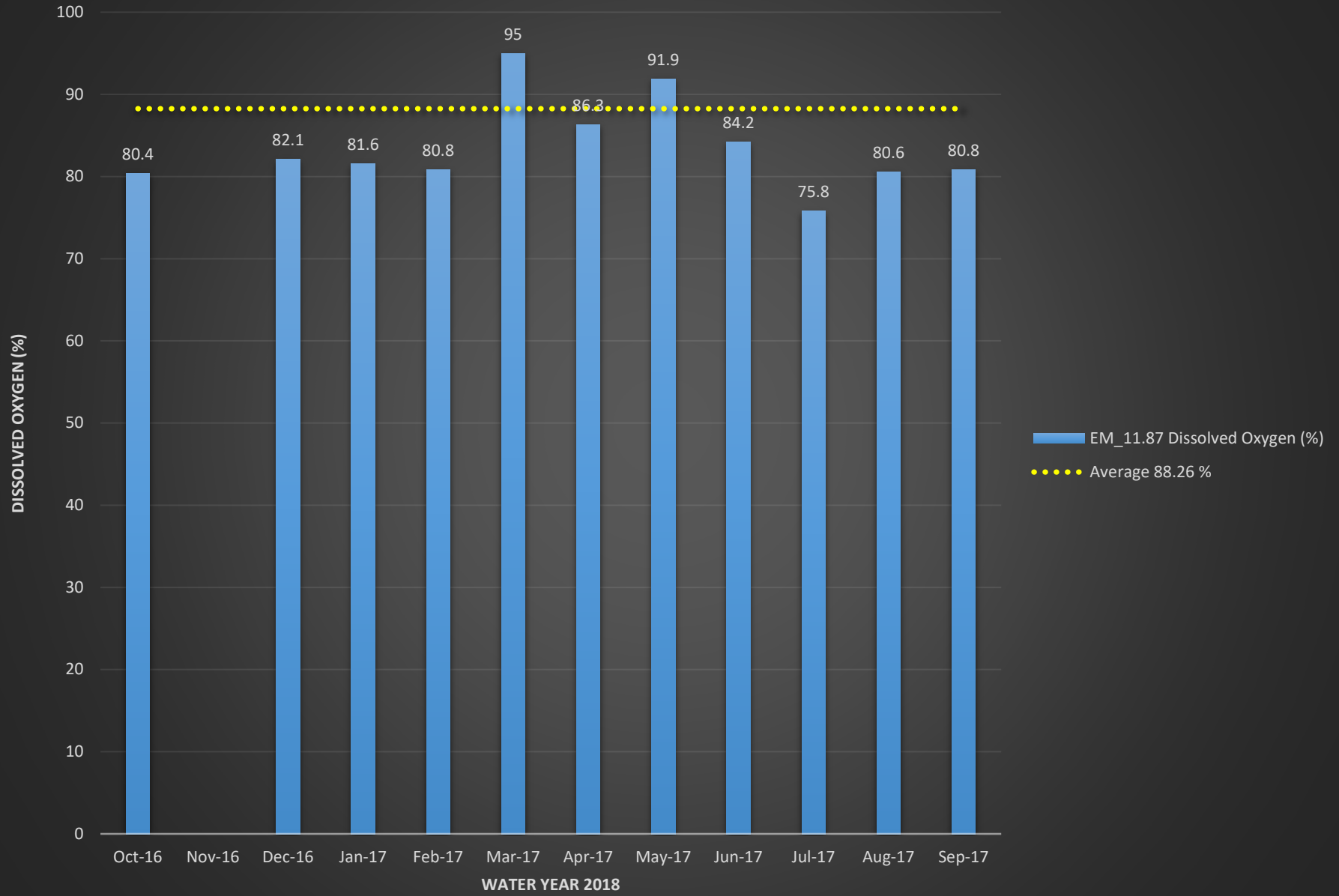
# EM\_11.87 E.coli (MPN)



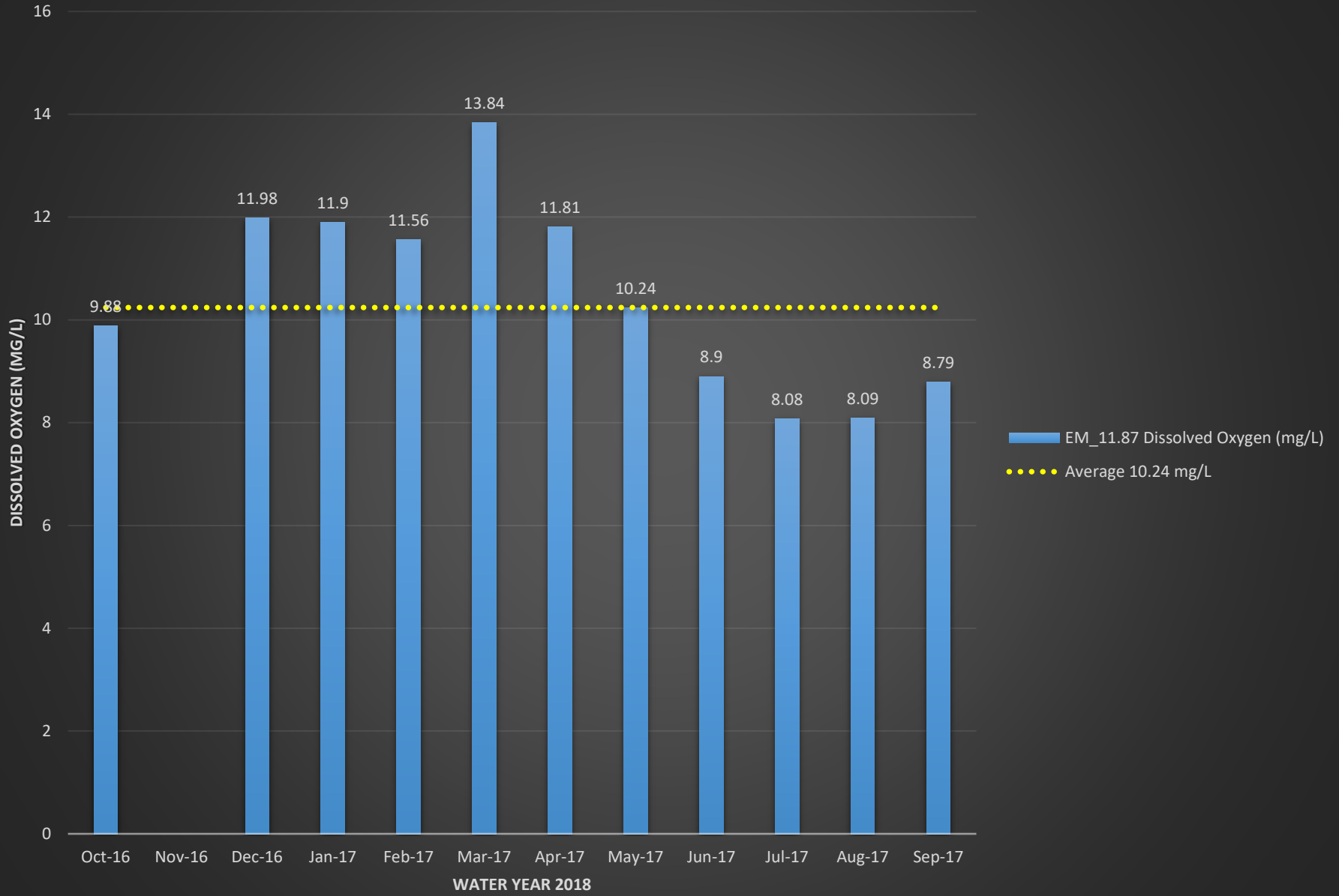
# EM\_11.87 Temperature (°C)



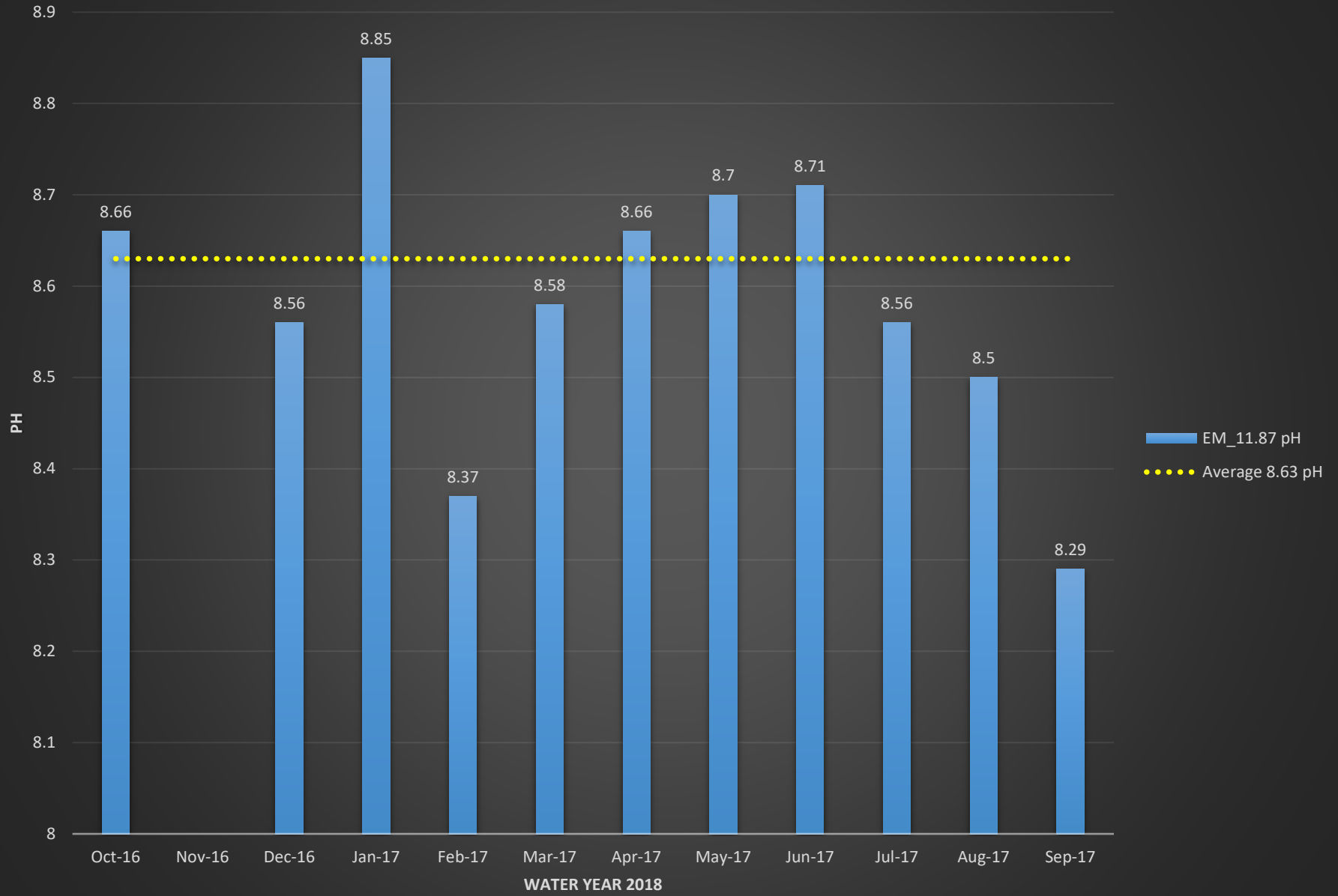
# EM\_11.87 Dissolved Oxygen (%)



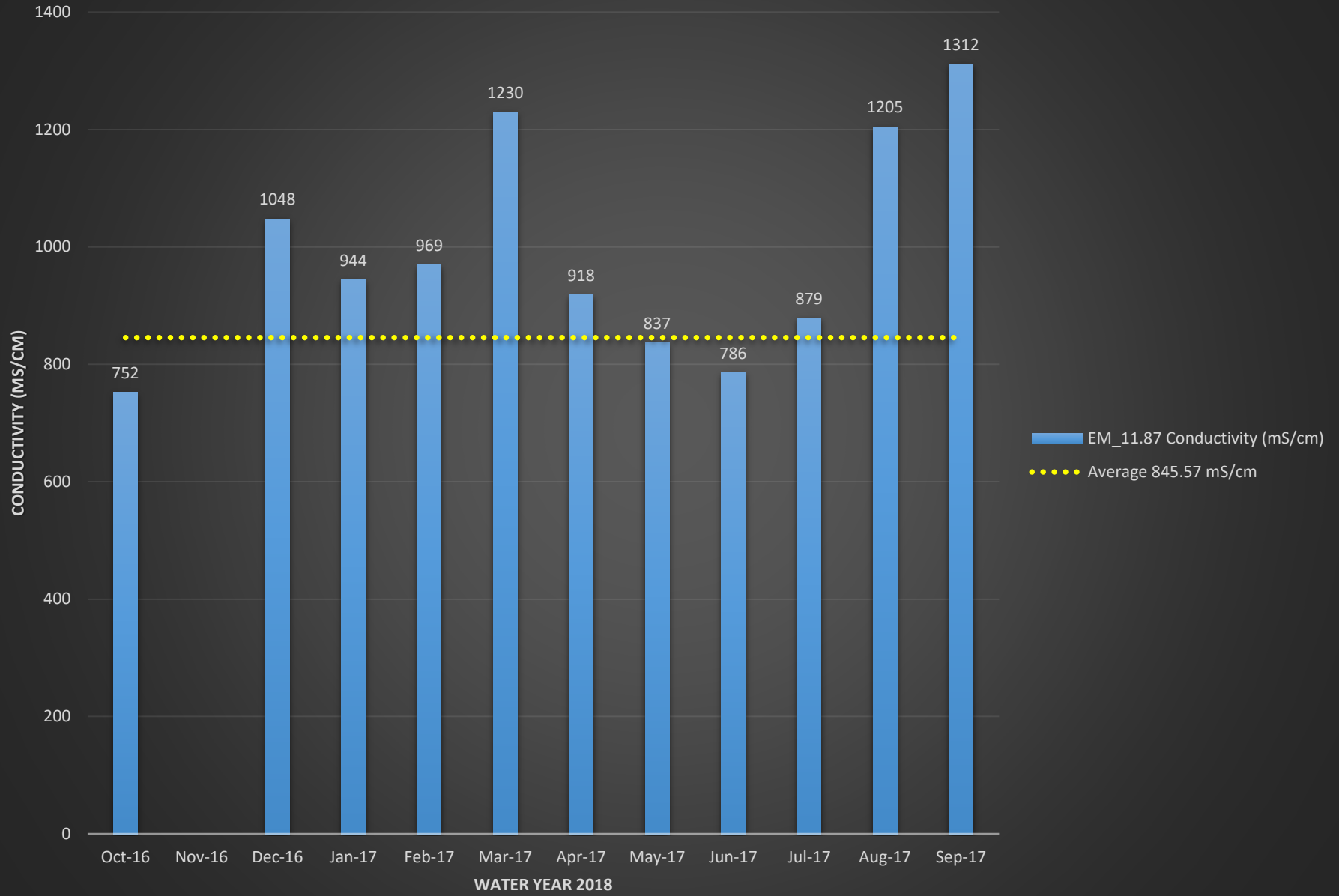
# EM\_11.87 Dissolved Oxygen (mg/L)



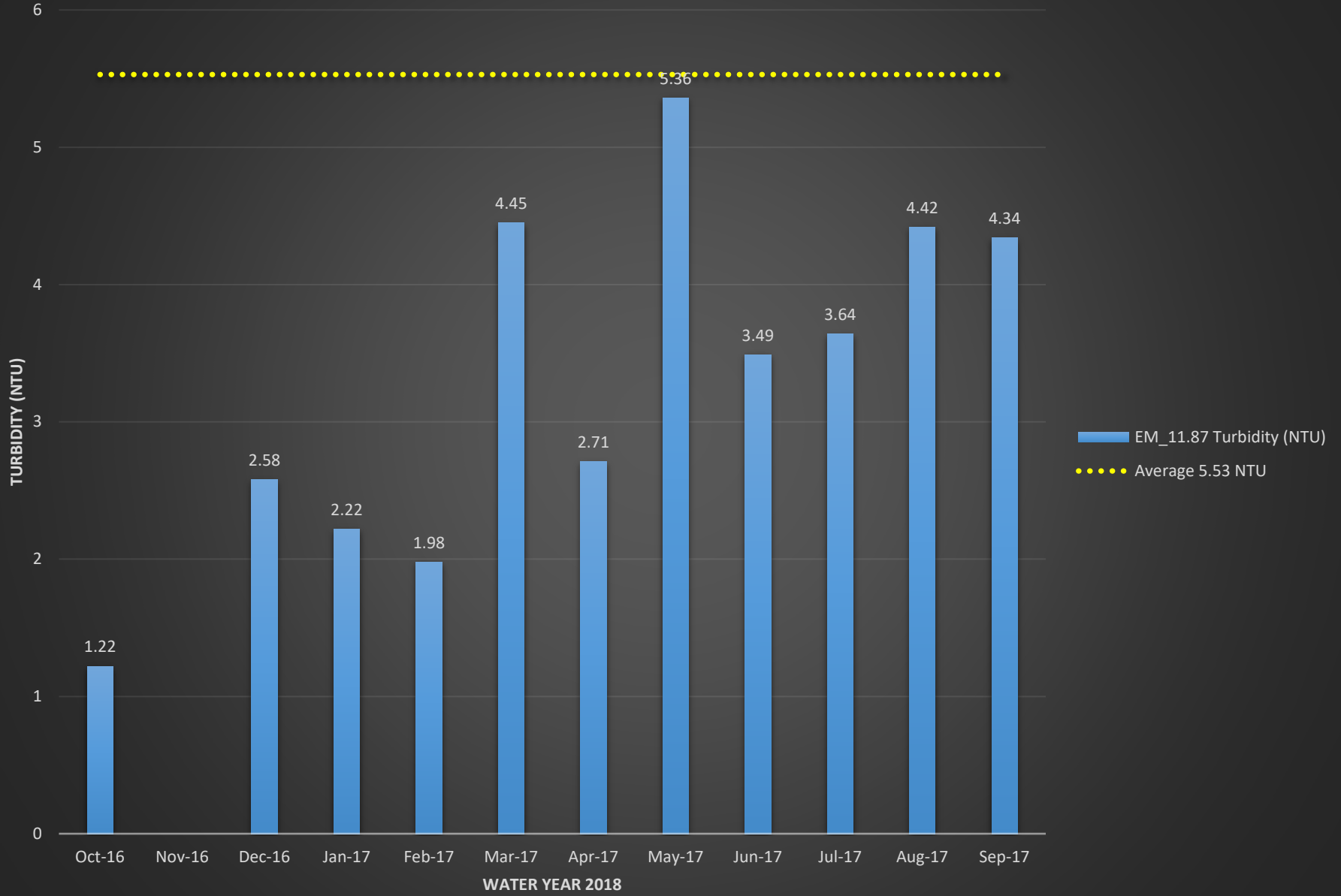
# EM\_11.87 pH



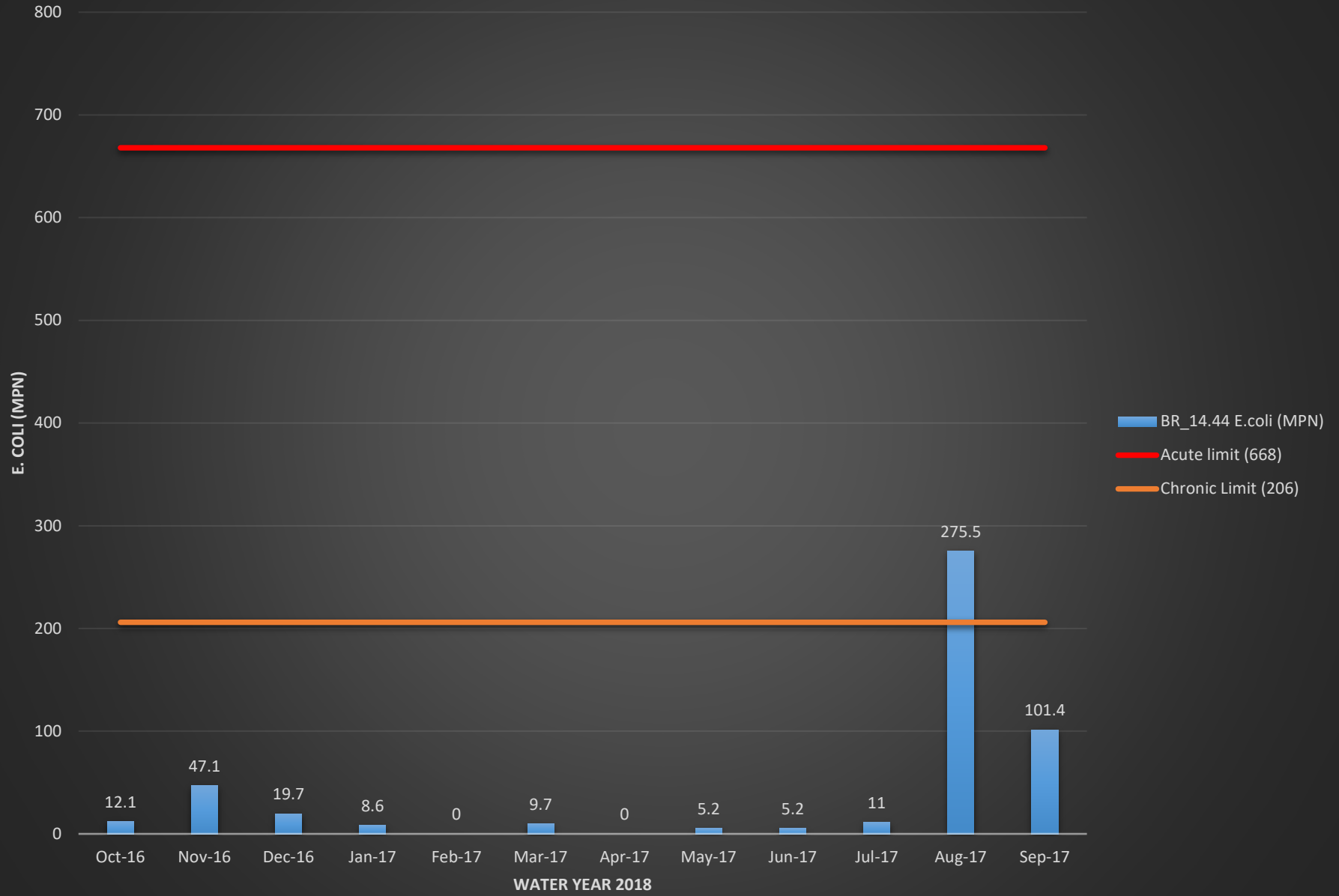
# EM\_11.87 Conductivity (mS/cm)



# EM\_11.87 Turbidity (NTU)

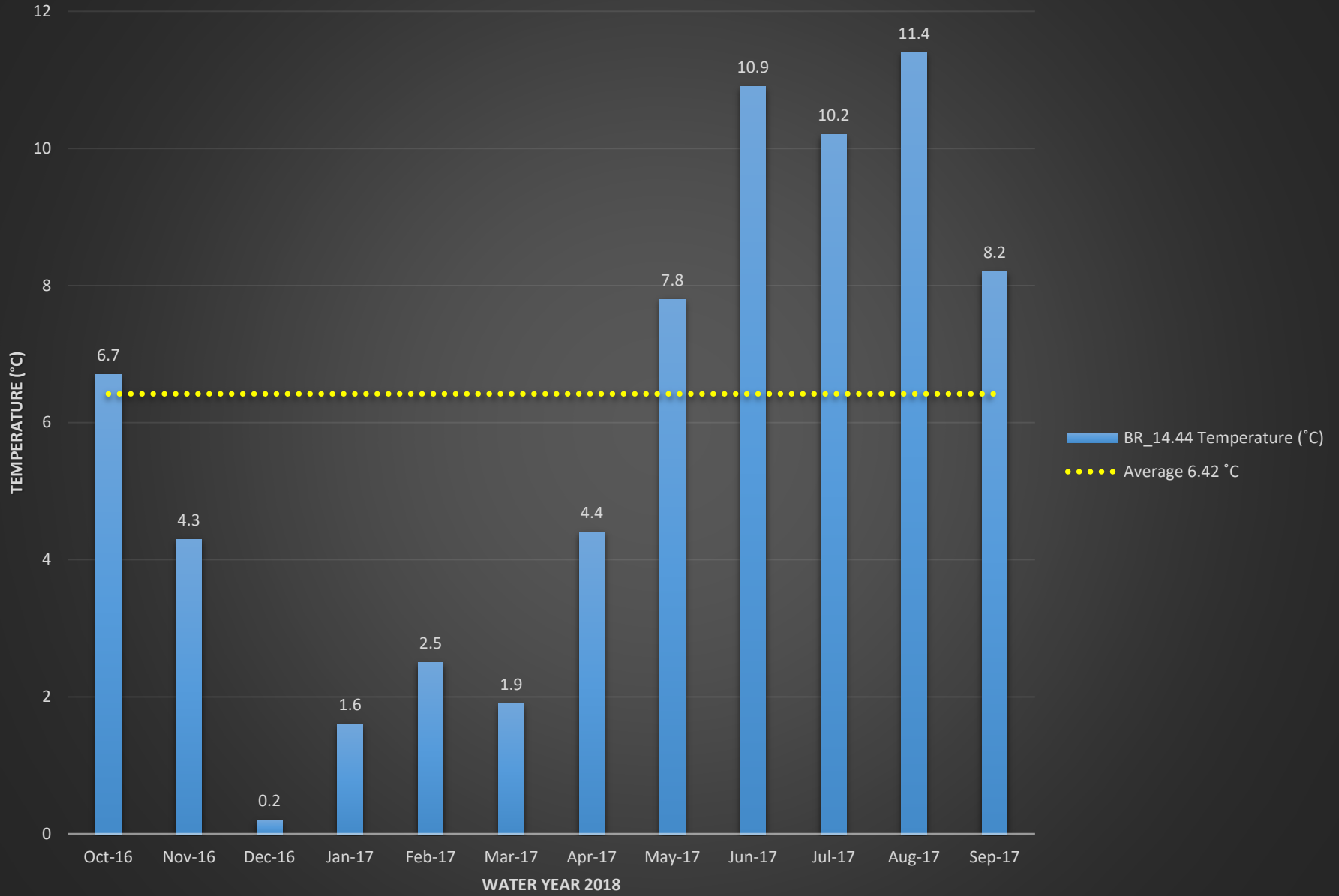


# BR\_14.44 E.coli (MPN)

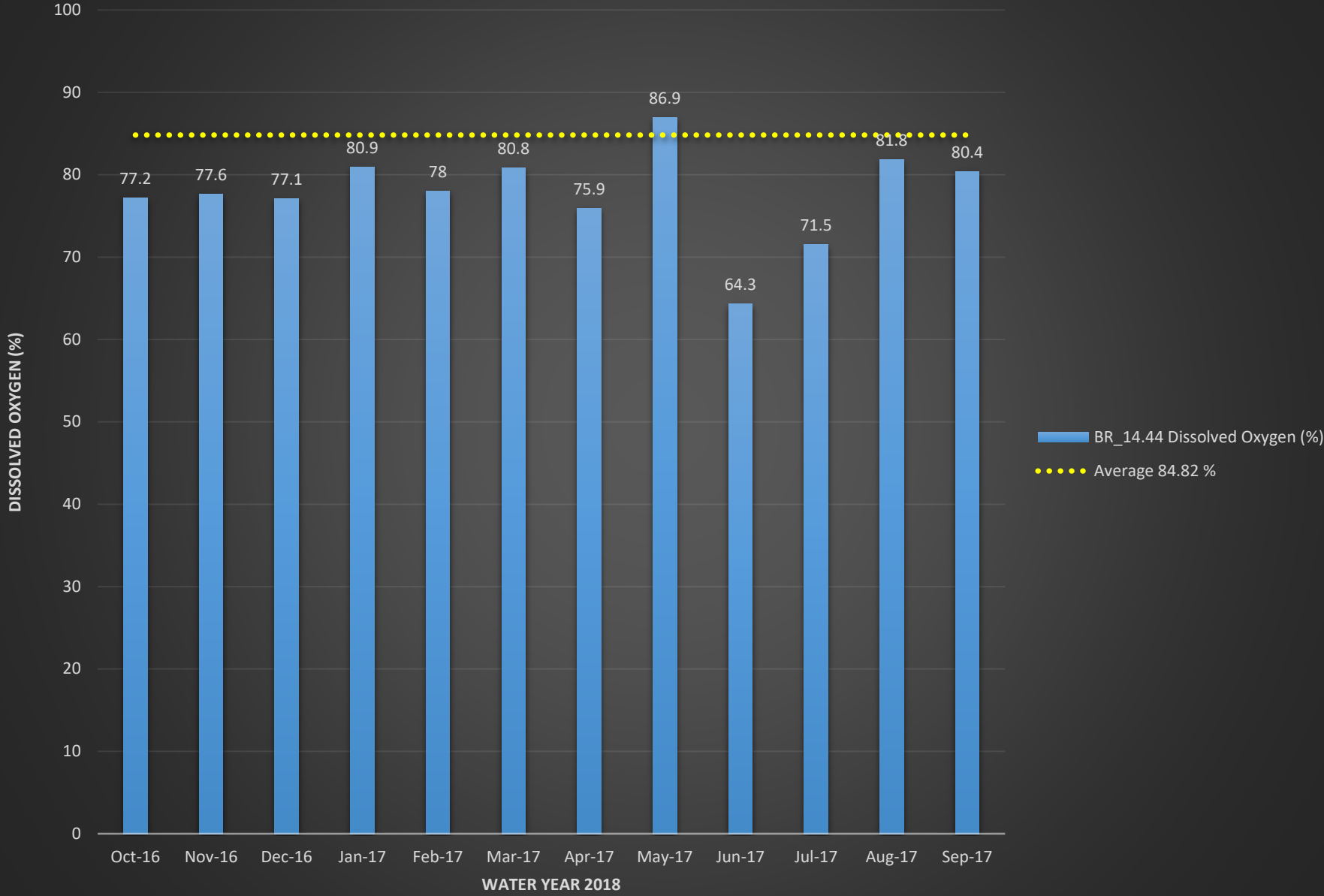




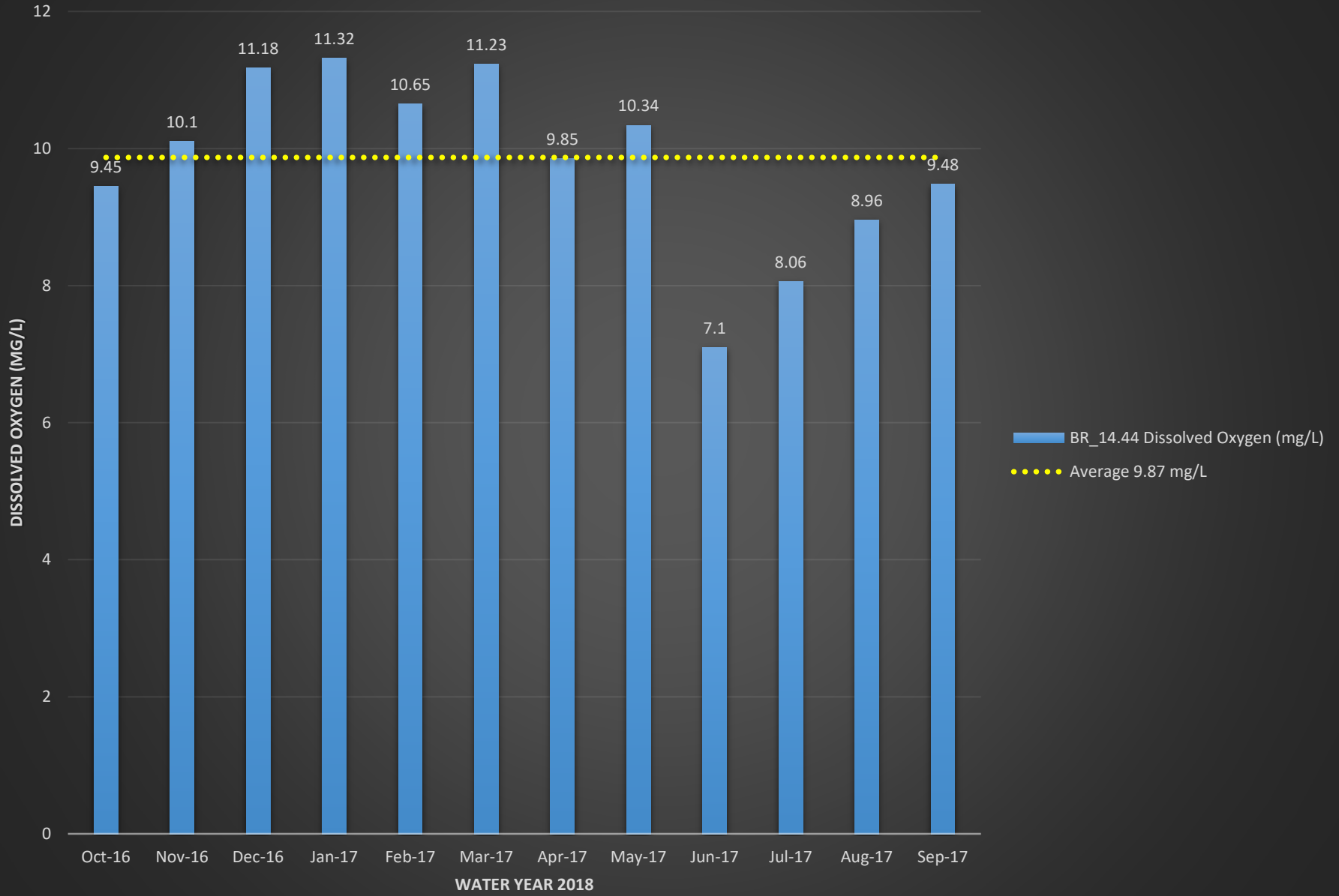
# BR\_14.44 Temperature (°C)



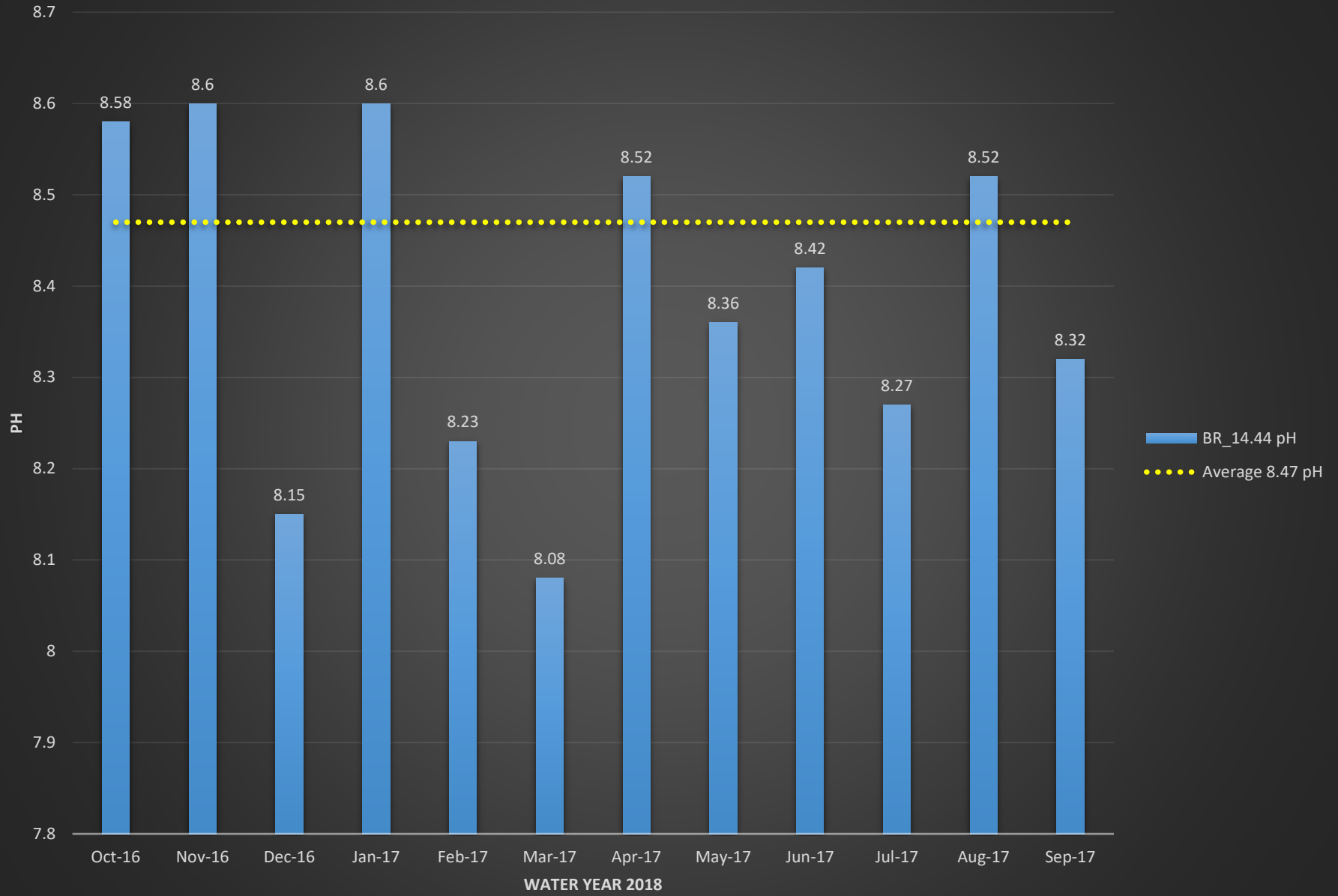
# BR\_14.44 Dissolved Oxygen (%)



# BR\_14.44 Dissolved Oxygen (mg/L)

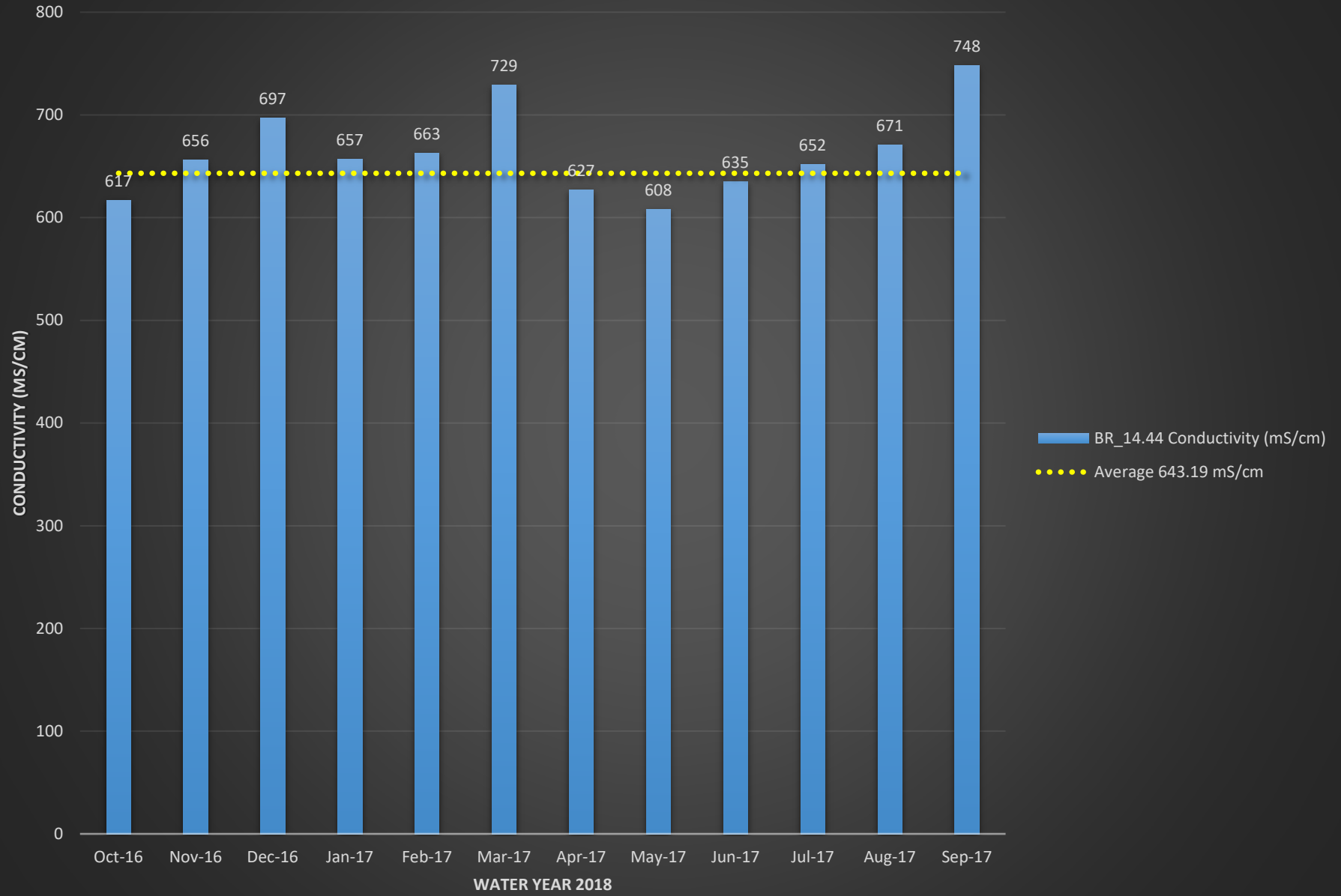


# BR\_14.44 pH

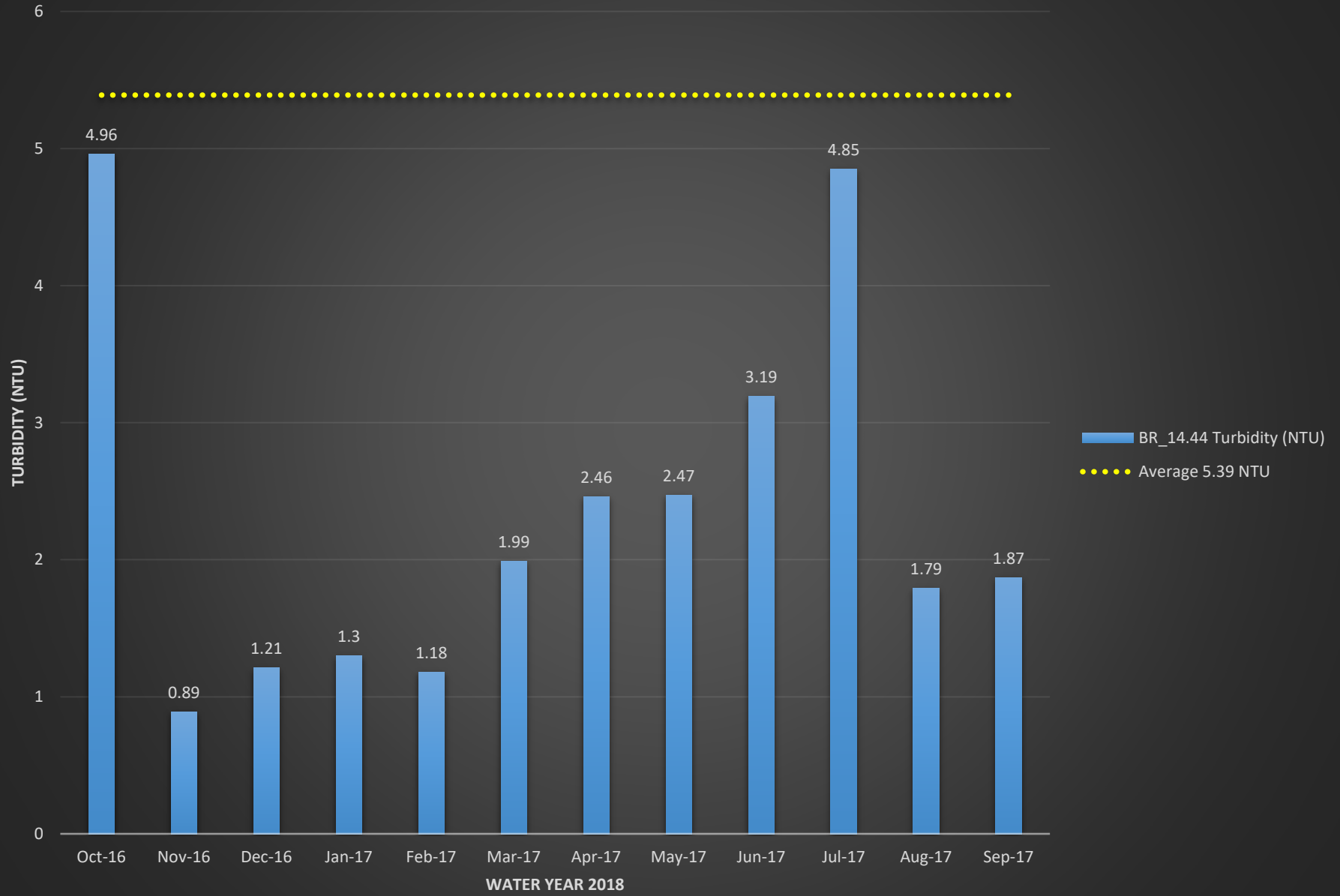


2018

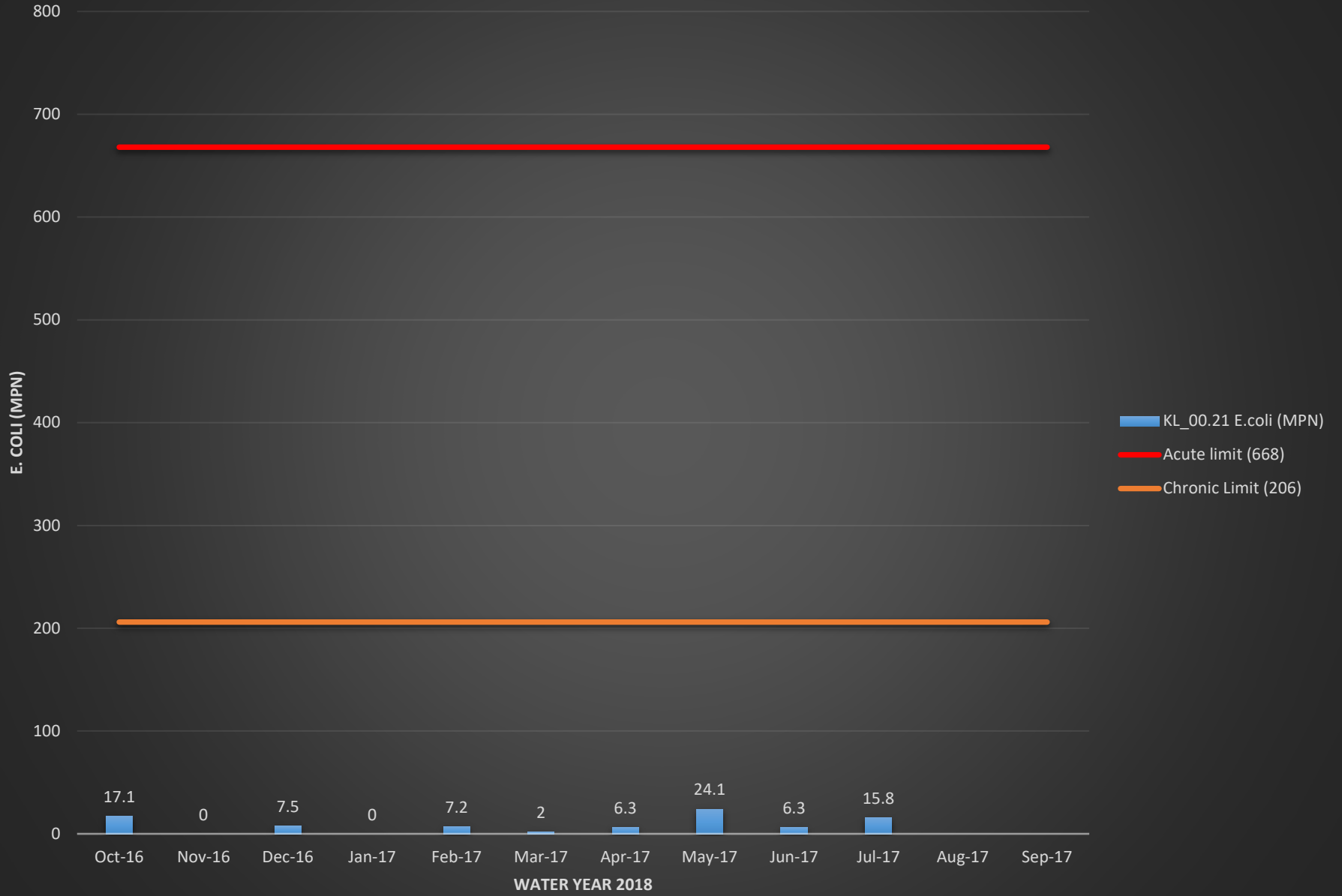
### BR\_14.44 Conductivity (mS/cm)



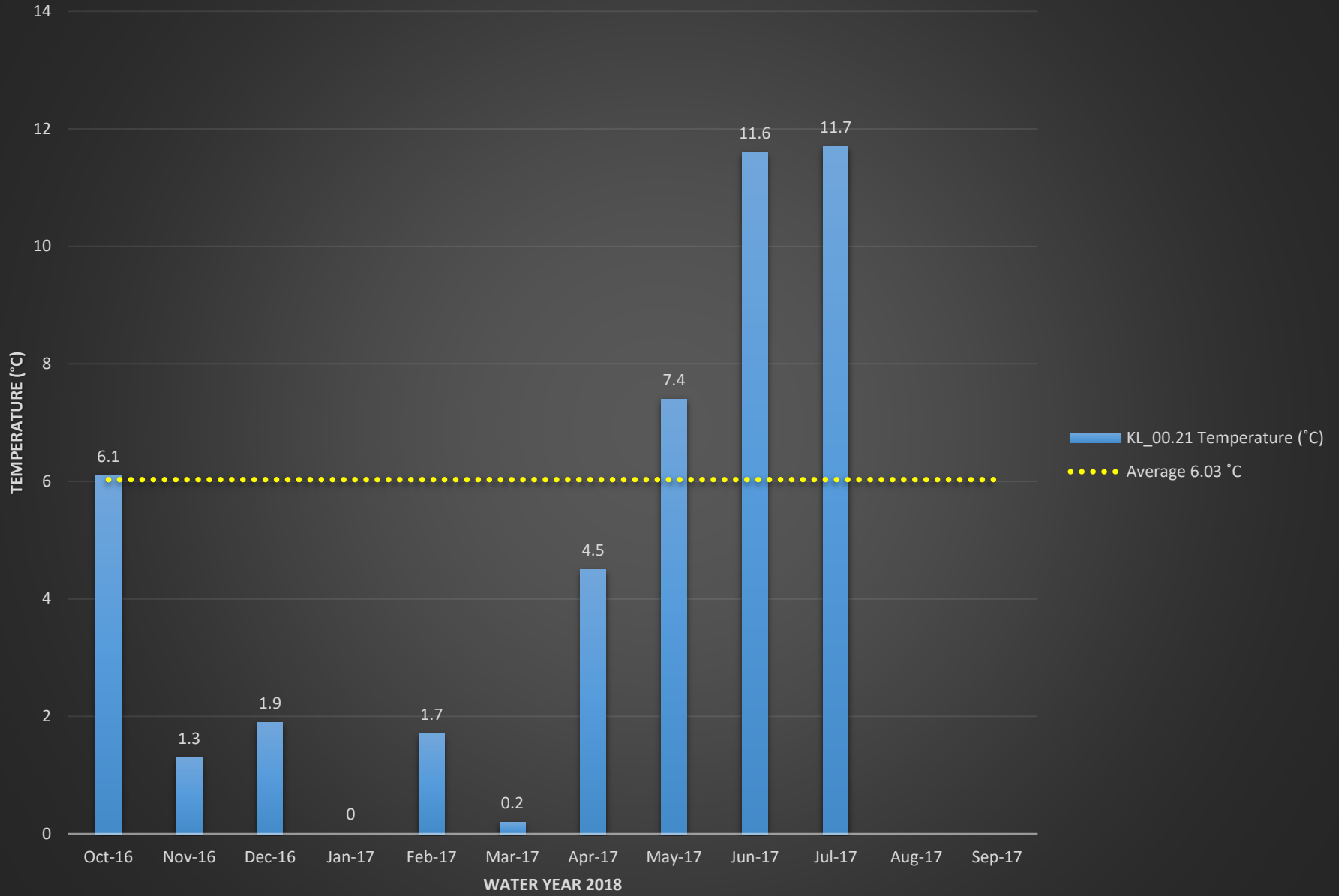
# BR\_14.44 Turbidity (NTU)



# KL\_00.21 E.coli (MPN)

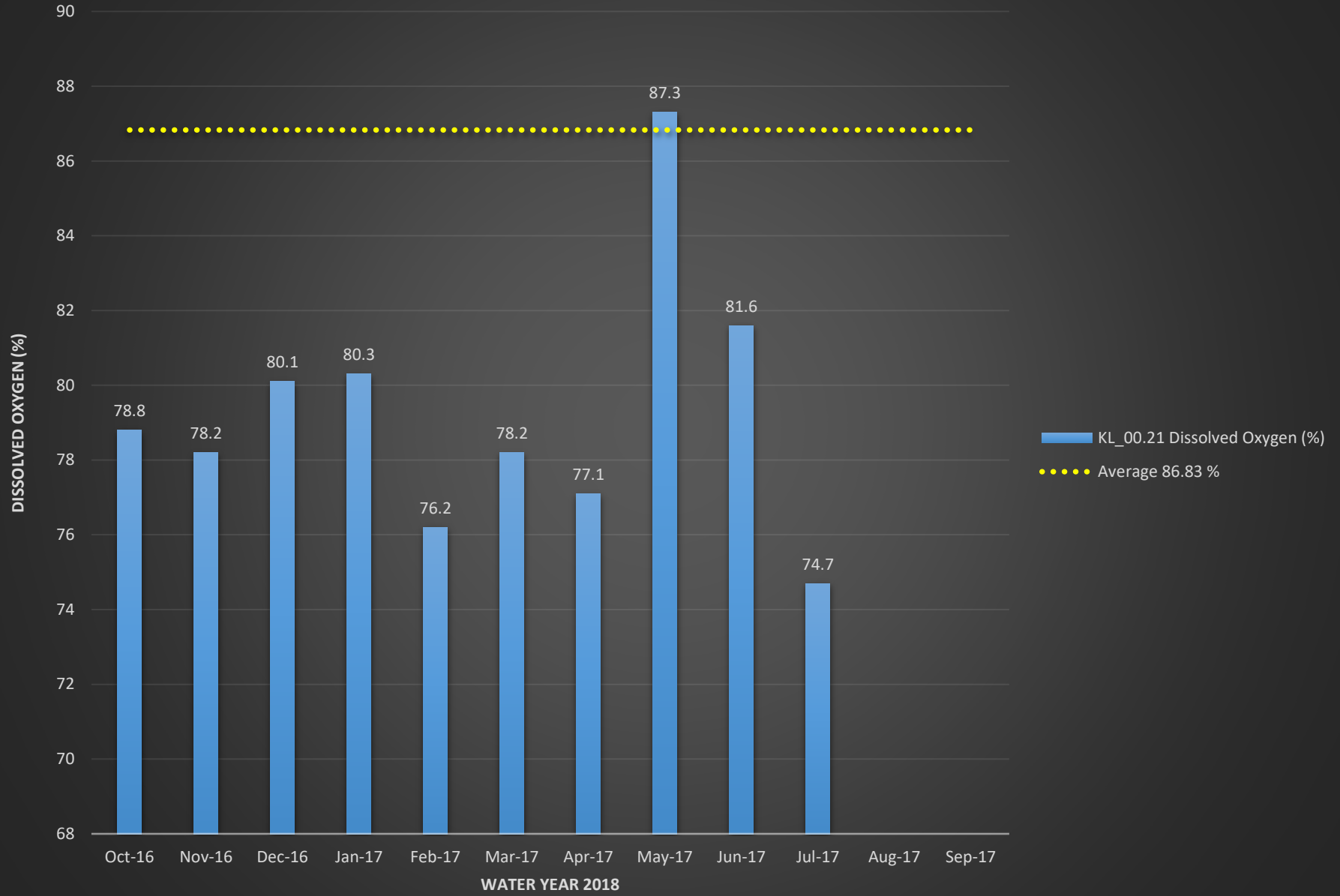


# KL\_00.21 Temperature (°C)

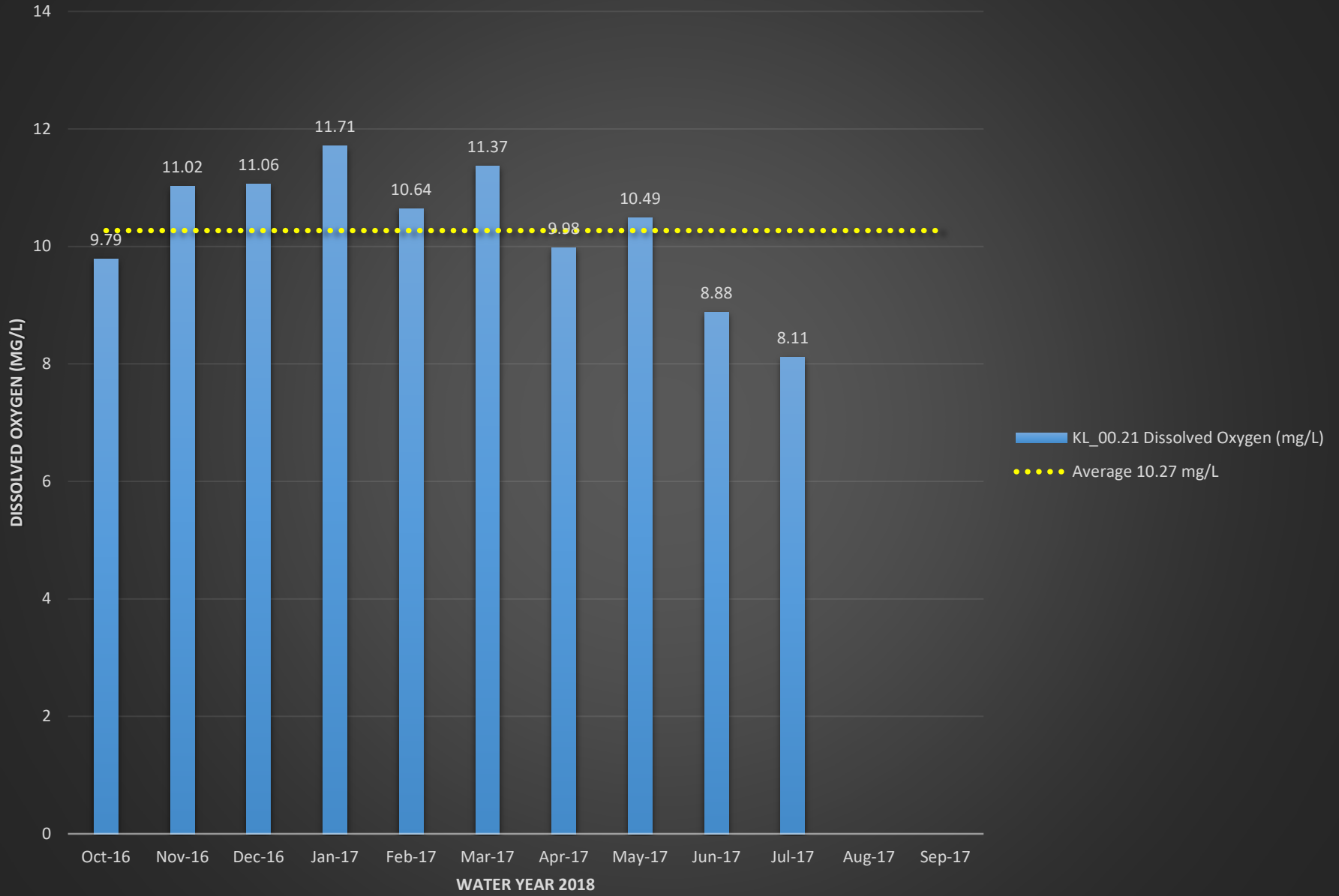




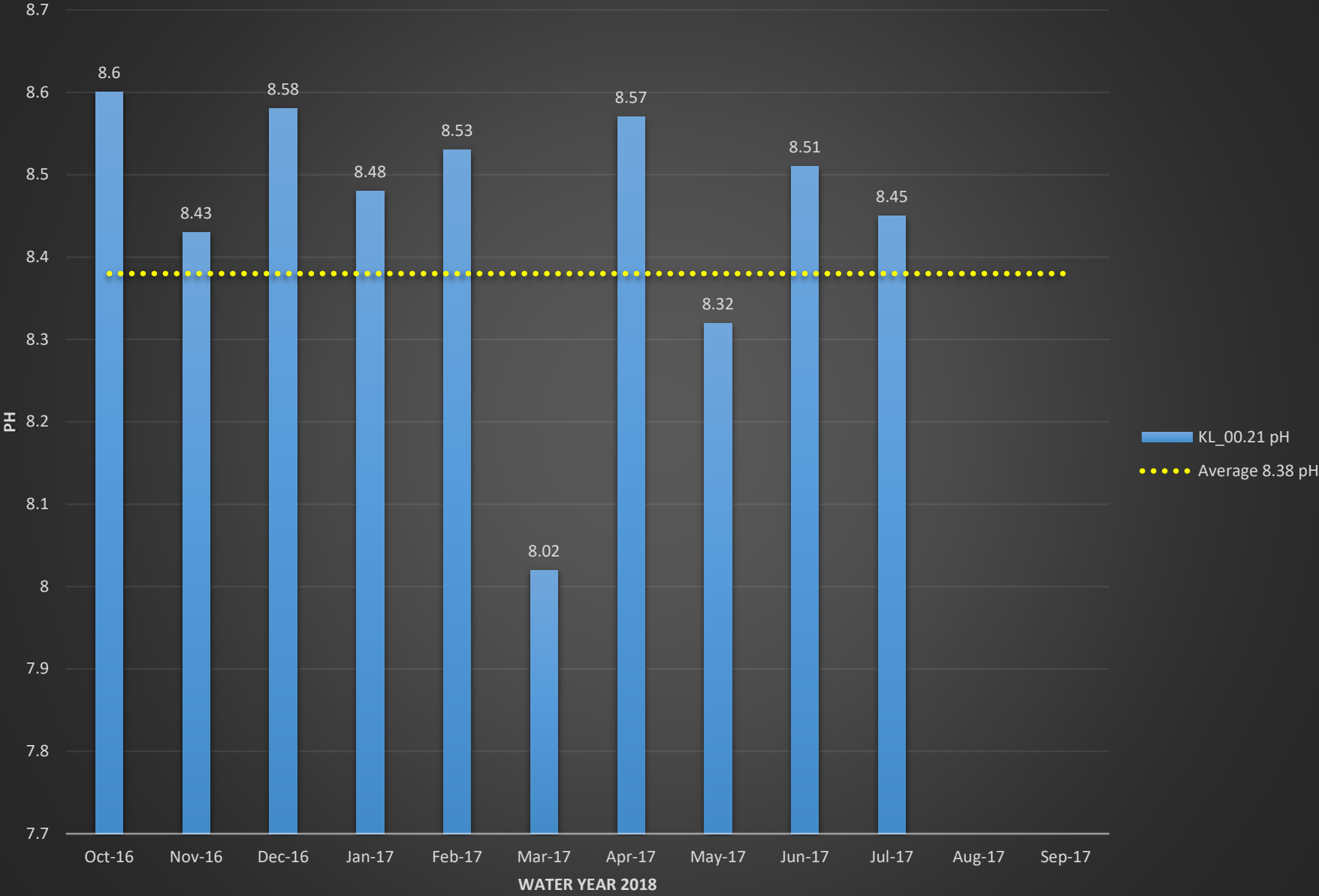
# KL\_00.21 Dissolved Oxygen (%)



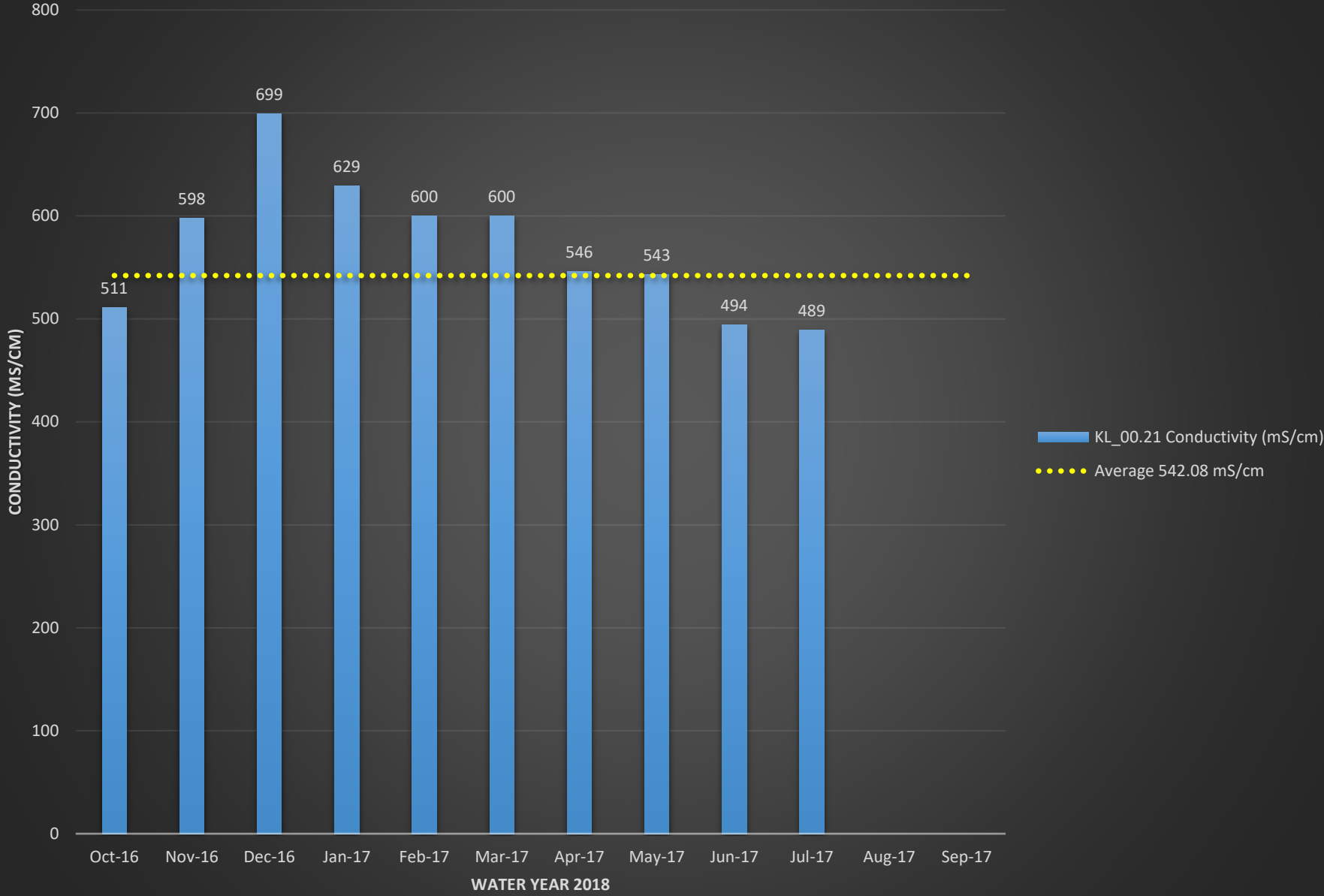
# KL\_00.21 Dissolved Oxygen (mg/L)



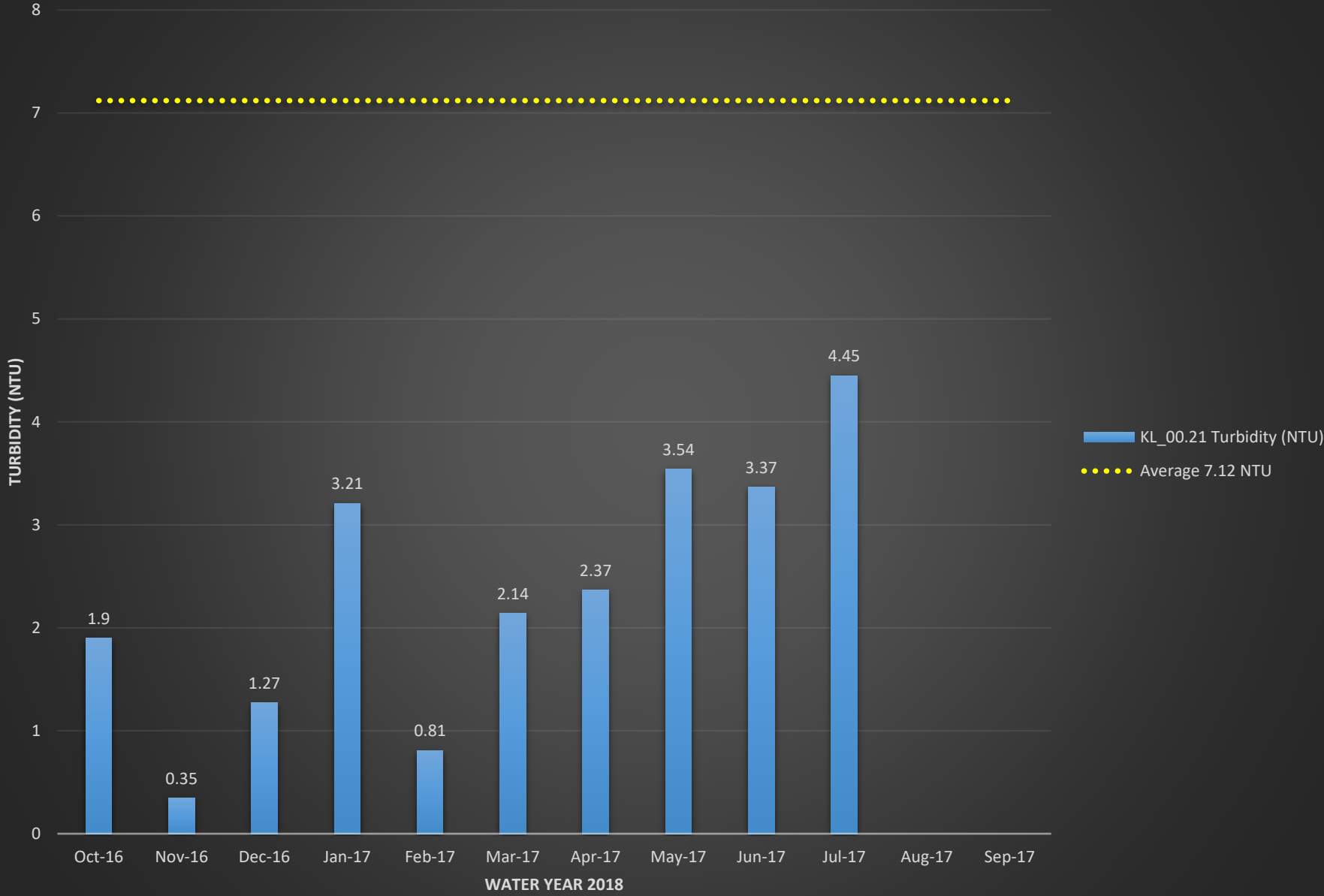
# KL\_00.21 pH



# KL\_00.21 Conductivity (mS/cm)

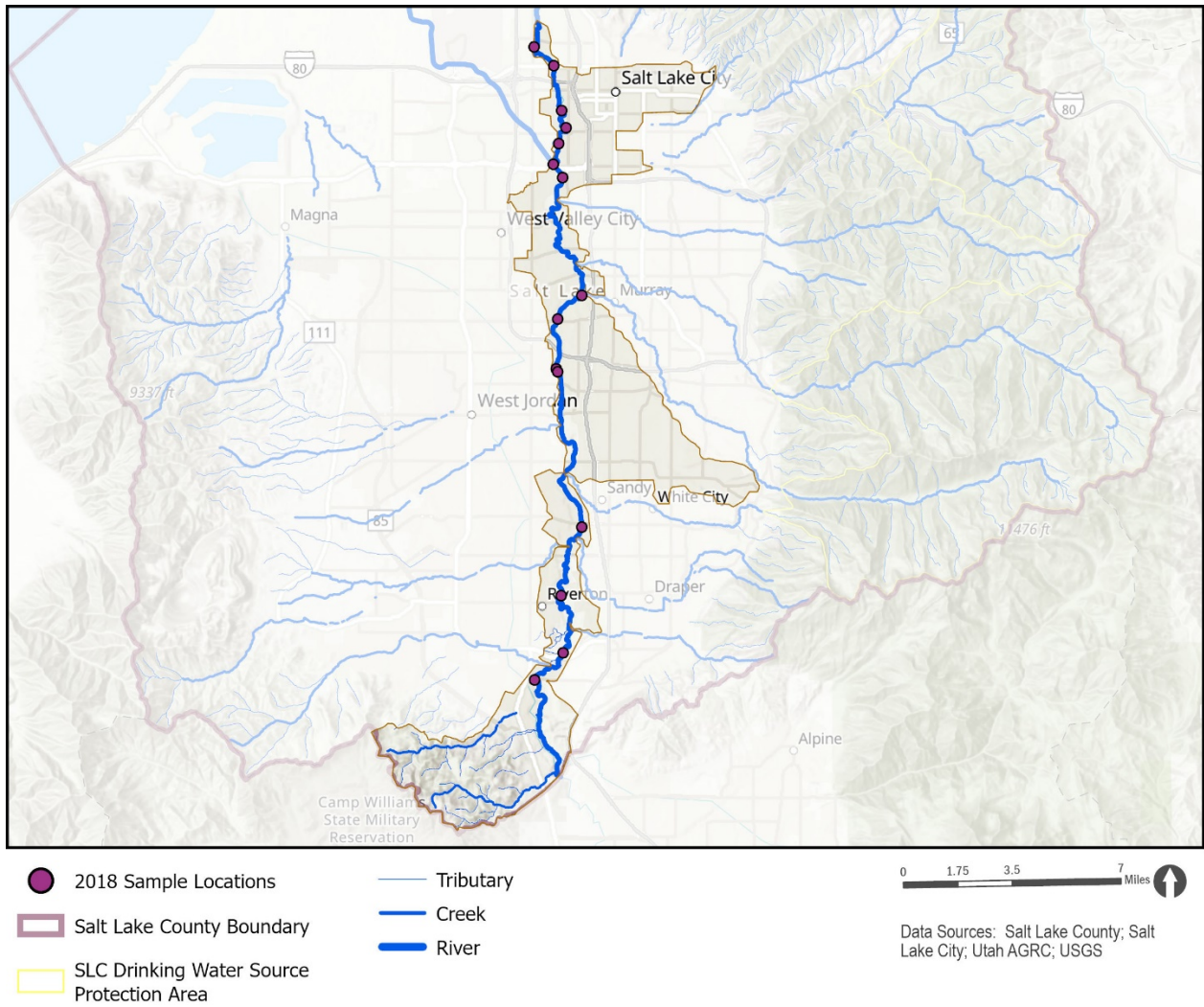


# KL\_00.21 Turbidity (NTU)

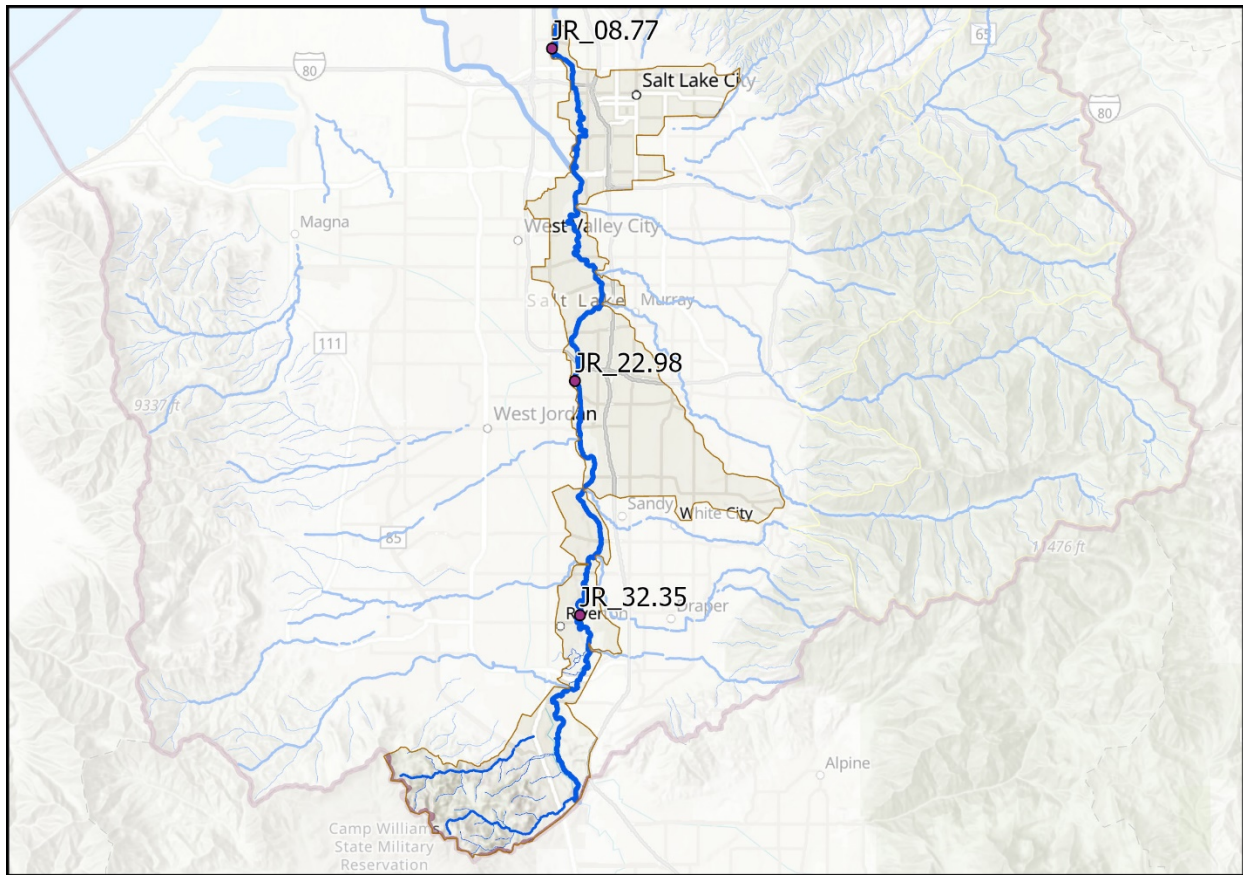


# JORDAN RIVER CORRIDOR SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



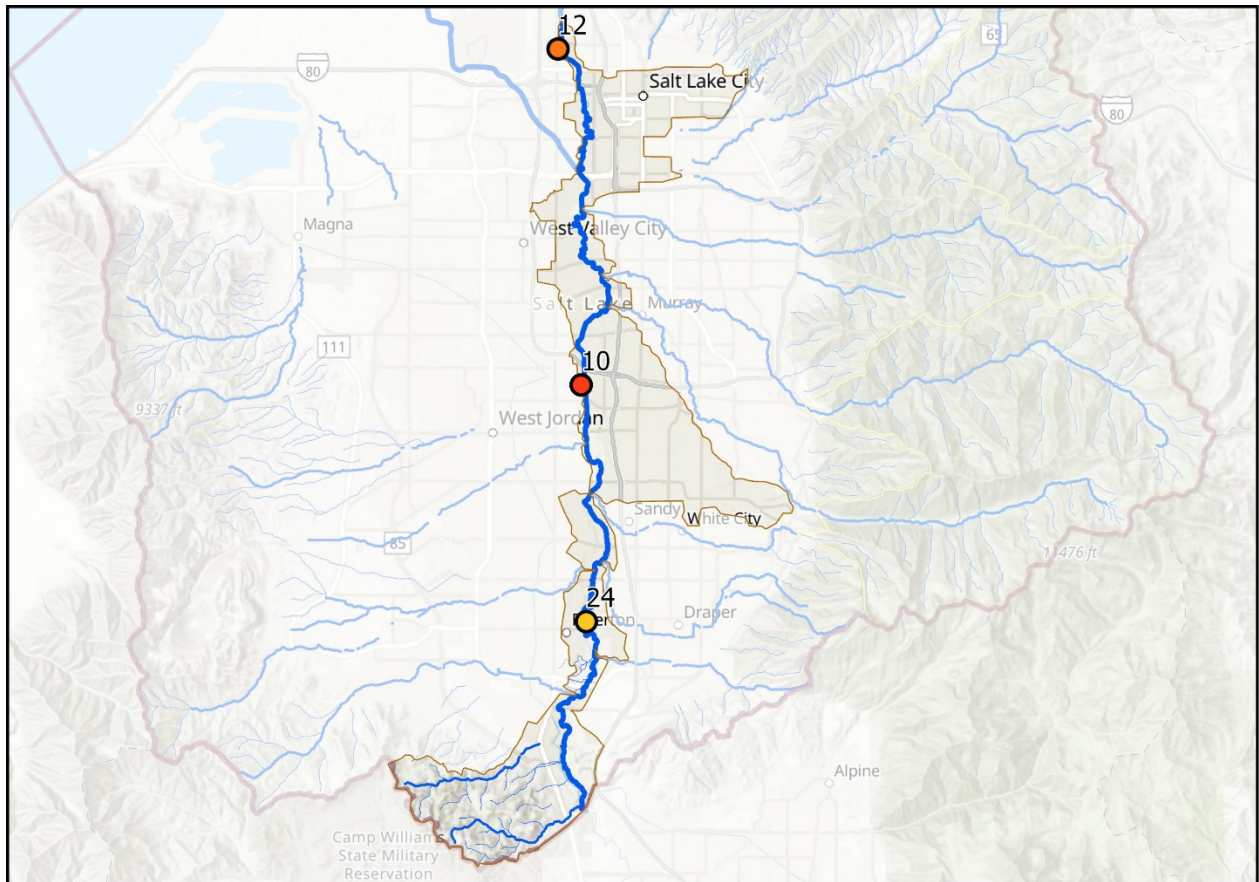
- 2018 Macroinvertebrate Sample Locations
- Tributary
- Creek
- River
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



2018 Macroinvertebrate  
Karr BIBI

- ≤10
- ≤12
- ≤20
- ≤24
- ≤28

- ≤32
- ≤36
- ≤40
- ≤44
- ≤48
- No Sample

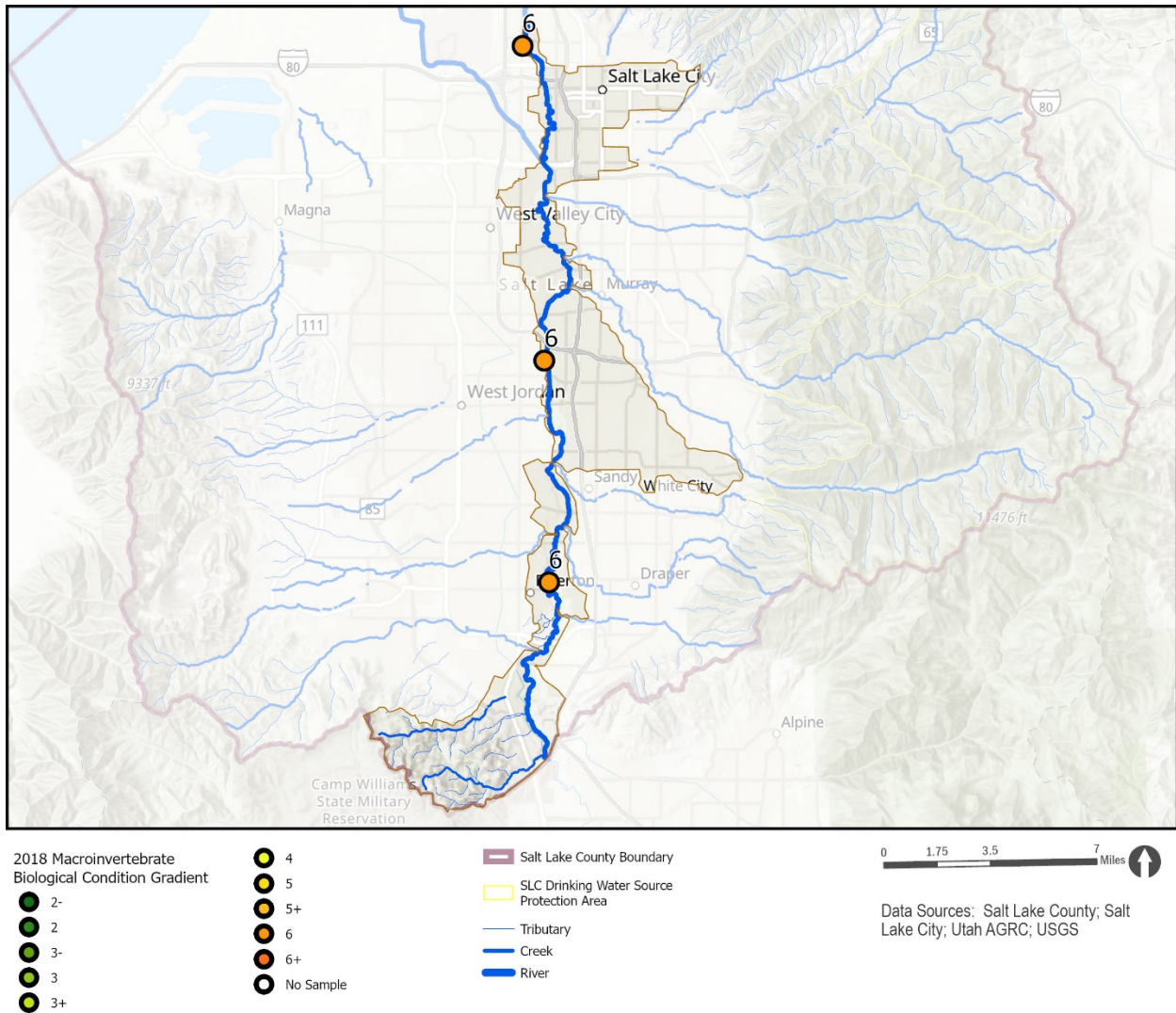
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



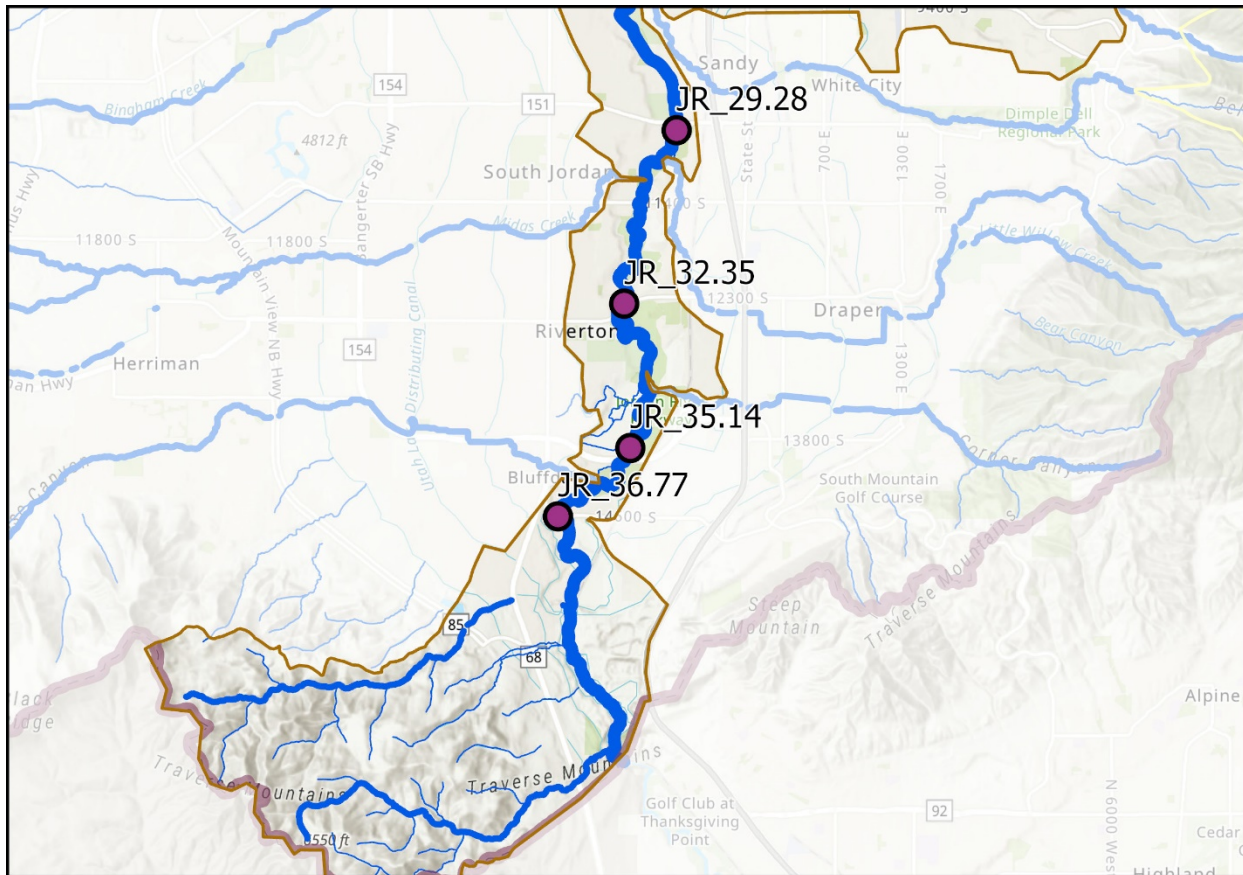
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Biological Condition Gradient (BCG) Results



### Subwatershed Map with Bacteria Sample Sites (upper)

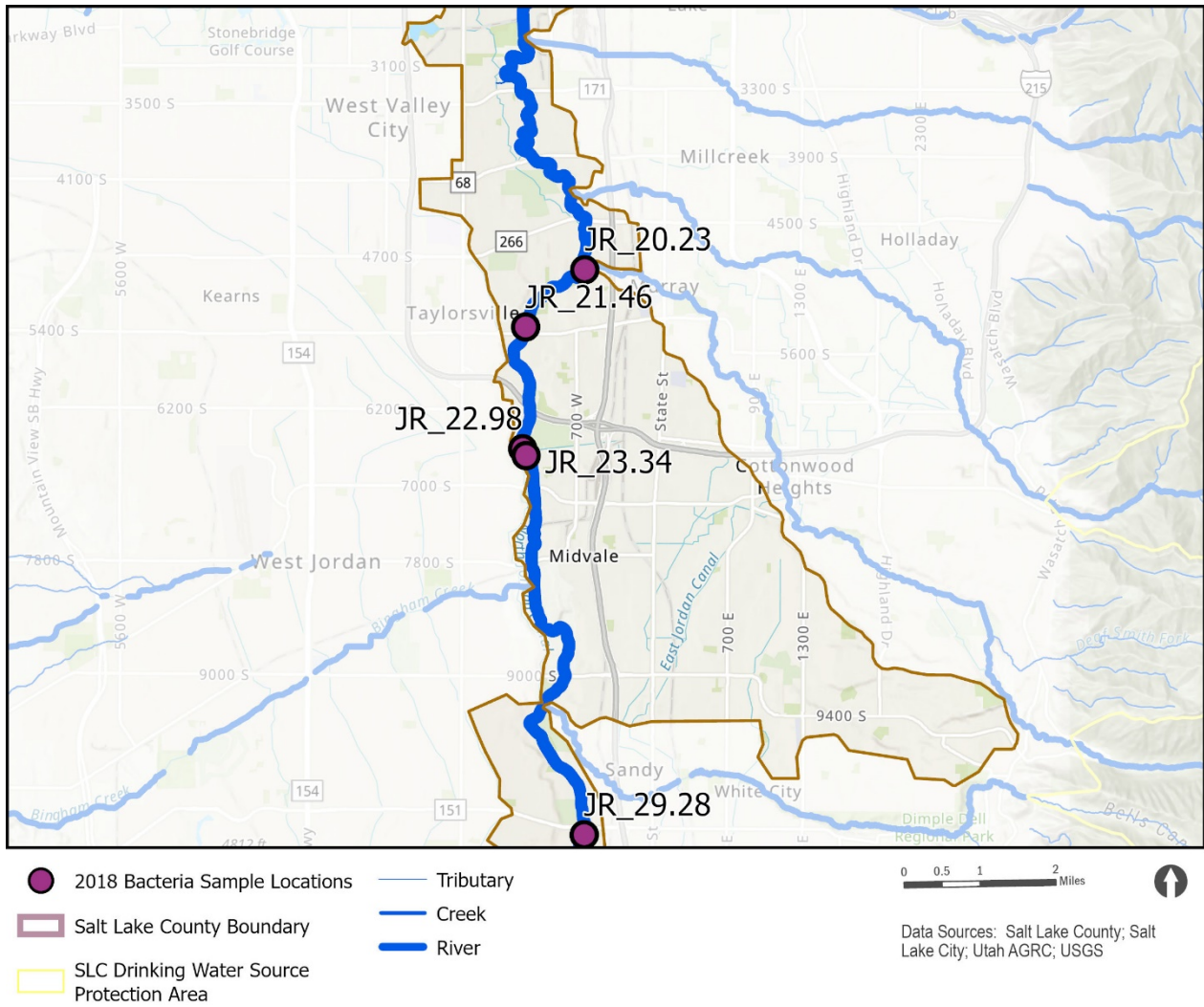


- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



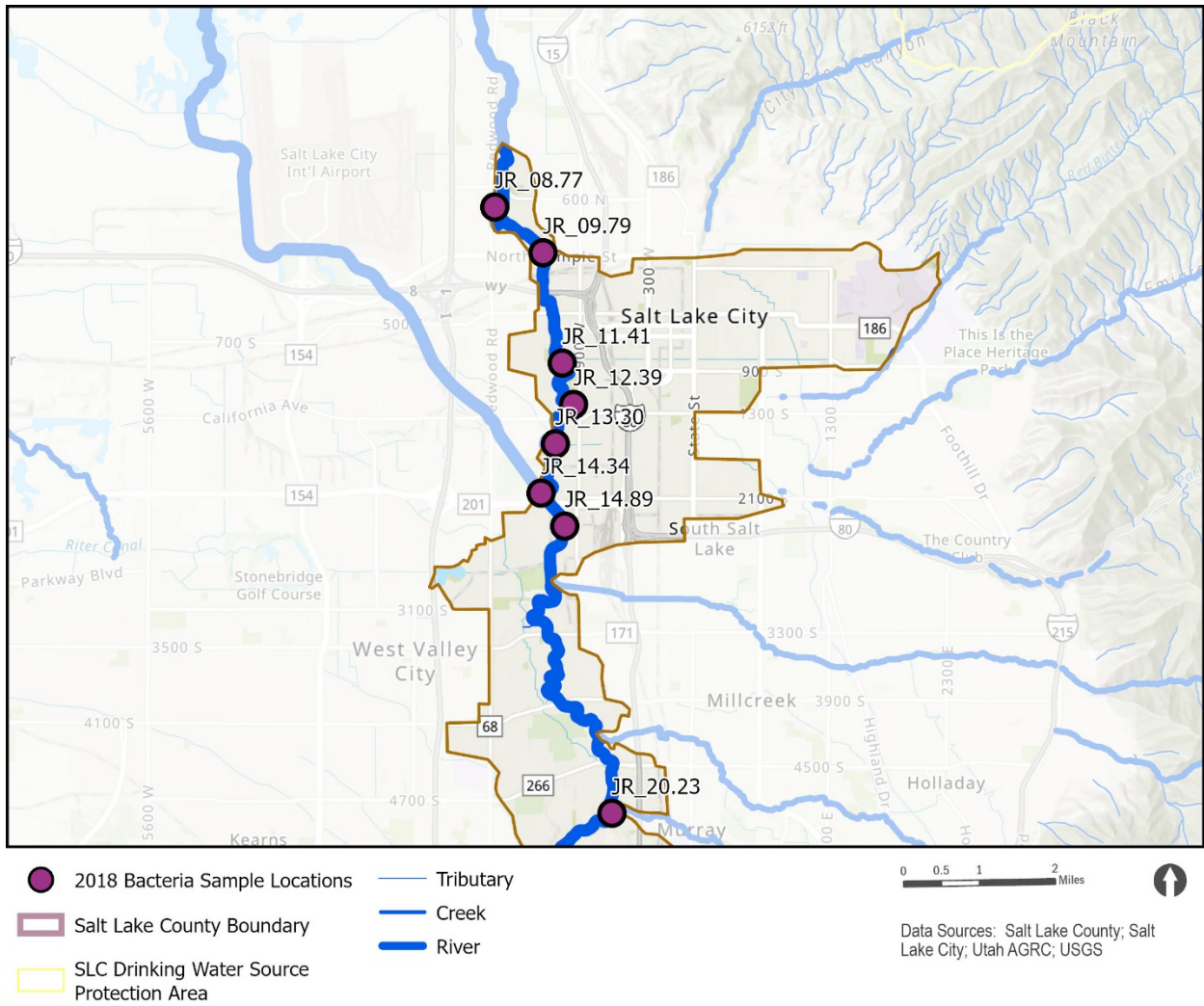
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

### Subwatershed Map with Bacteria Sample Sites (middle)





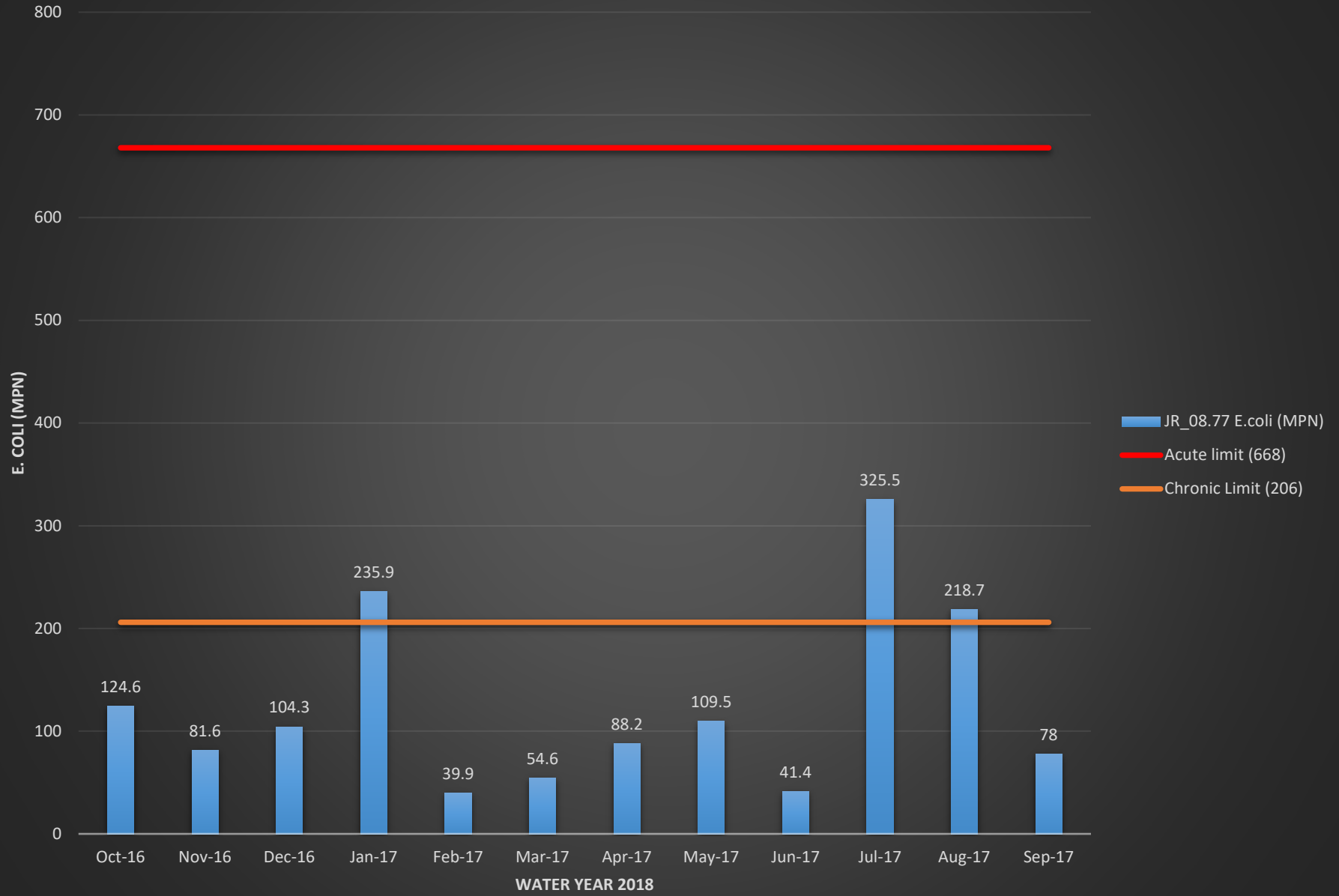
## Subwatershed Map with Bacteria Sample Sites (lower)



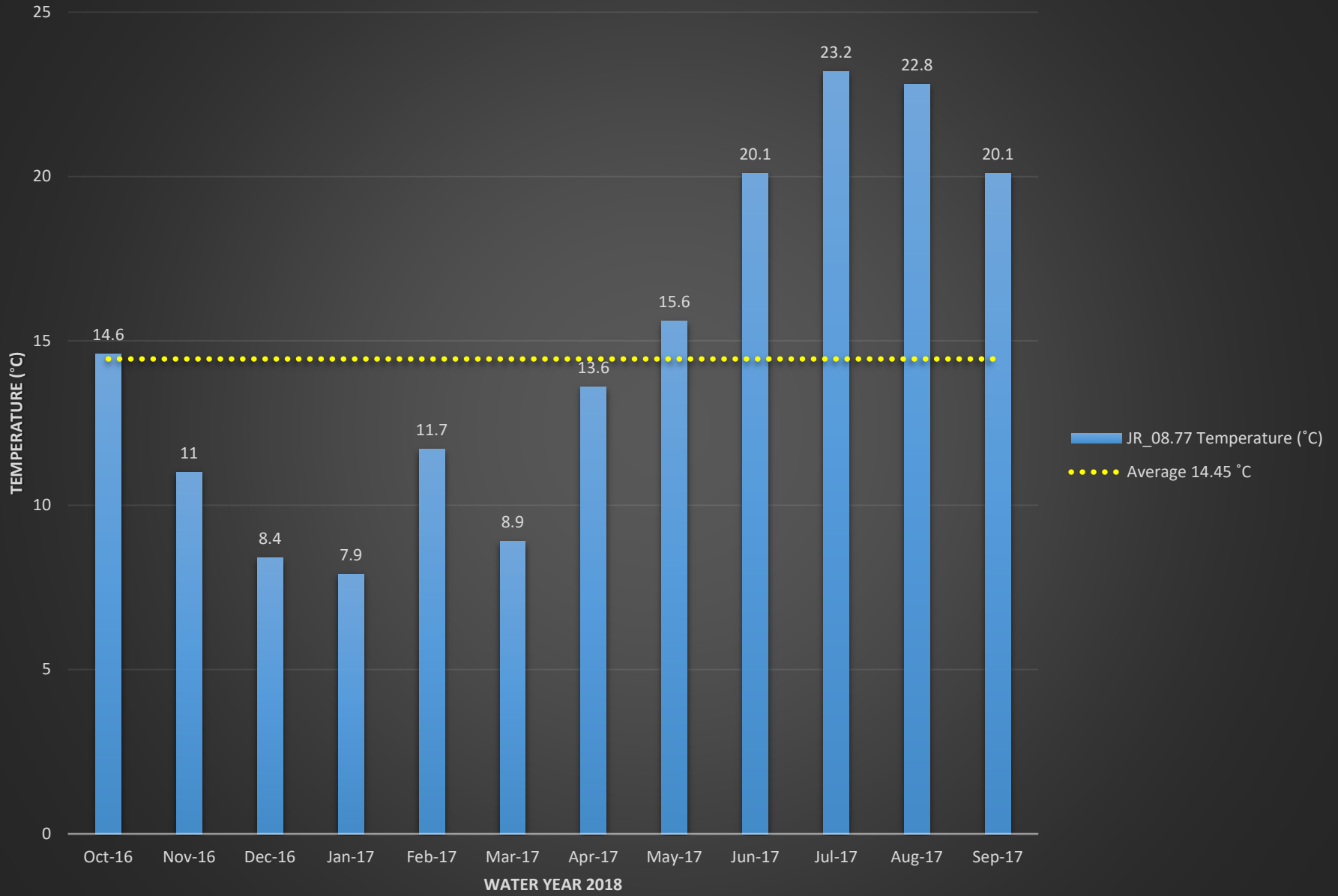
## *E. coli* & Field Parameter Graphs

Graphs begin on next page.

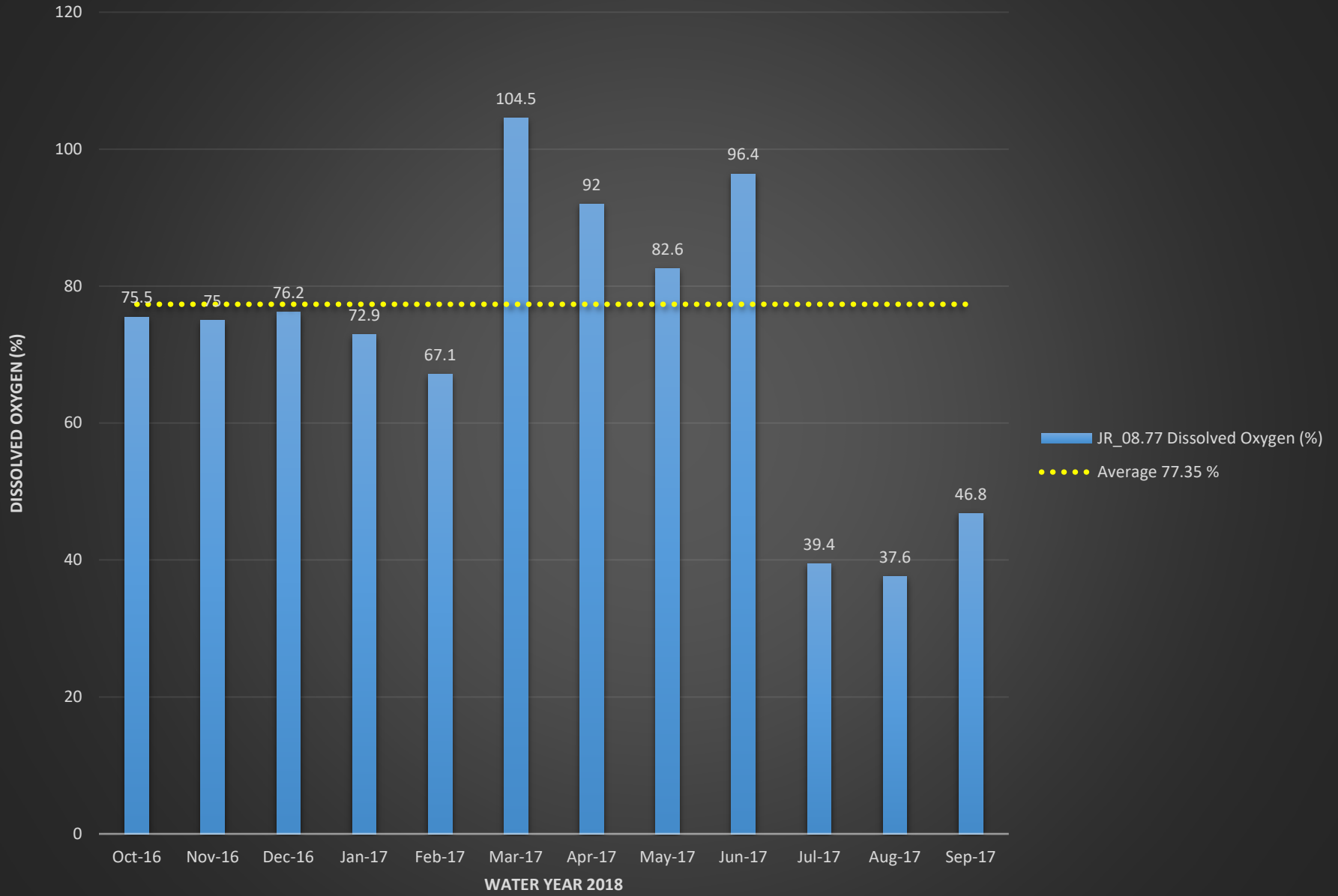
# JR\_08.77 E.coli (MPN)



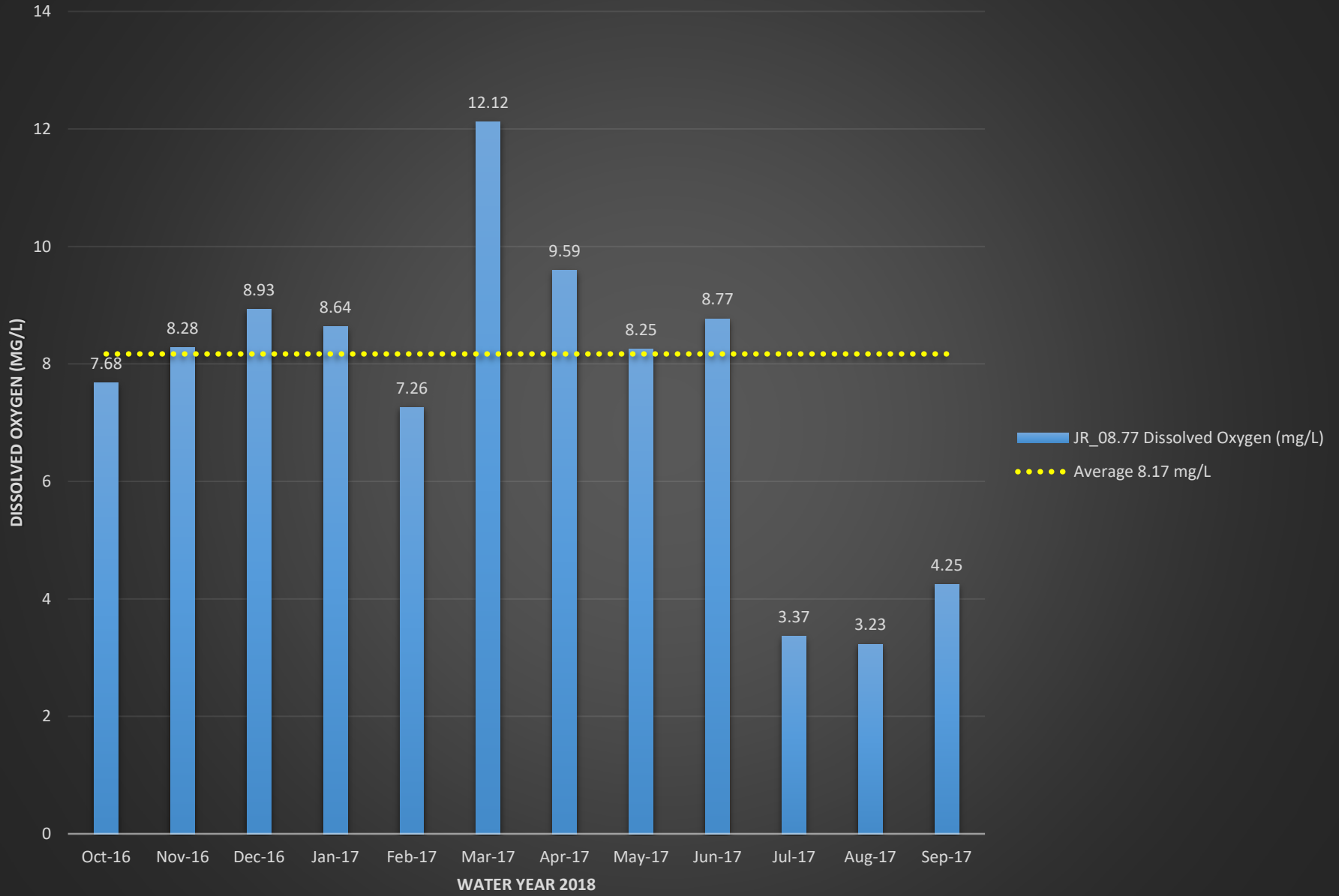
# JR\_08.77 Temperature (°C)



# JR\_08.77 Dissolved Oxygen (%)

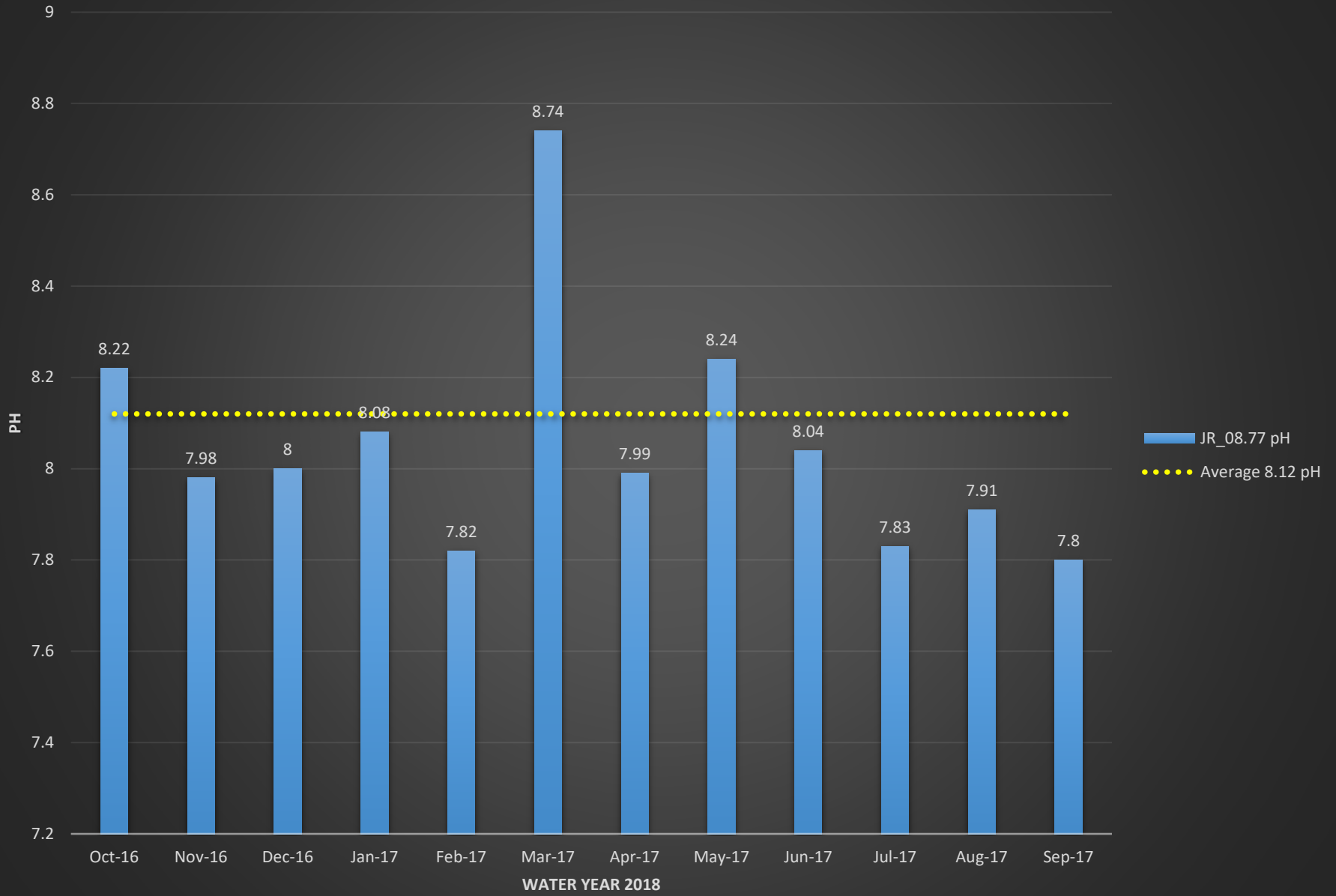


# JR\_08.77 Dissolved Oxygen (mg/L)

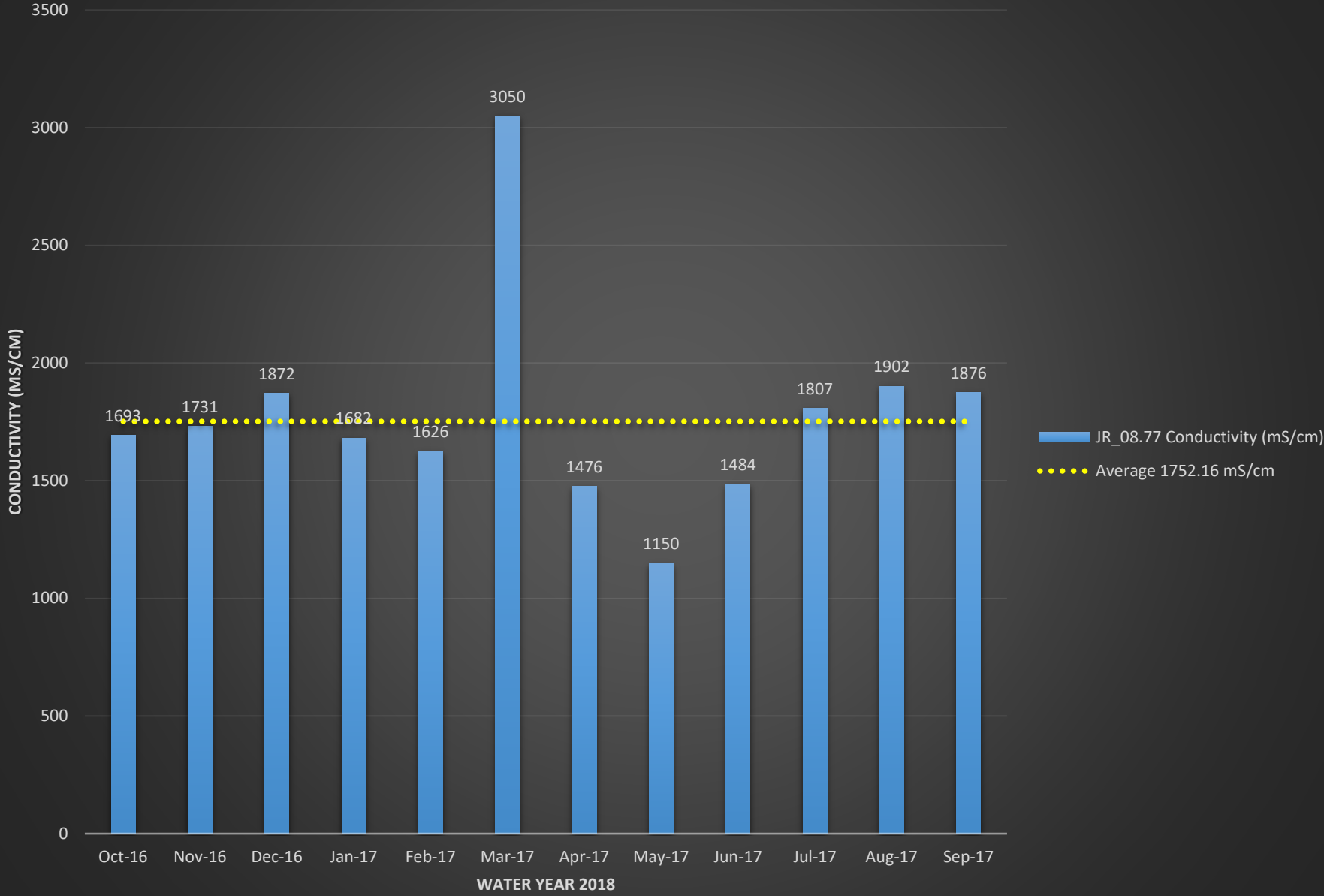




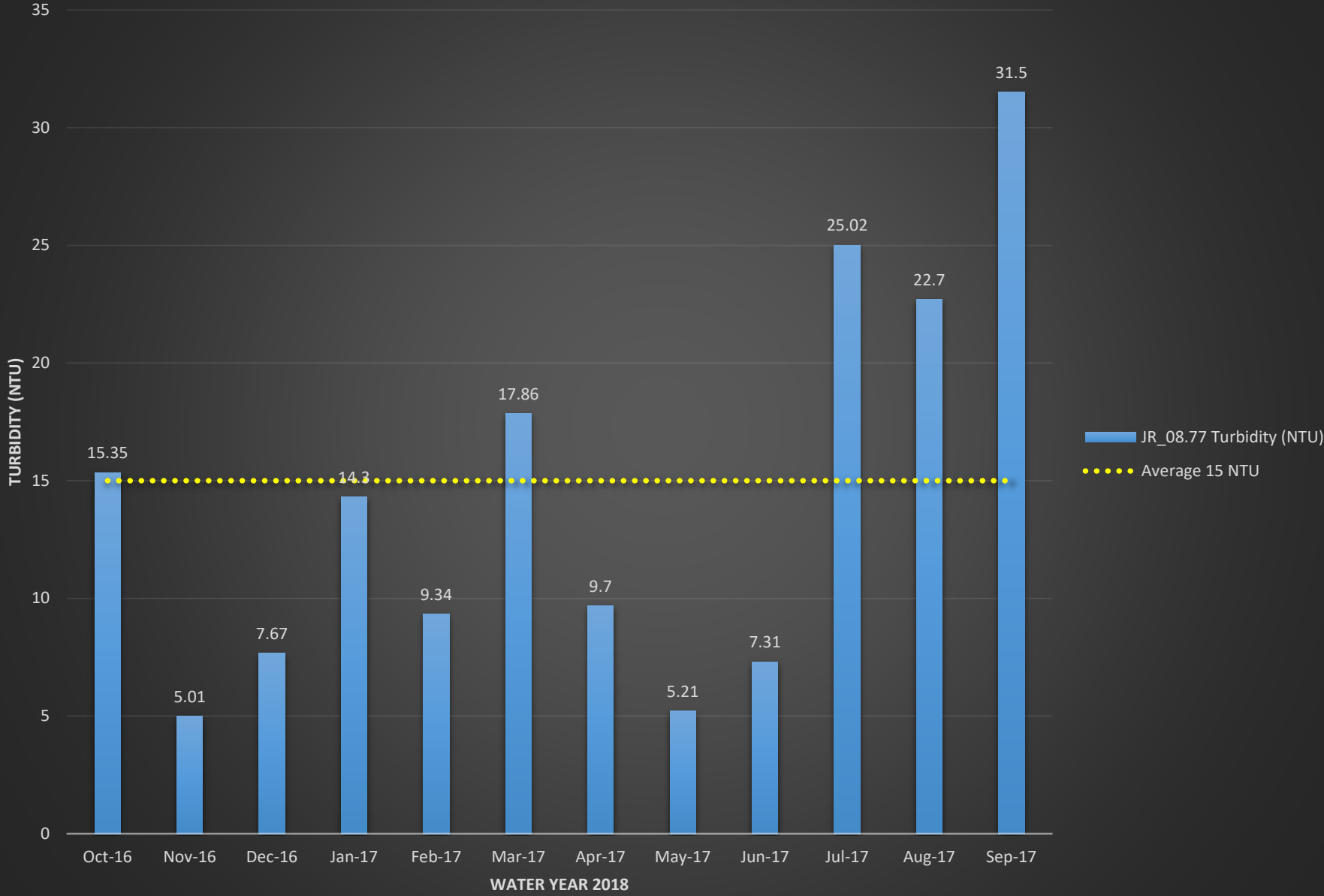
# JR\_08.77 pH



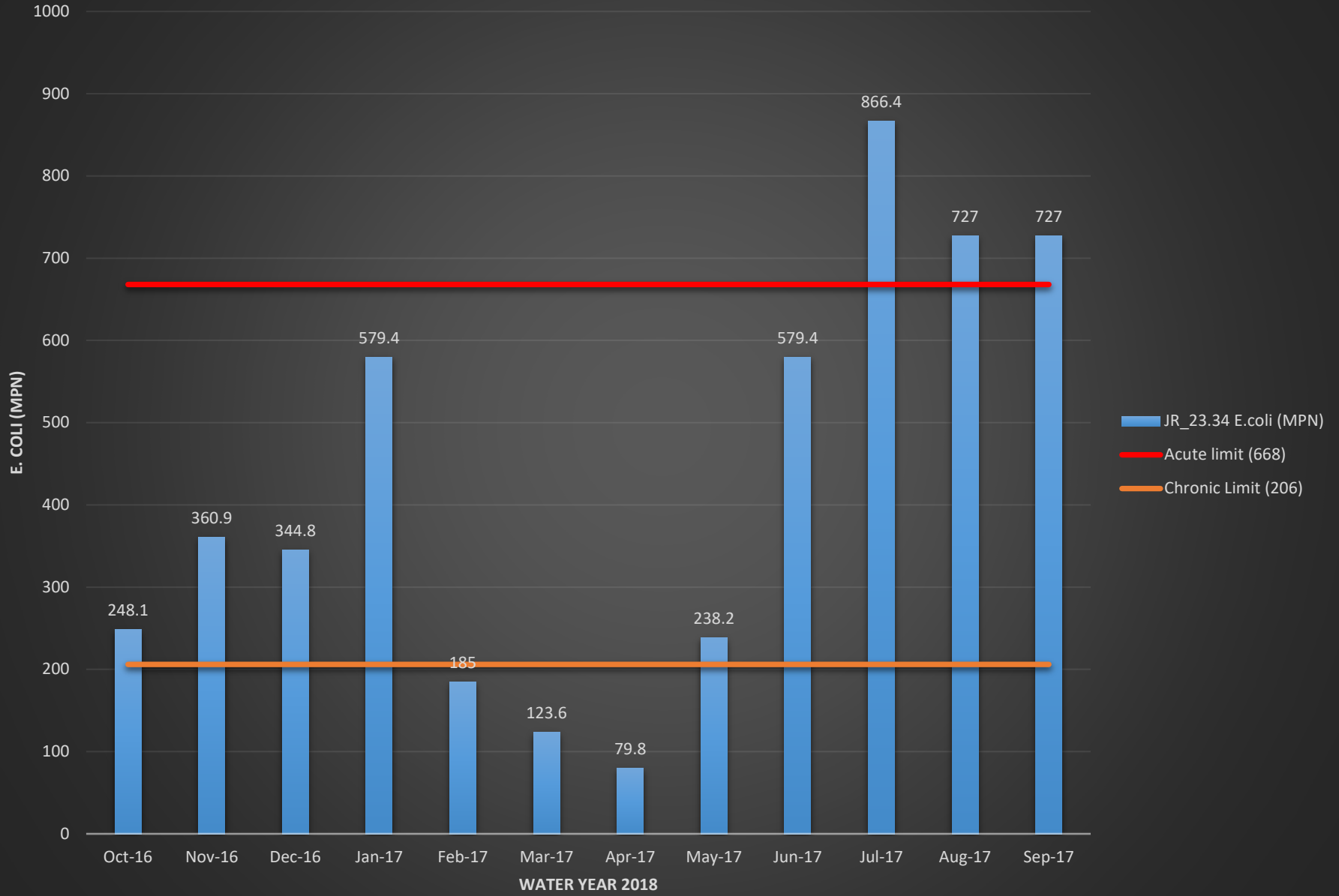
# JR\_08.77 Conductivity (mS/cm)



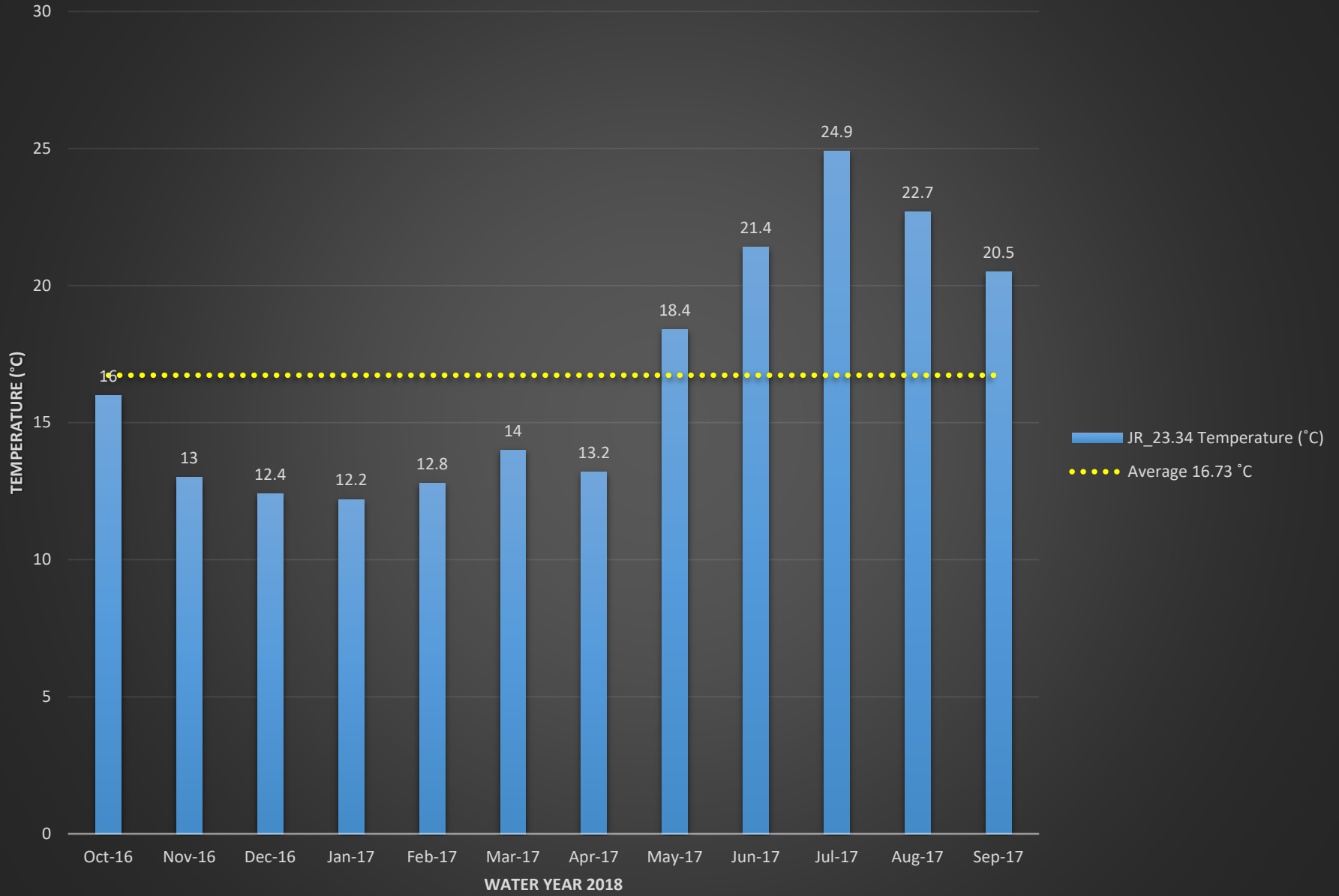
# JR\_08.77 Turbidity (NTU)



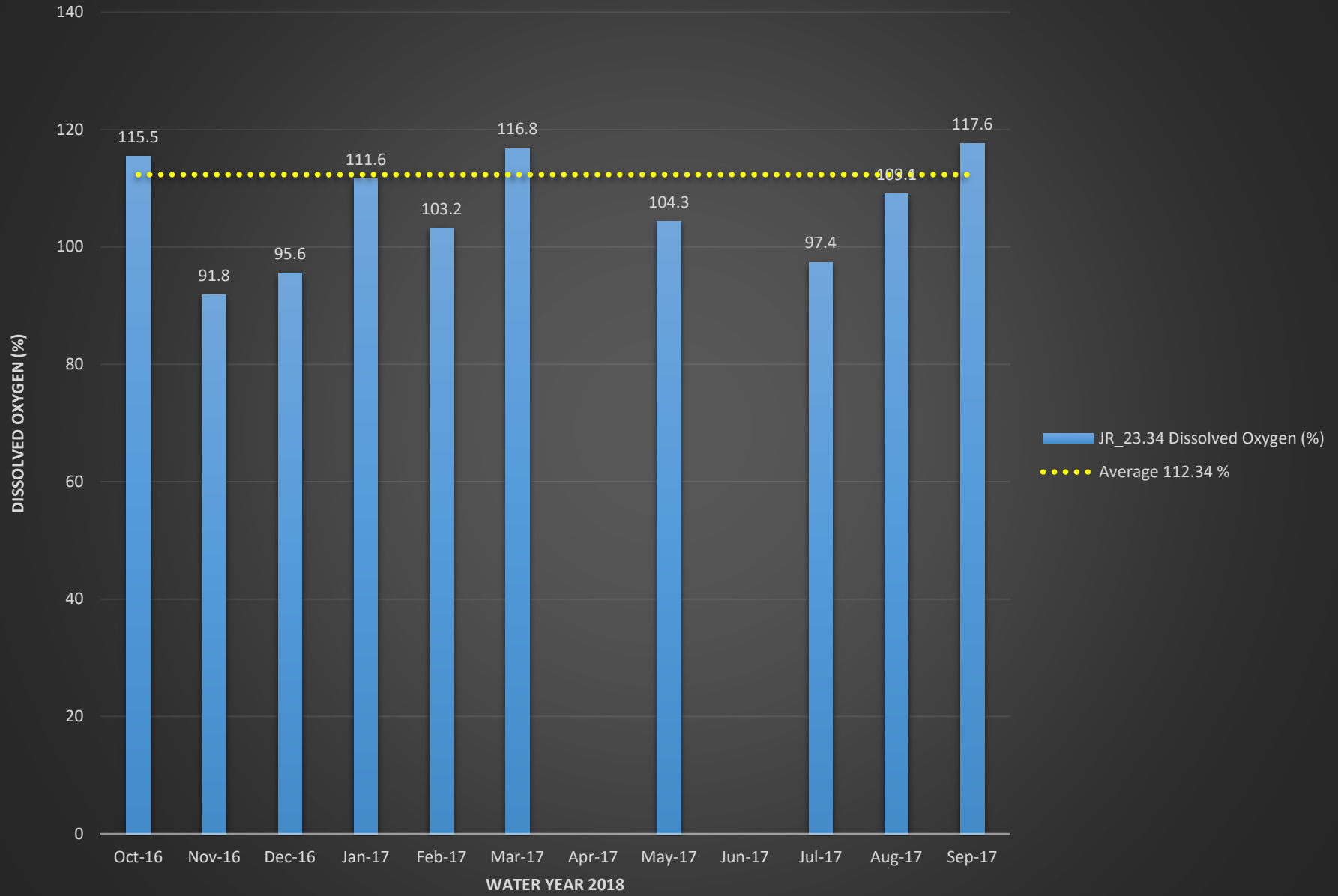
# JR\_23.34 E.coli (MPN)



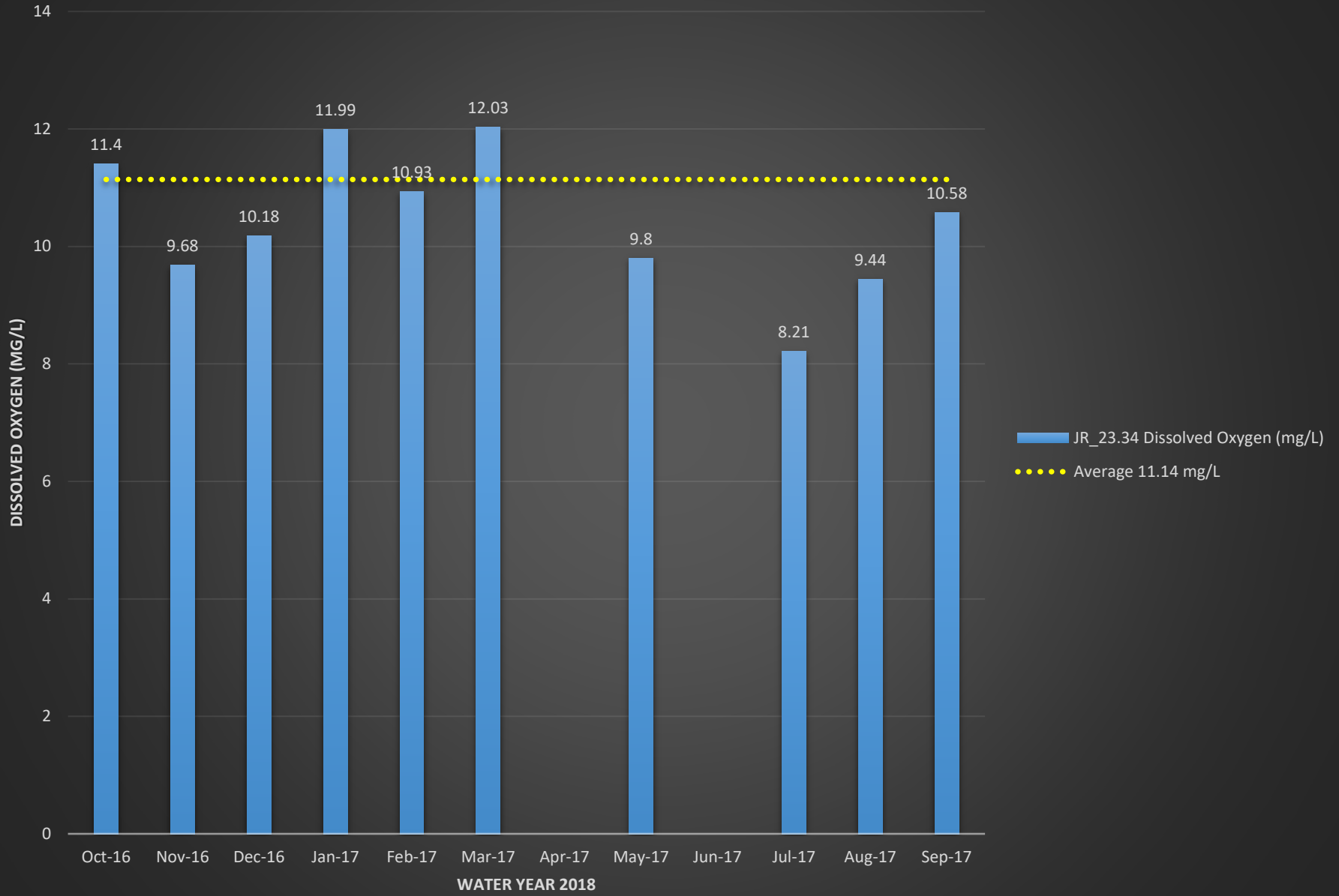
# JR\_23.34 Temperature (°C)



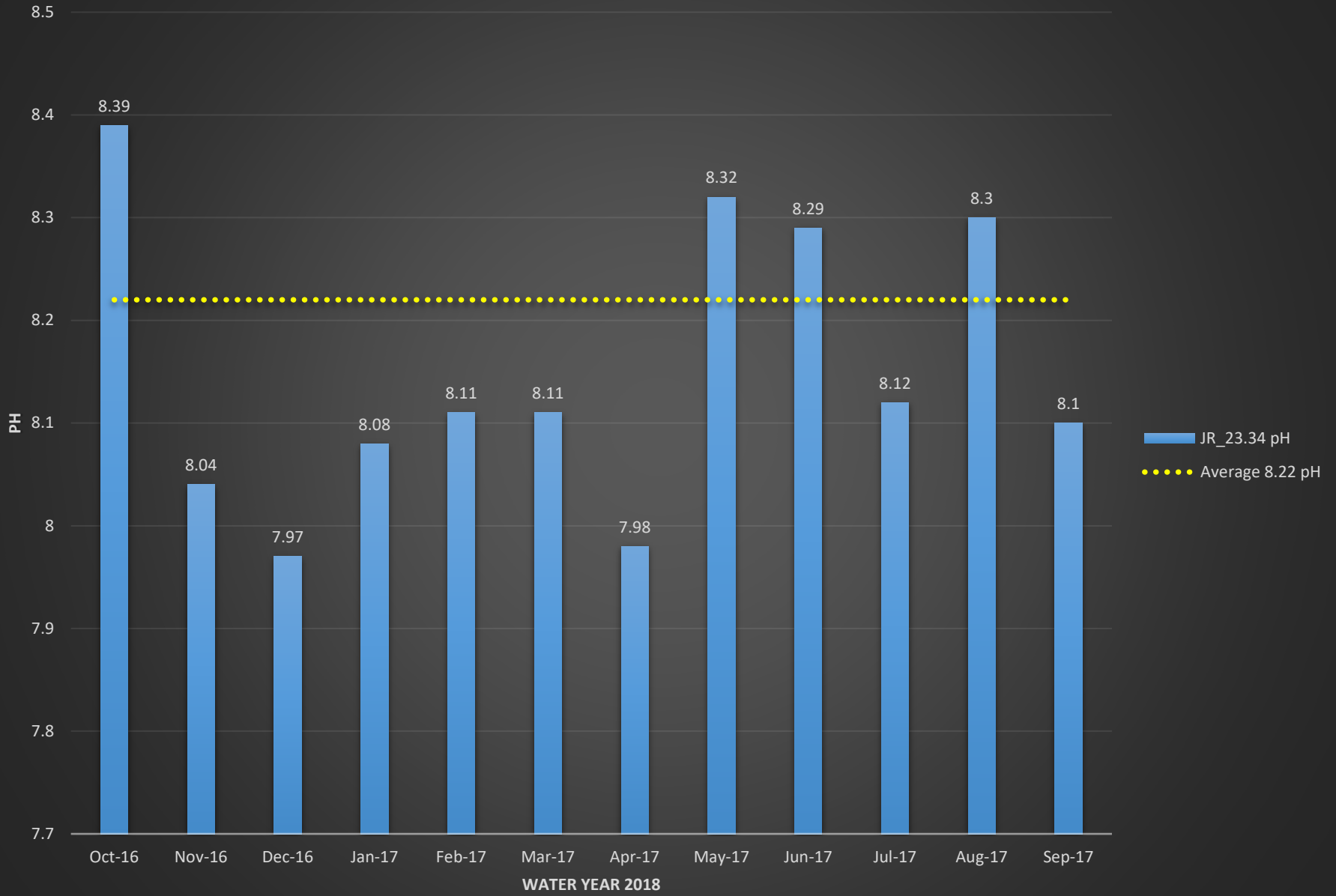
# JR\_23.34 Dissolved Oxygen (%)



# JR\_23.34 Dissolved Oxygen (mg/L)

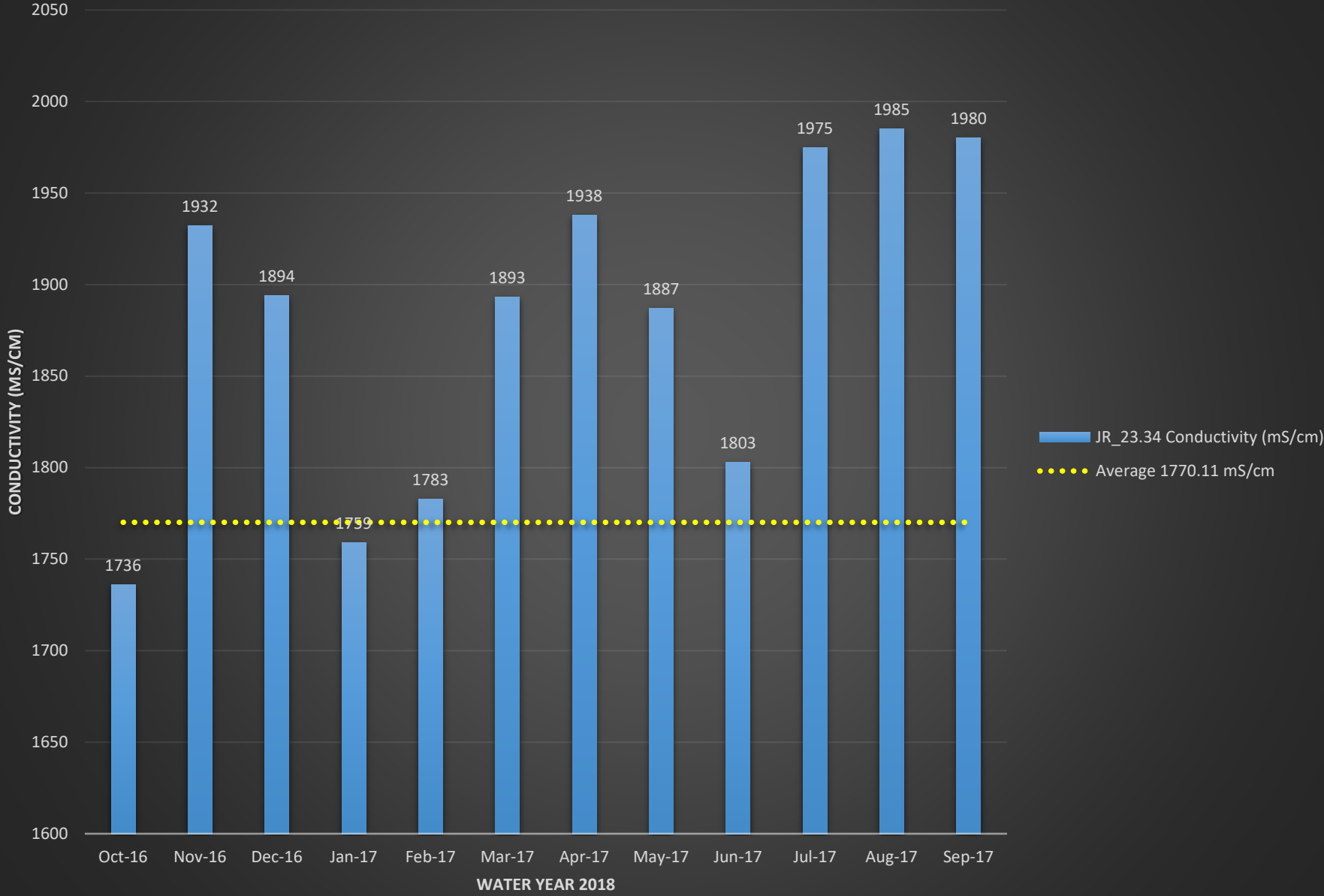


# JR\_23.34 pH

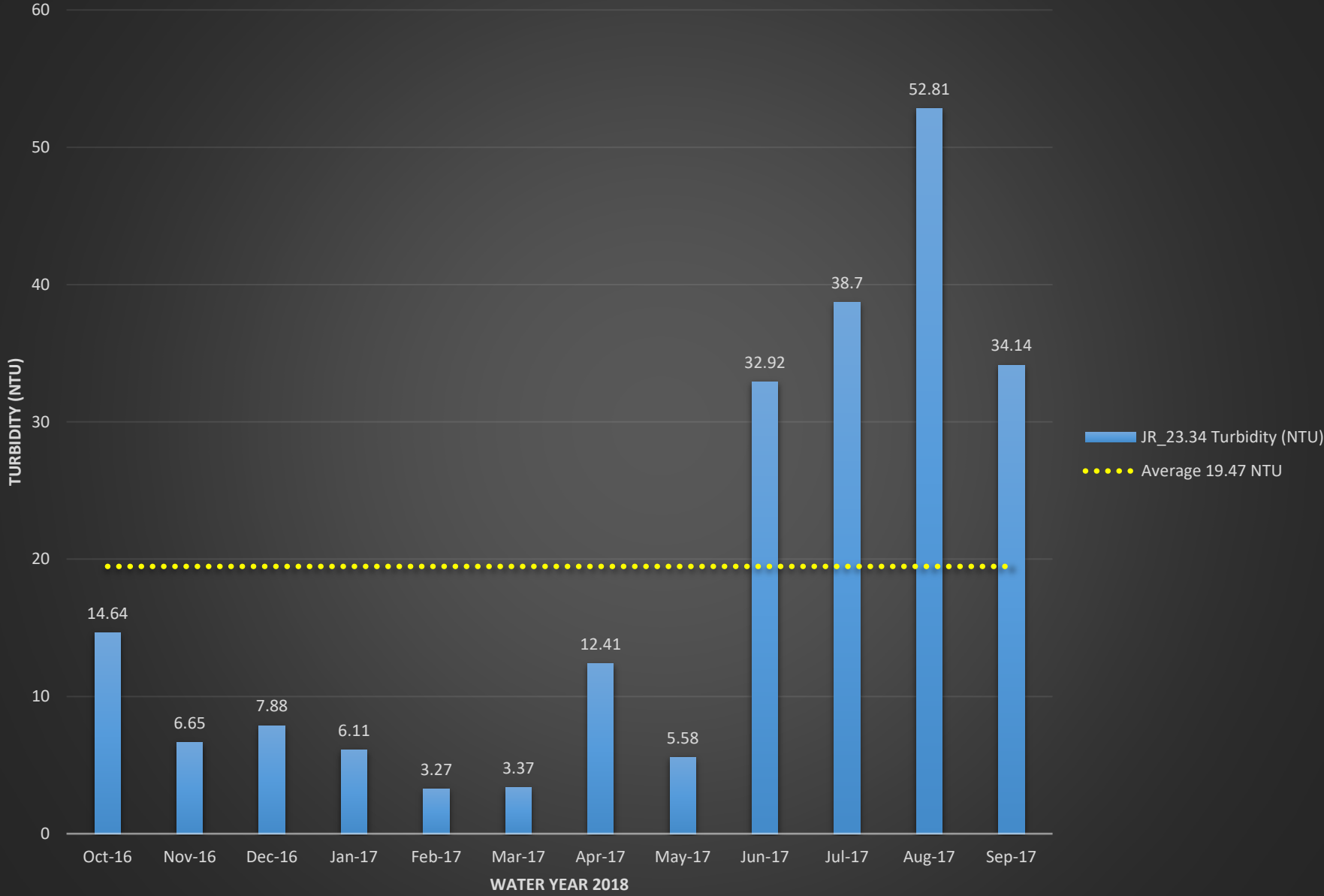




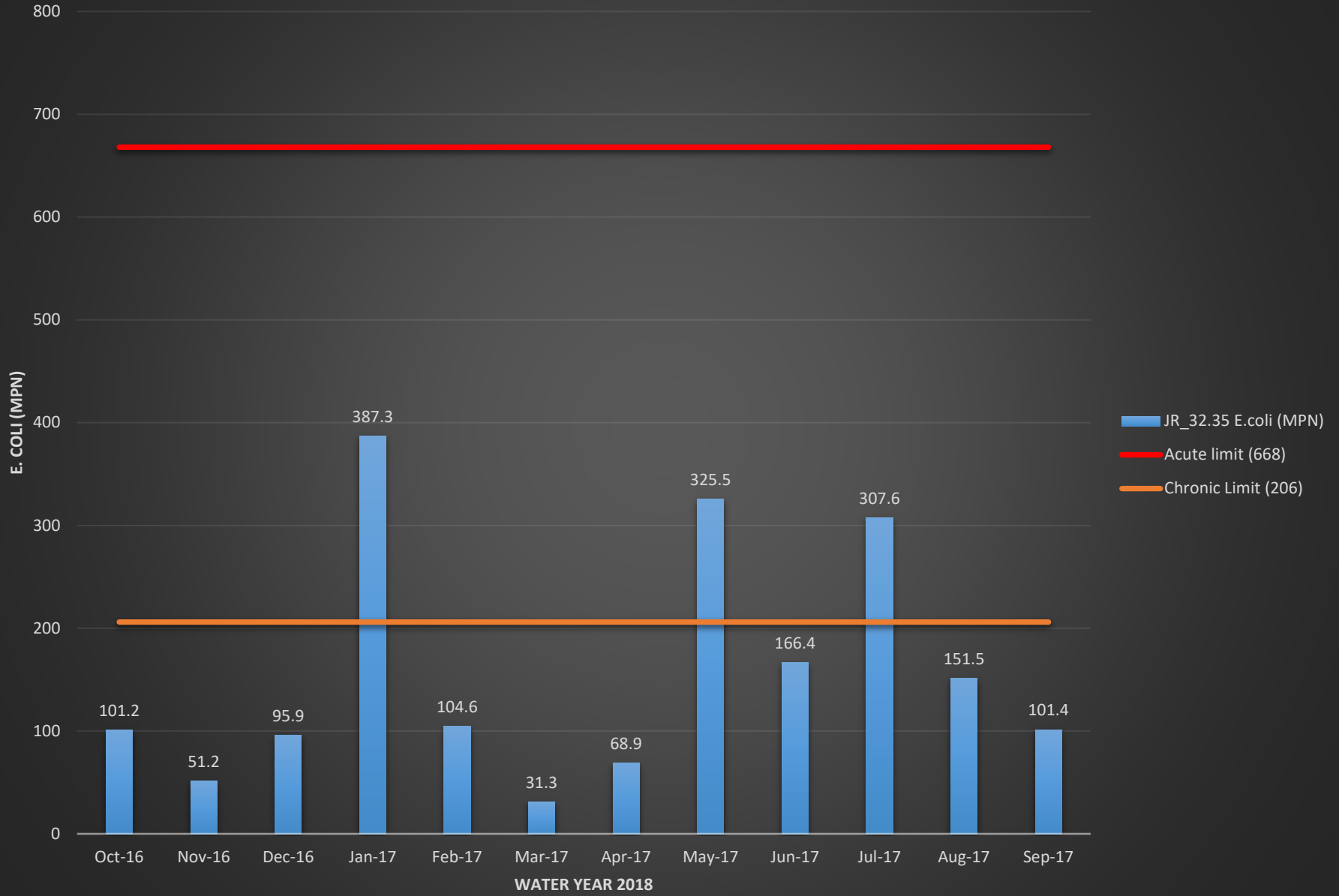
# JR\_23.34 Conductivity (mS/cm)



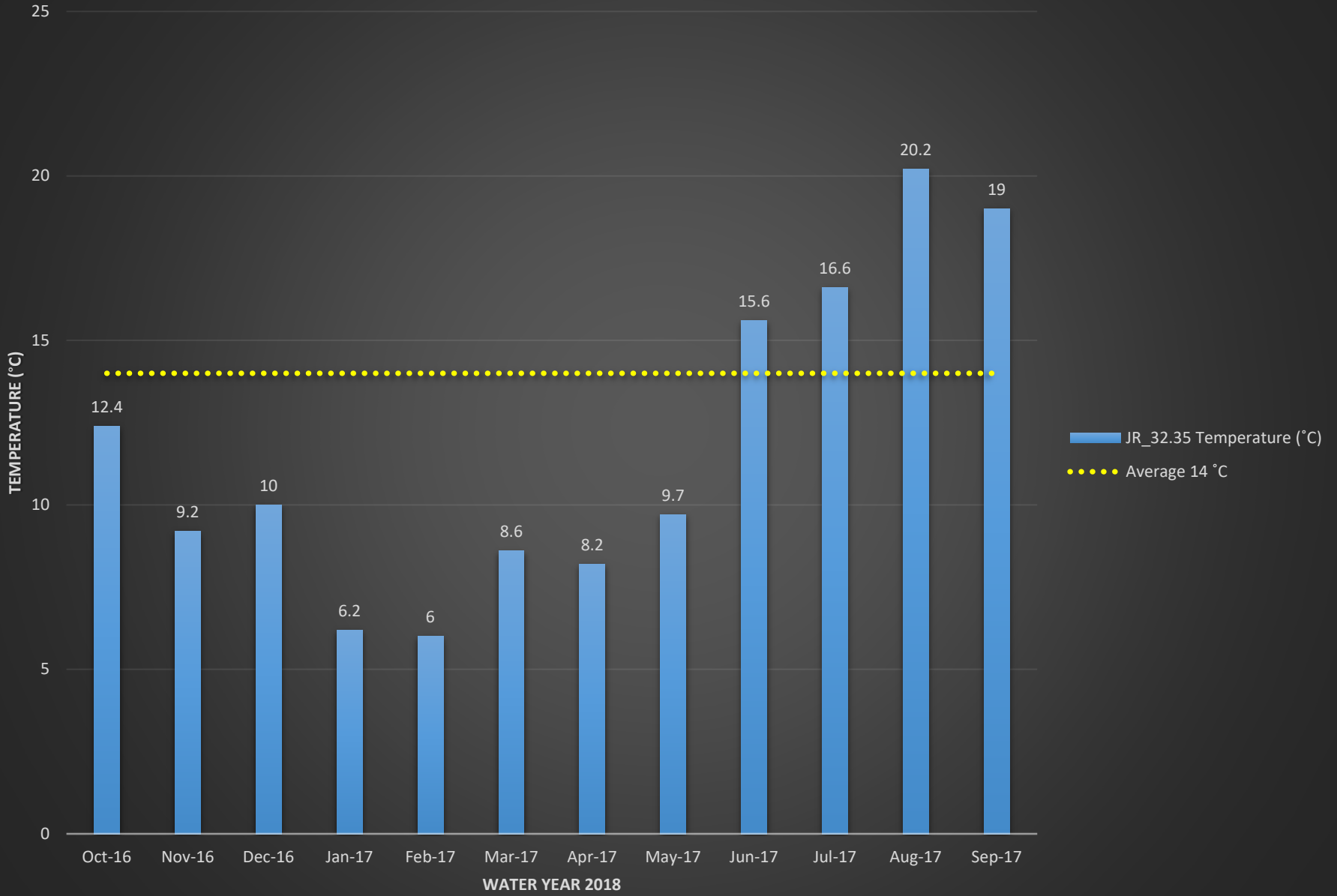
# JR\_23.34 Turbidity (NTU)



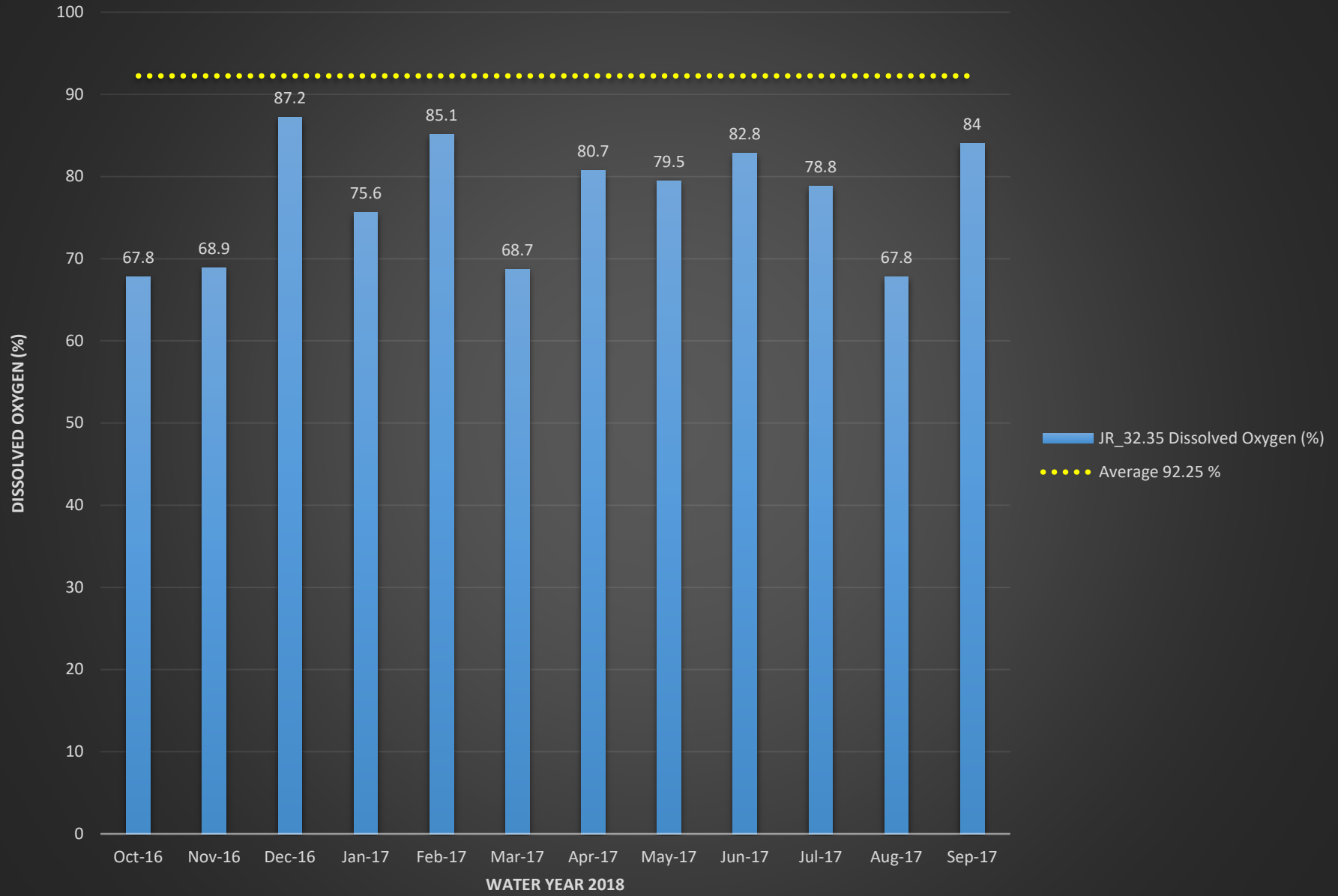
# JR\_32.35 E.coli (MPN)



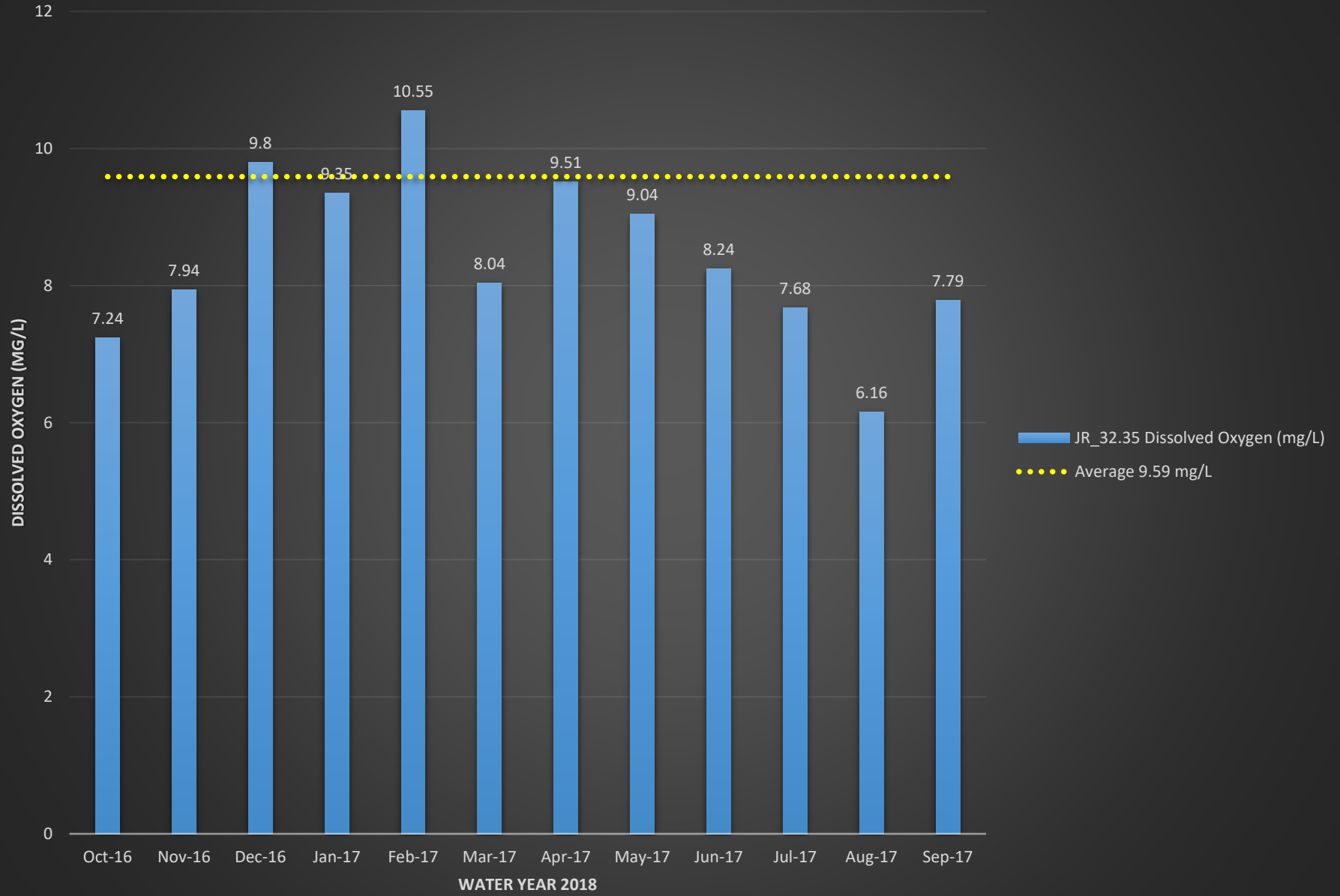
# JR\_32.35 Temperature (°C)



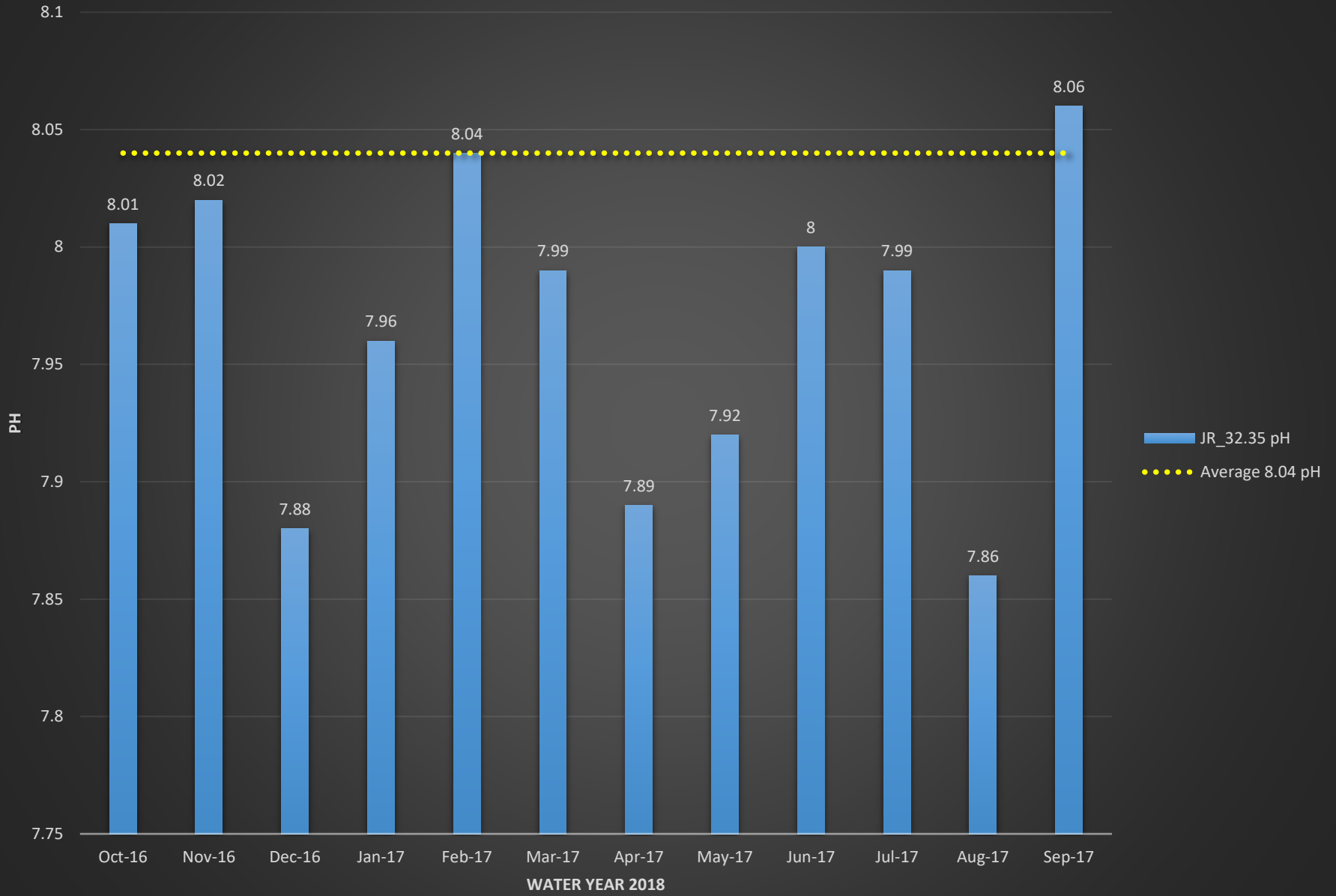
# JR\_32.35 Dissolved Oxygen (%)



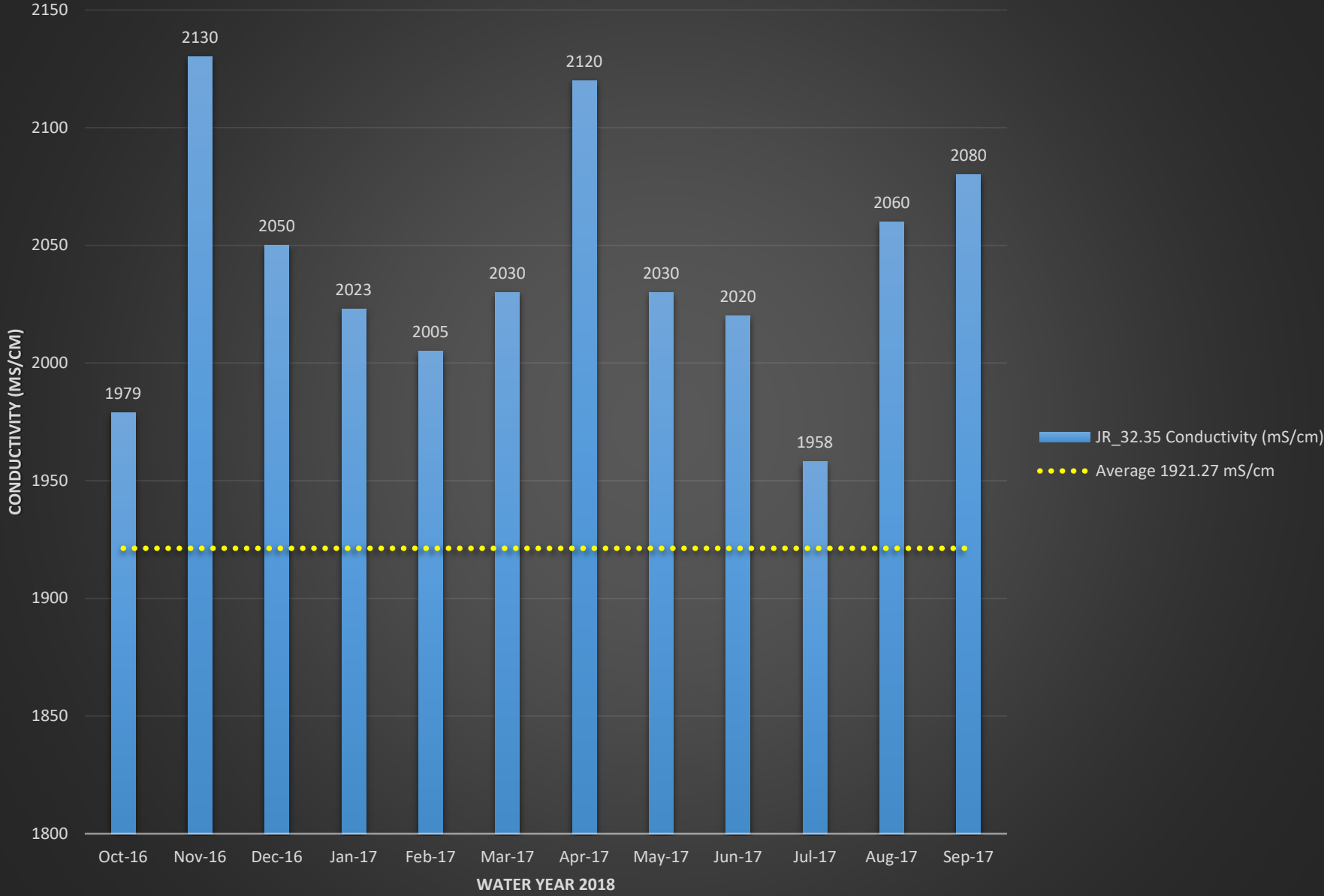
# JR\_32.35 Dissolved Oxygen (mg/L)



# JR\_32.35 pH

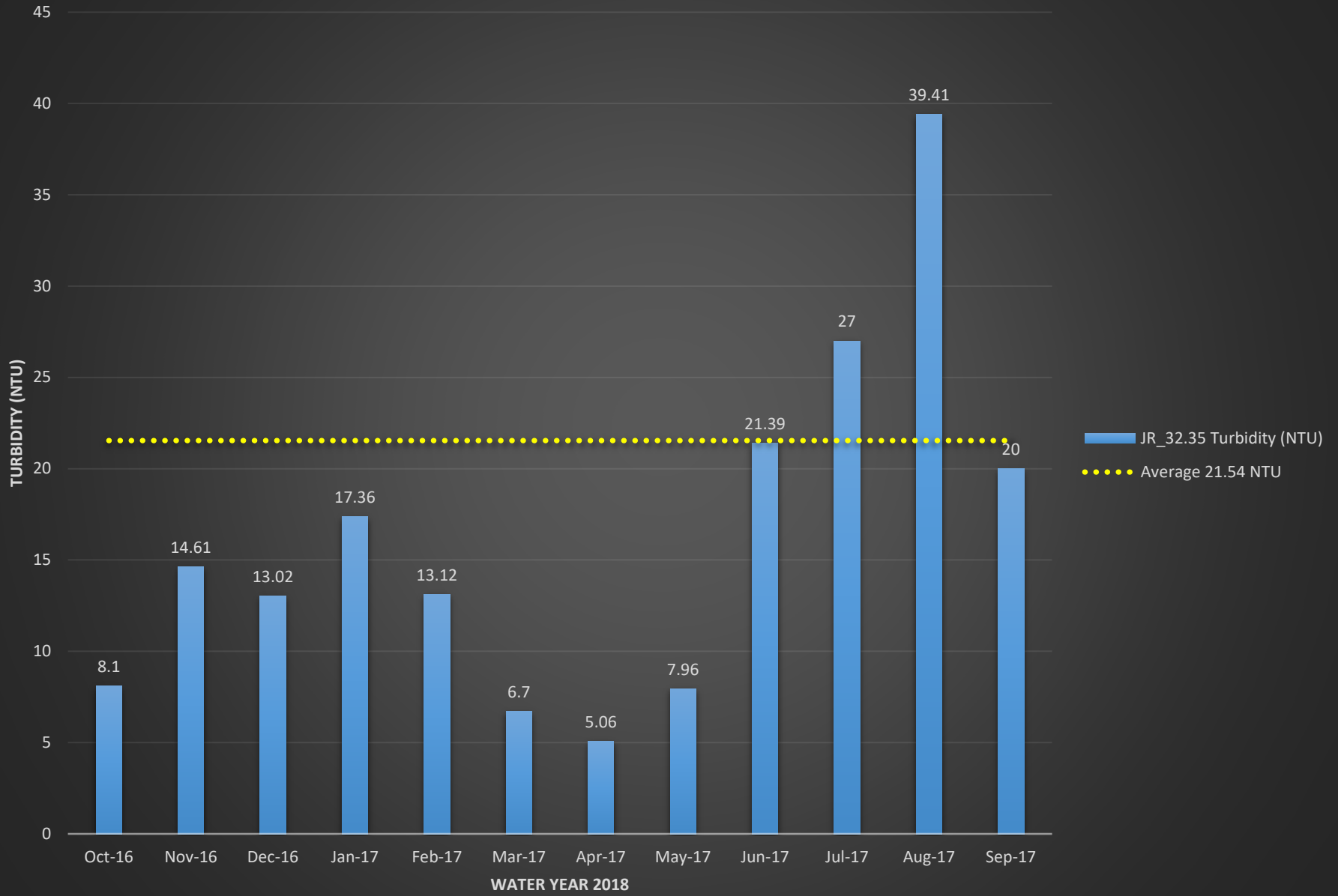


# JR\_32.35 Conductivity (mS/cm)



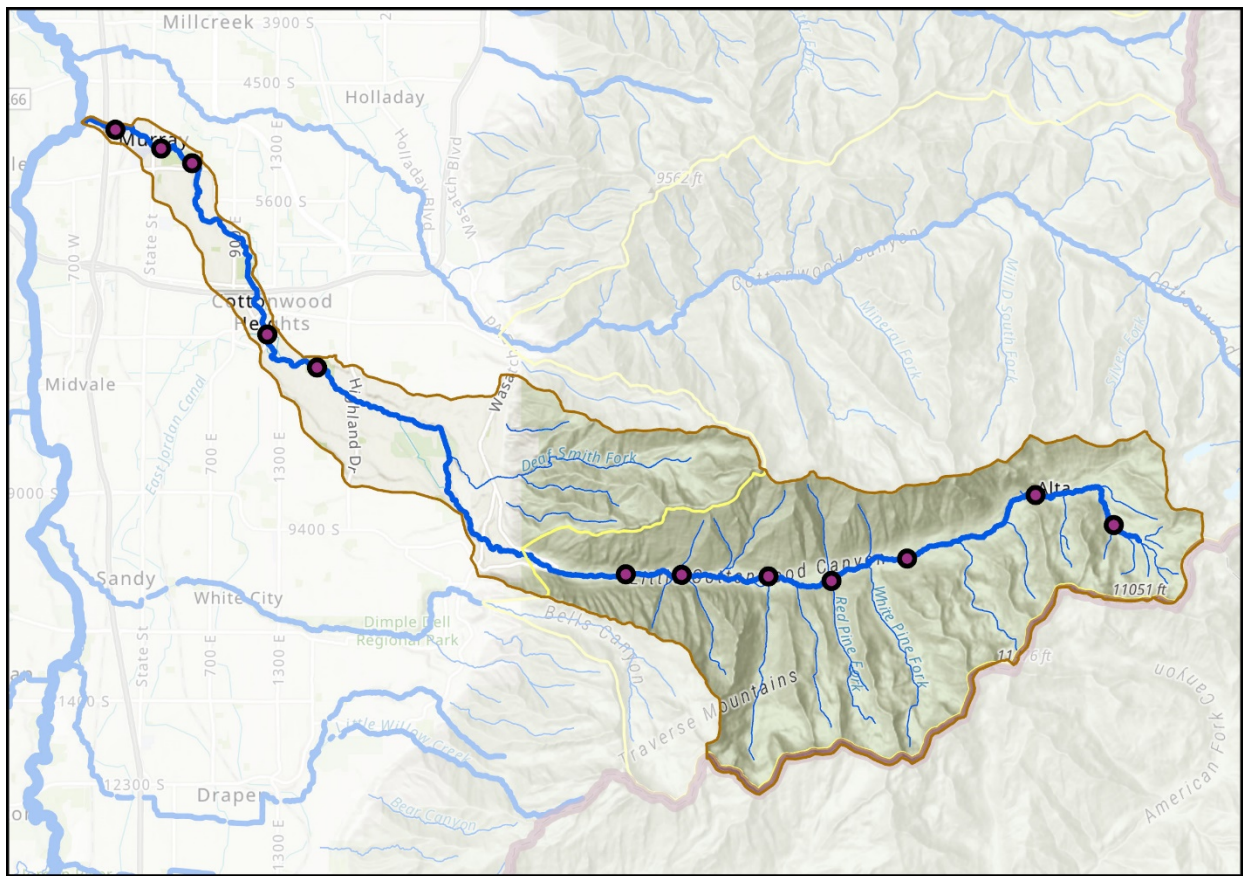


# JR\_32.35 Turbidity (NTU)



# LITTLE COTTONWOOD CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



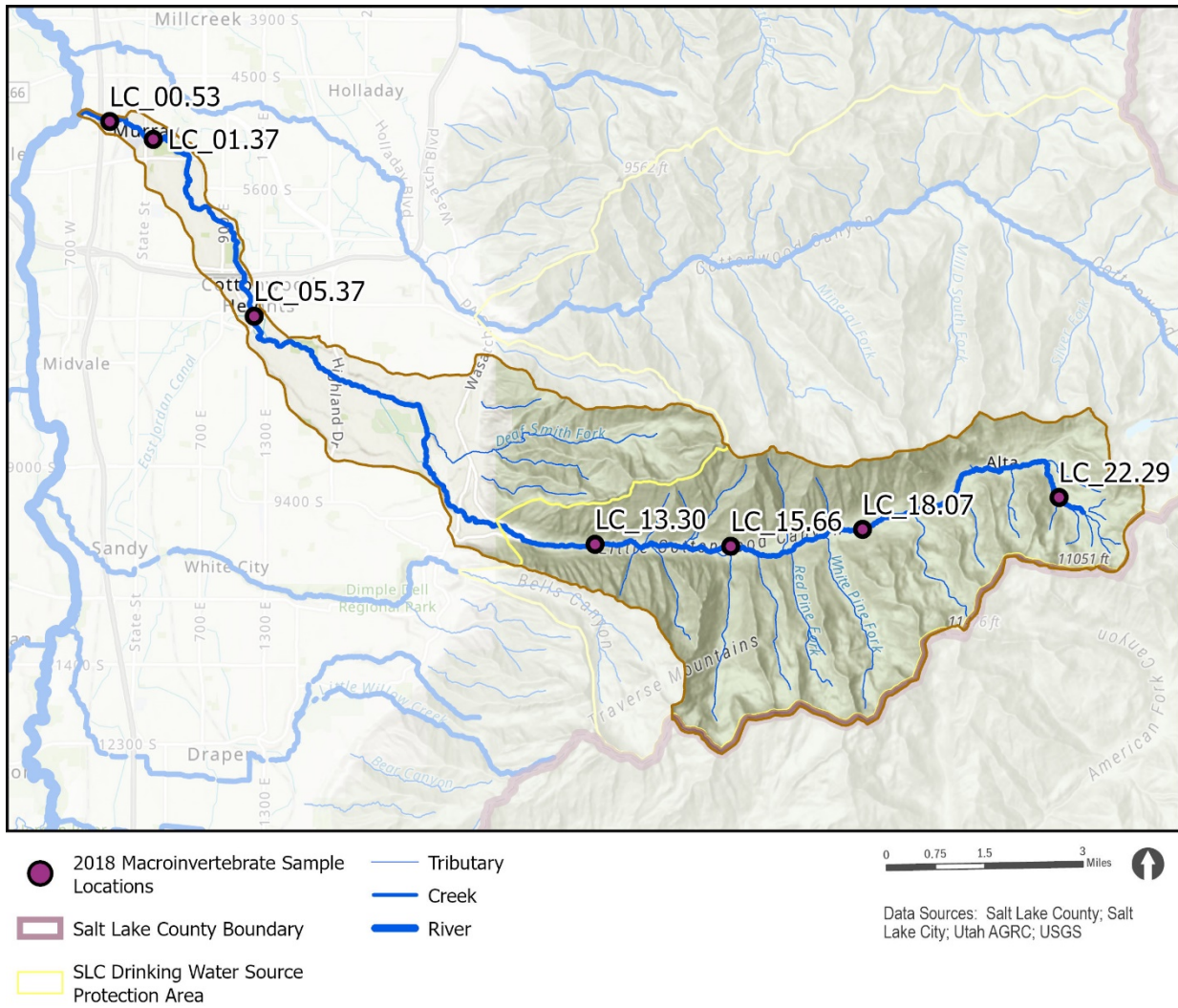
- 2018 Sample Locations
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area

- Tributary
- Creek
- River



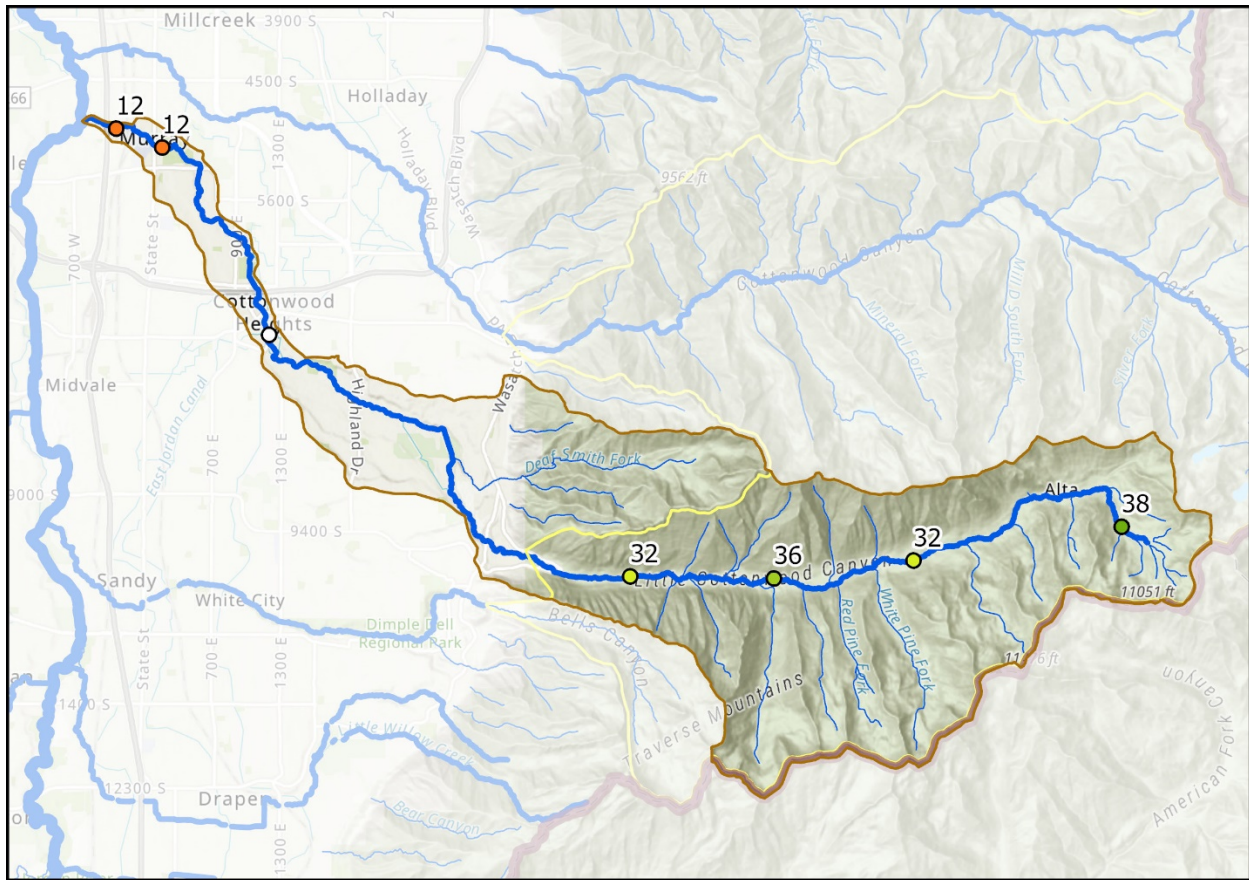
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

# Subwatershed Map with Macroinvertebrate Sample Sites





# Macroinvertebrate Karr-BIBI Results



2018 Macroinvertebrate  
Karr BIBI

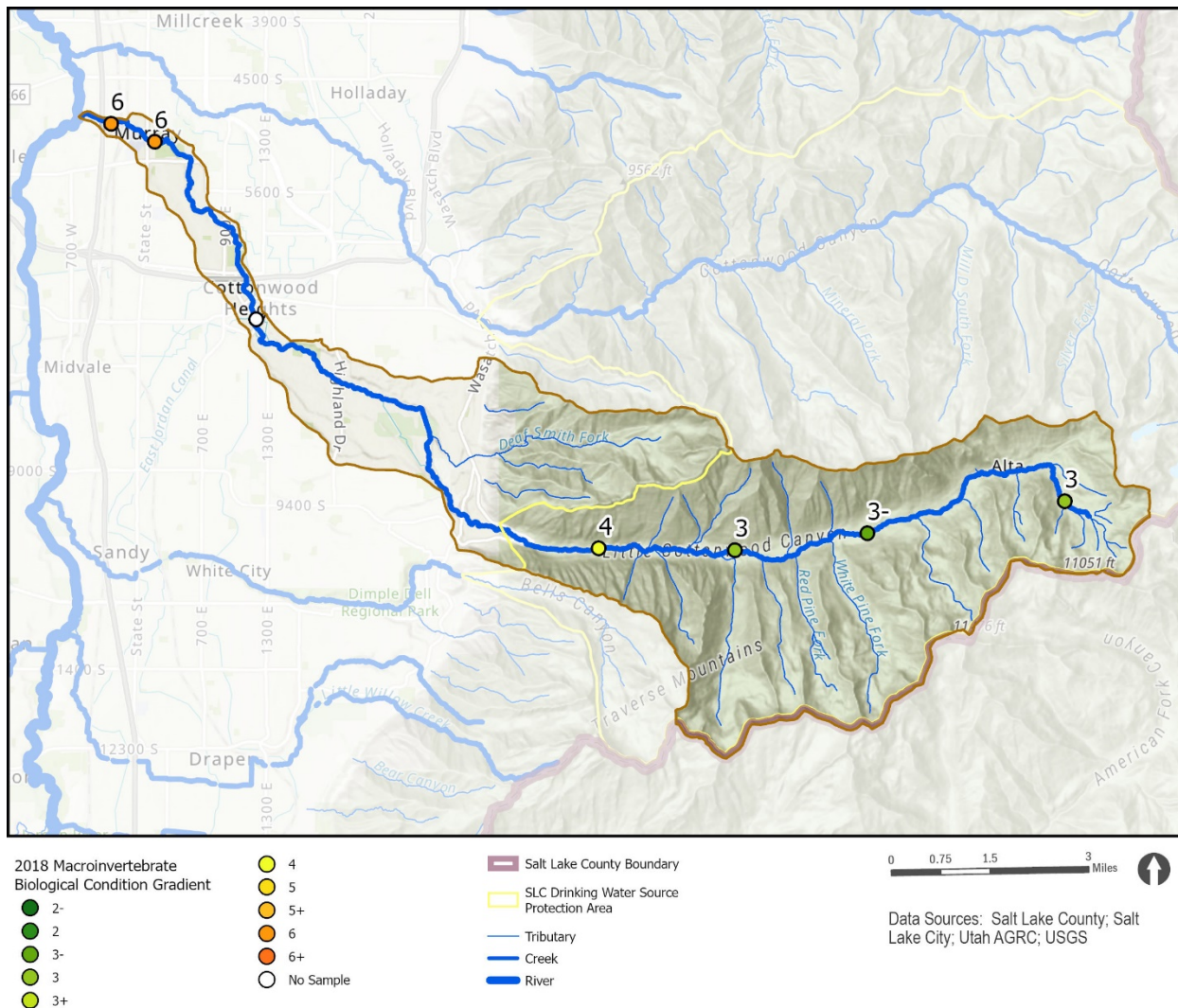
- ≤10
- ≤12
- ≤24
- ≤28
- ≤32
- ≤36
- ≤40
- ≤44
- ≤48
- No Sample

- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River

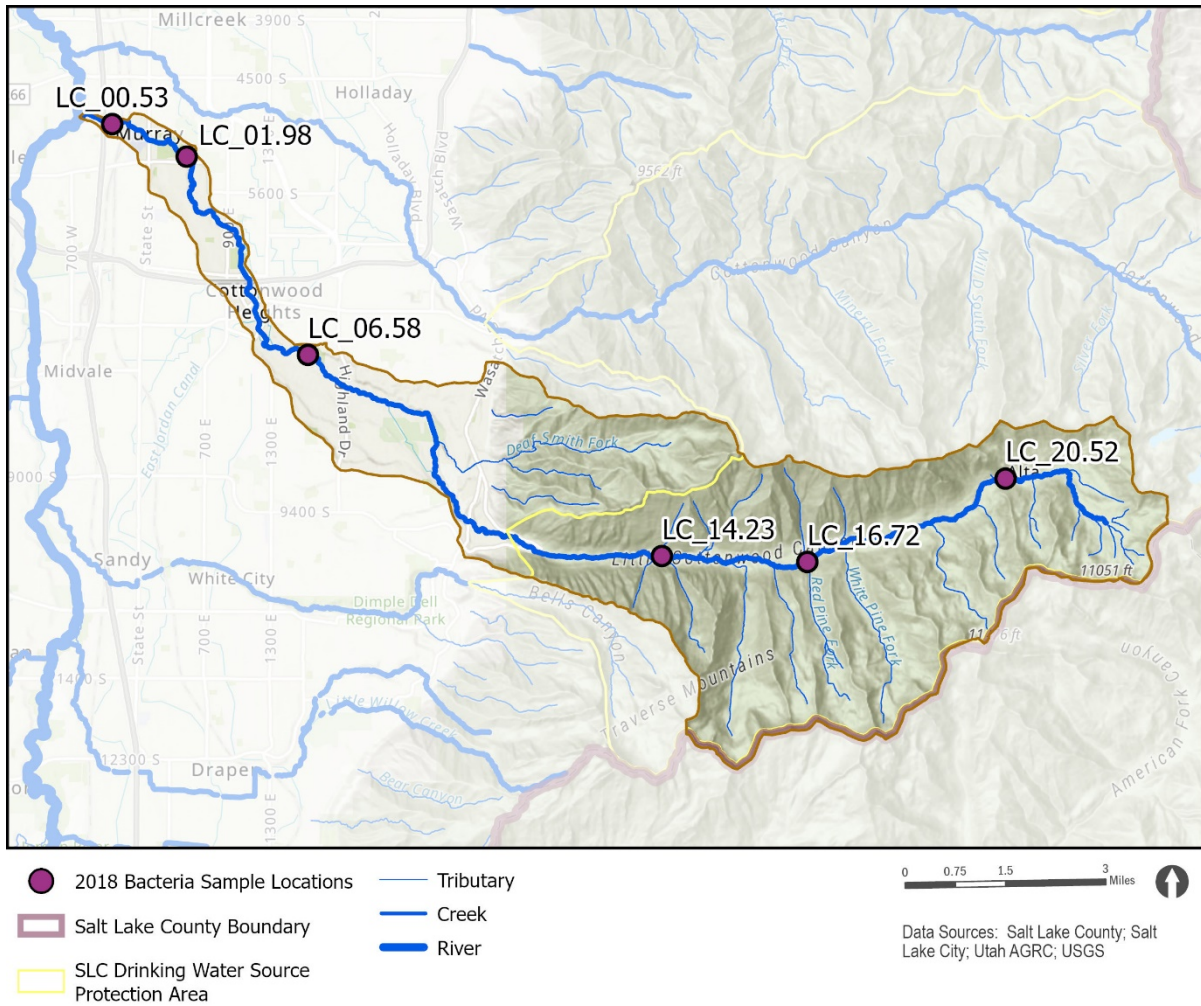


Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

# Macroinvertebrate Biological Condition Gradient (BCG) Results



## Subwatershed Map with Bacteria Sample Sites

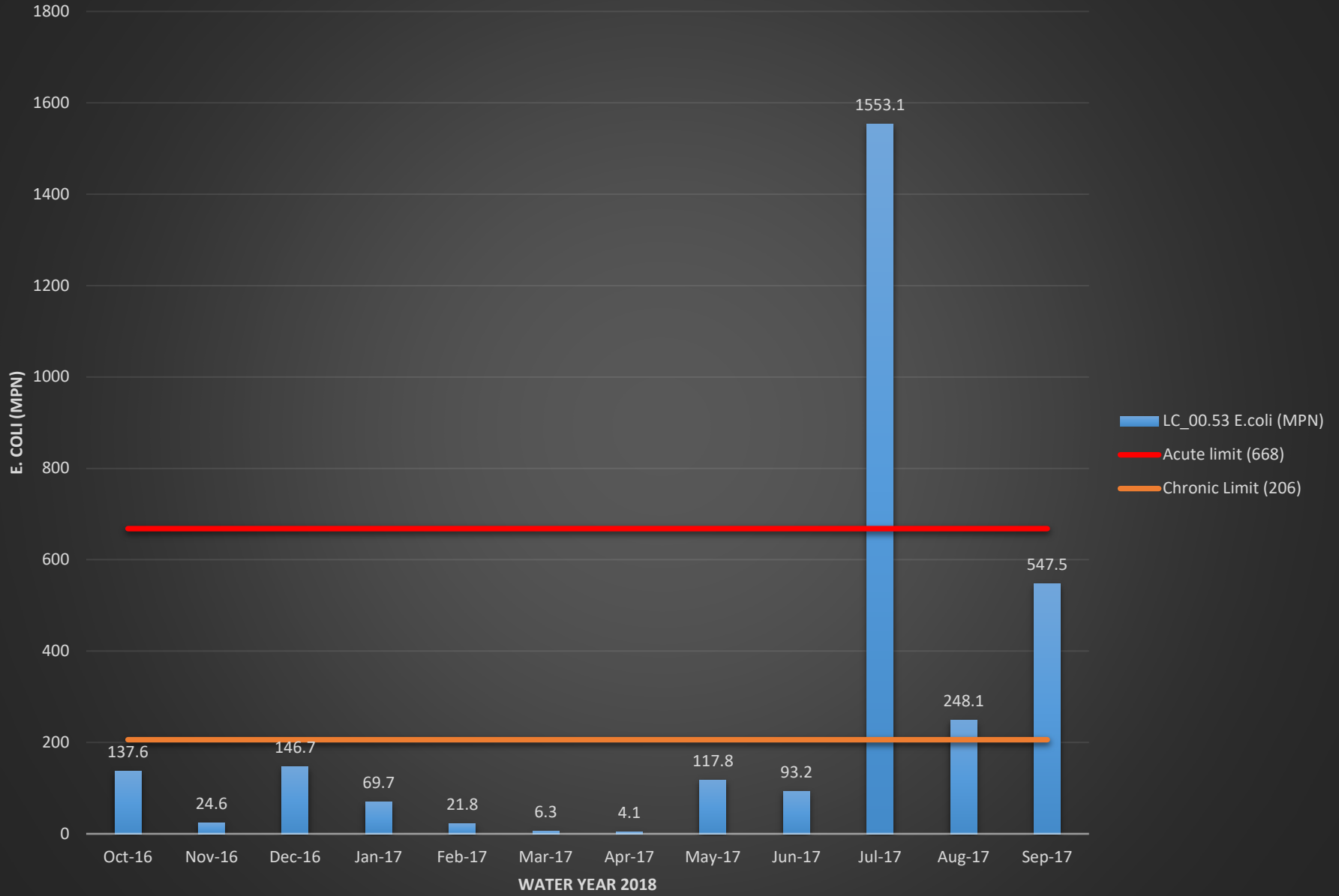


## *E. coli* & Field Parameter Graphs

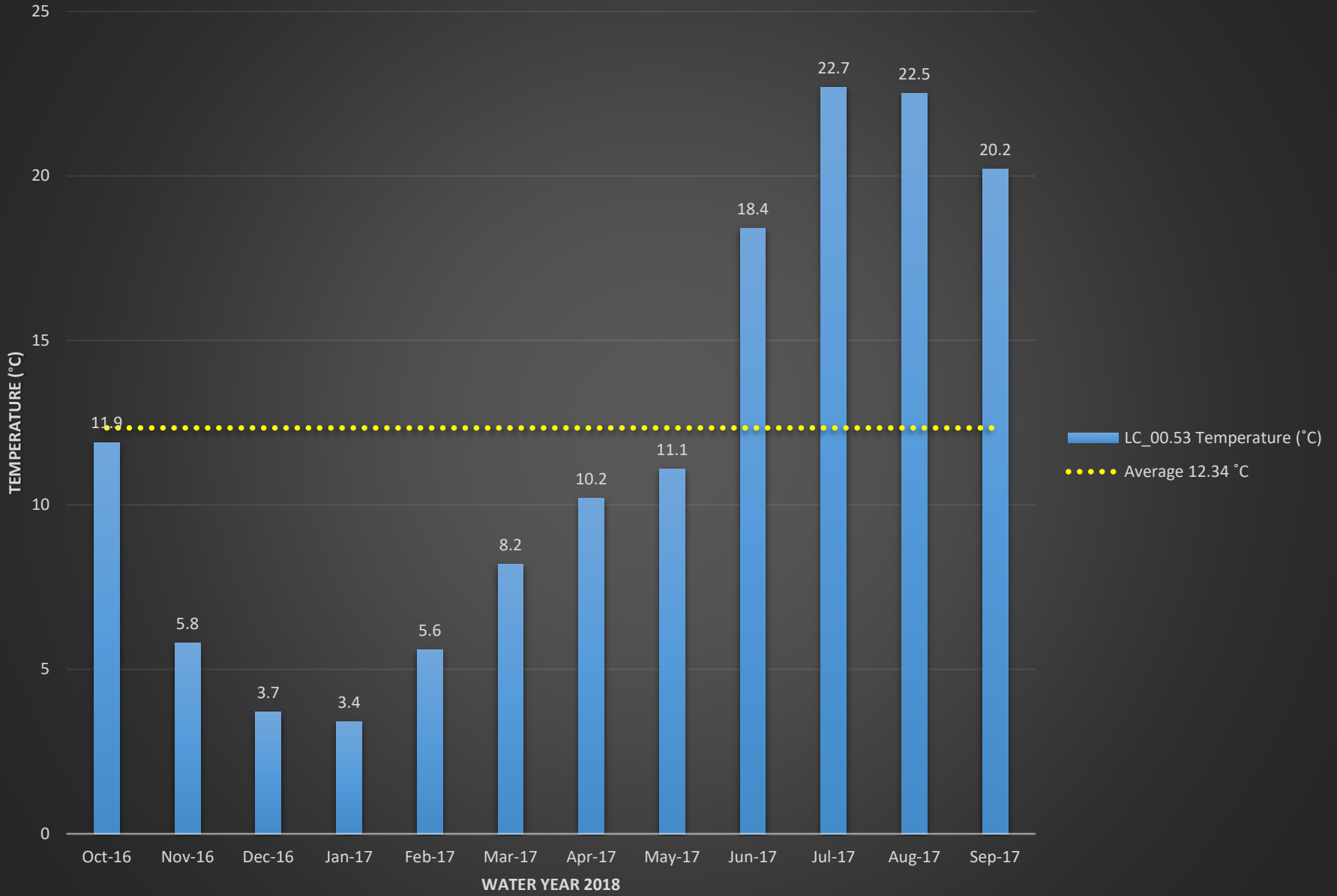
Graphs begin on next page...



# LC\_00.53 E.coli (MPN)

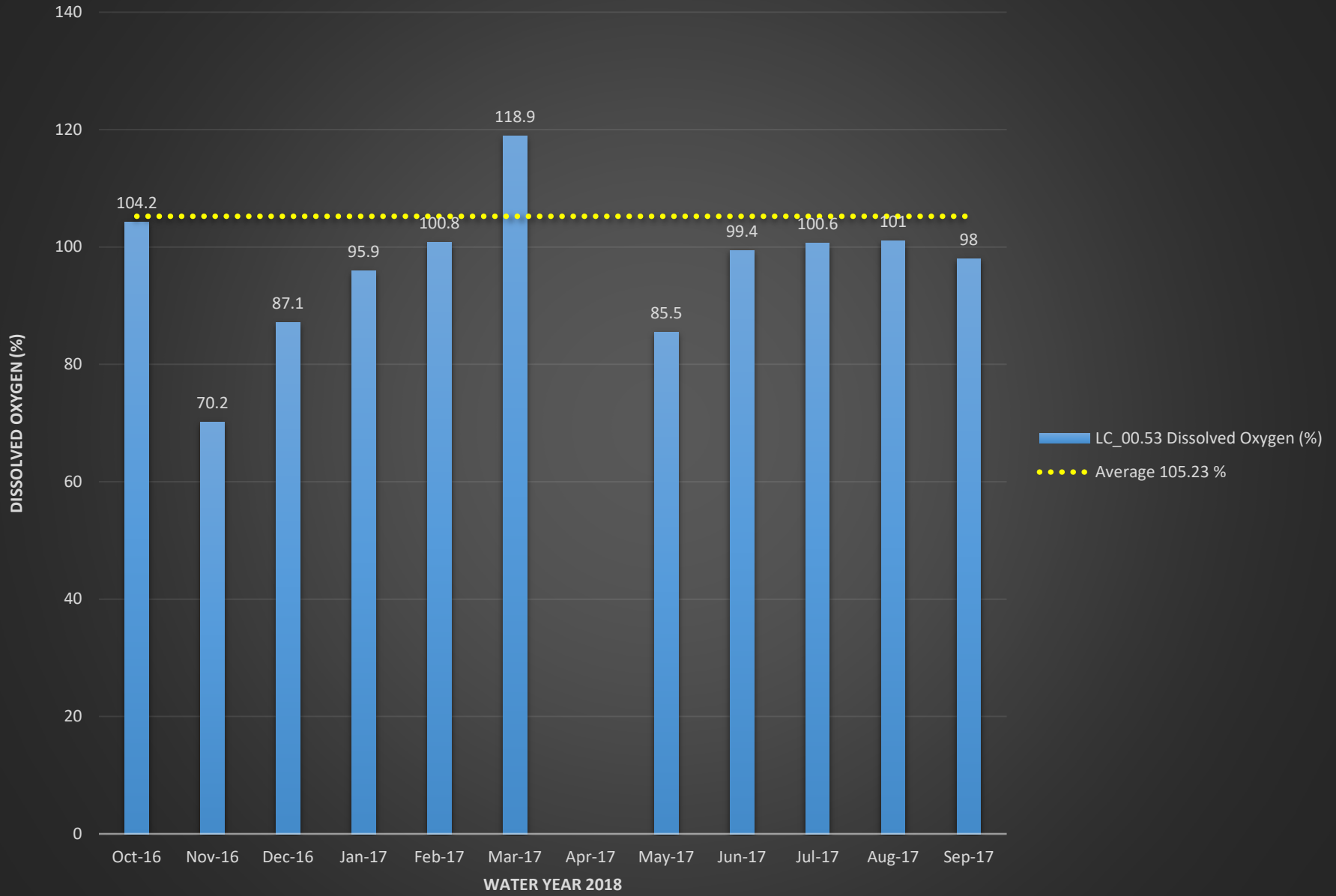


# LC\_00.53 Temperature (°C)

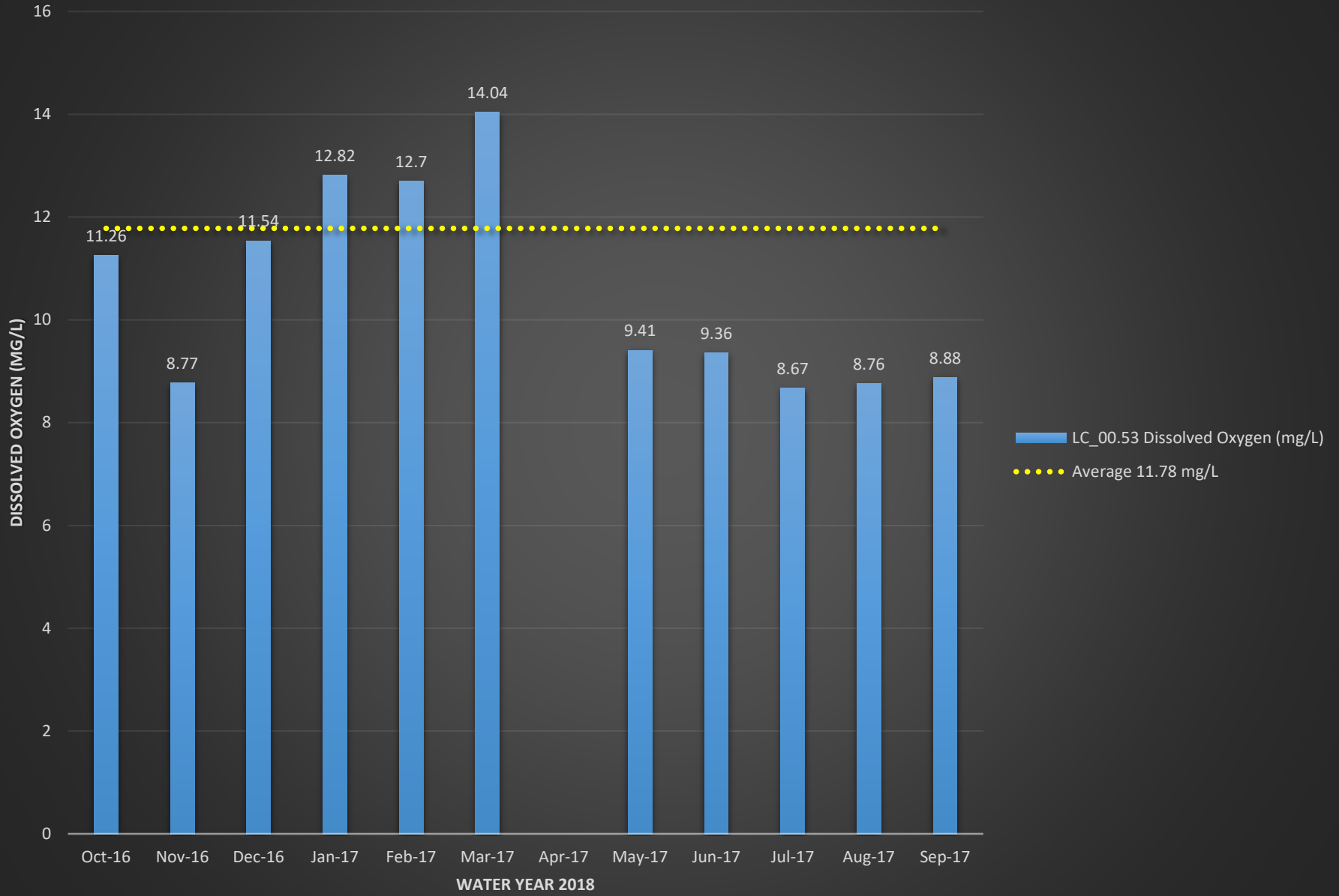




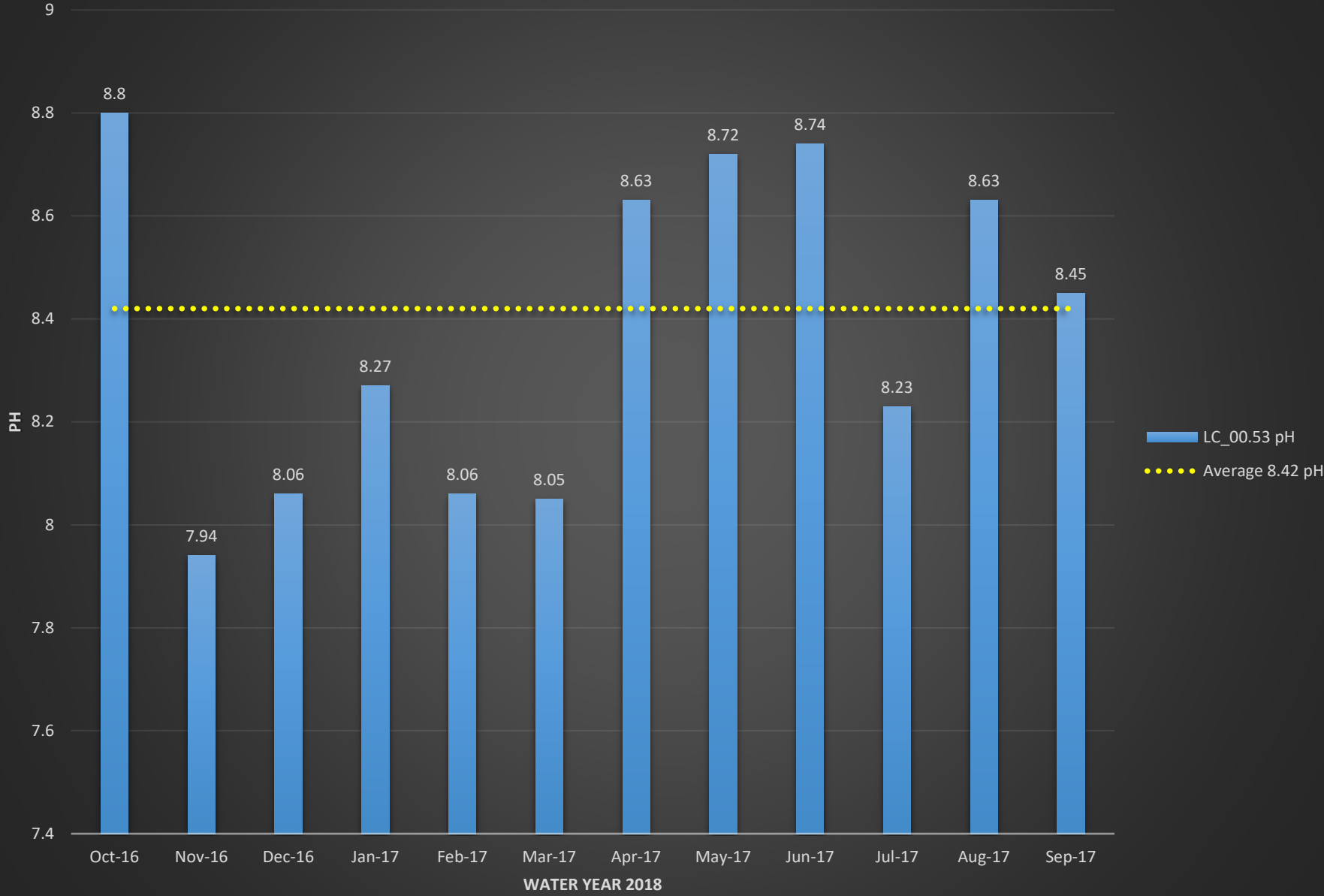
# LC\_00.53 Dissolved Oxygen (%)



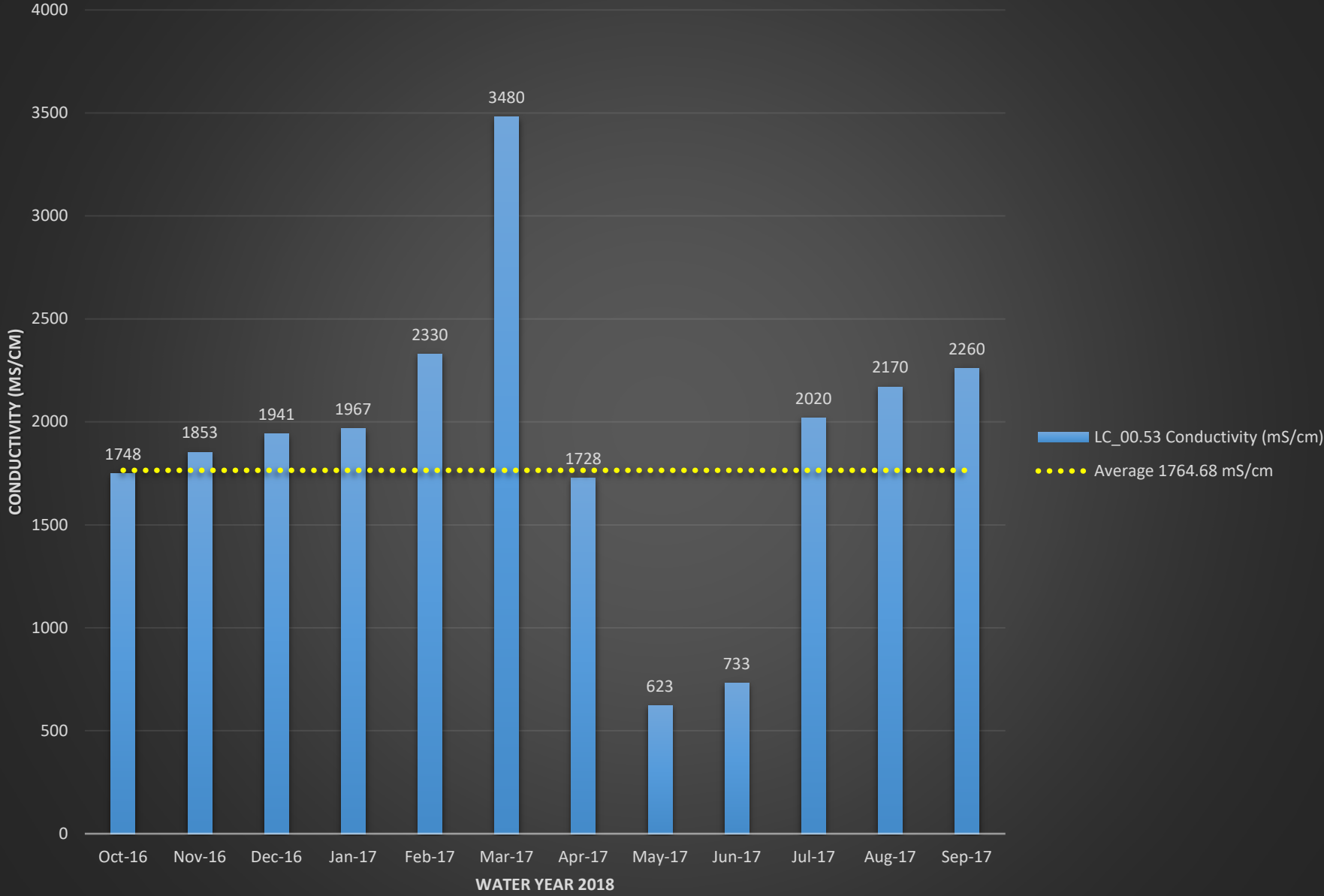
# LC\_00.53 Dissolved Oxygen (mg/L)



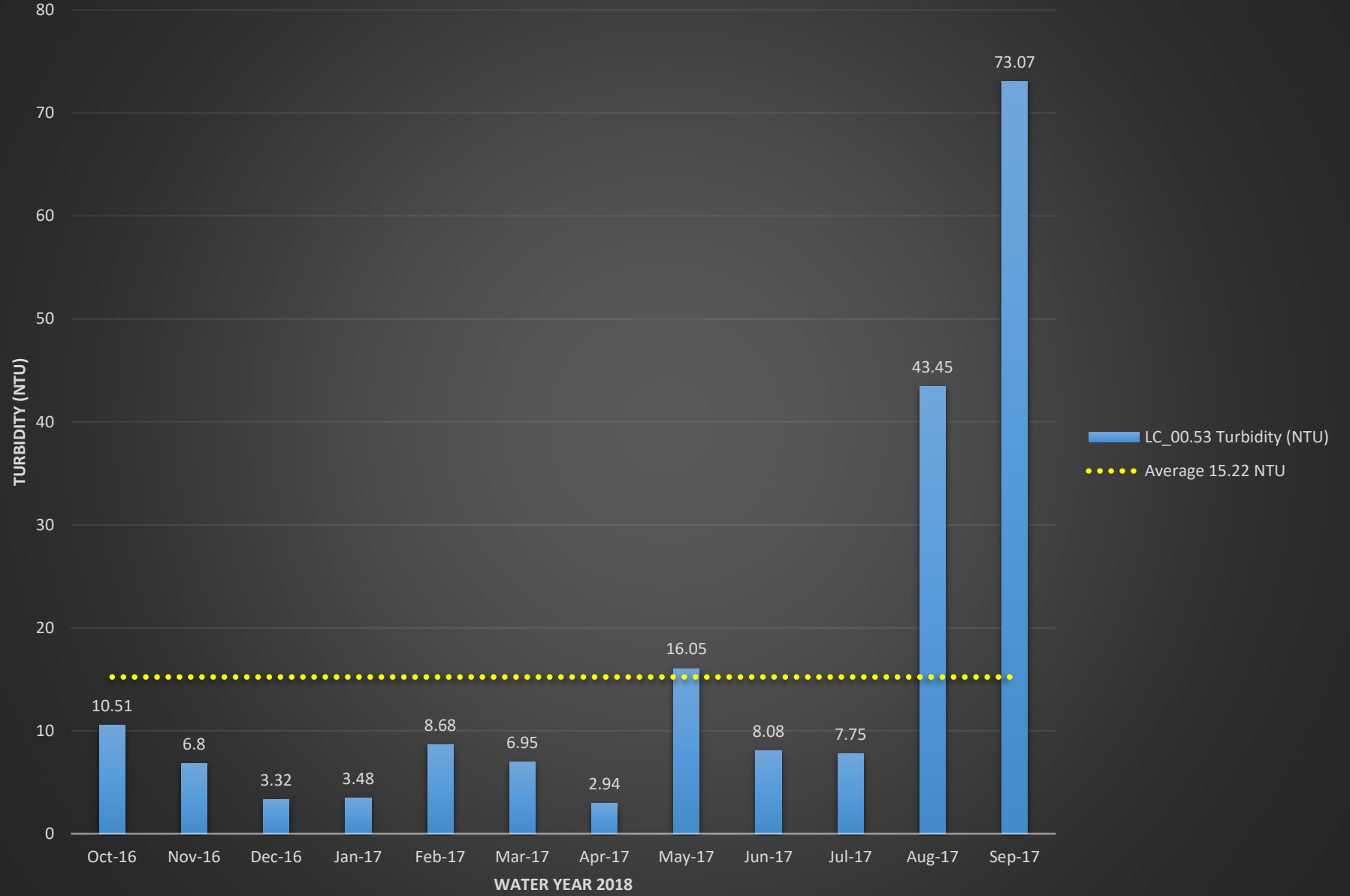
# LC\_00.53 pH



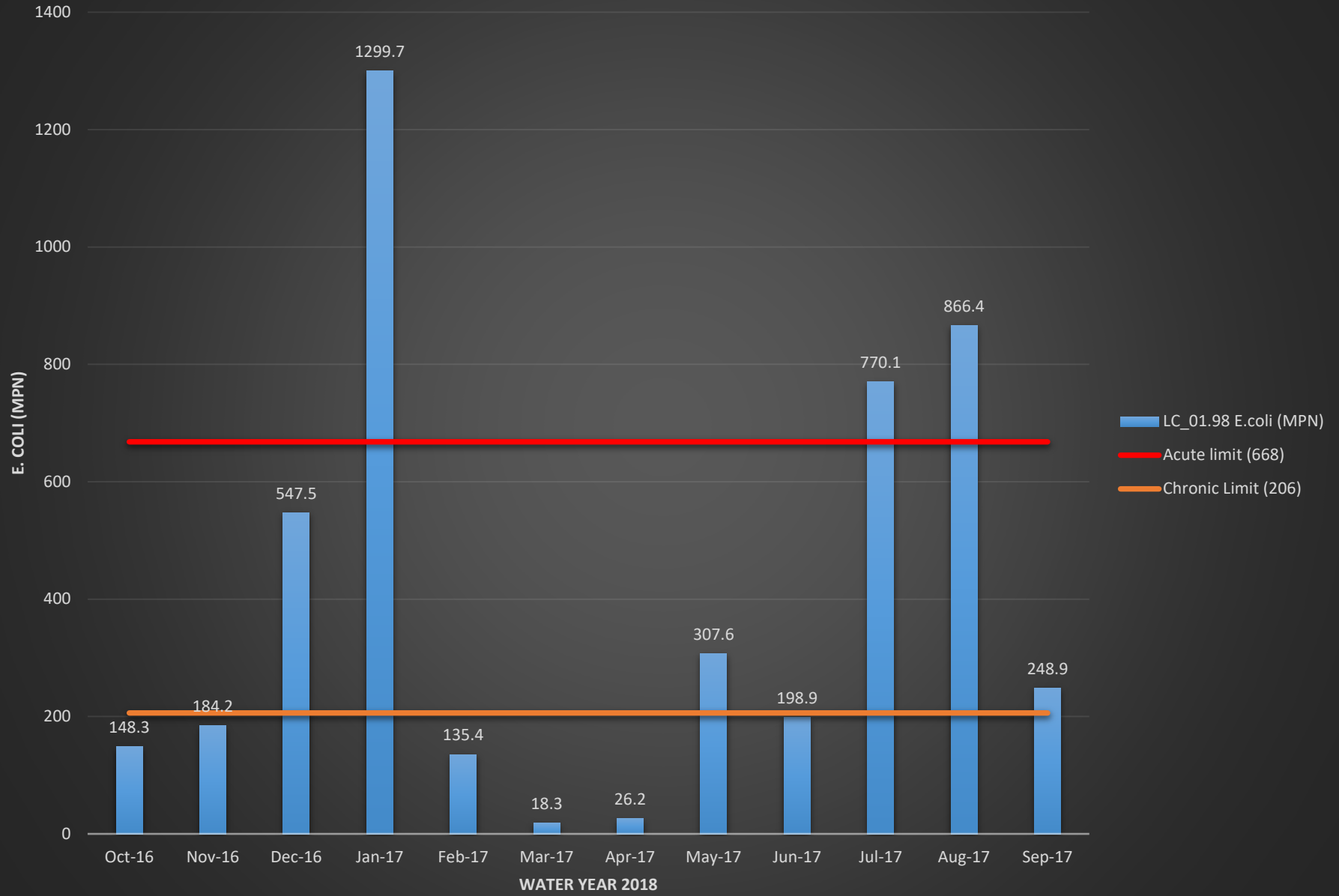
# LC\_00.53 Conductivity (mS/cm)



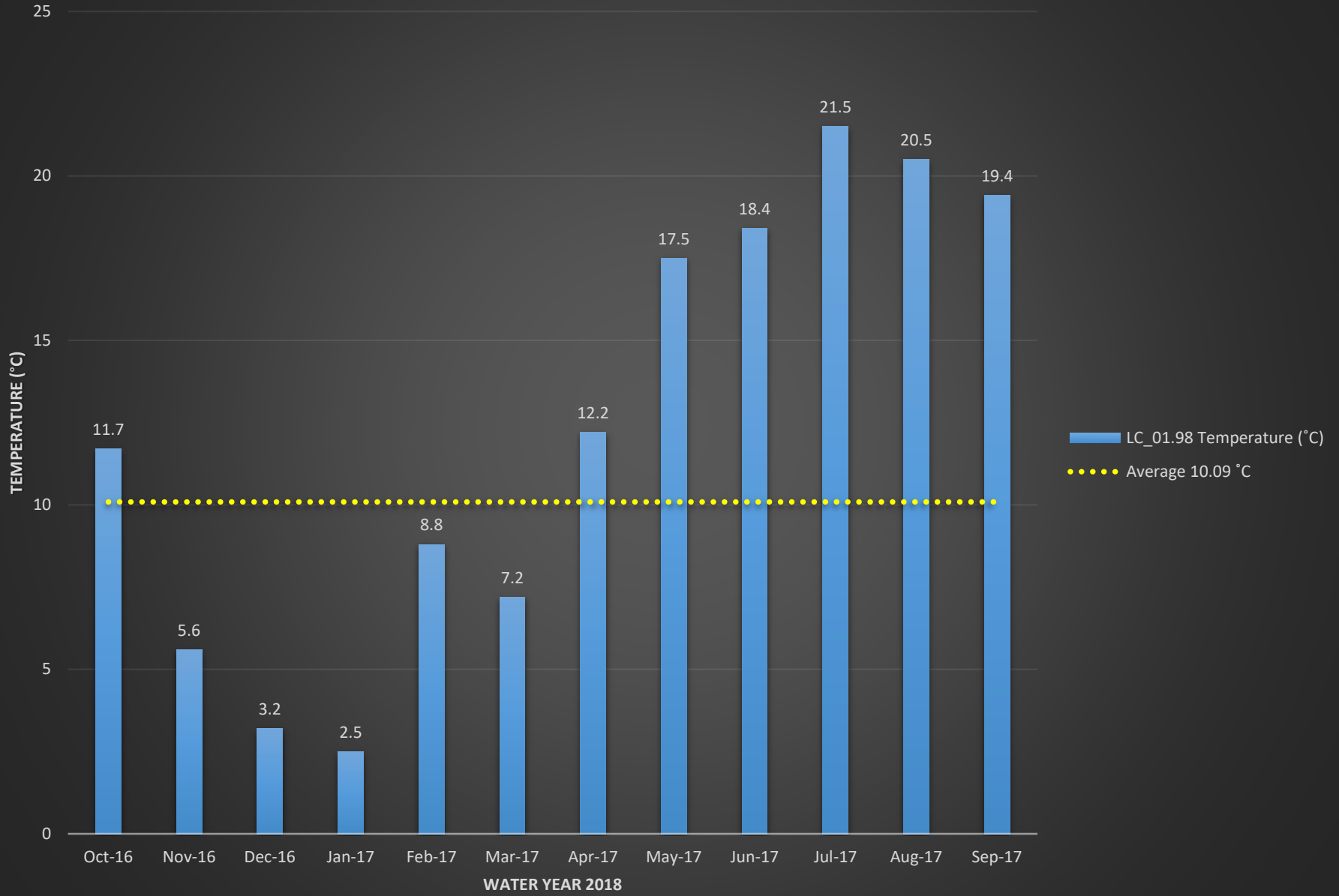
# LC\_00.53 Turbidity (NTU)



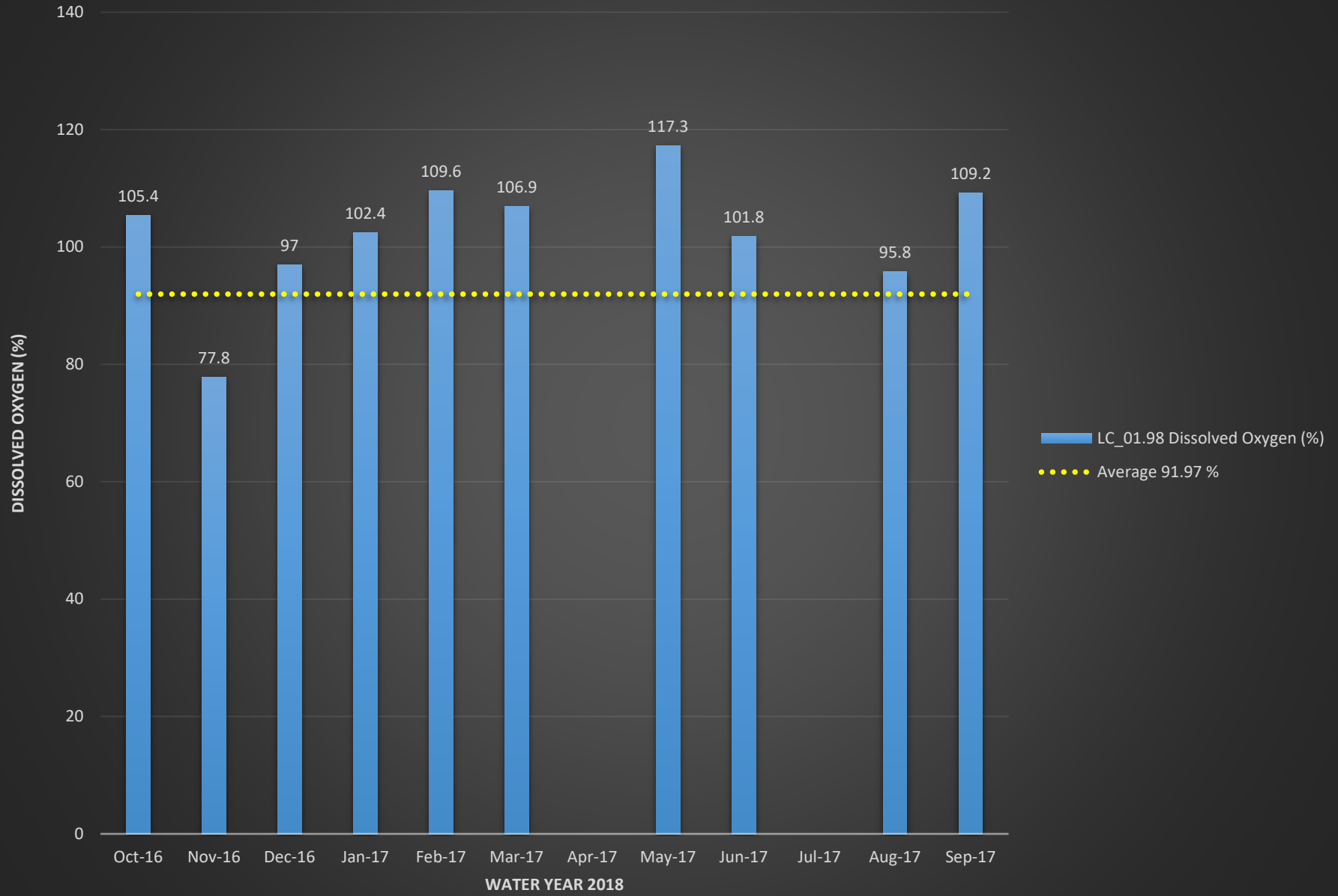
# LC\_01.98 E.coli (MPN)



# LC\_01.98 Temperature (°C)

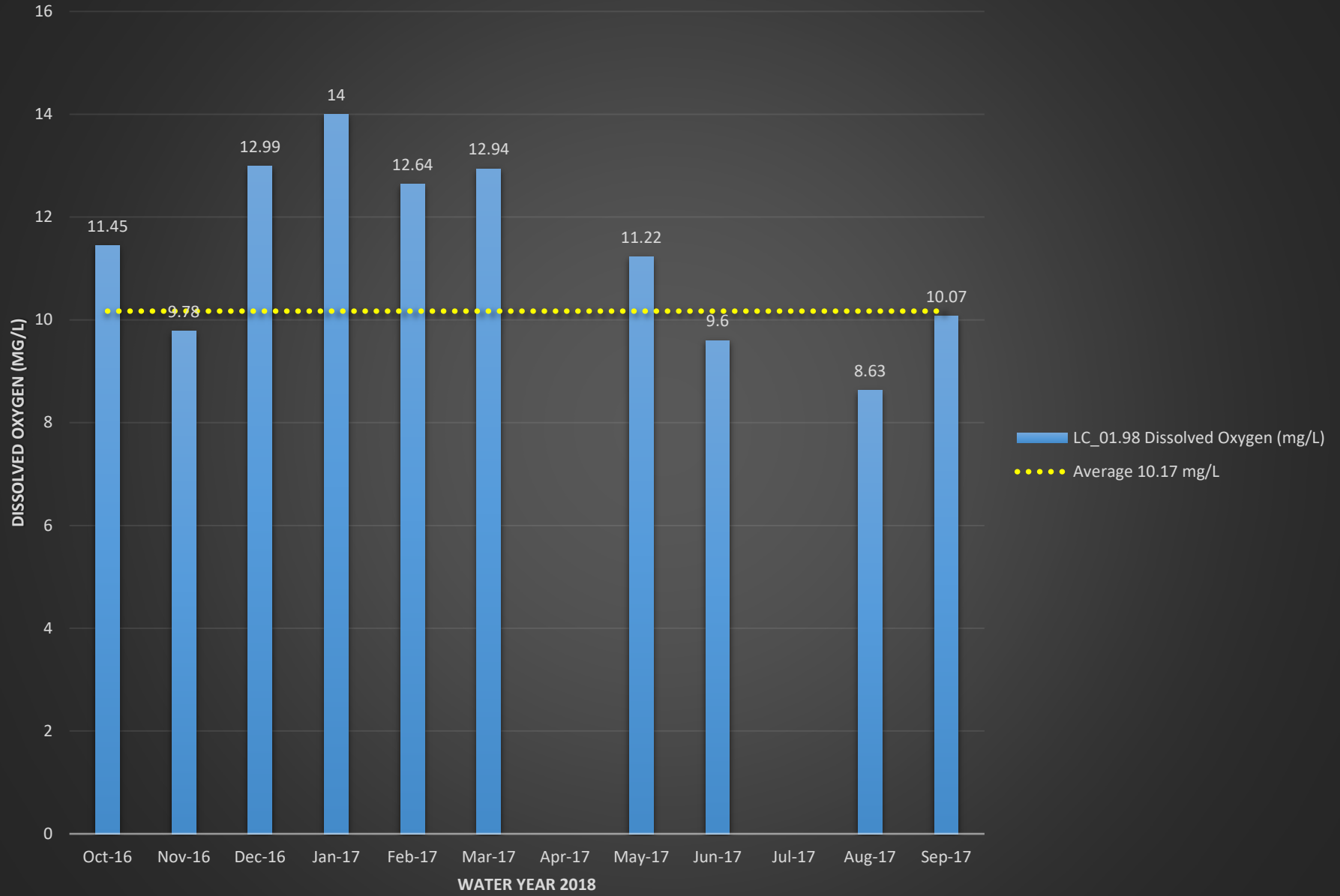


# LC\_01.98 Dissolved Oxygen (%)

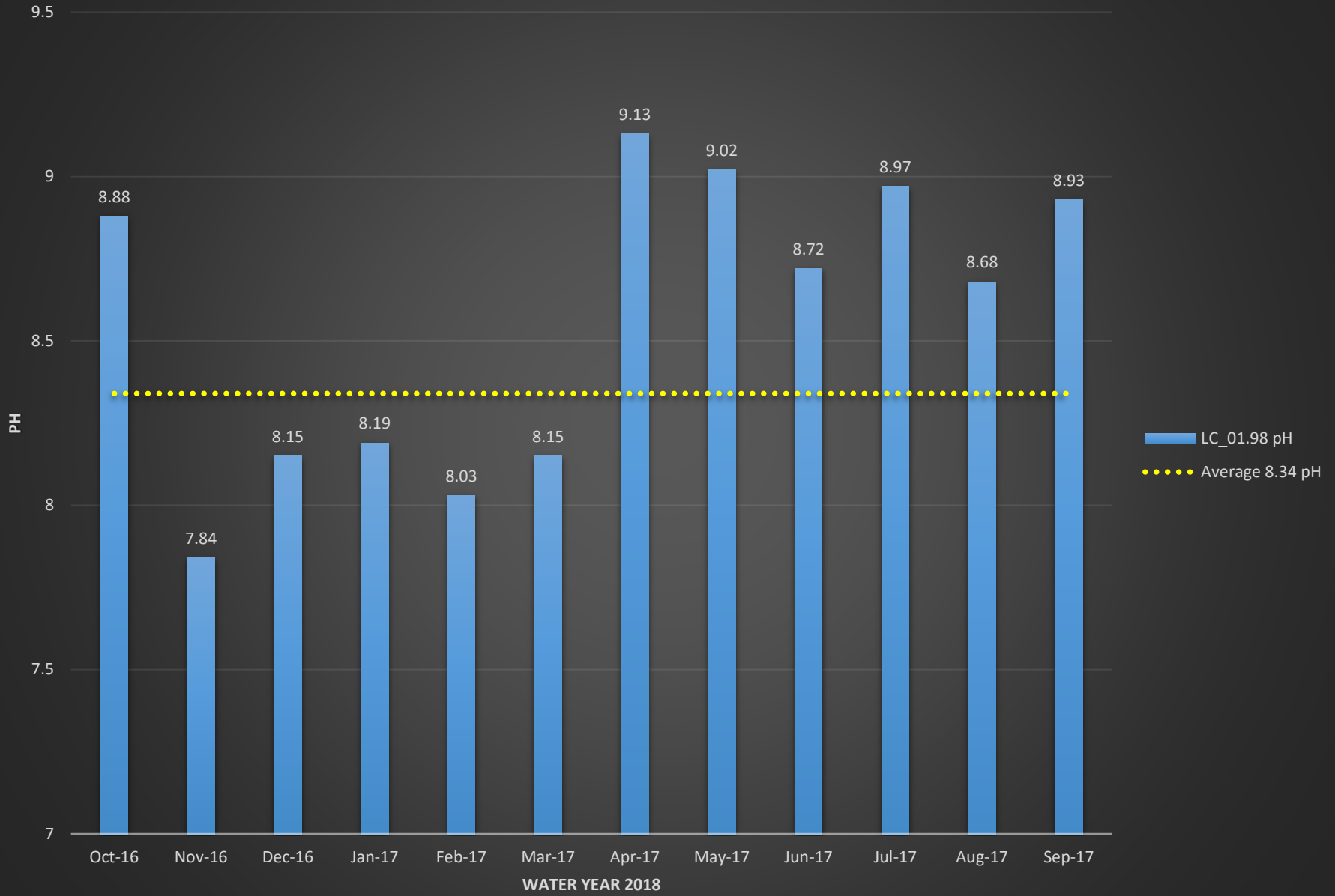




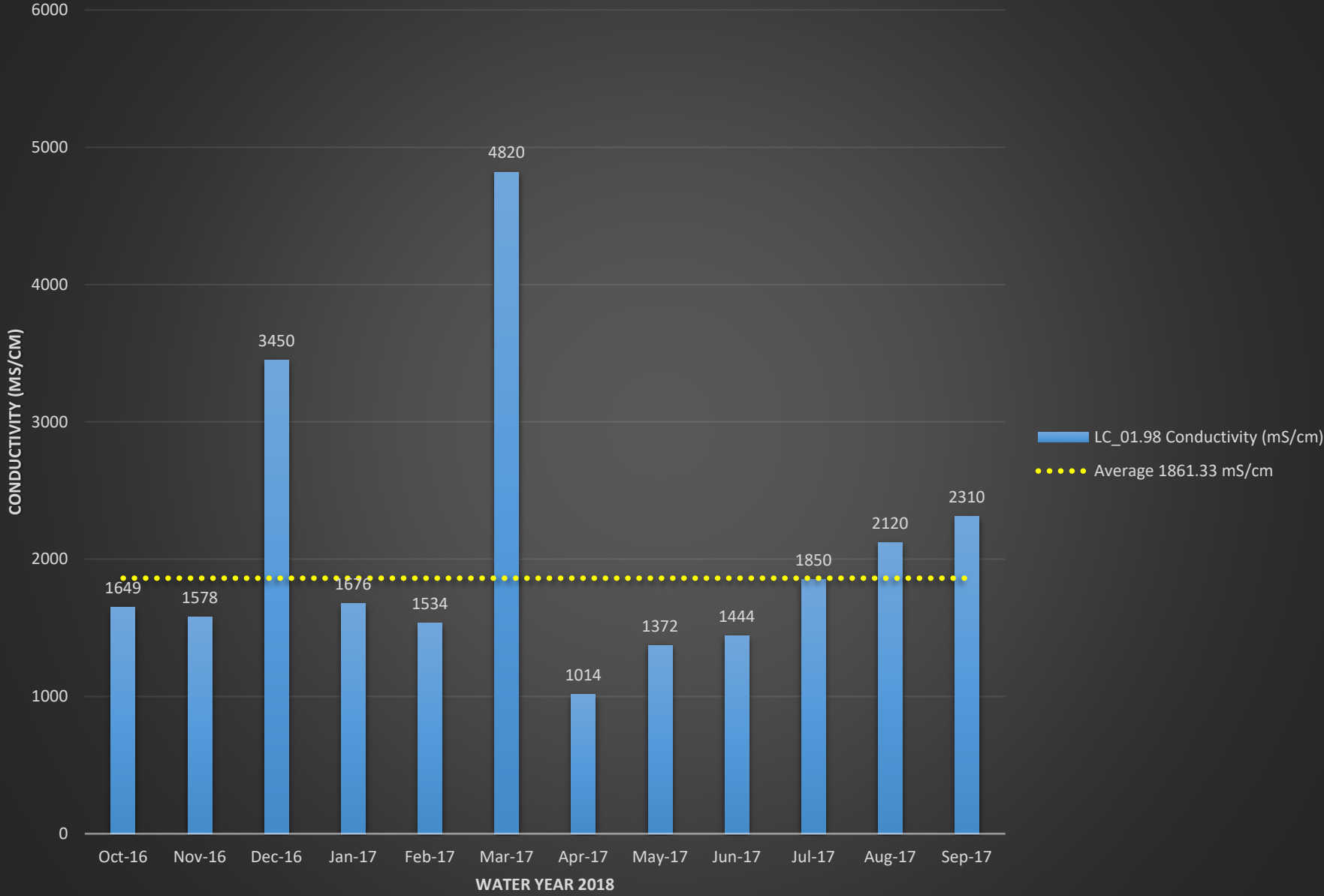
# LC\_01.98 Dissolved Oxygen (mg/L)



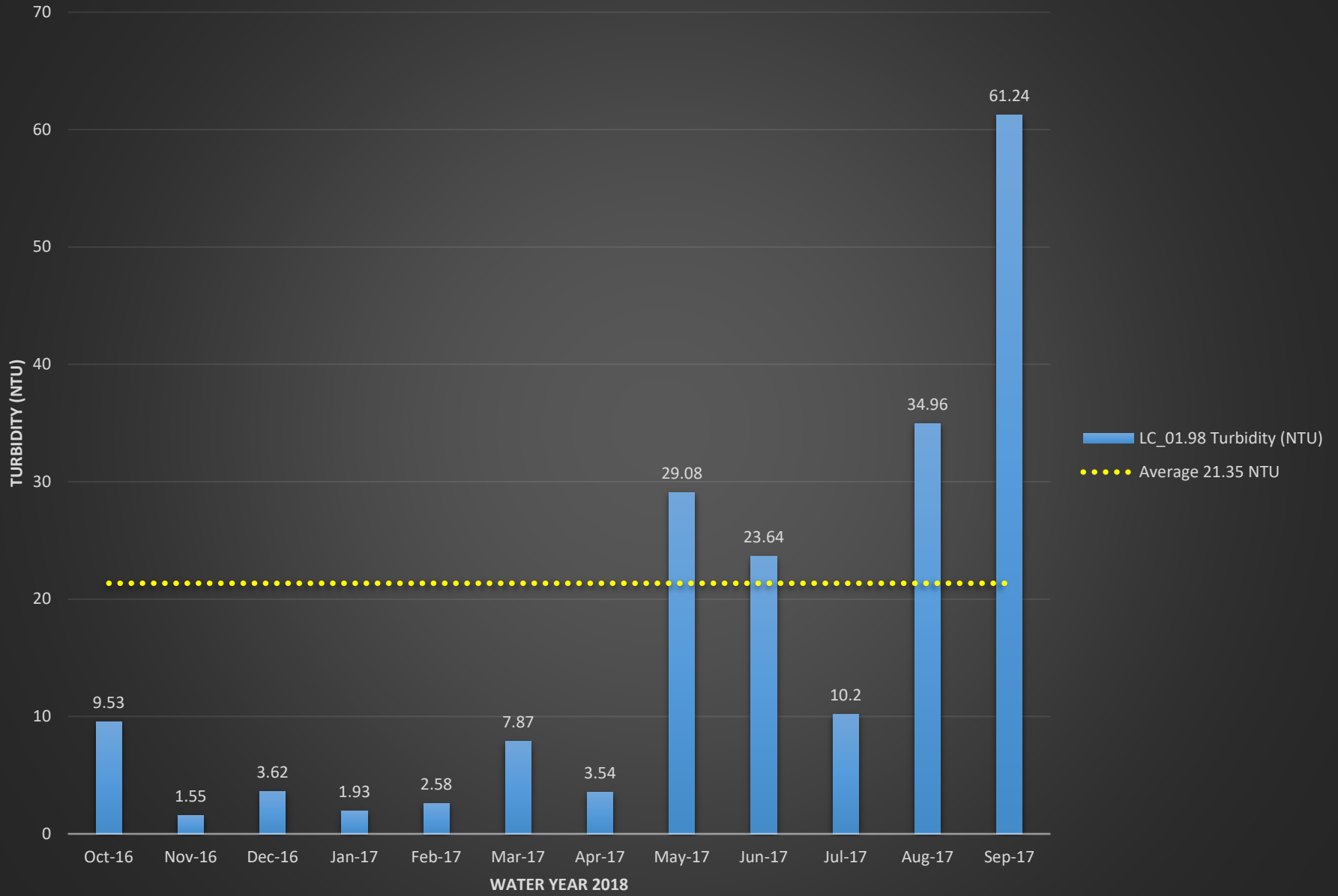
# LC\_01.98 pH



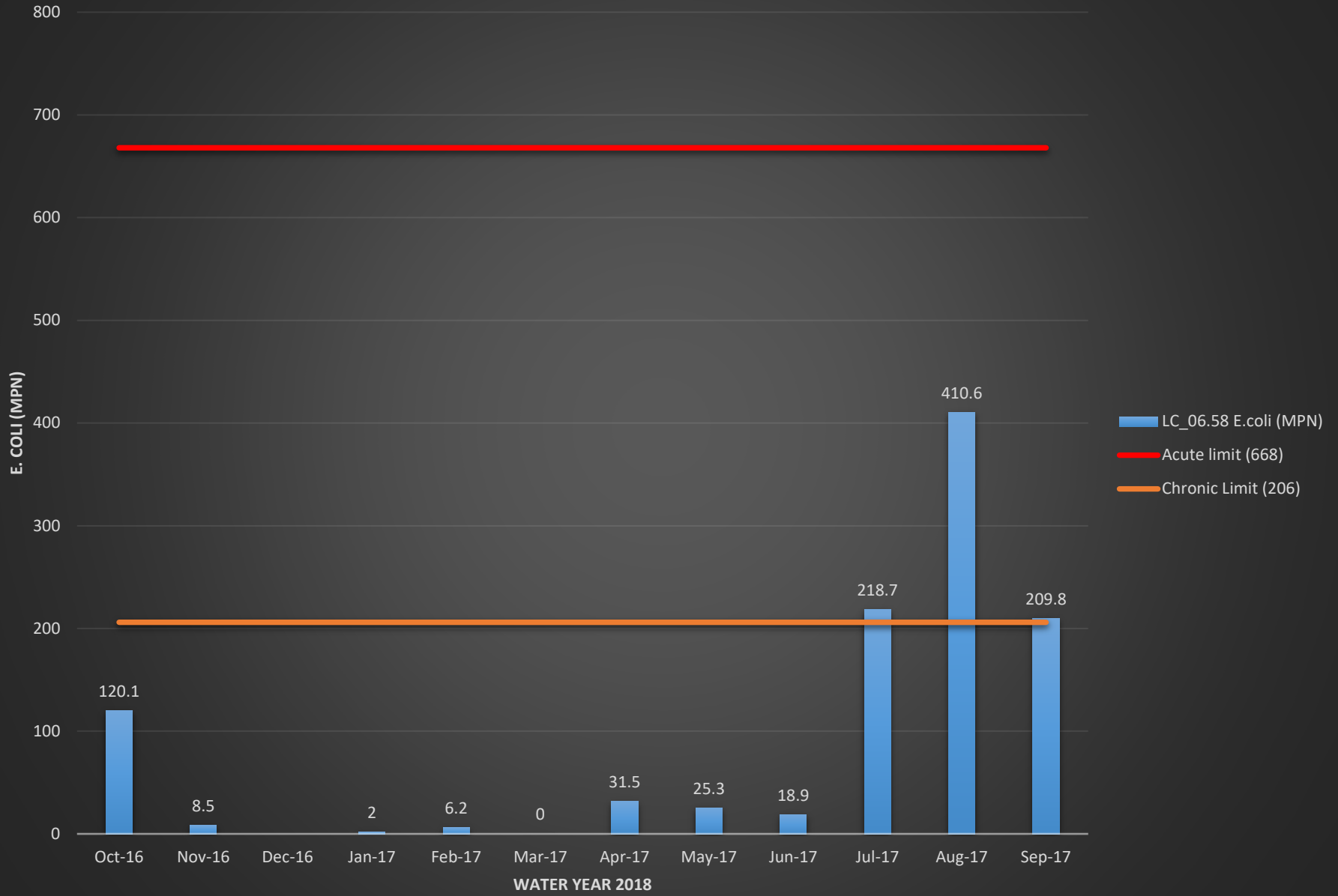
# LC\_01.98 Conductivity (mS/cm)



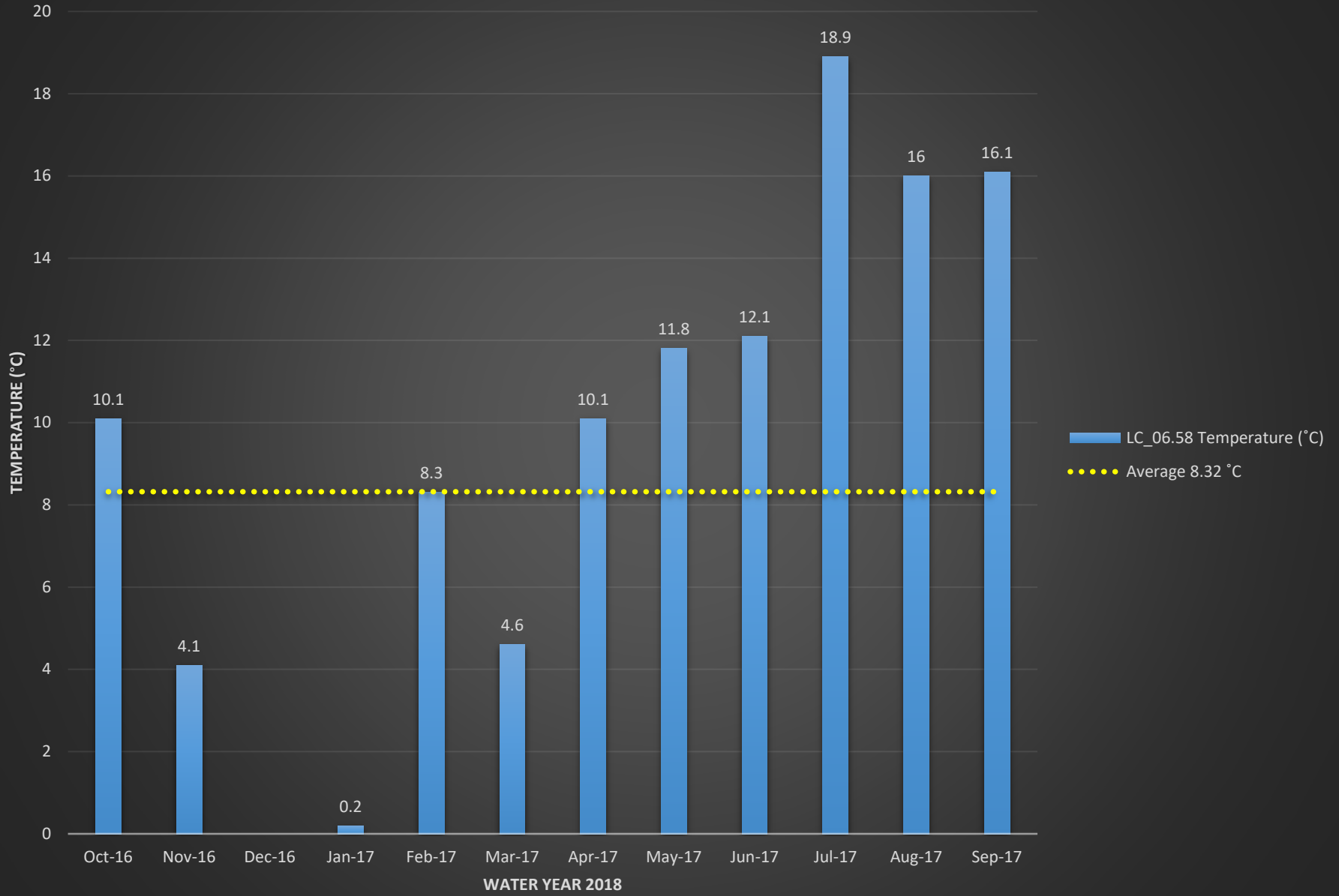
# LC\_01.98 Turbidity (NTU)



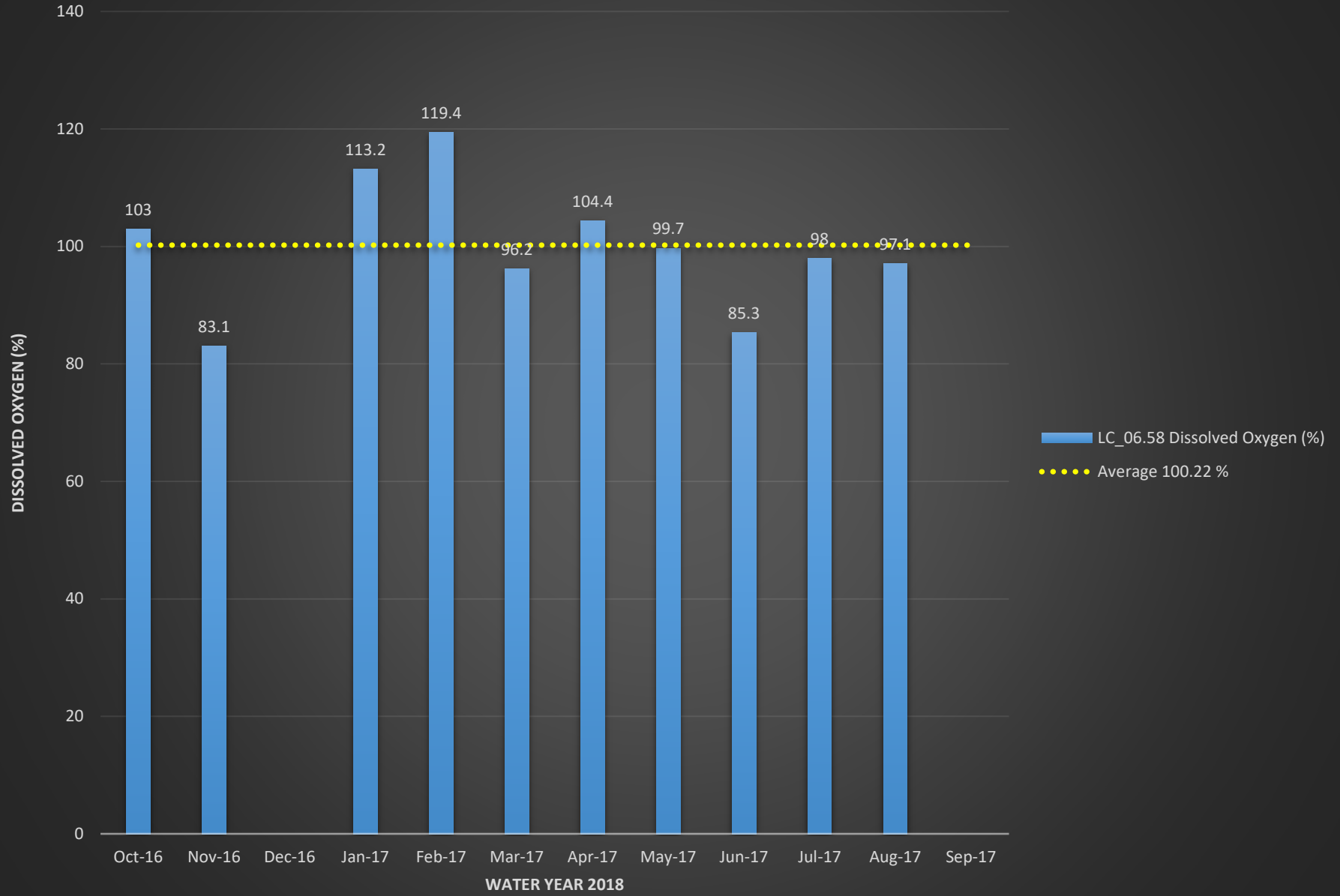
# LC\_06.58 E.coli (MPN)



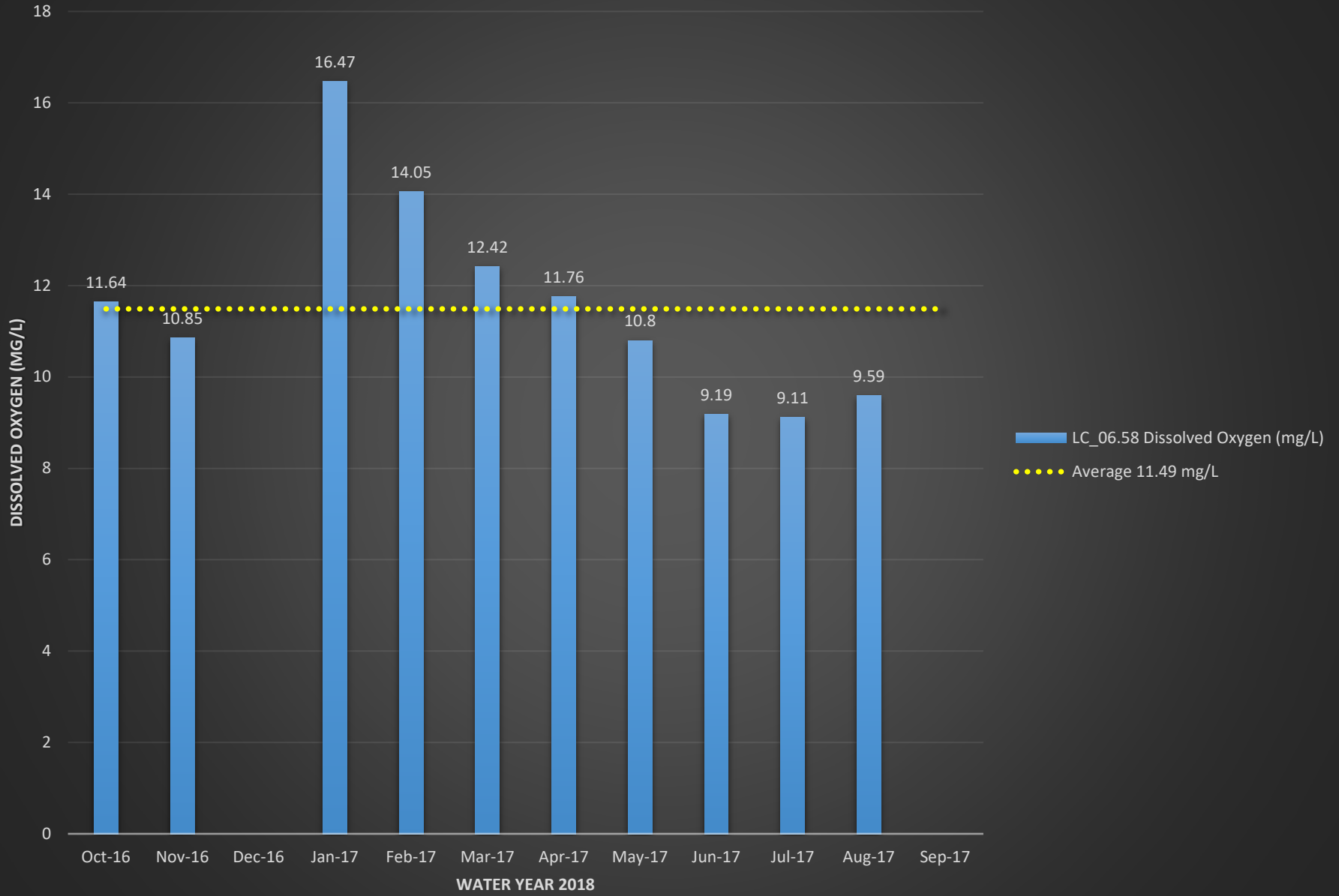
# LC\_06.58 Temperature (°C)



# LC\_06.58 Dissolved Oxygen (%)

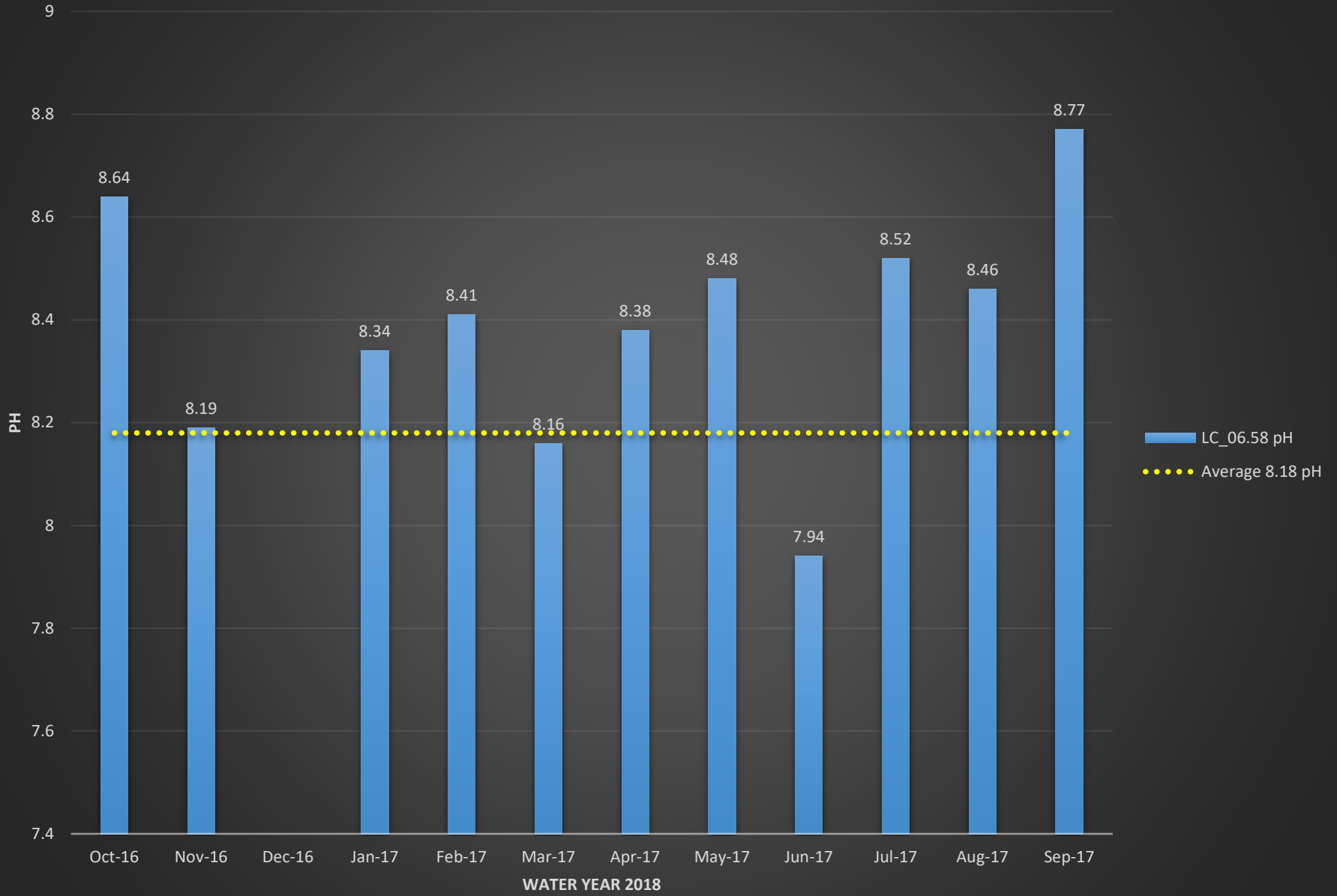


# LC\_06.58 Dissolved Oxygen (mg/L)

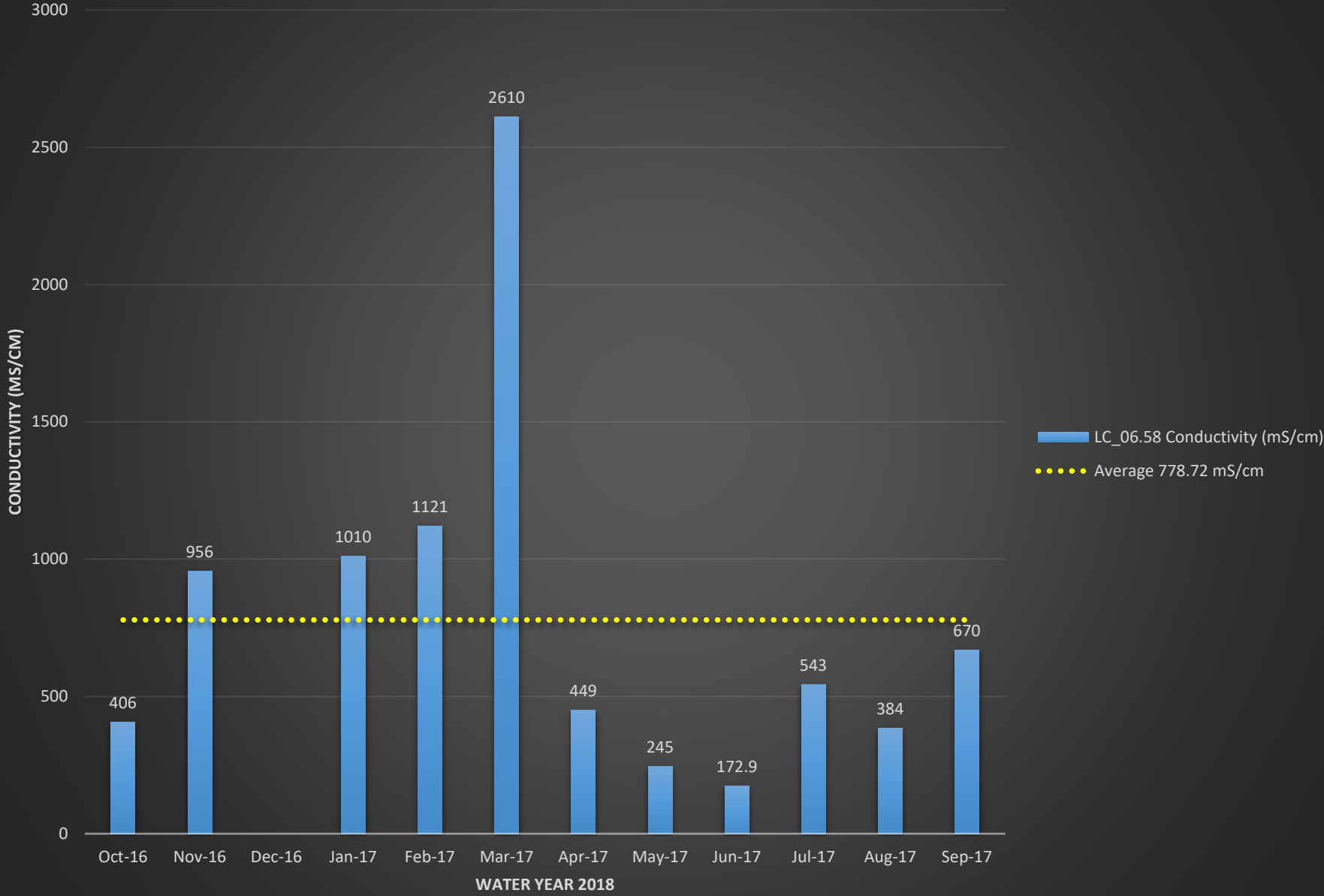




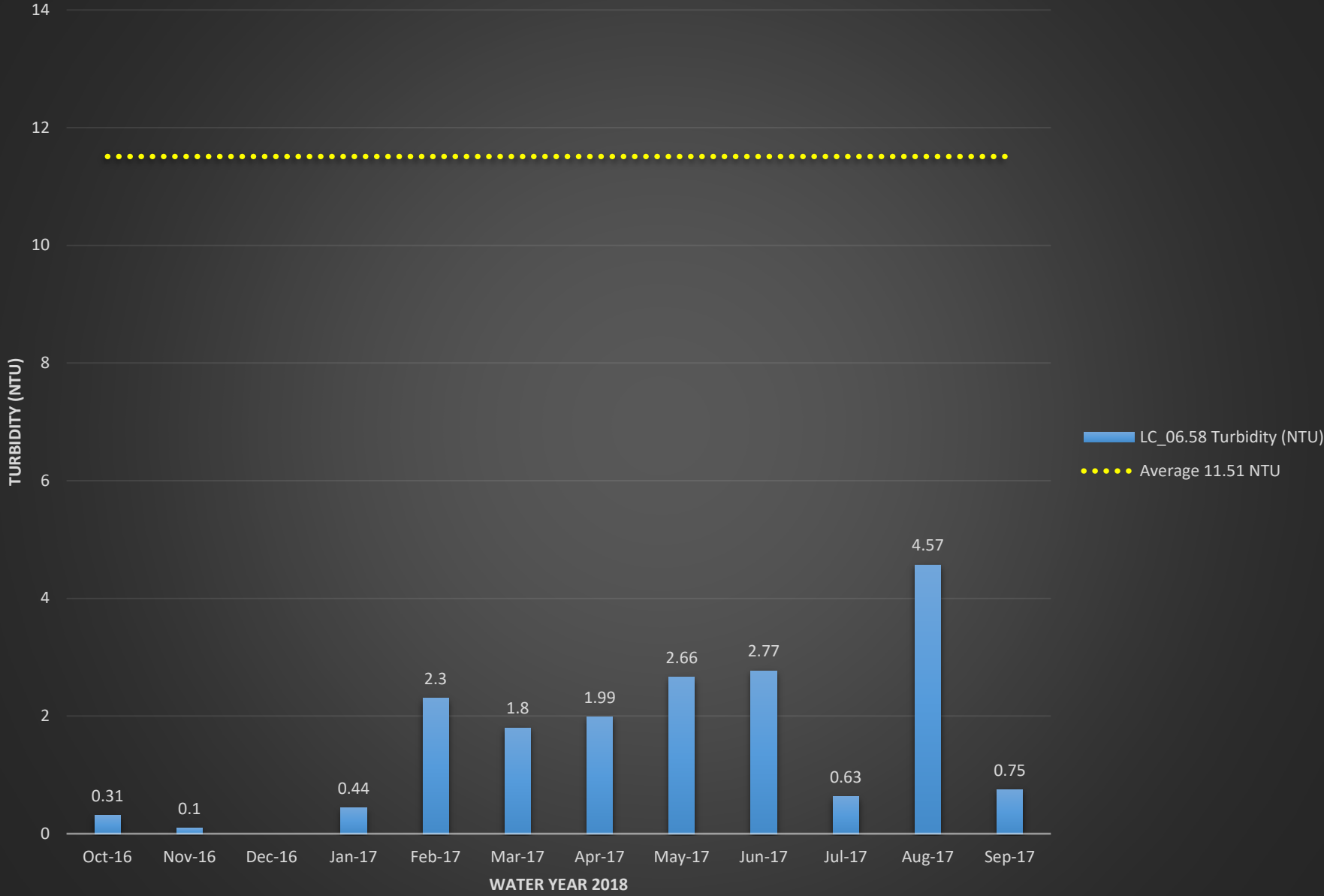
# LC\_06.58 pH



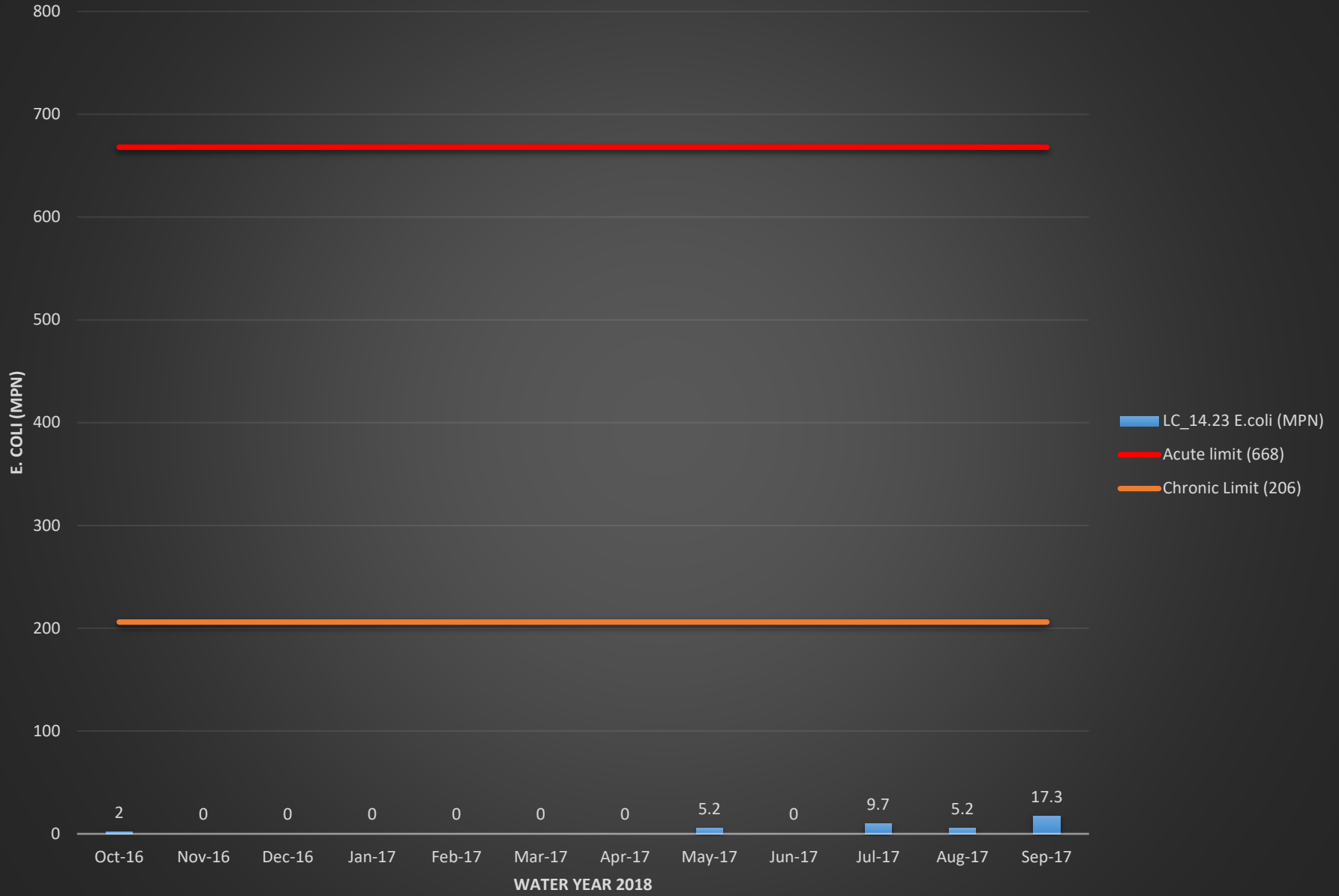
# LC\_06.58 Conductivity (mS/cm)



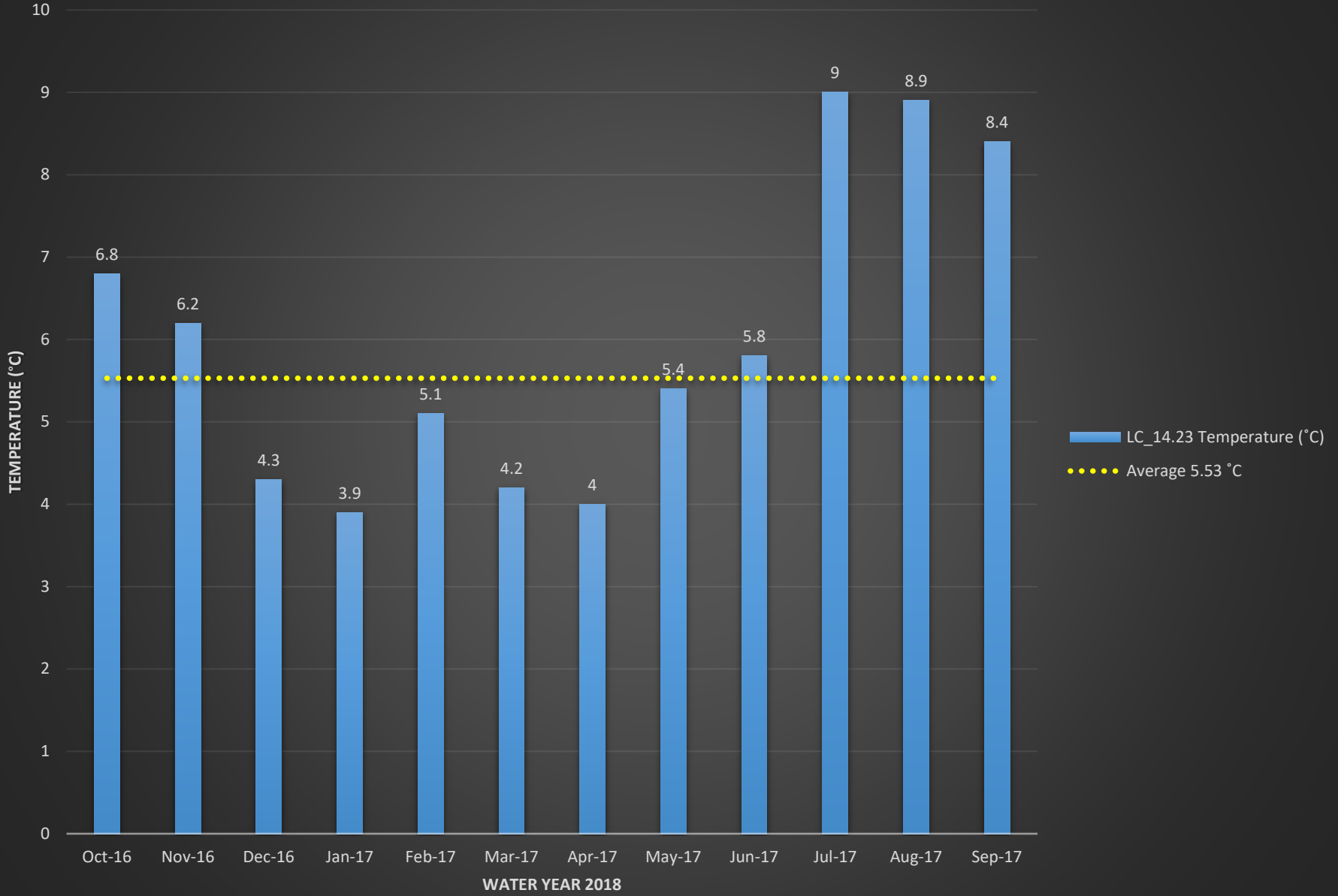
# LC\_06.58 Turbidity (NTU)



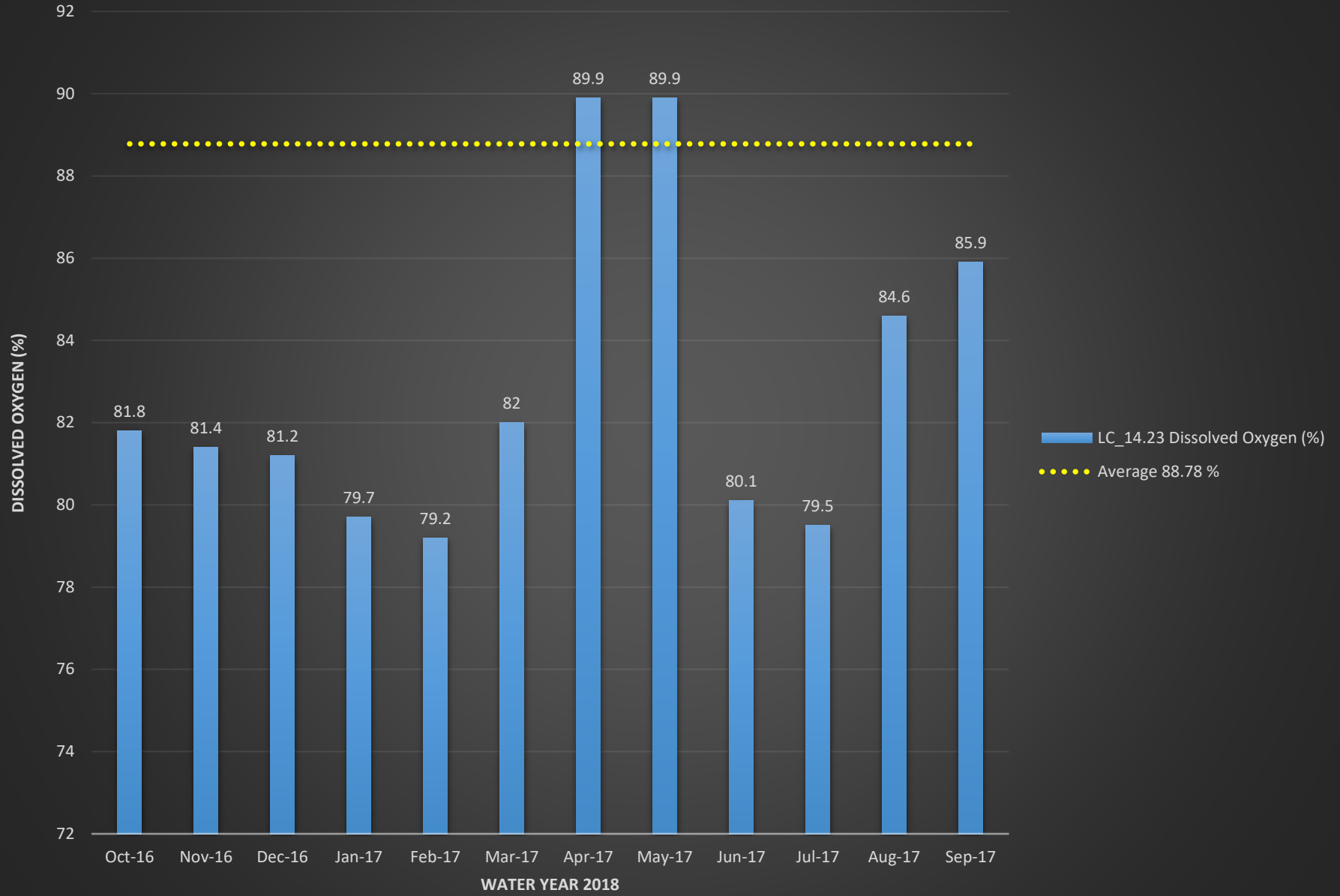
# LC\_14.23 E.coli (MPN)



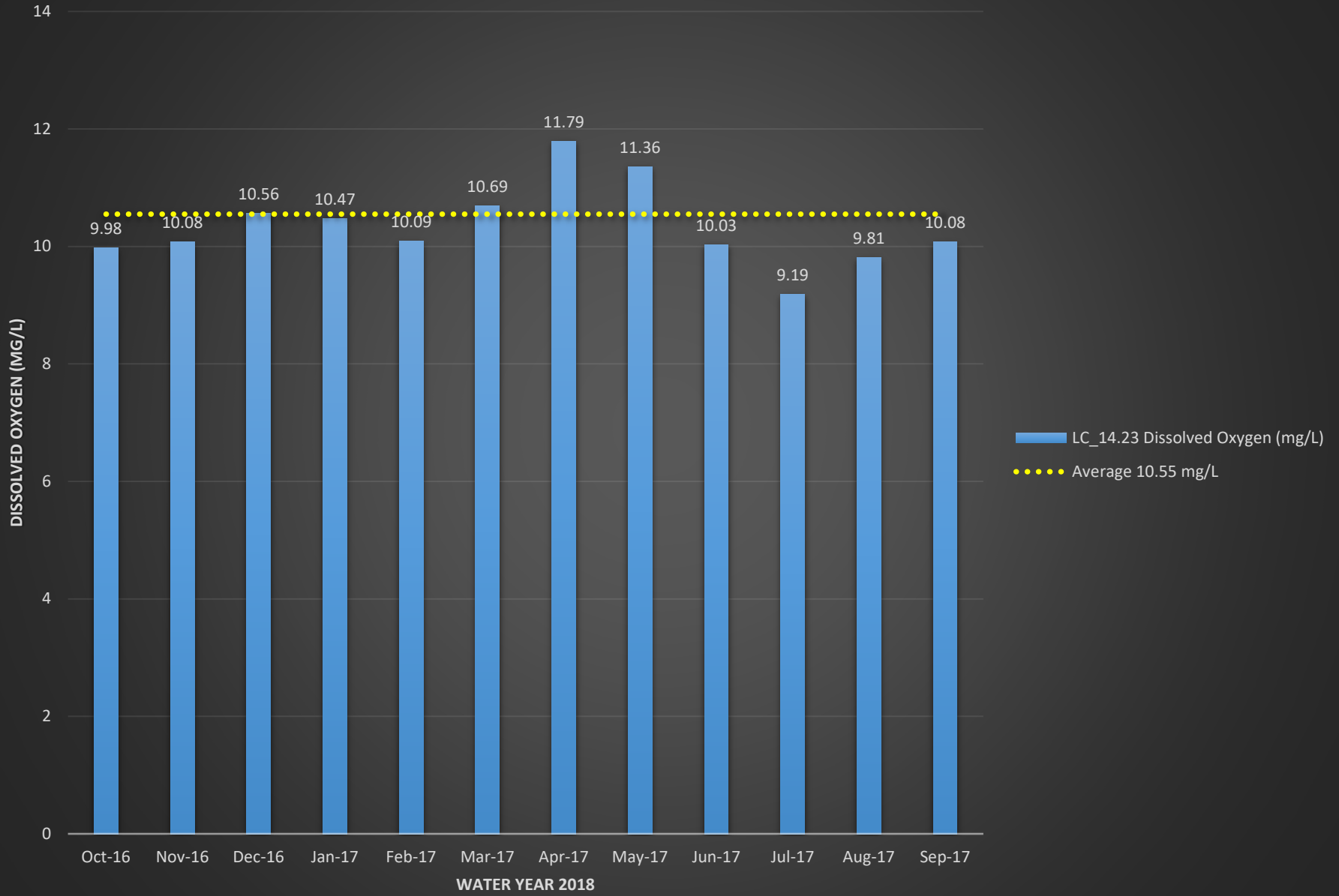
# LC\_14.23 Temperature (°C)



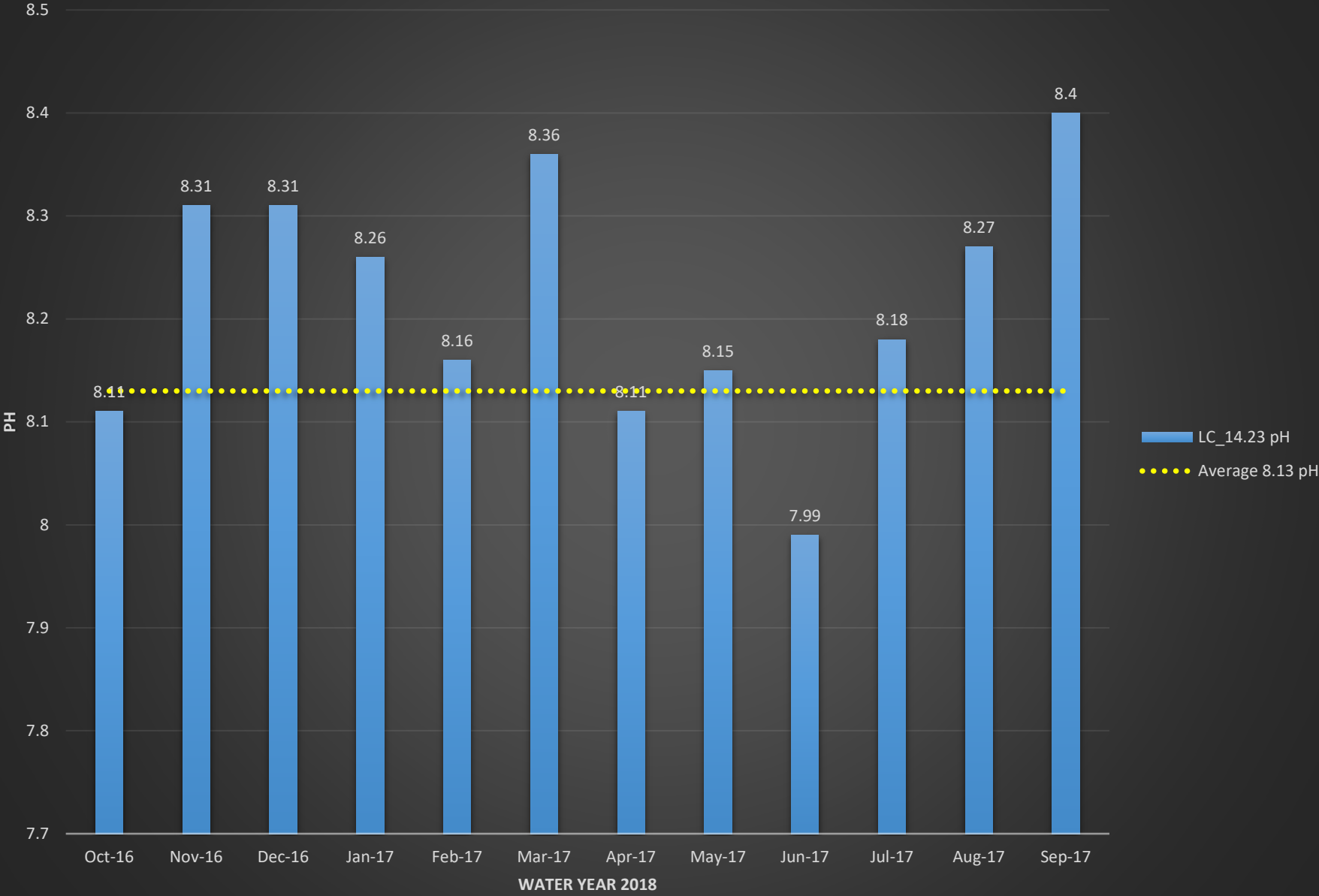
# LC\_14.23 Dissolved Oxygen (%)



# LC\_14.23 Dissolved Oxygen (mg/L)

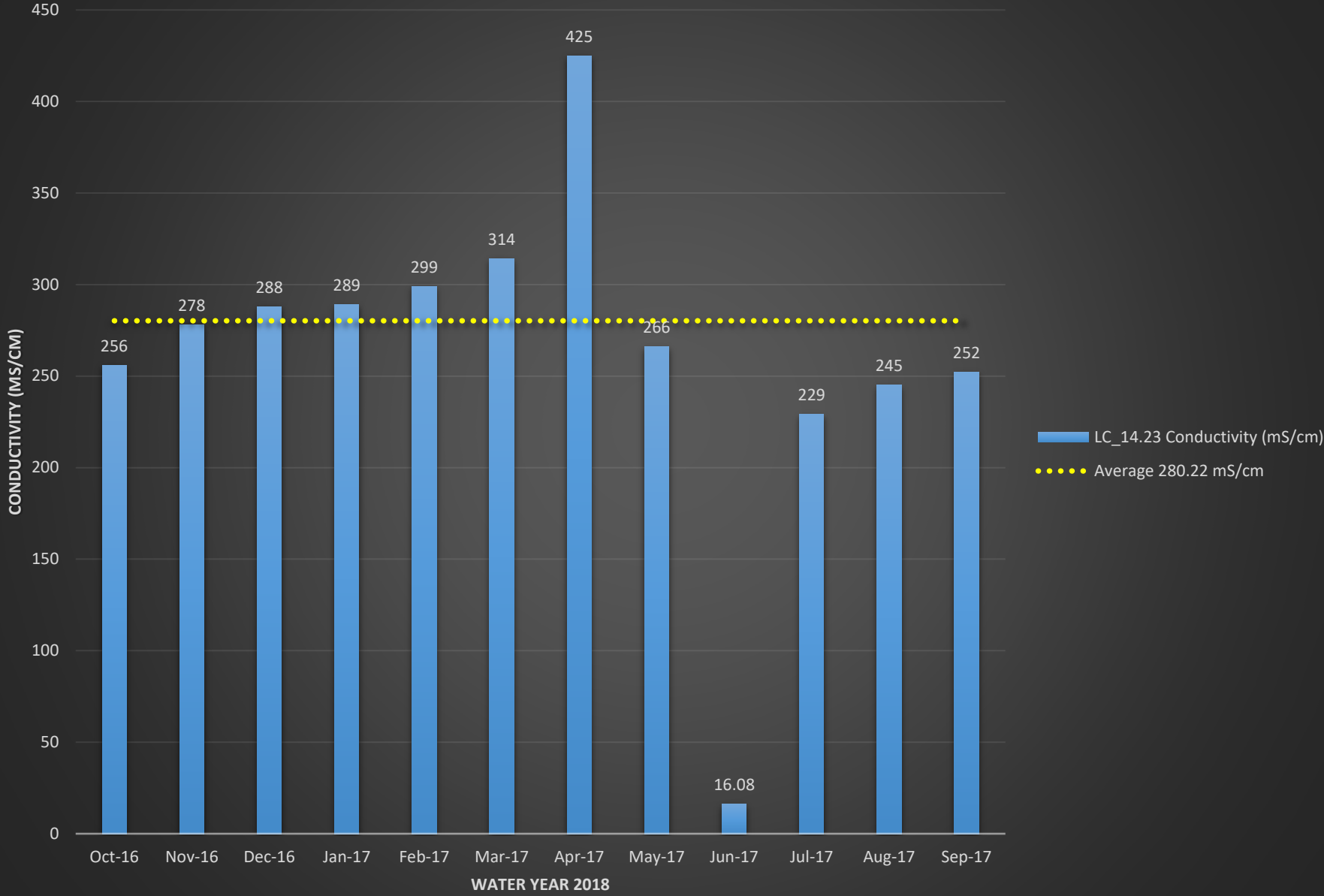


# LC\_14.23 pH

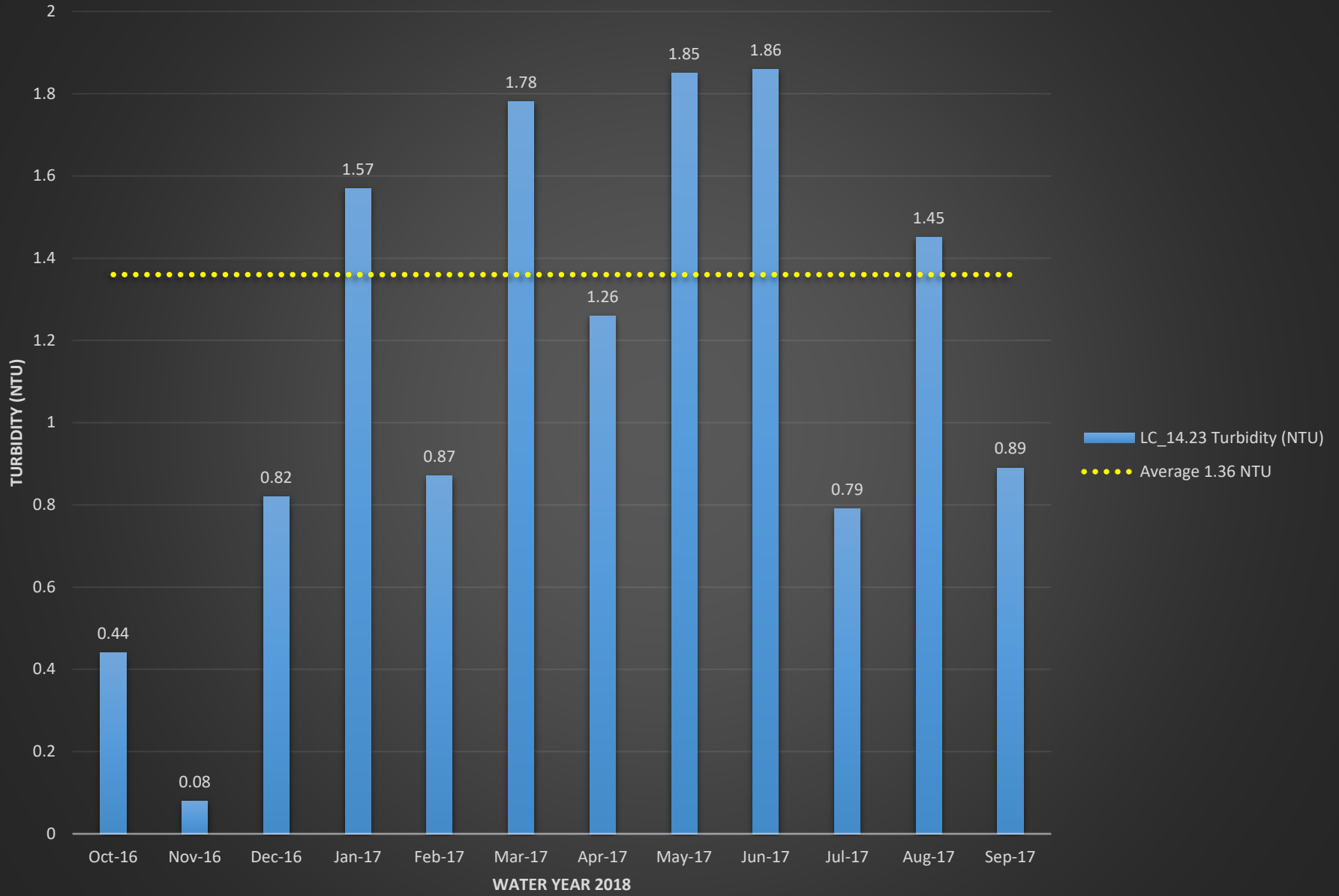




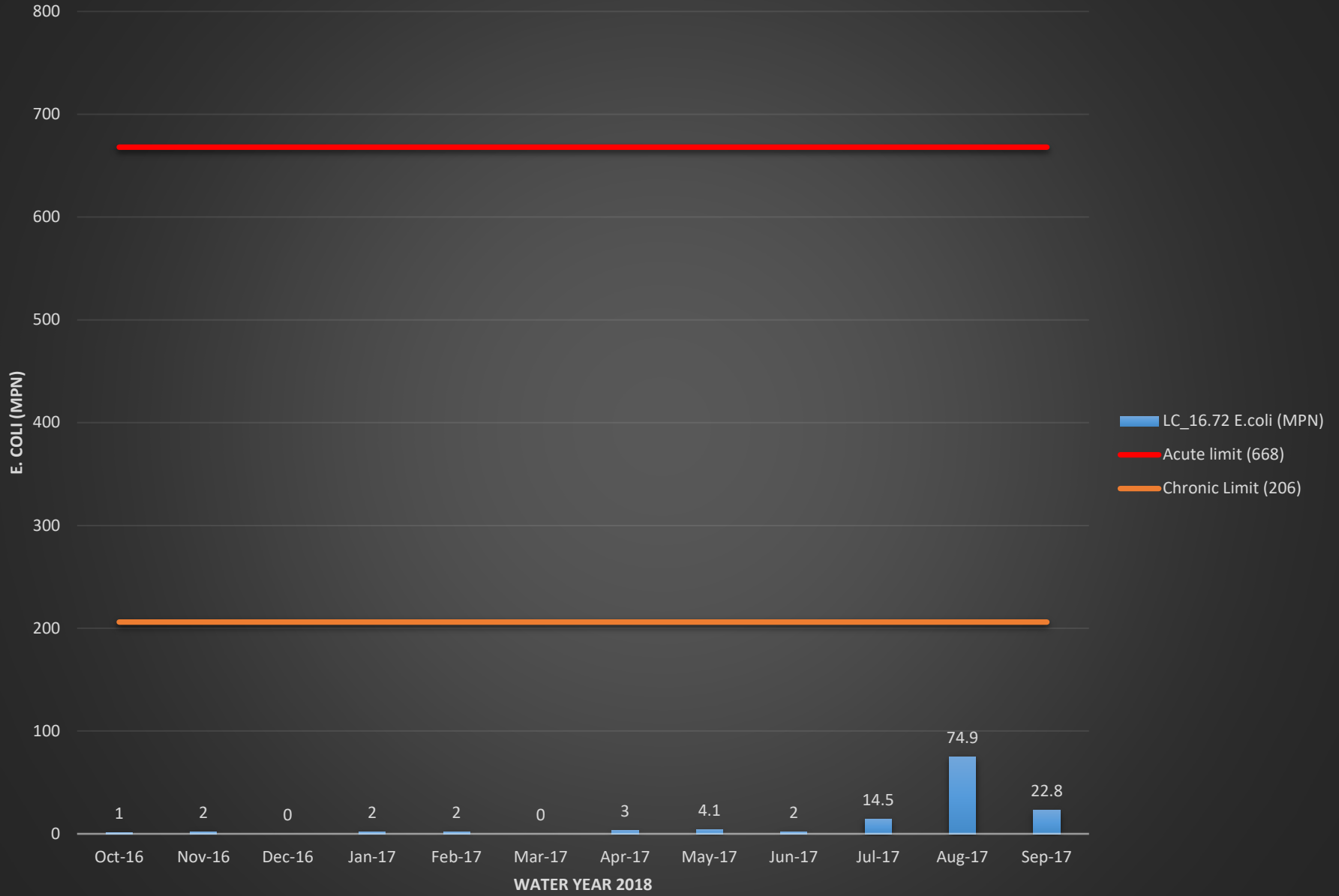
# LC\_14.23 Conductivity (mS/cm)



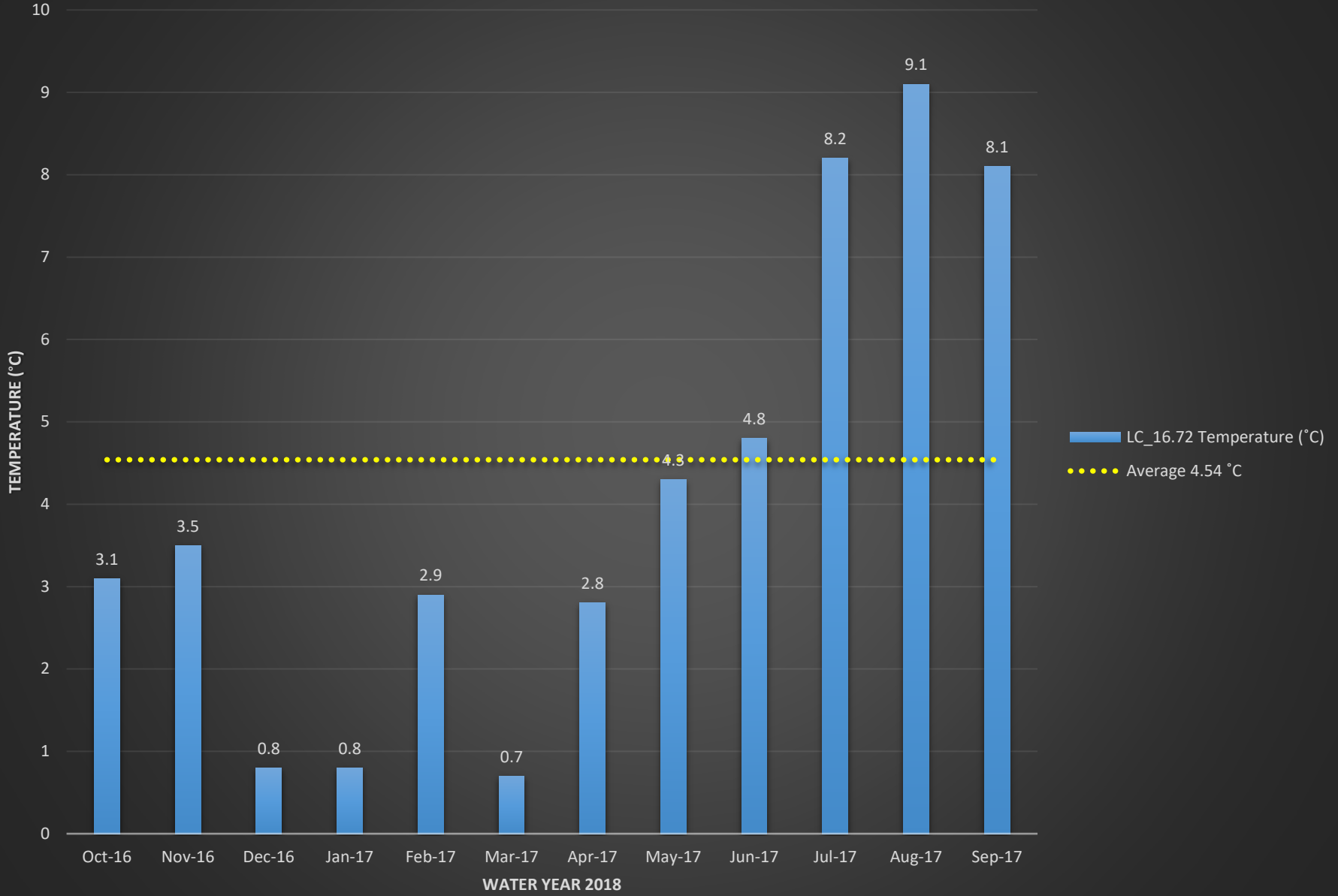
# LC\_14.23 Turbidity (NTU)



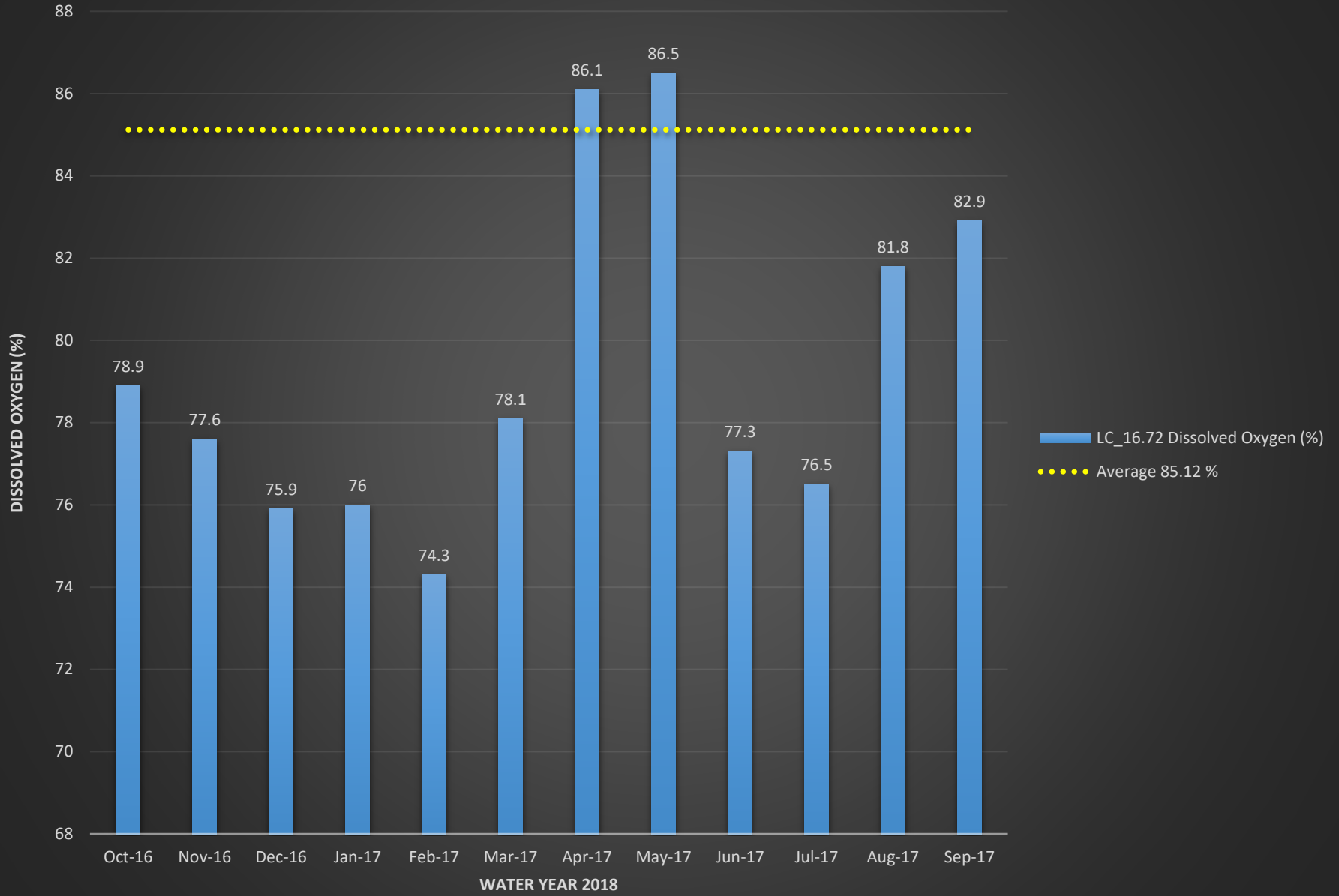
# LC\_16.72 E.coli (MPN)



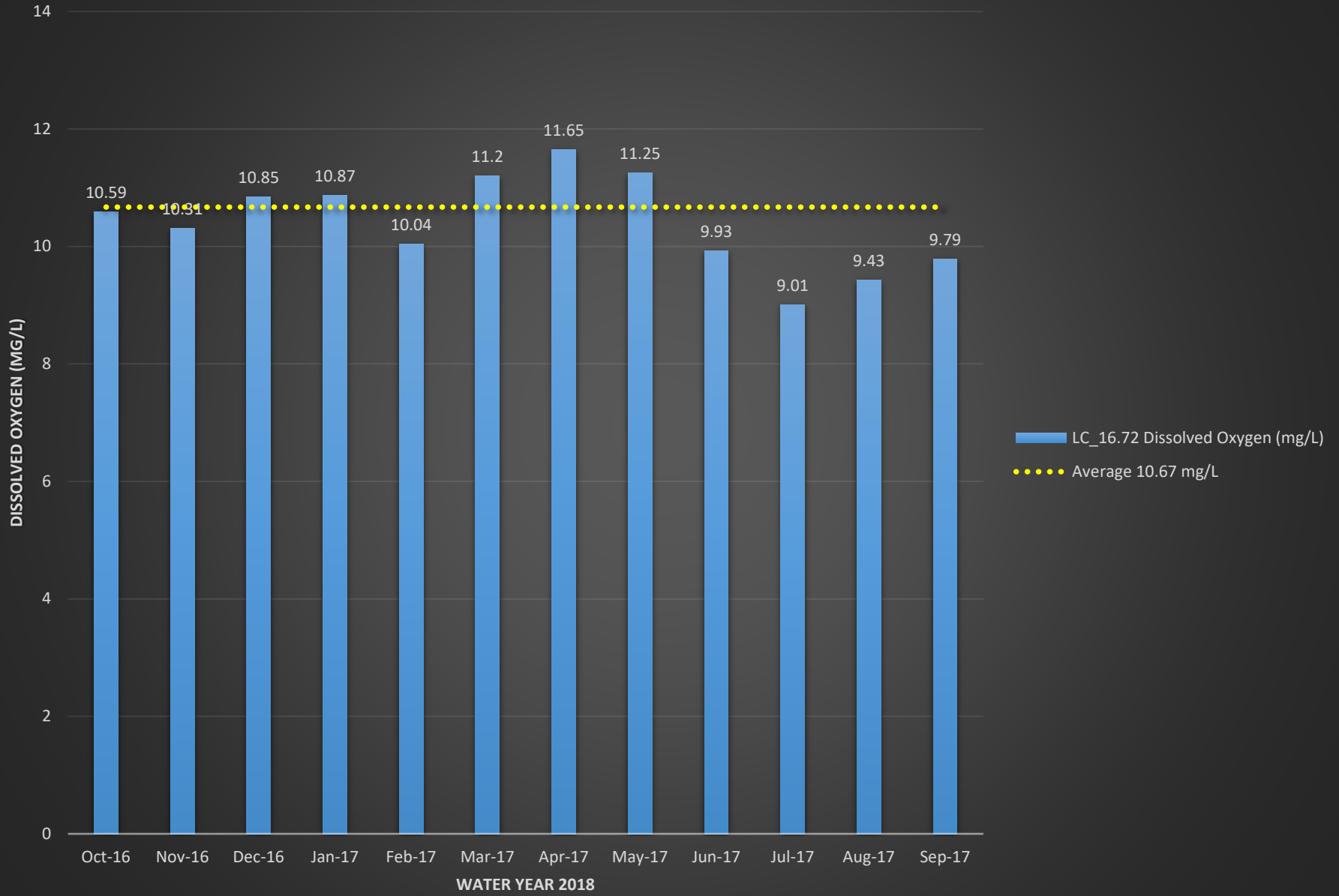
# LC\_16.72 Temperature (°C)



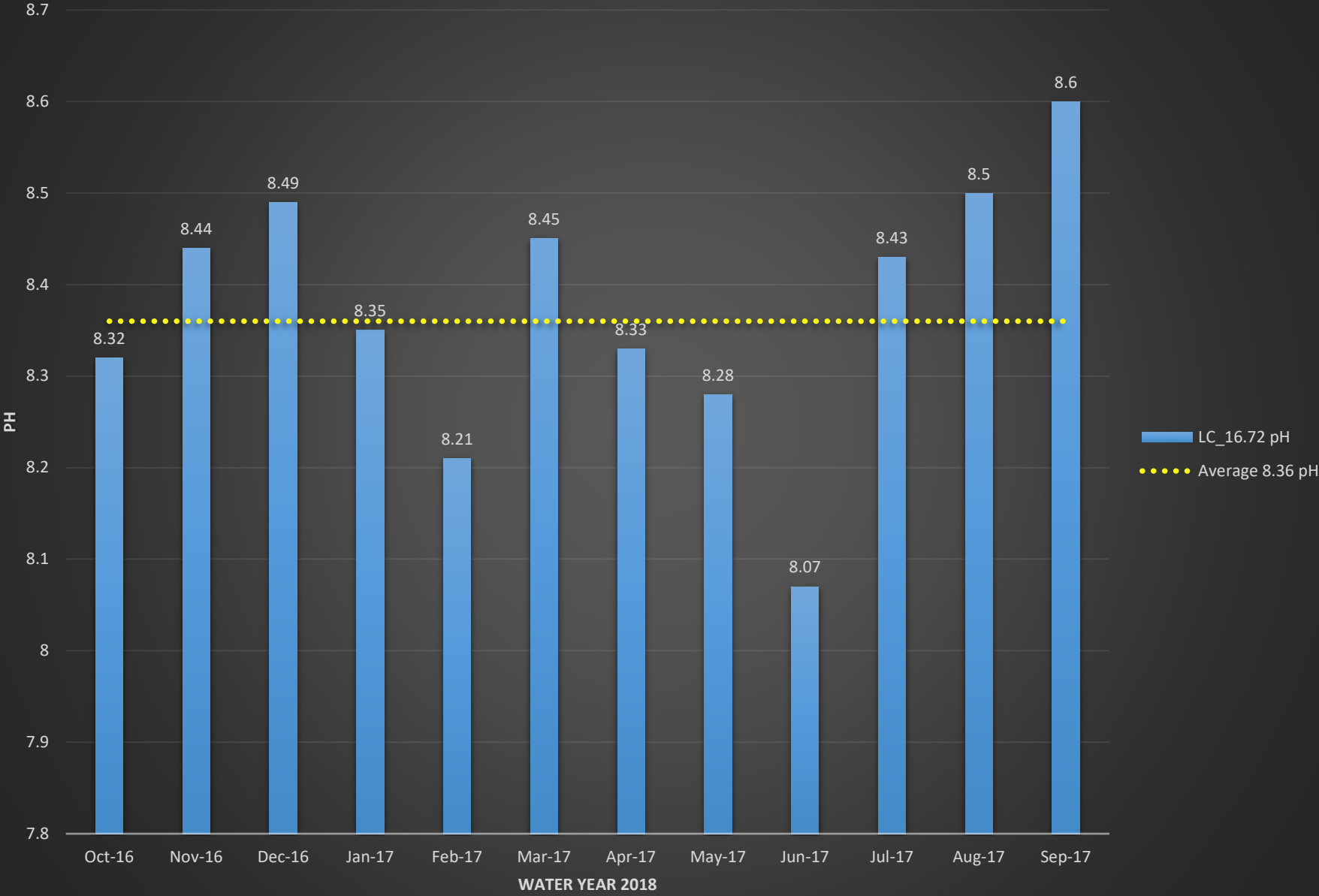
# LC\_16.72 Dissolved Oxygen (%)



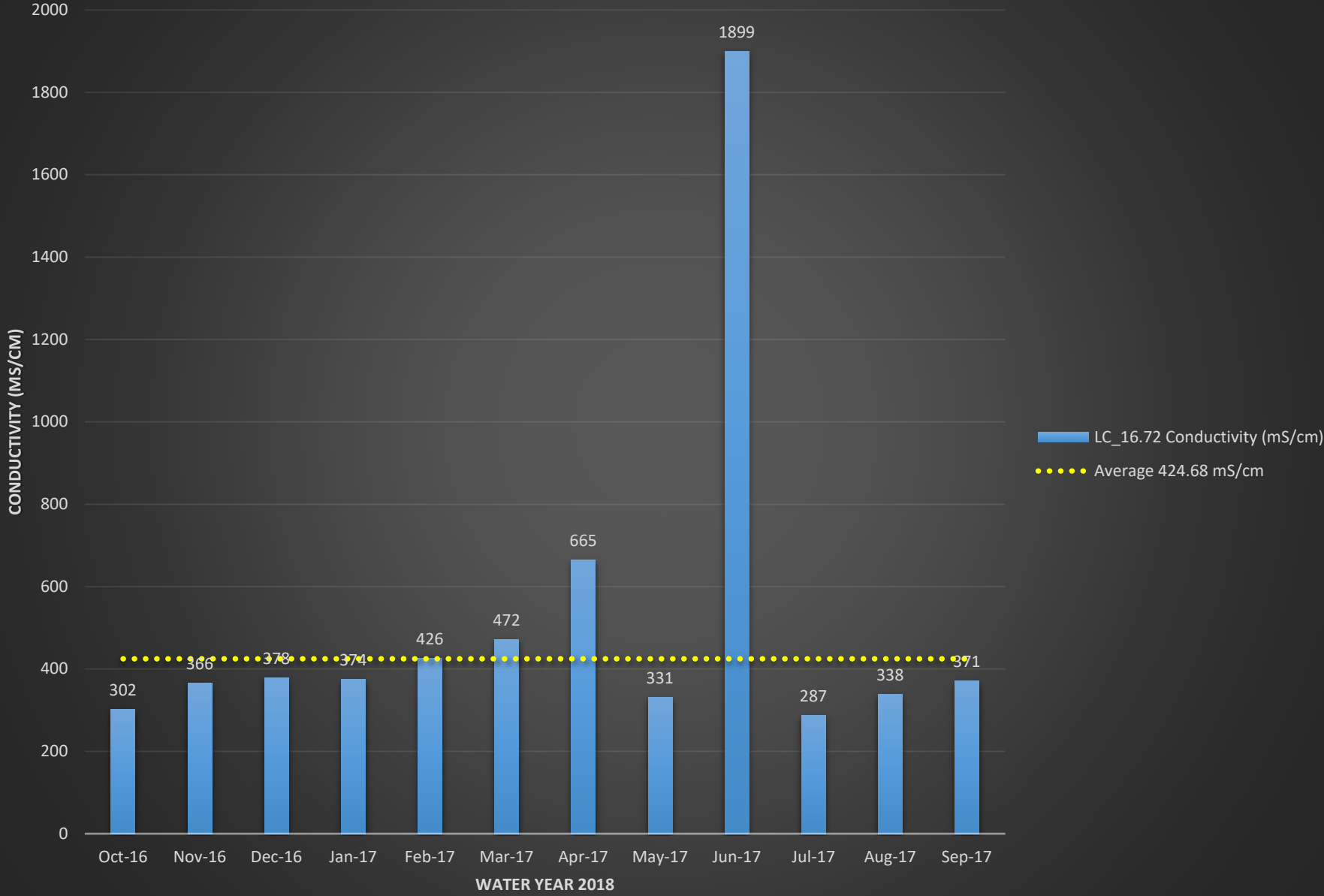
# LC\_16.72 Dissolved Oxygen (mg/L)



# LC\_16.72 pH

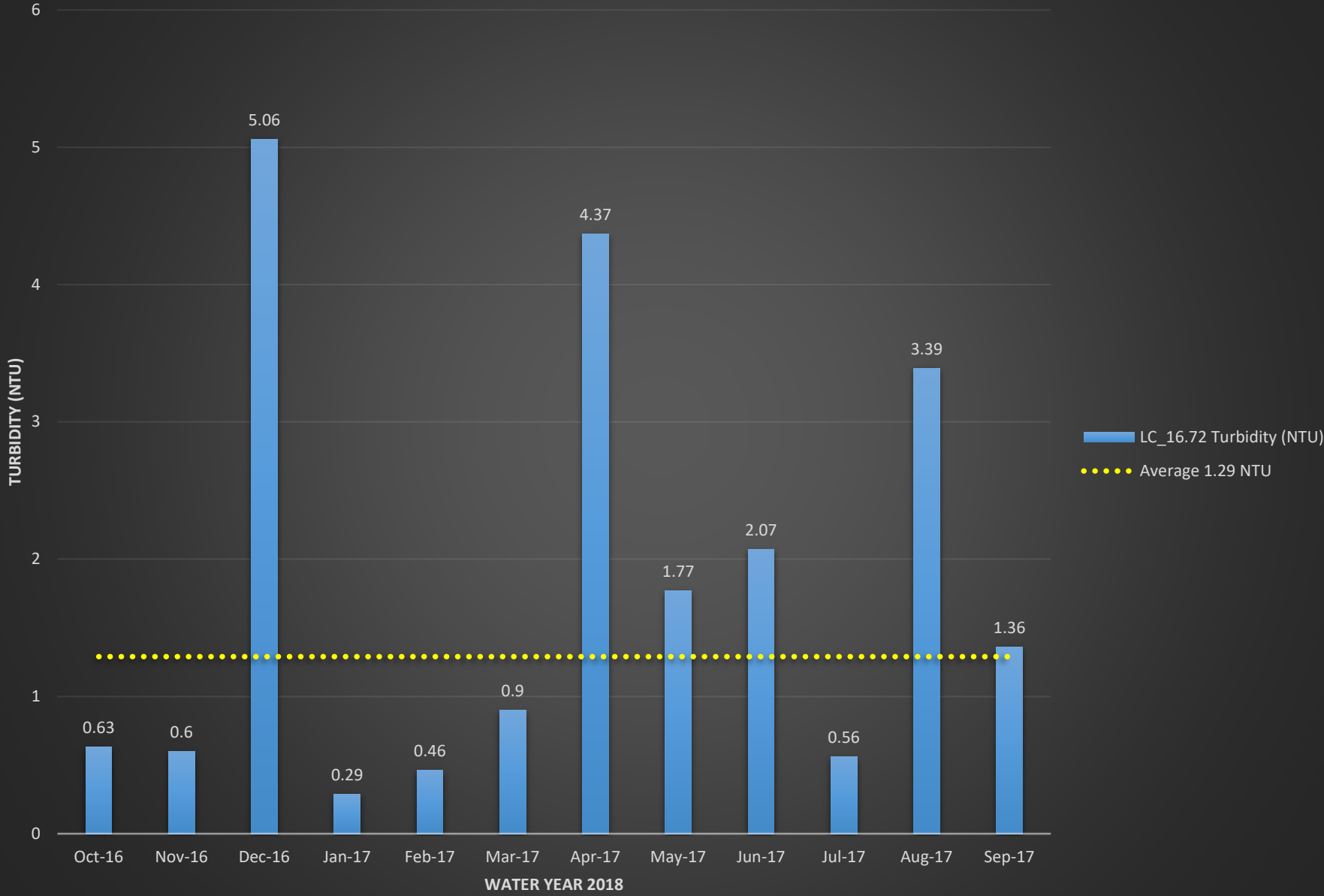


# LC\_16.72 Conductivity (mS/cm)

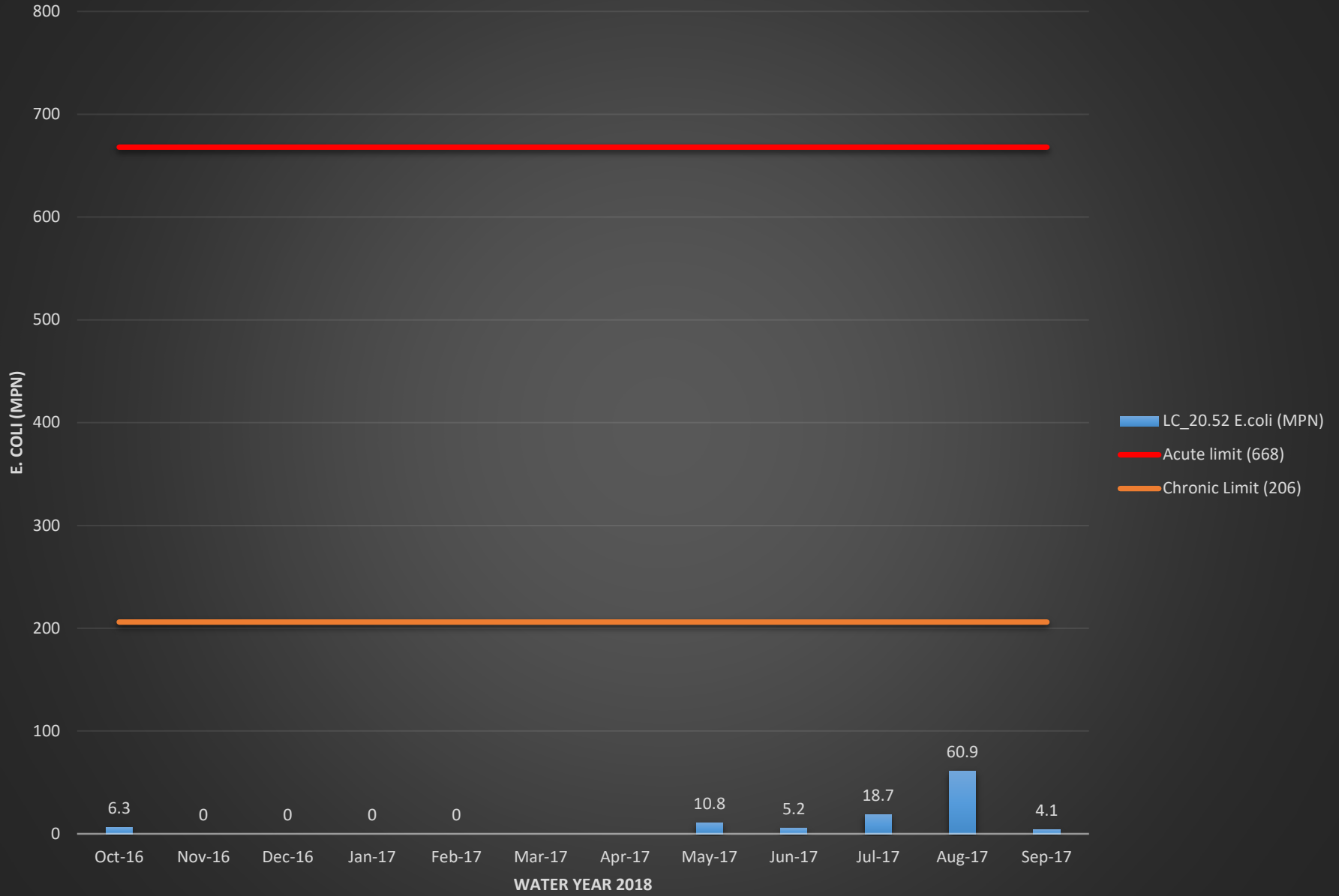




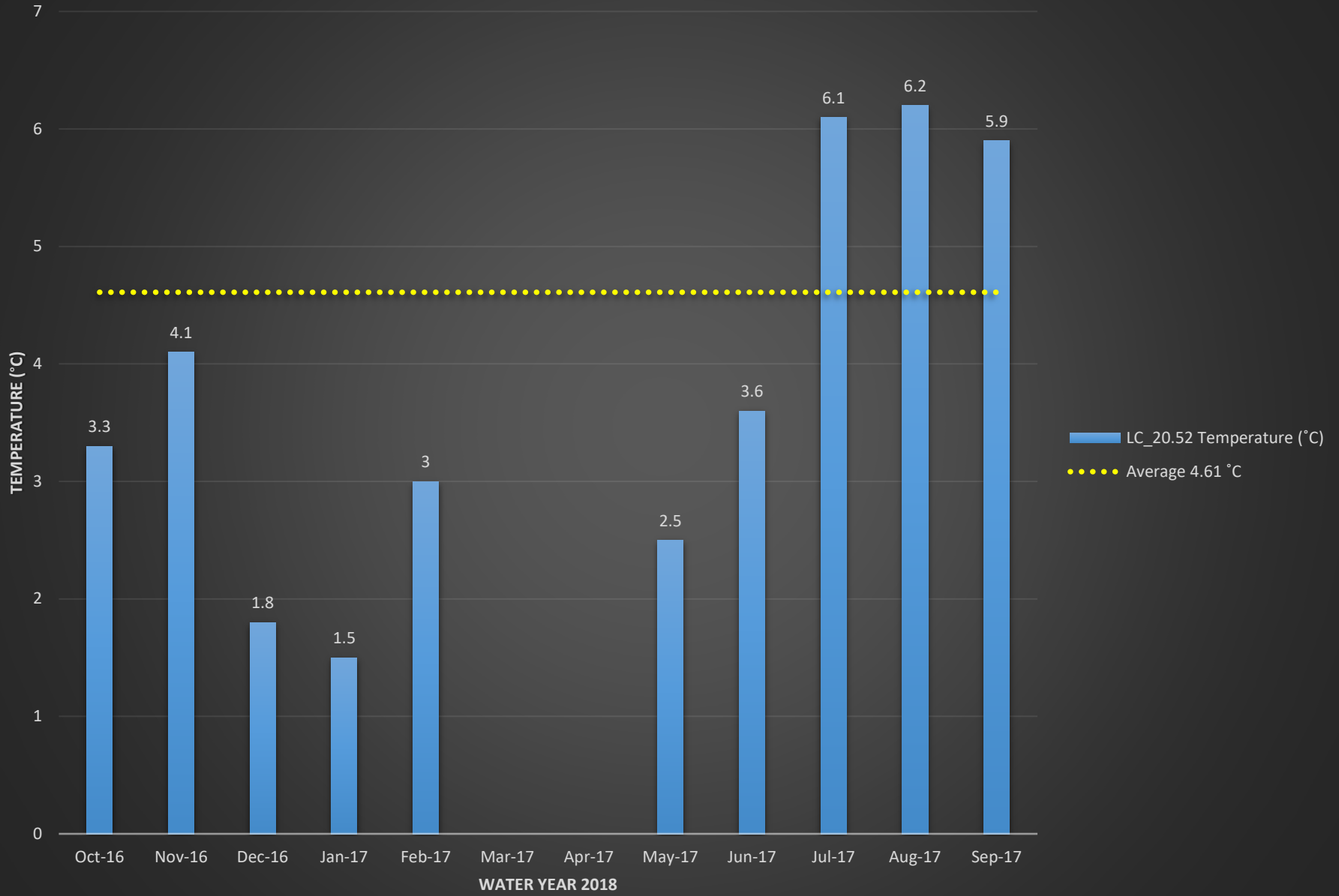
# LC\_16.72 Turbidity (NTU)



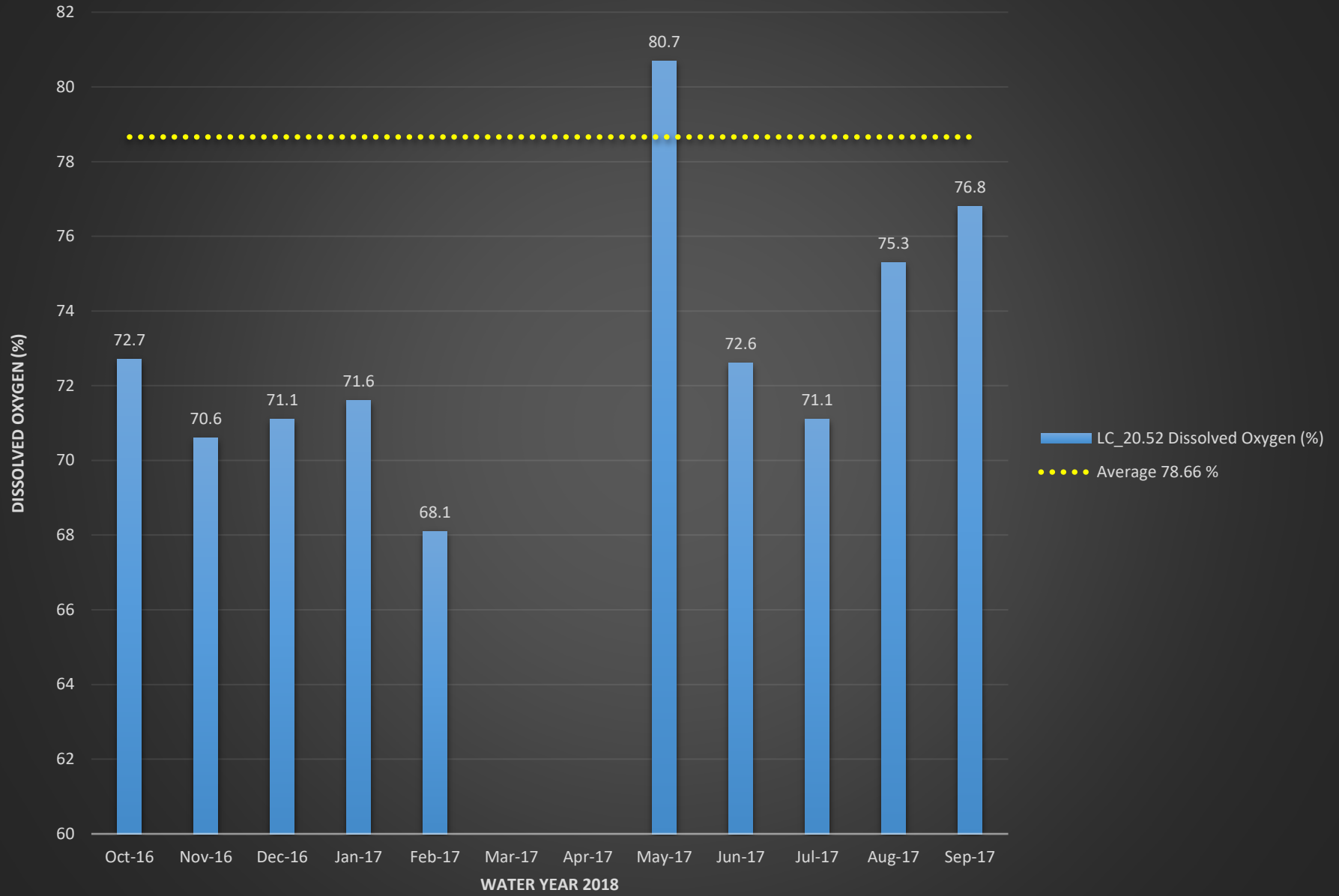
# LC\_20.52 E.coli (MPN)



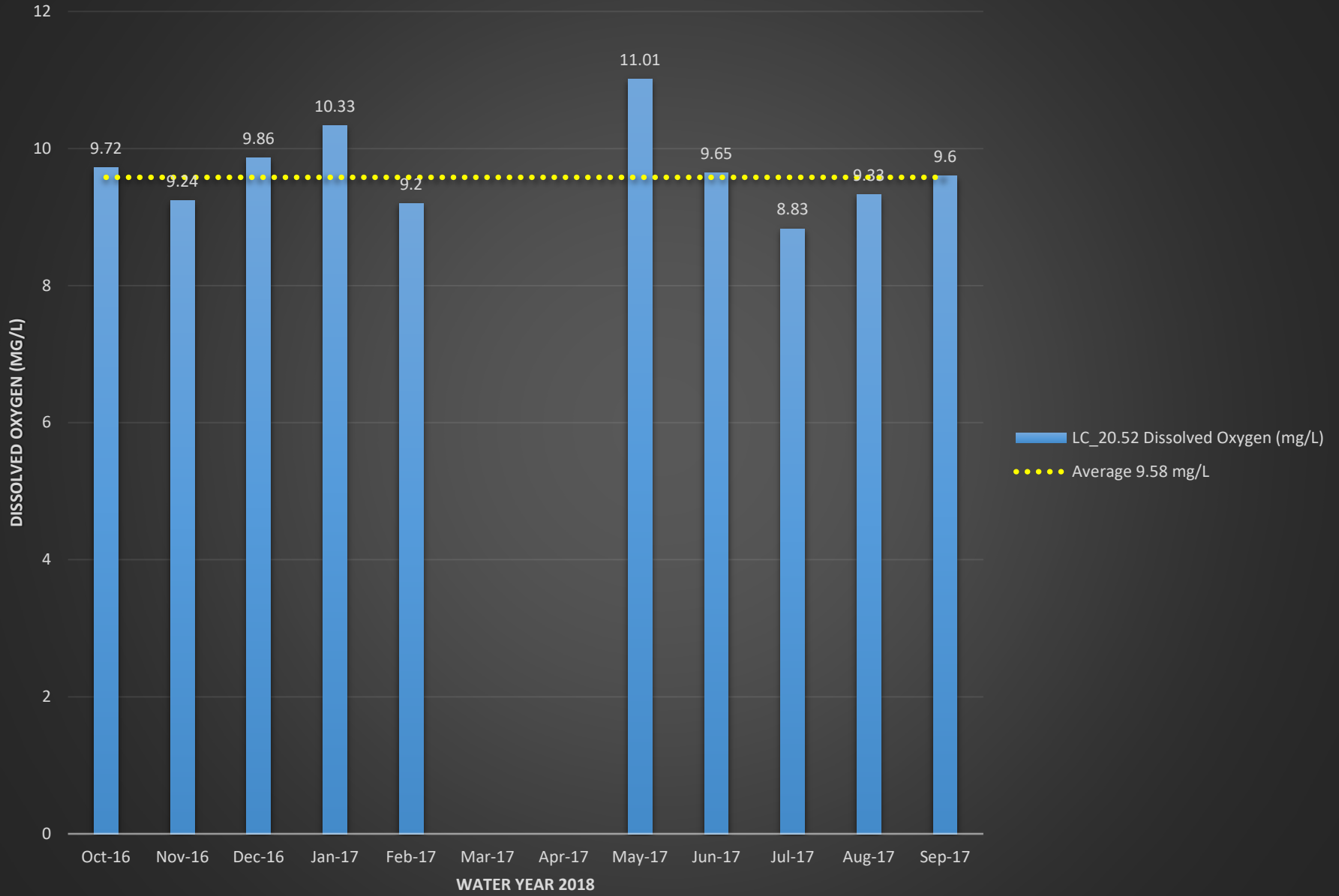
# LC\_20.52 Temperature (°C)



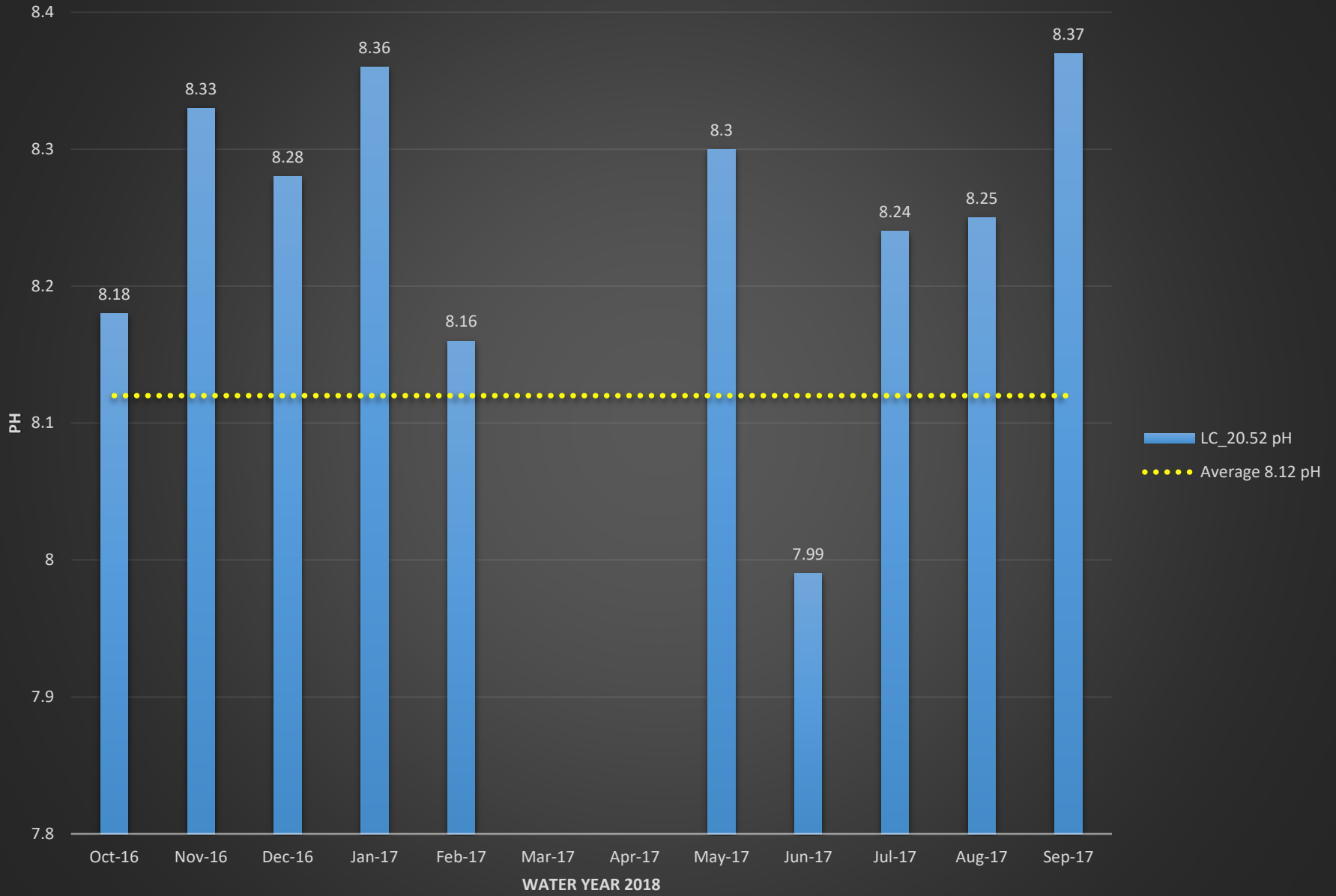
# LC\_20.52 Dissolved Oxygen (%)



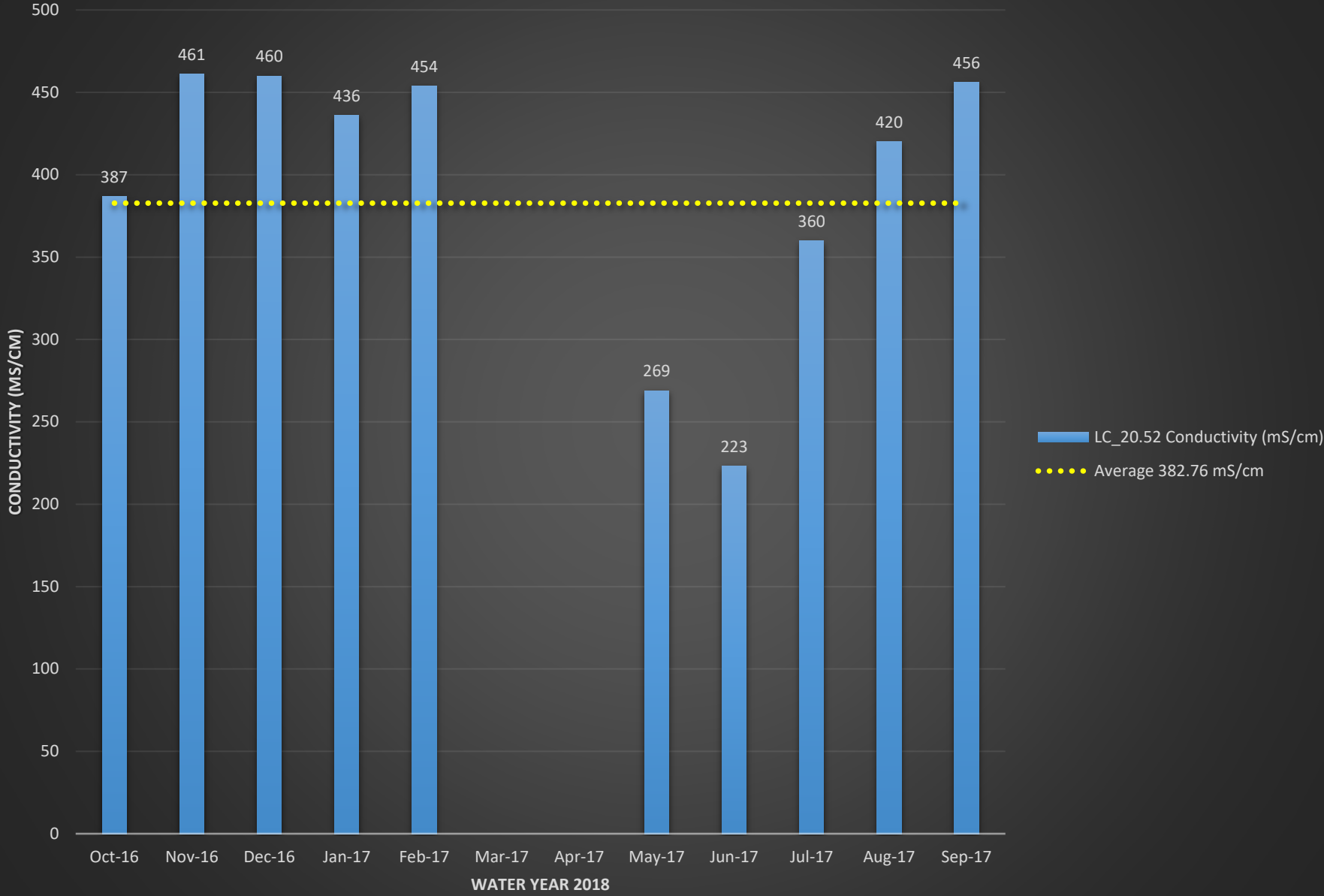
# LC\_20.52 Dissolved Oxygen (mg/L)



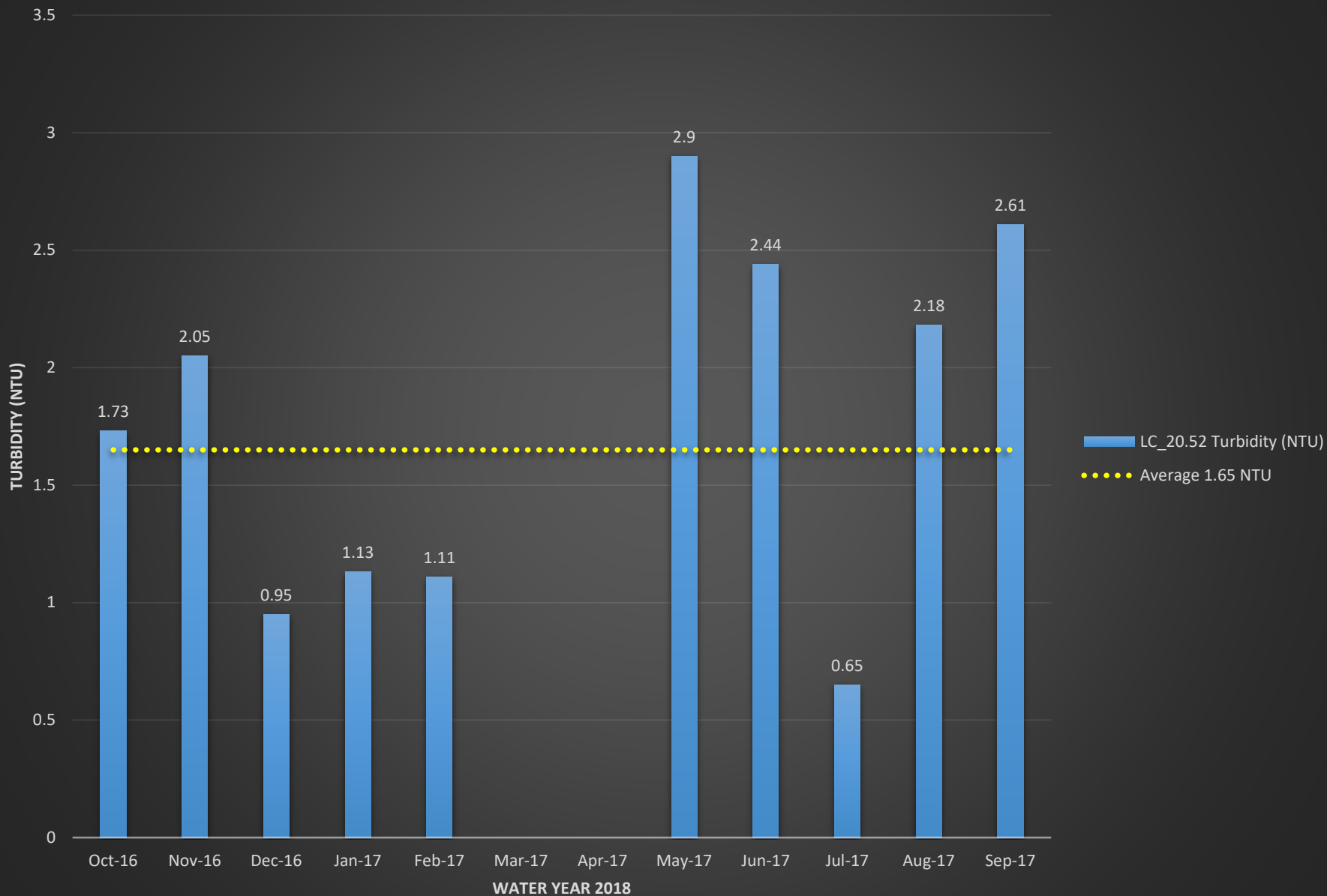
# LC\_20.52 pH



# LC\_20.52 Conductivity (mS/cm)



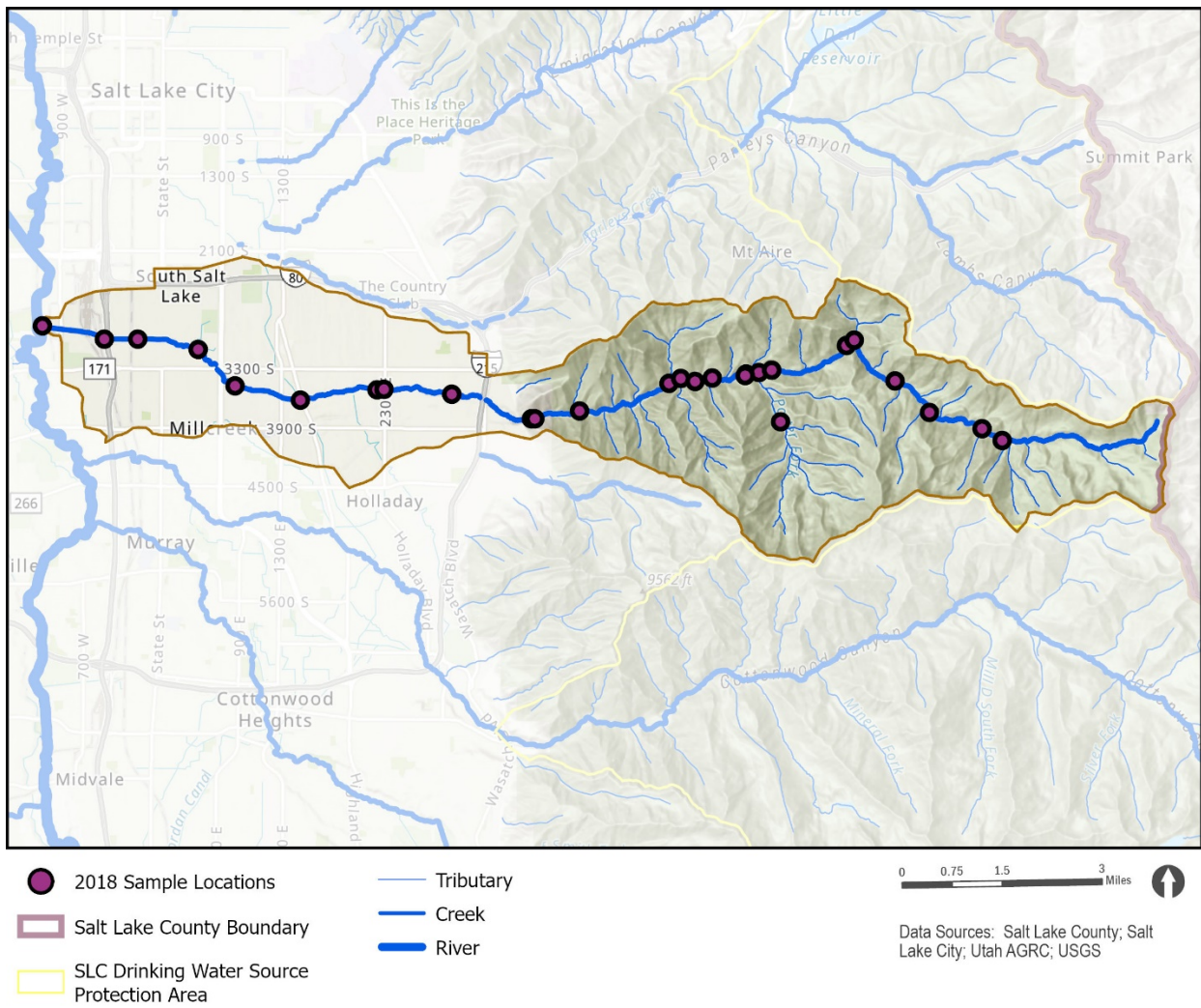
# LC\_20.52 Turbidity (NTU)



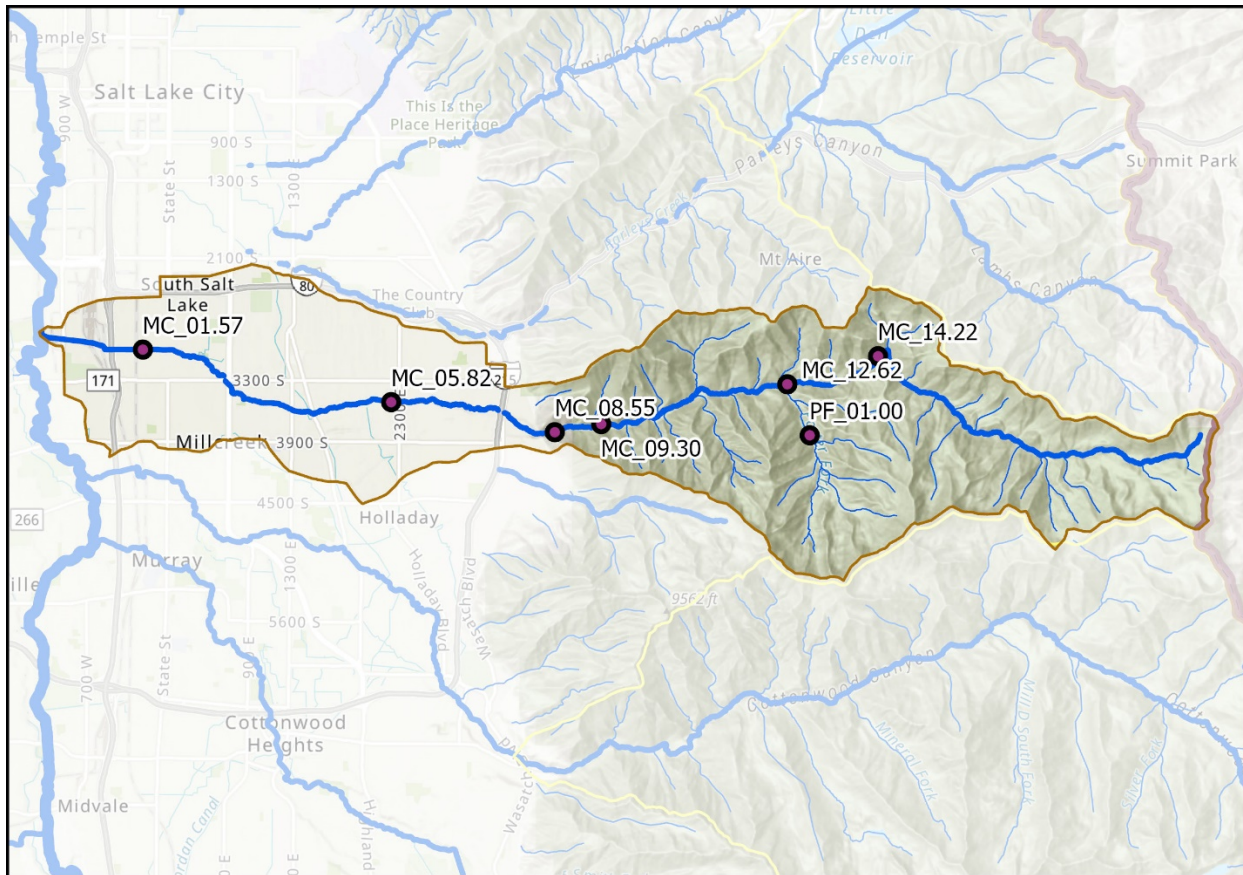


# MILL CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



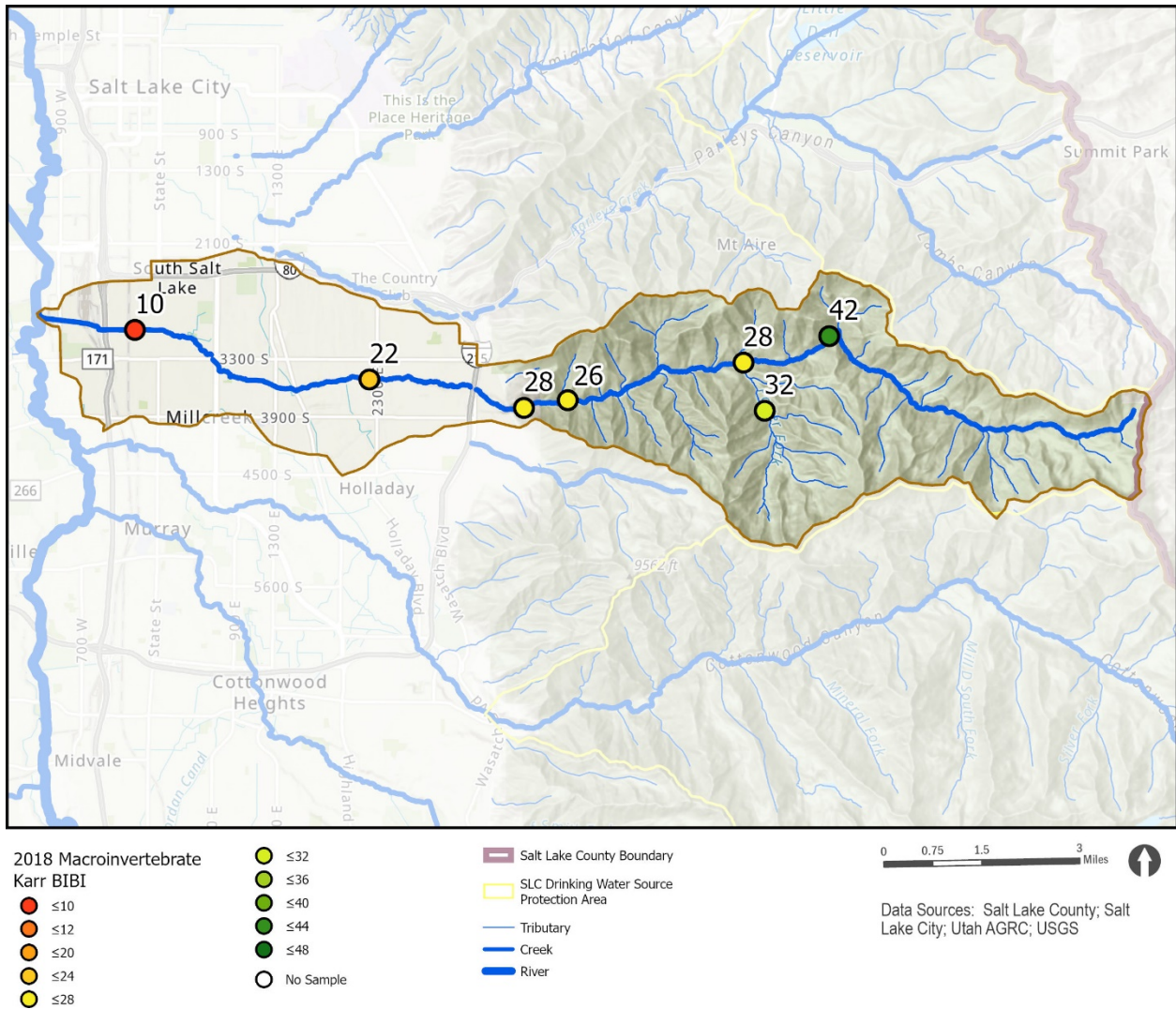
- 2018 Macroinvertebrate Sample Locations
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



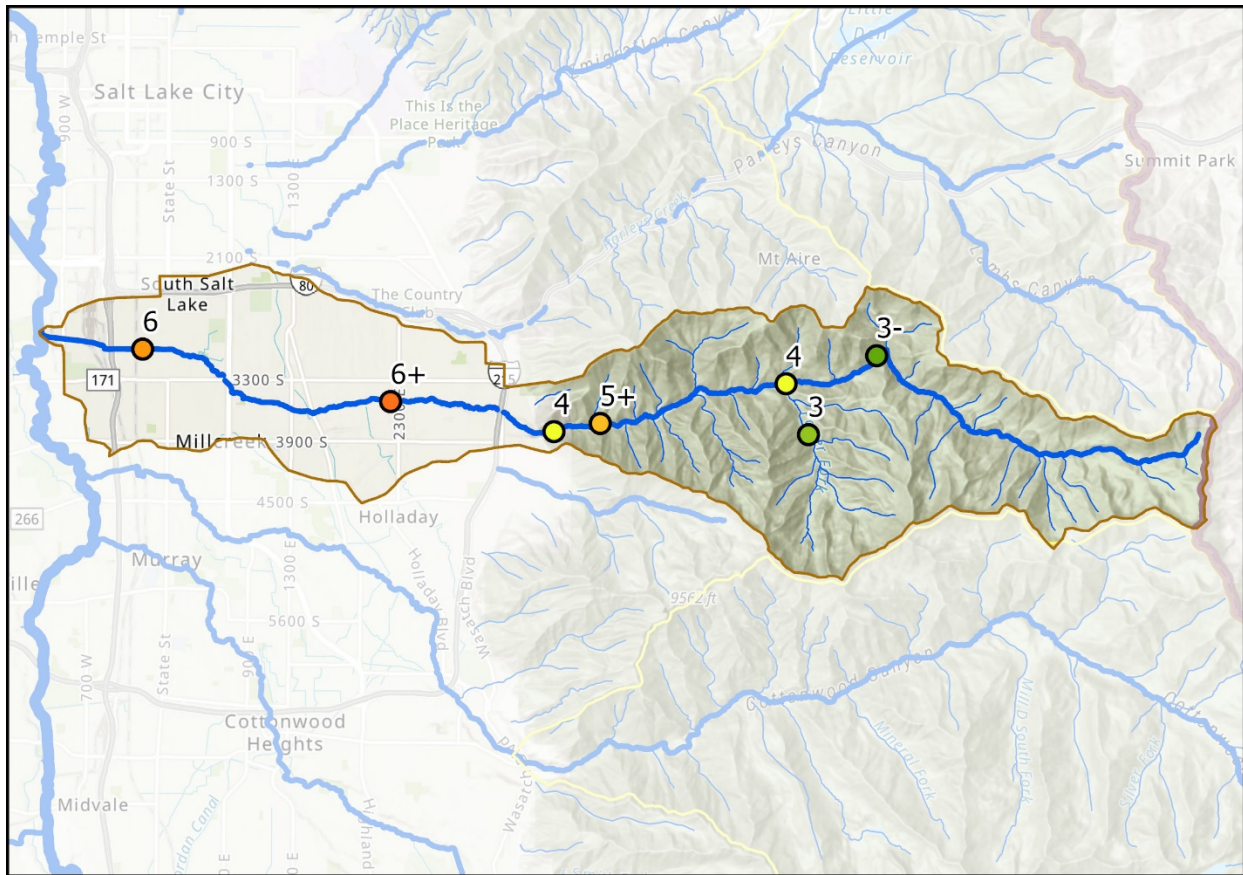
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



# Macroinvertebrate Biological Condition Gradient (BCG) Results



2018 Macroinvertebrate Biological Condition Gradient

- 2-
- 2
- 3-
- 3
- 3+

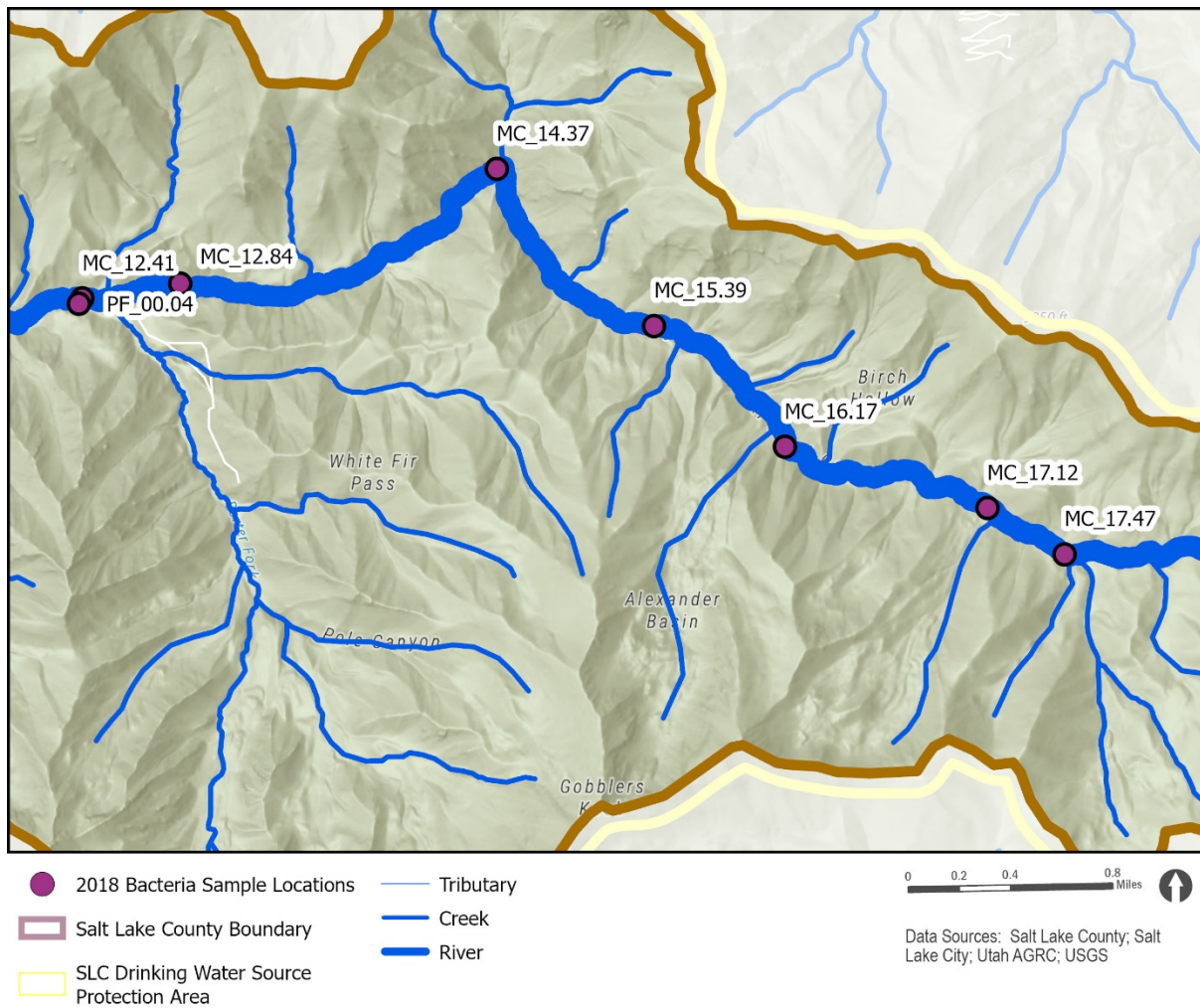
- 4
- 5
- 5+
- 6
- 6+
- No Sample

- Salt Lake County Boundary
- ▭ SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

Subwatershed Map with Bacteria Sample Sites (upper)





Subwatershed Map with Bacteria Sample Sites (middle)

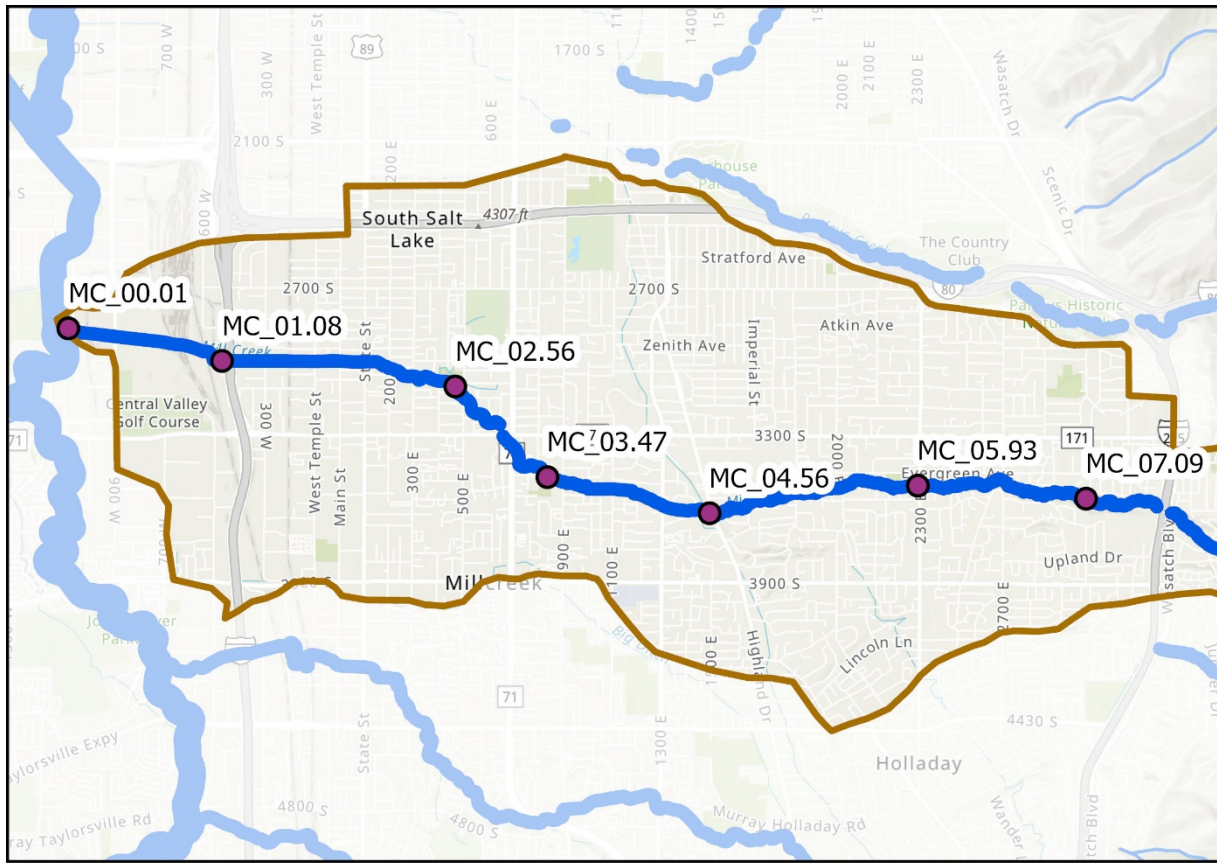


- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- Tributary
- Creek
- River

0 0.13 0.25 0.5 Miles

Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

## Subwatershed Map with Bacteria Sample Sites (lower)



- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- Tributary
- Creek
- River

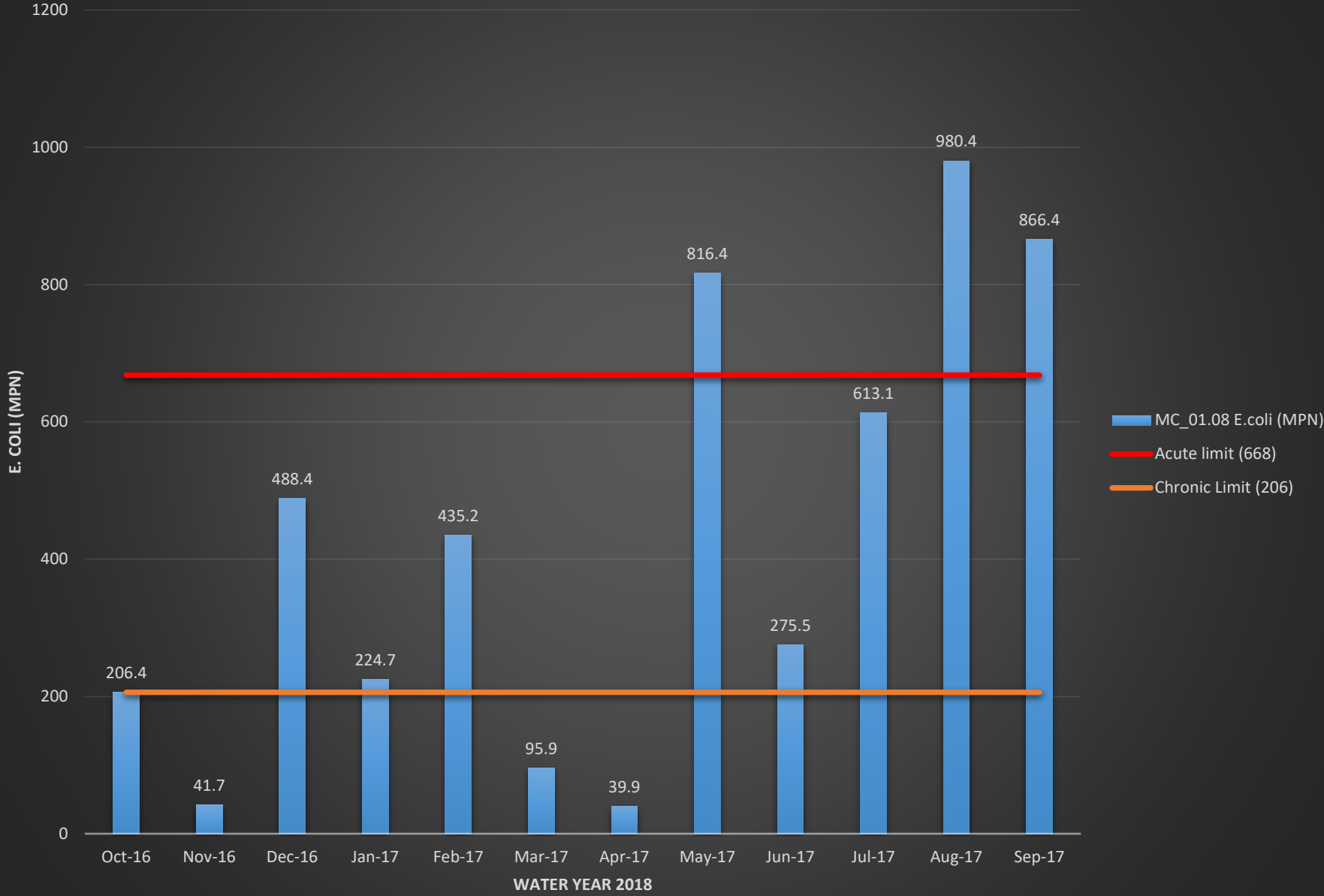


Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

## *E. coli* & Field Parameter Graphs

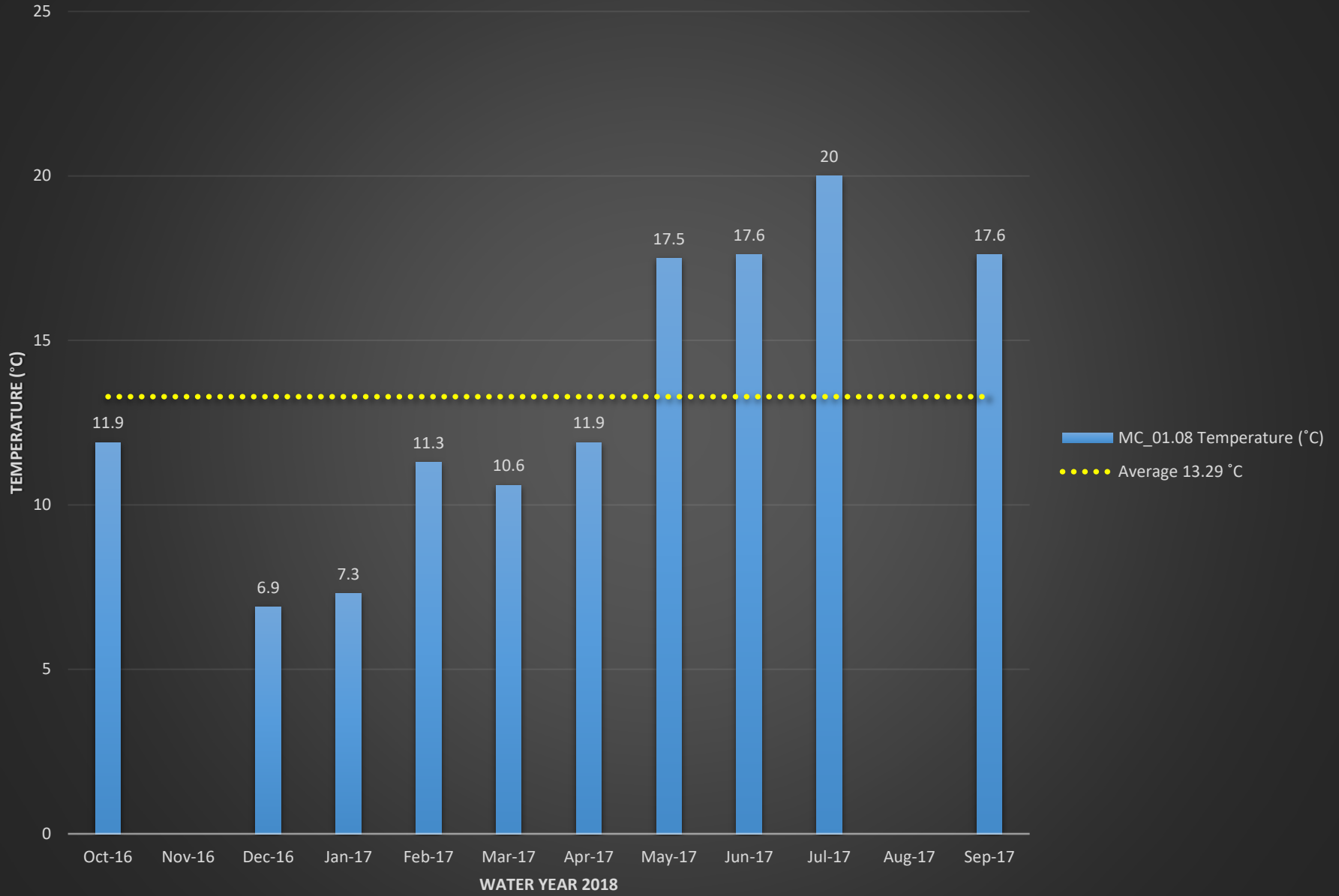
Graphs start on next page...

# MC\_01.08 E.coli (MPN)

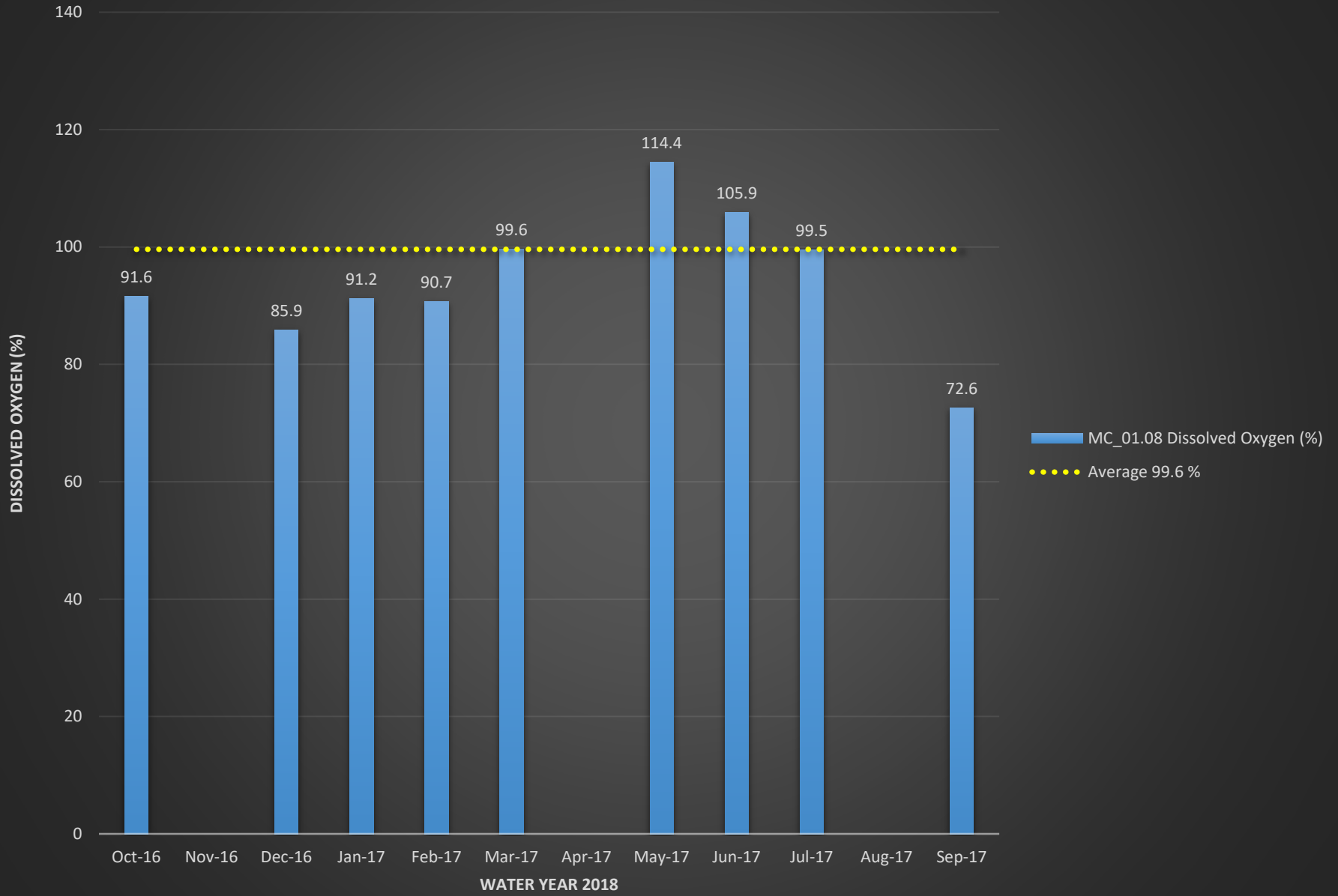




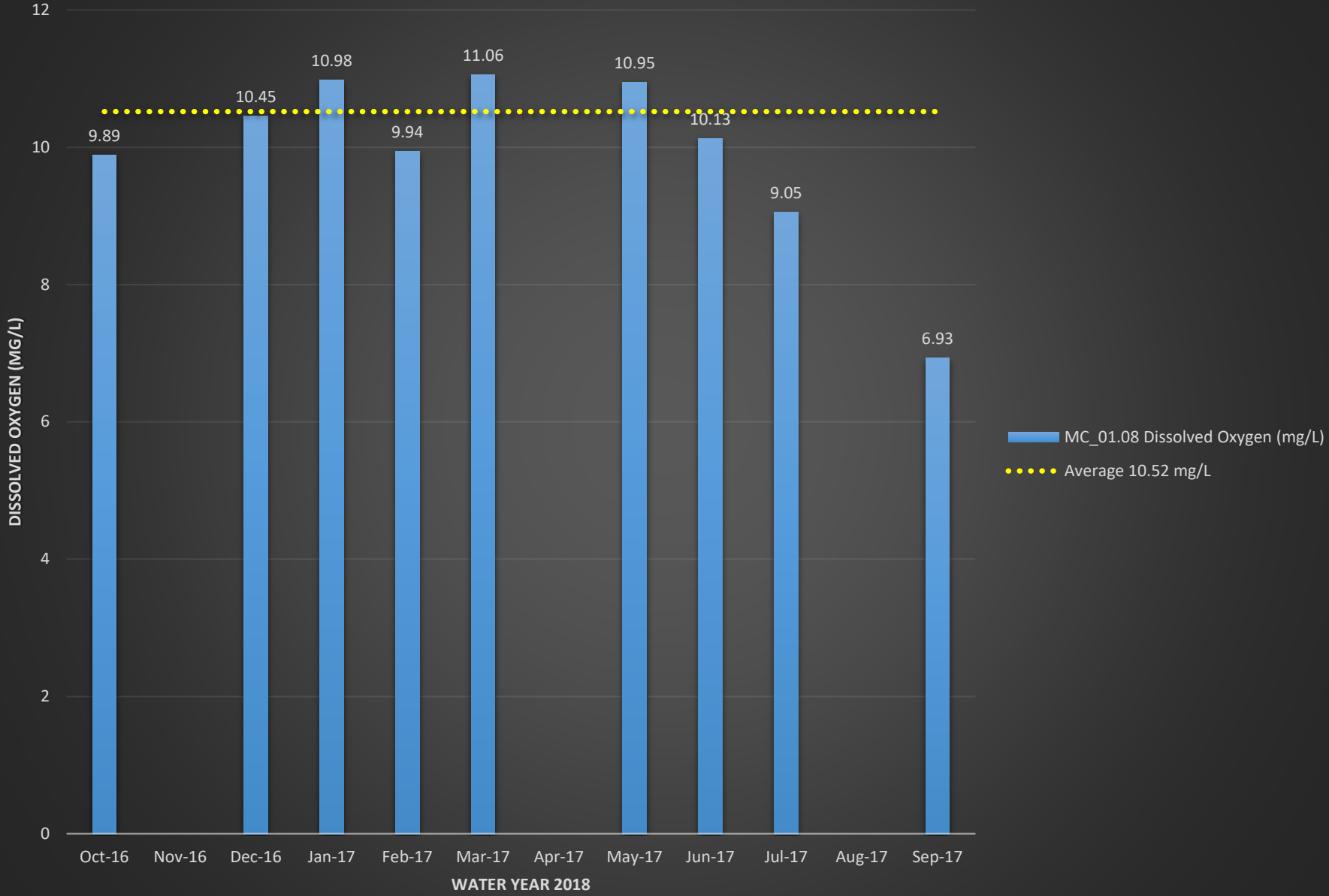
# MC\_01.08 Temperature (°C)



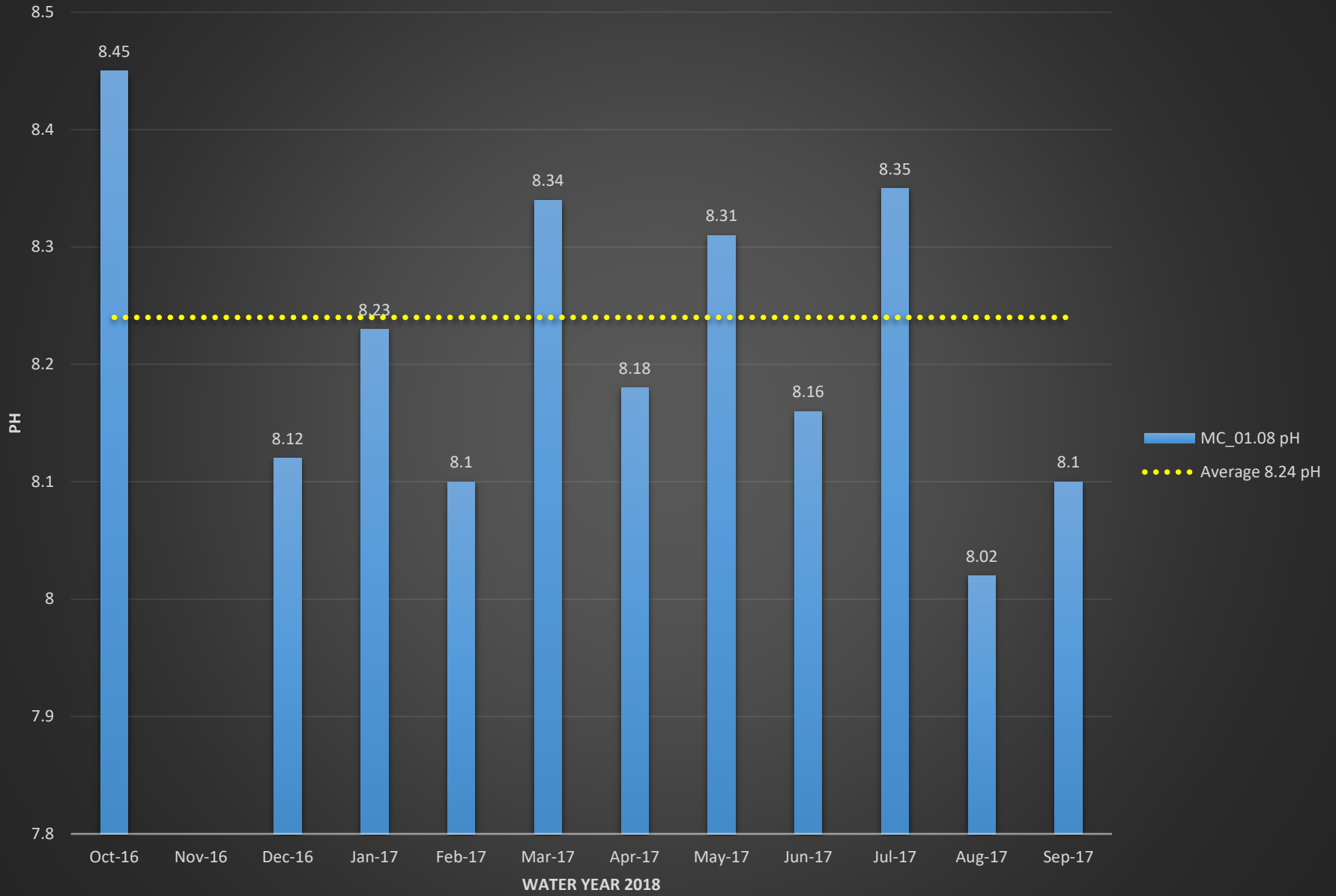
# MC\_01.08 Dissolved Oxygen (%)



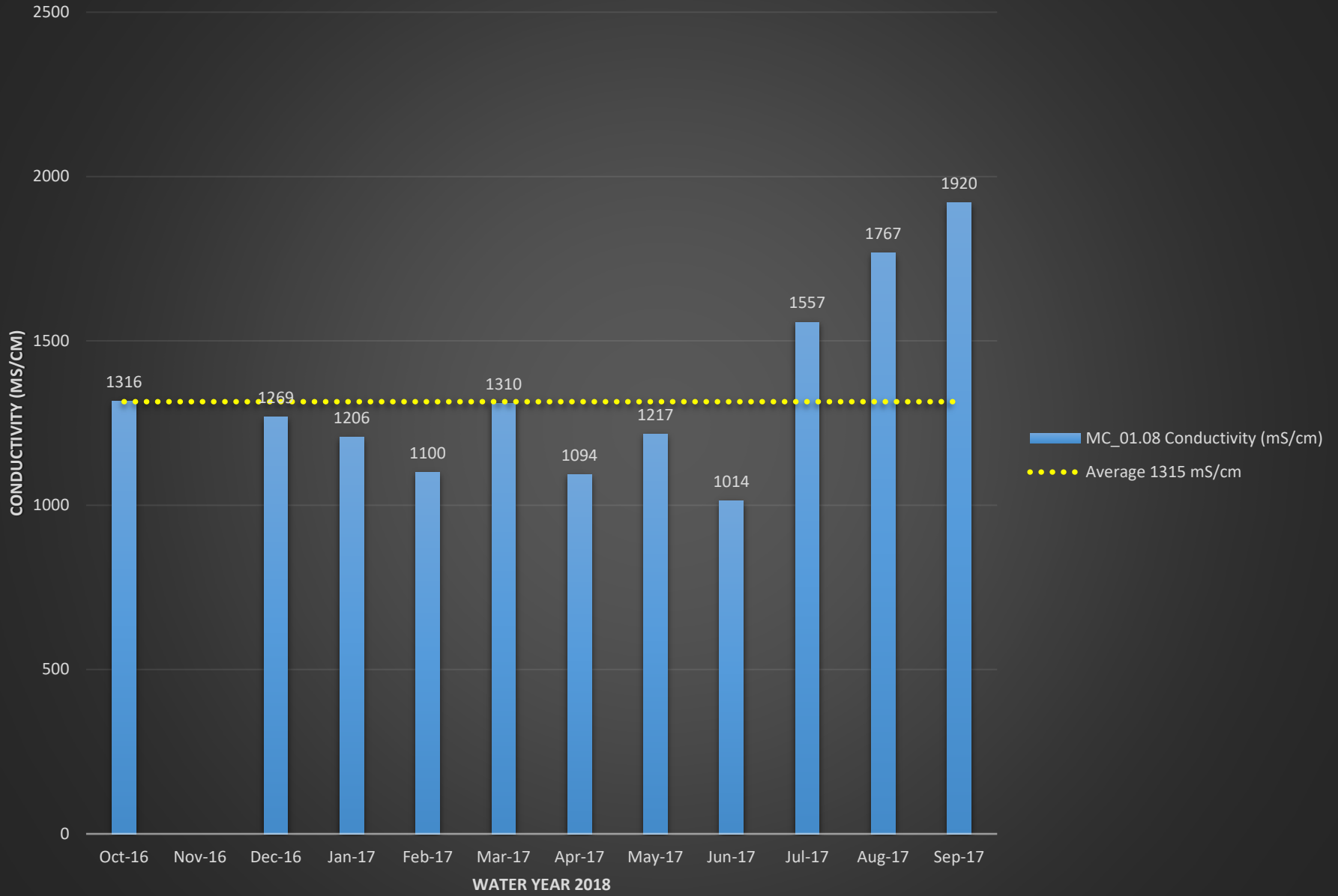
# MC\_01.08 Dissolved Oxygen (mg/L)



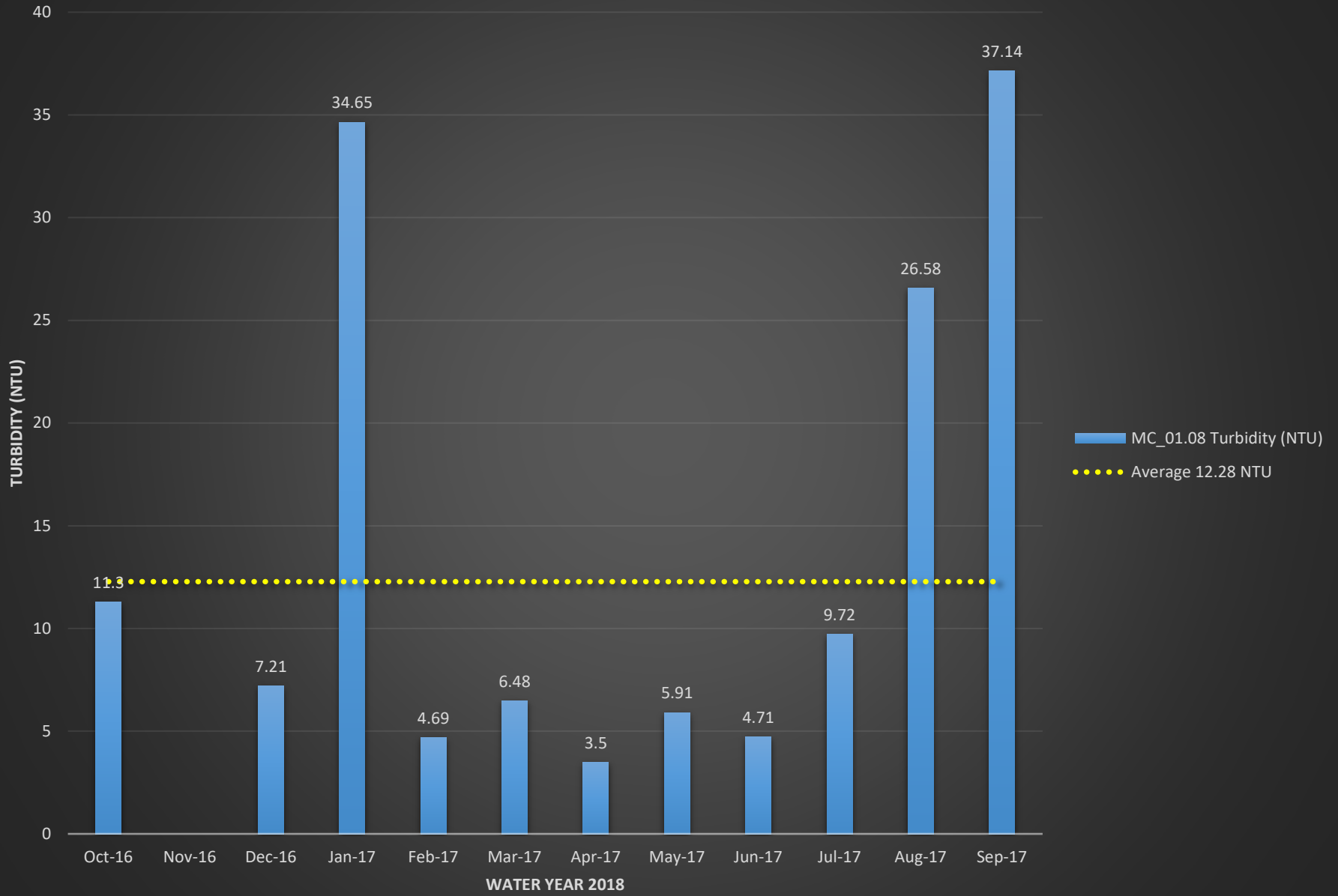
# MC\_01.08 pH



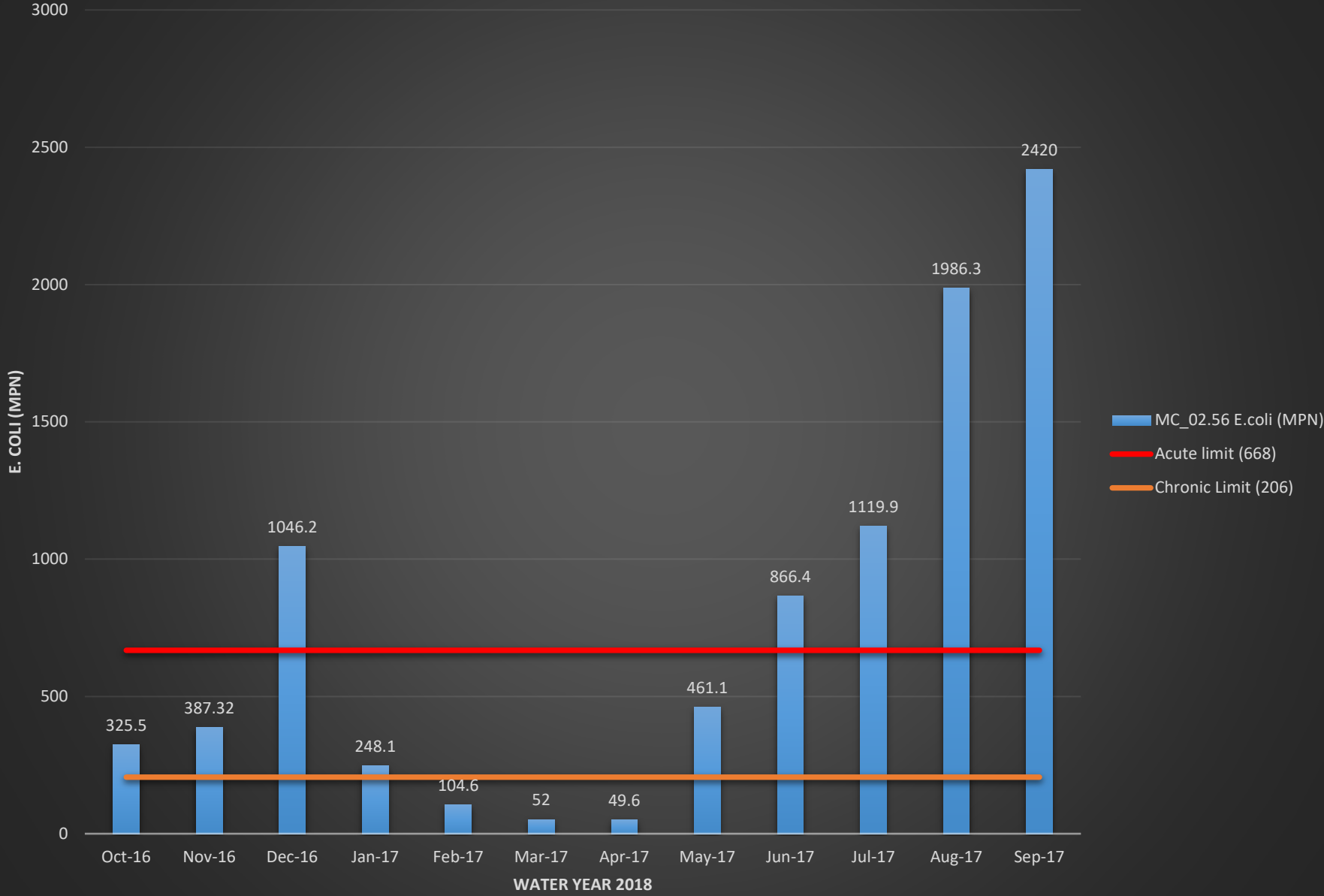
# MC\_01.08 Conductivity (mS/cm)



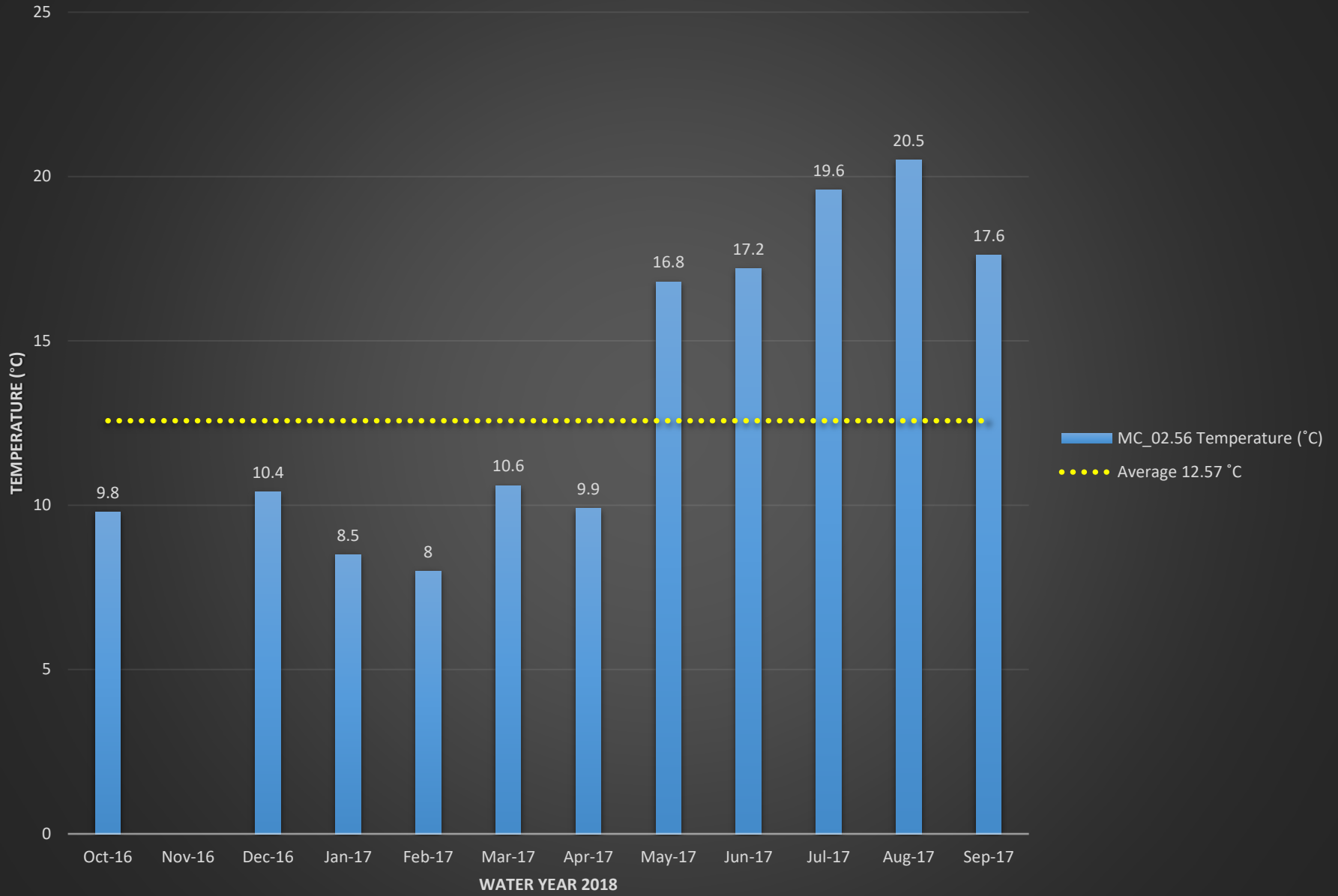
# MC\_01.08 Turbidity (NTU)



# MC\_02.56 E.coli (MPN)

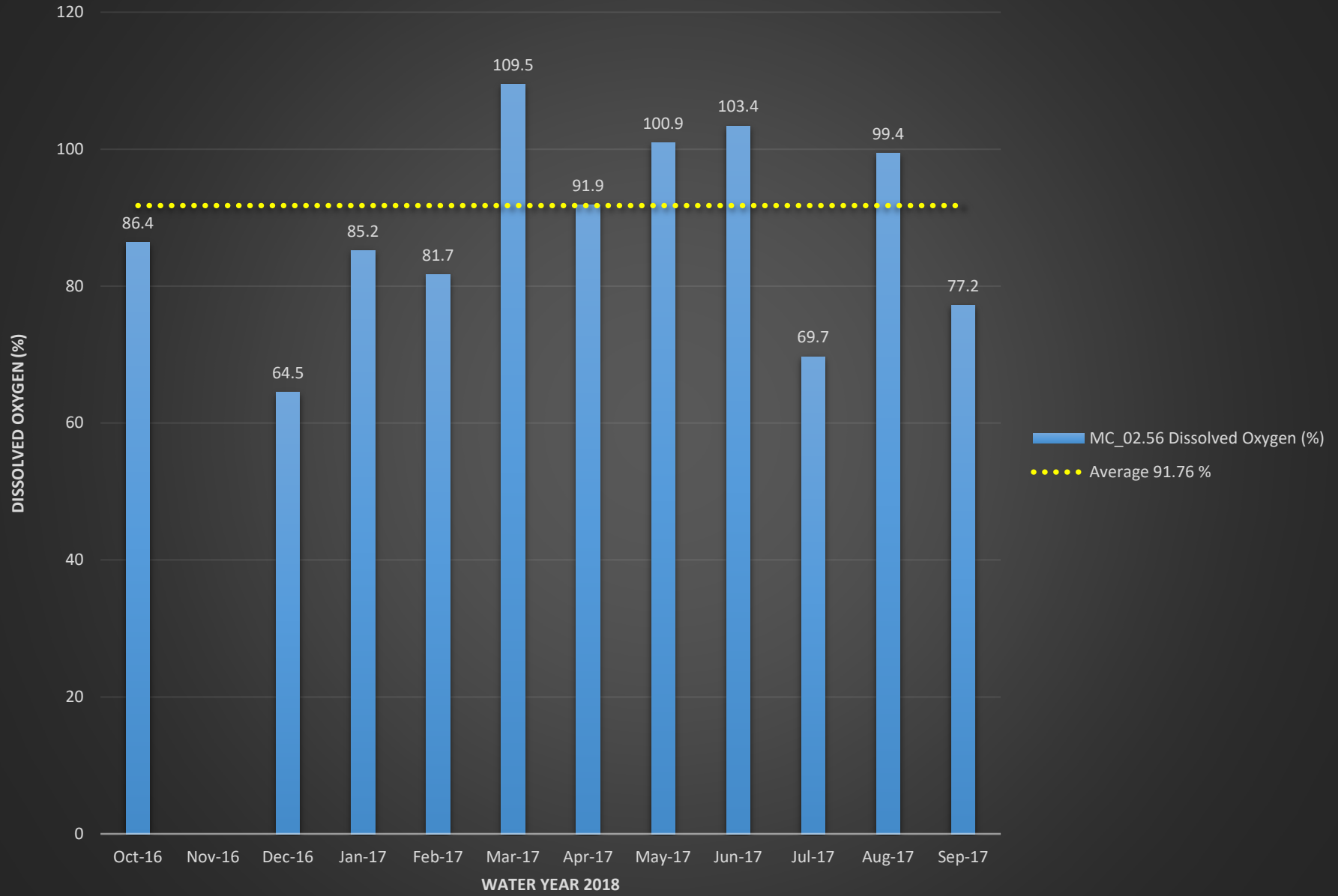


# MC\_02.56 Temperature (°C)

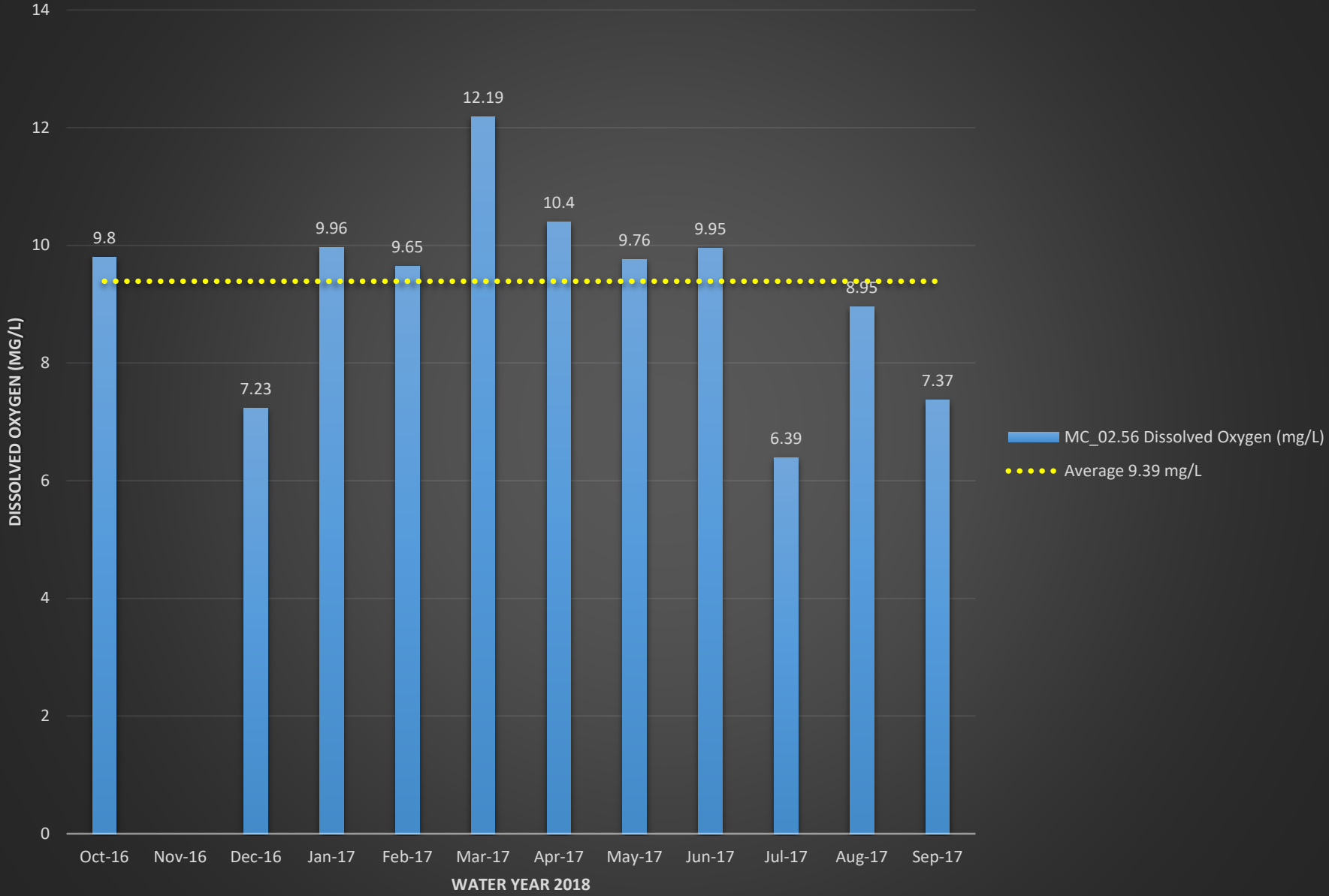




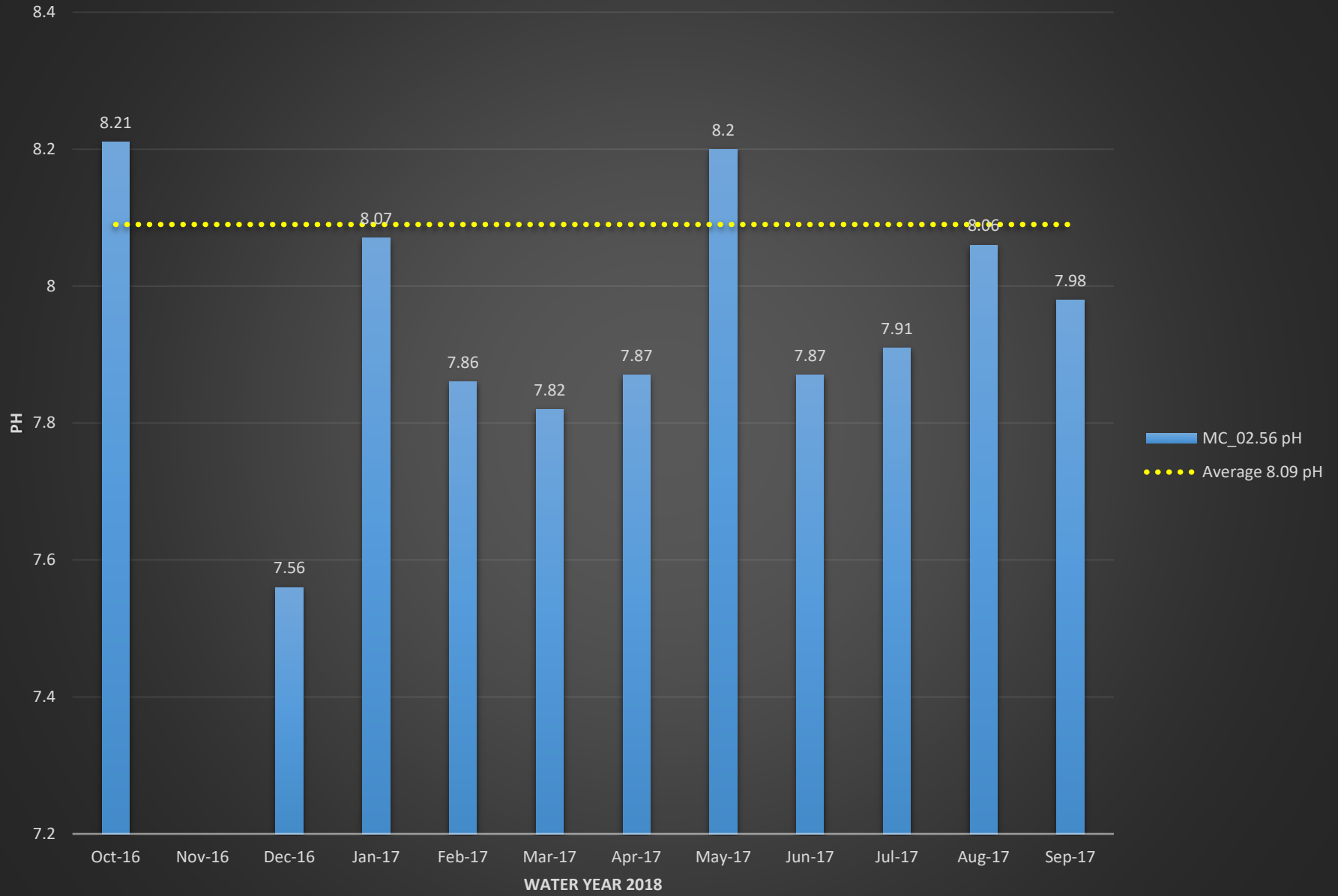
# MC\_02.56 Dissolved Oxygen (%)



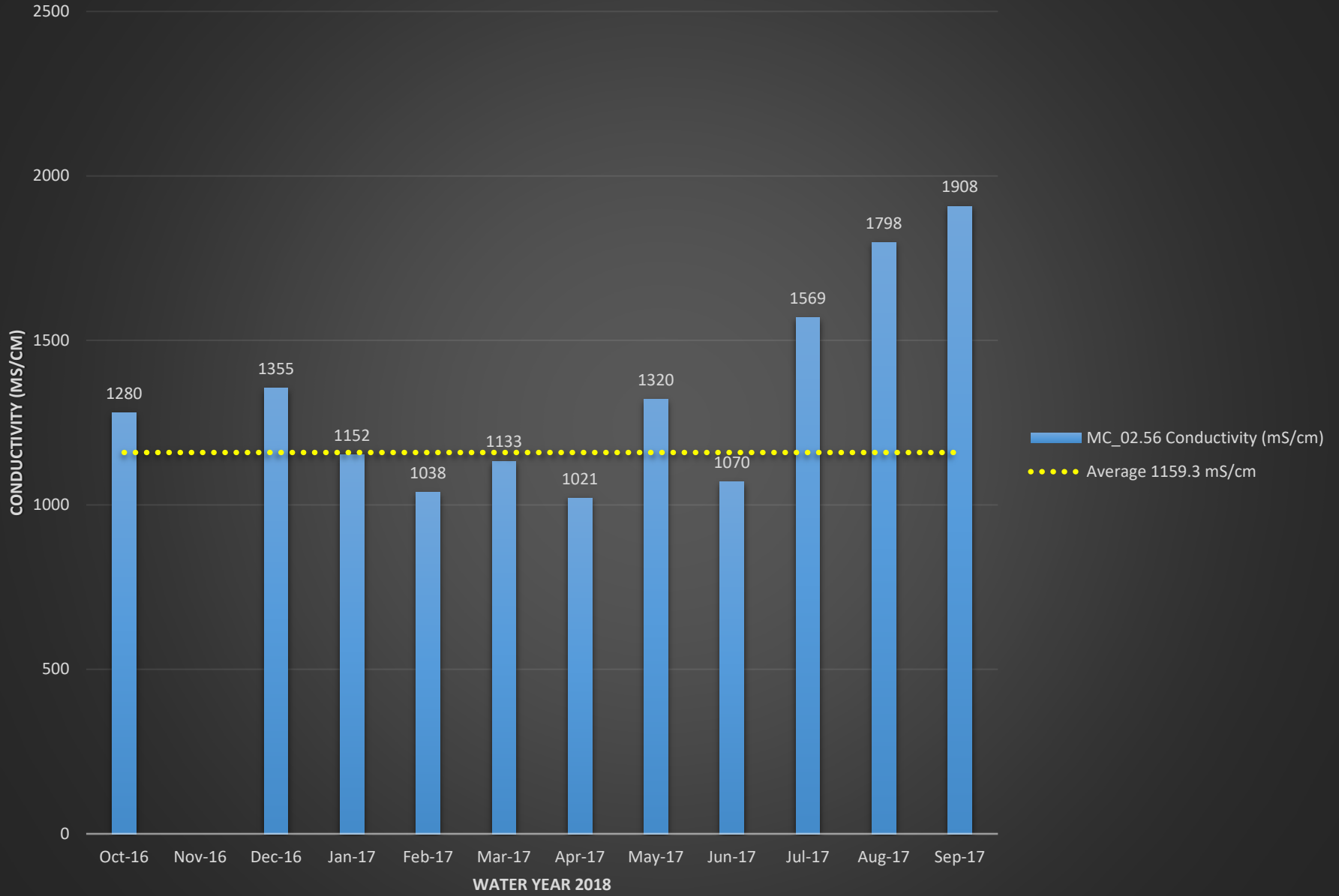
# MC\_02.56 Dissolved Oxygen (mg/L)



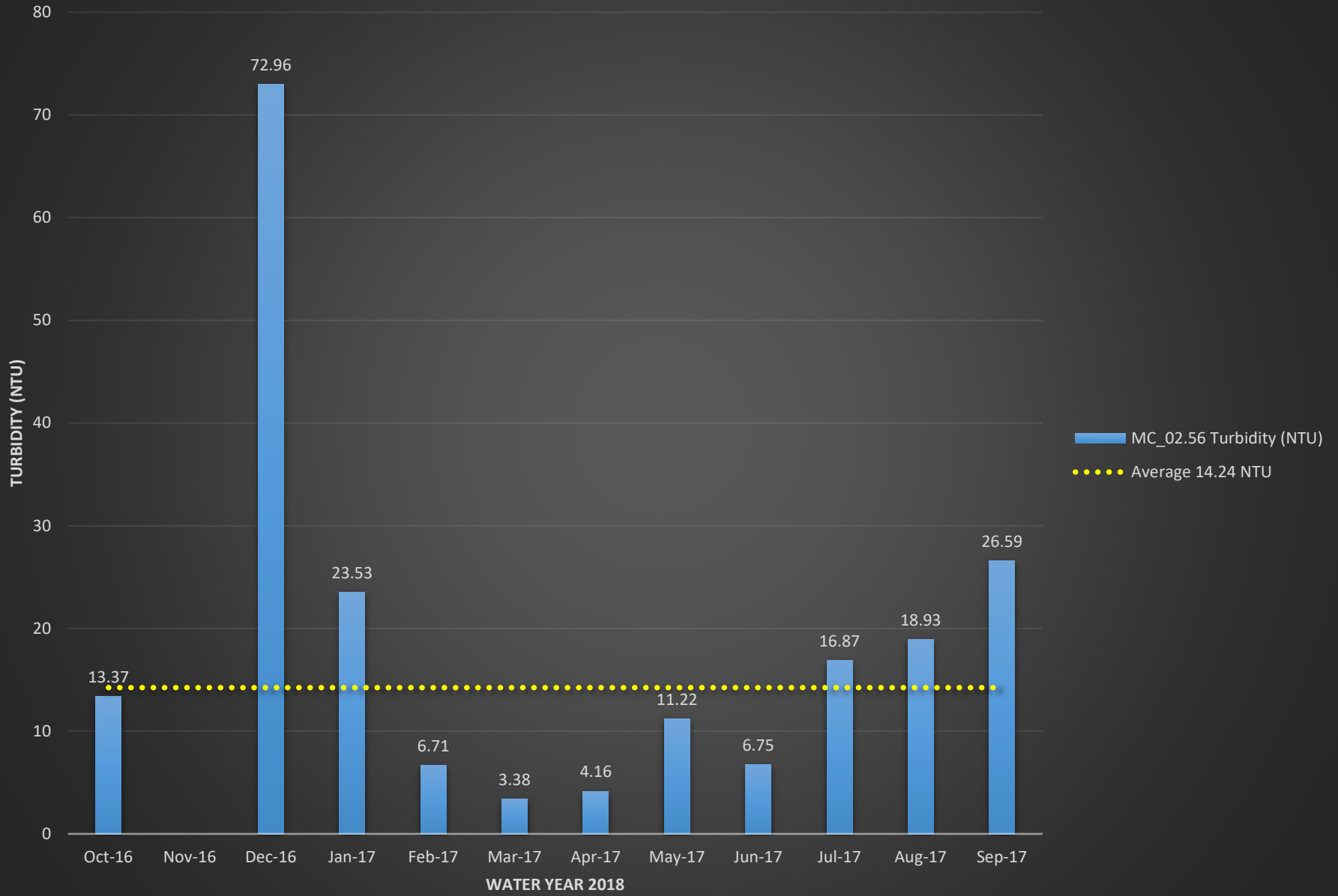
# MC\_02.56 pH



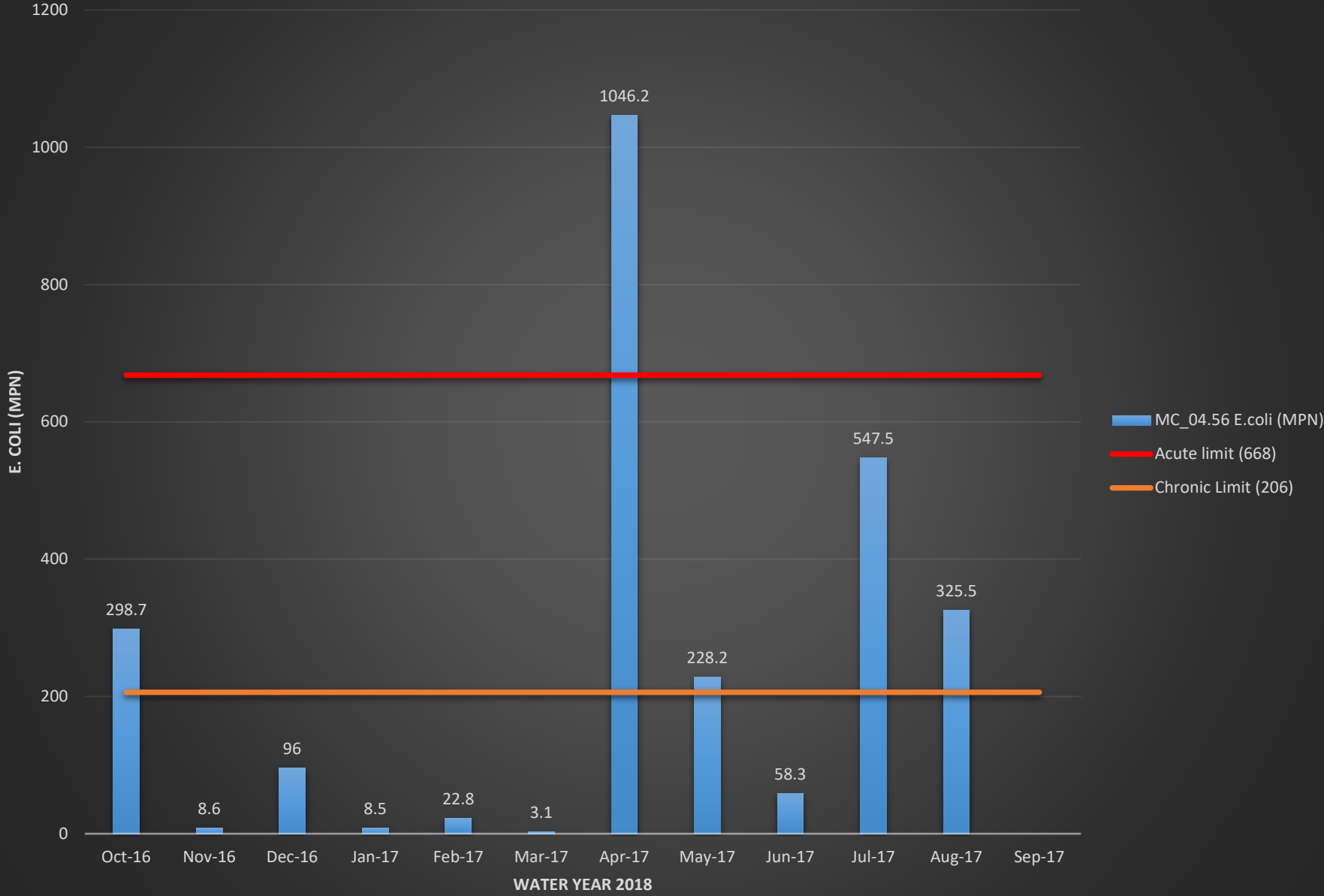
# MC\_02.56 Conductivity (mS/cm)



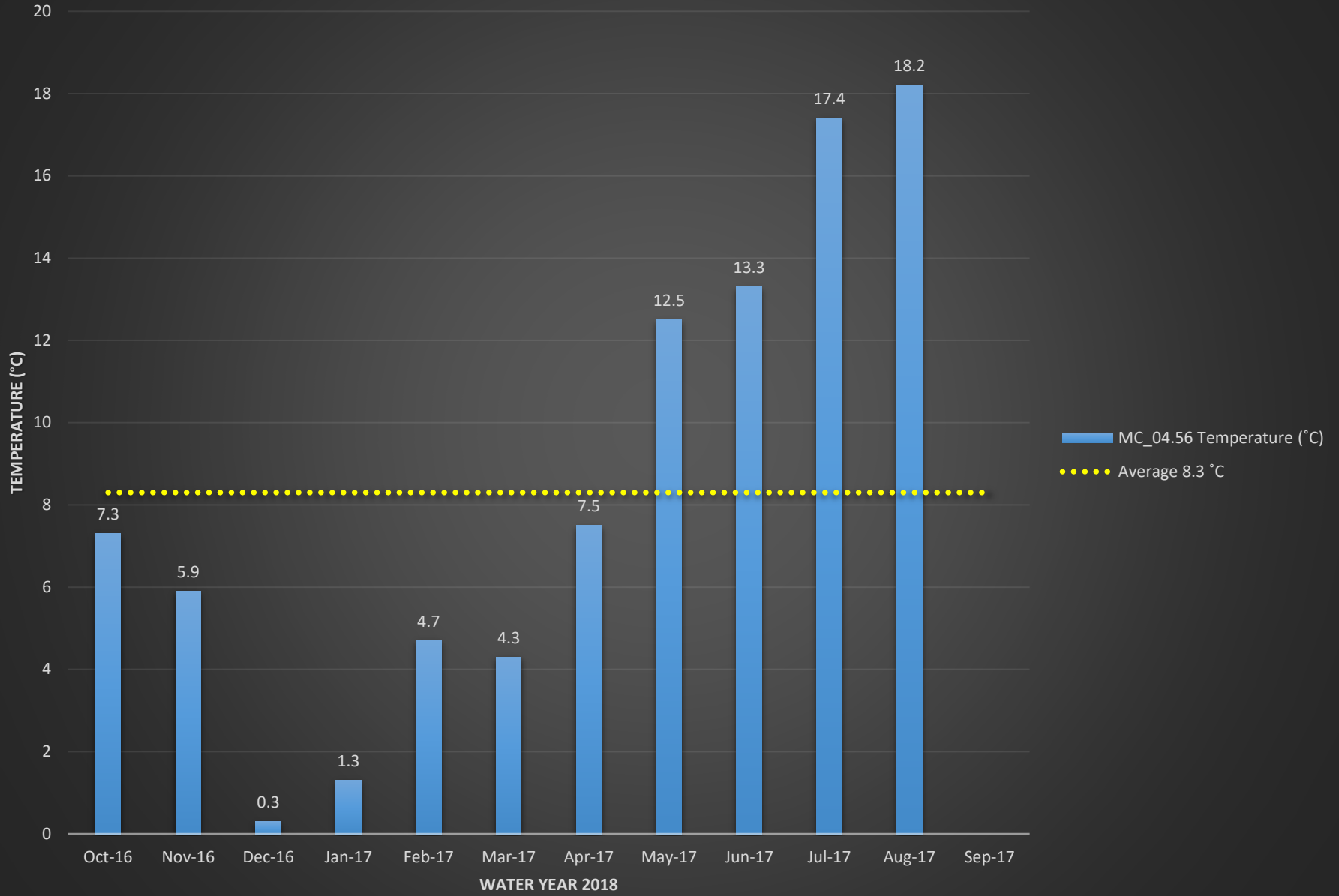
# MC\_02.56 Turbidity (NTU)



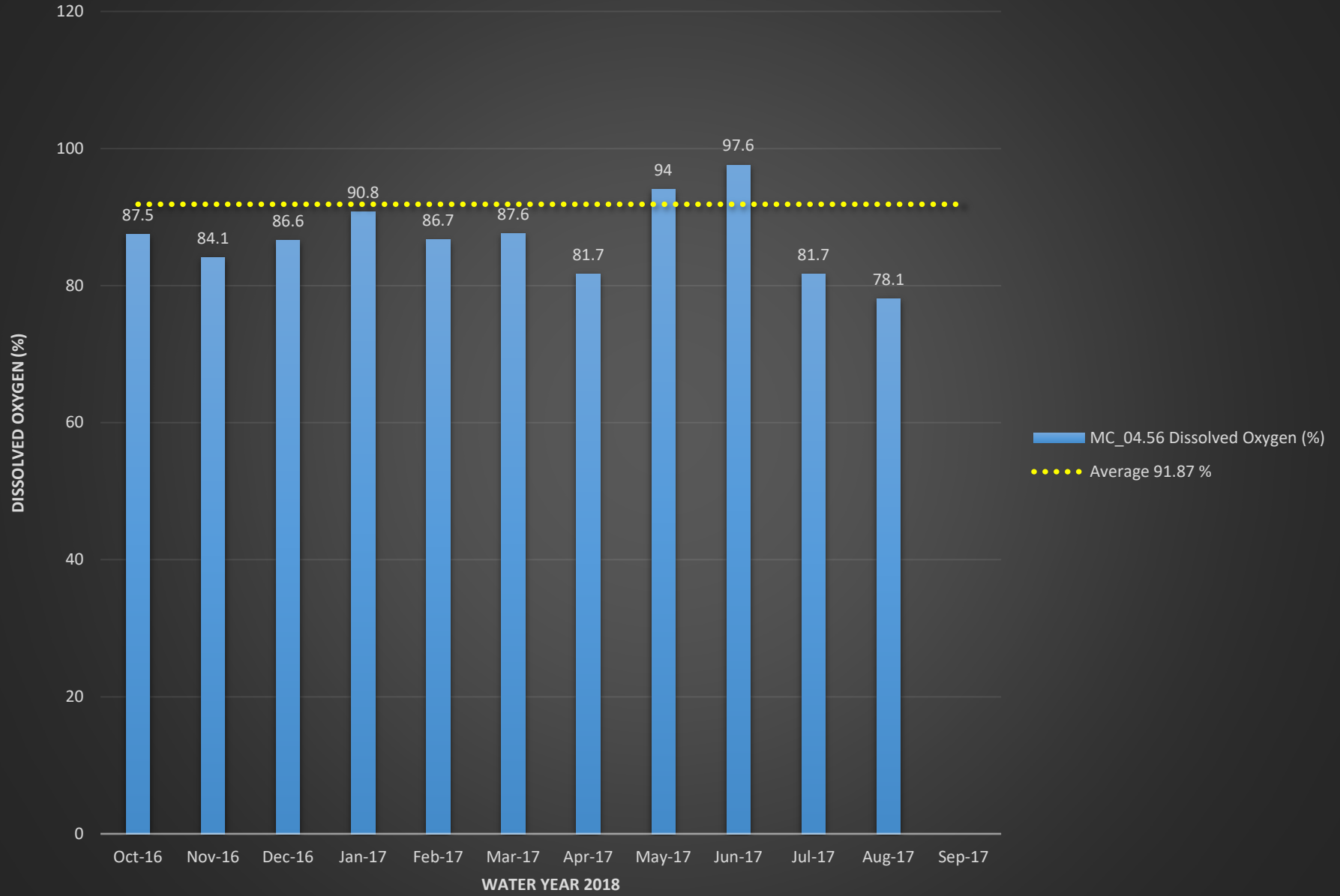
# MC\_04.56 E.coli (MPN)



# MC\_04.56 Temperature (°C)

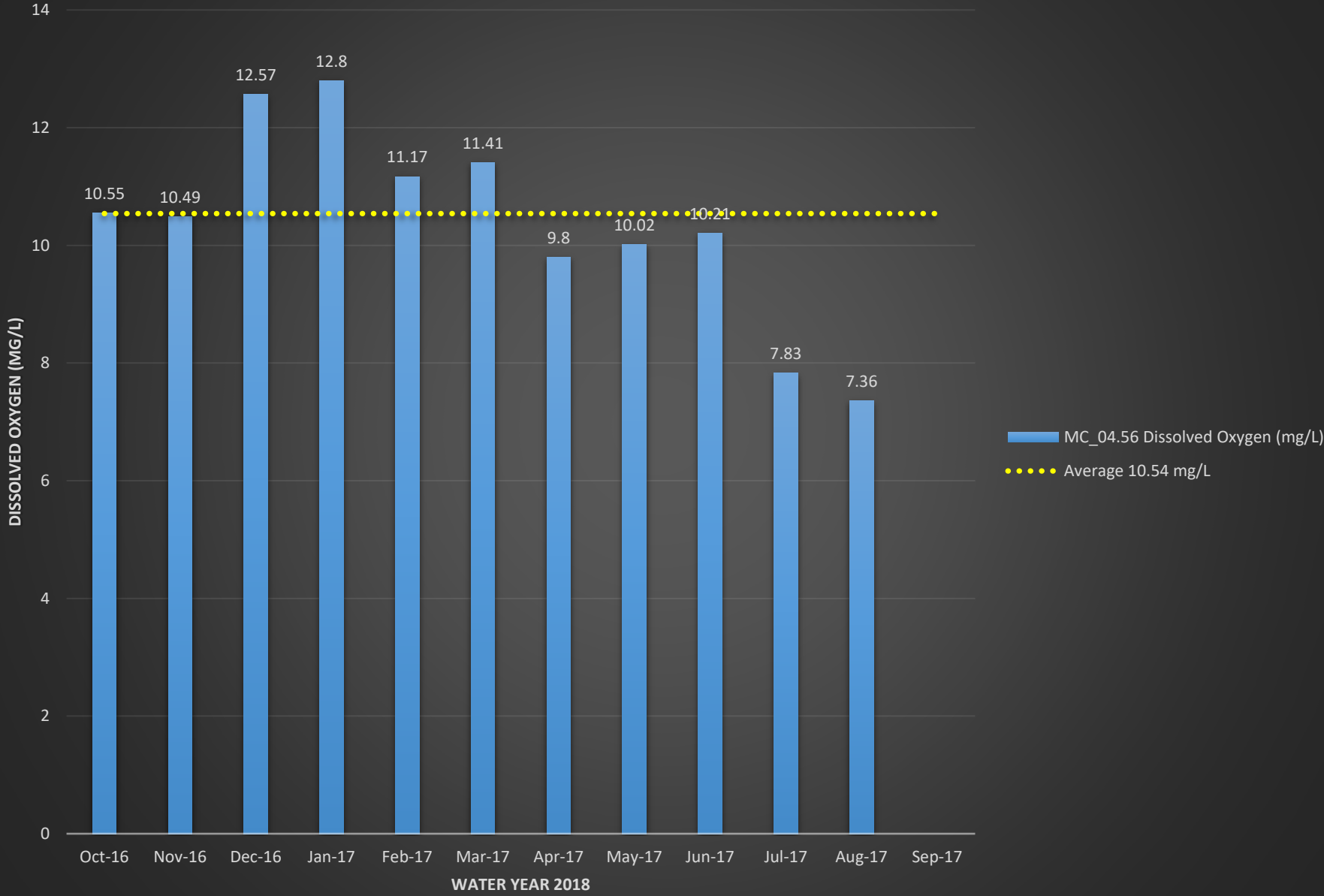


# MC\_04.56 Dissolved Oxygen (%)

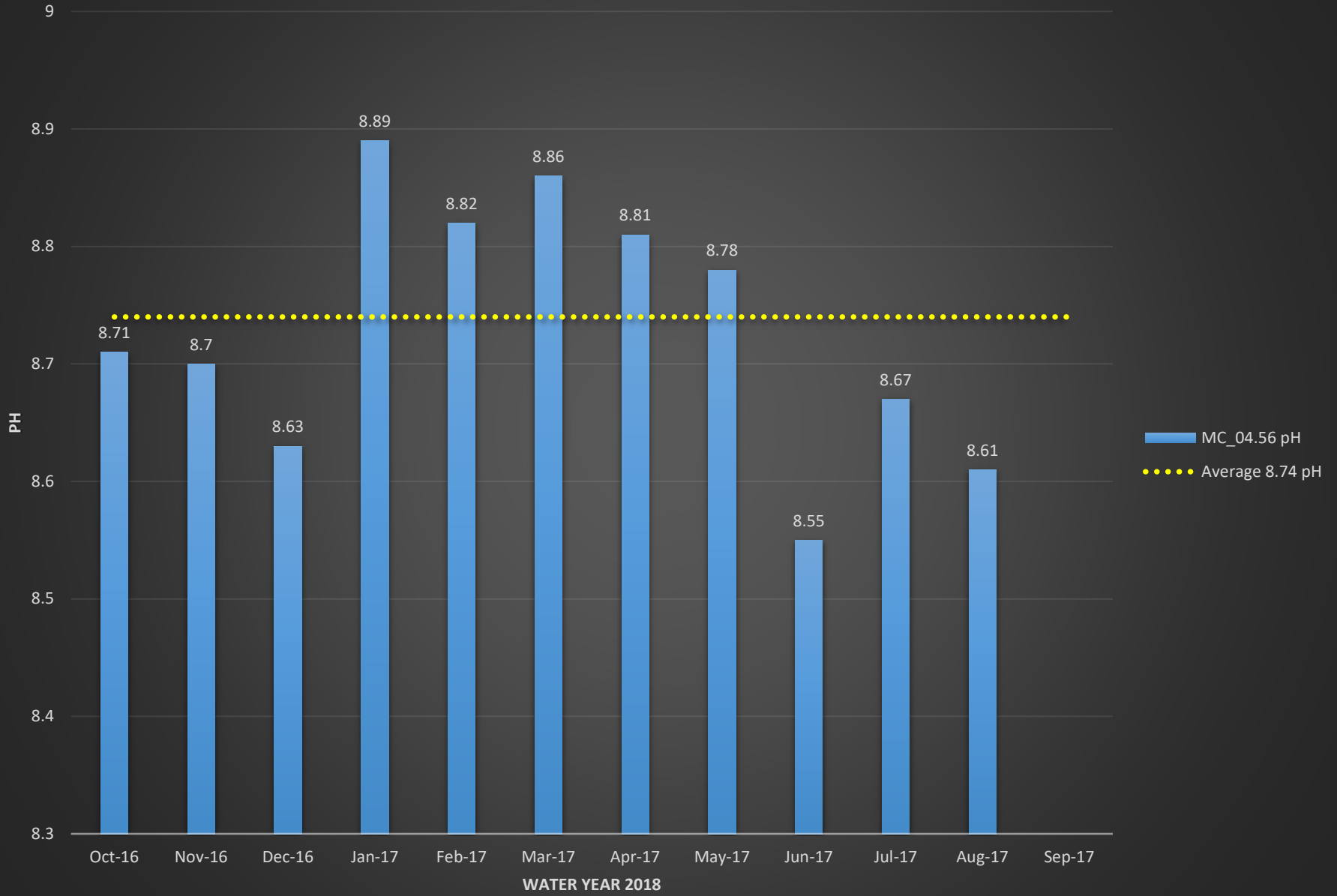




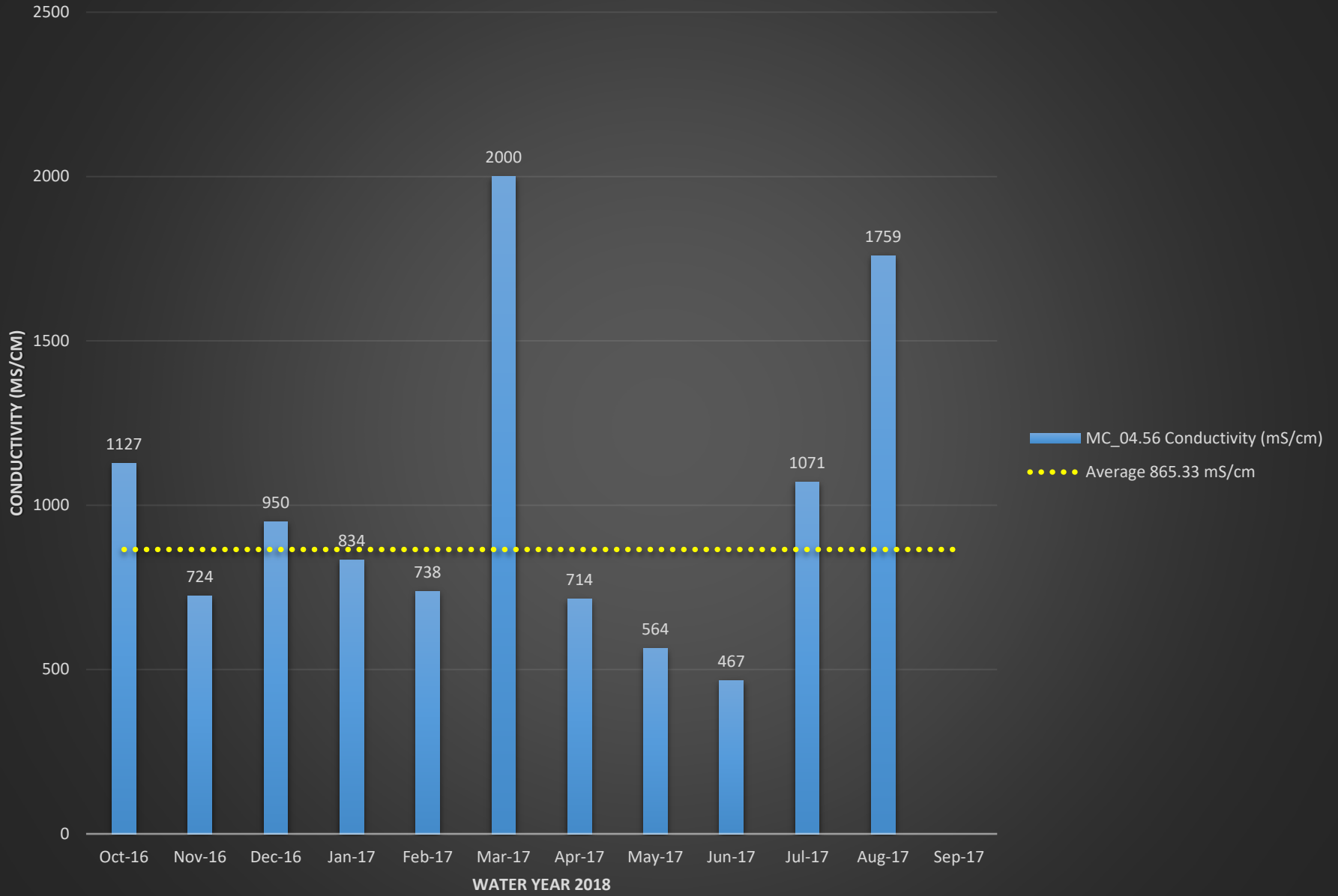
# MC\_04.56 Dissolved Oxygen (mg/L)



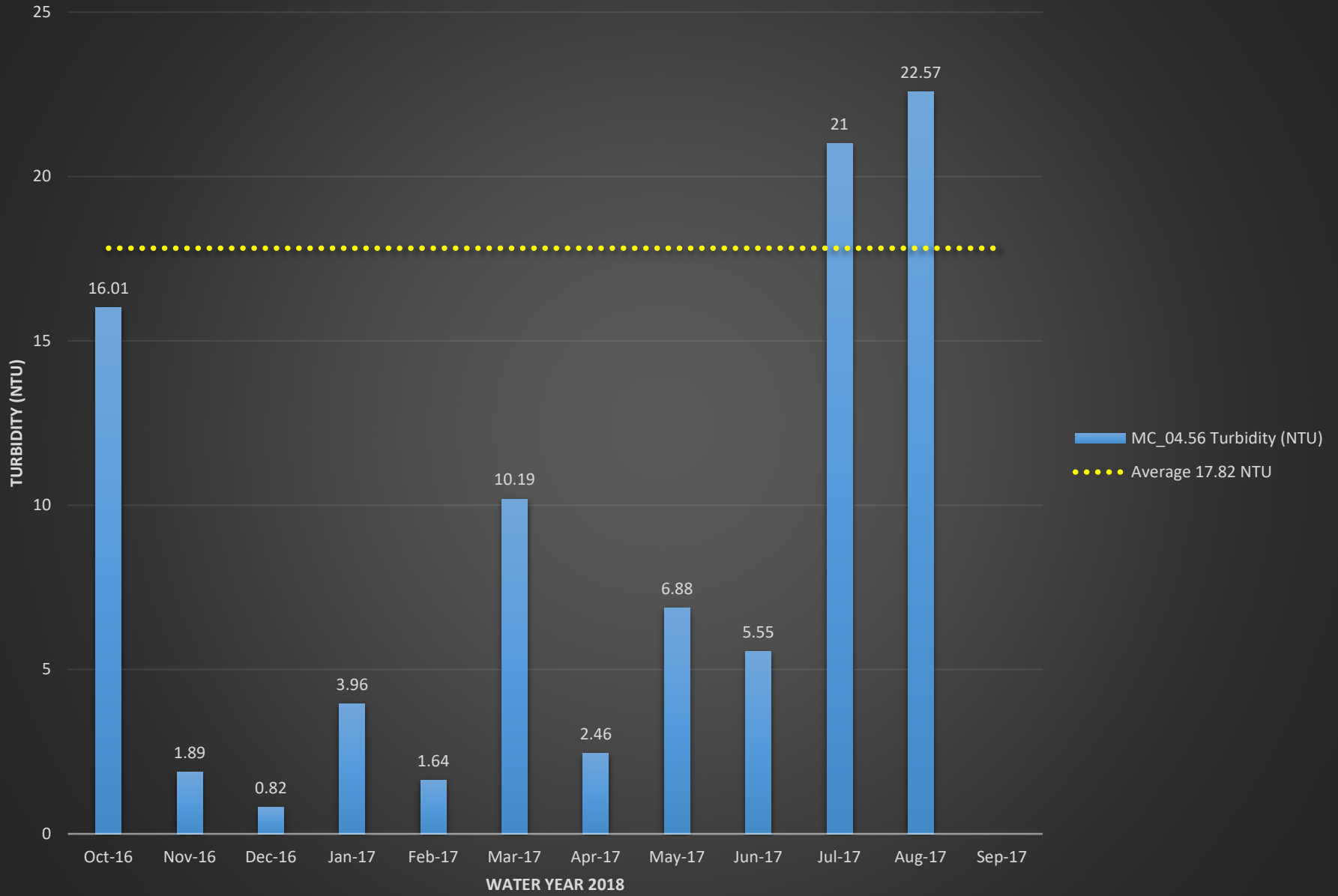
# MC\_04.56 pH



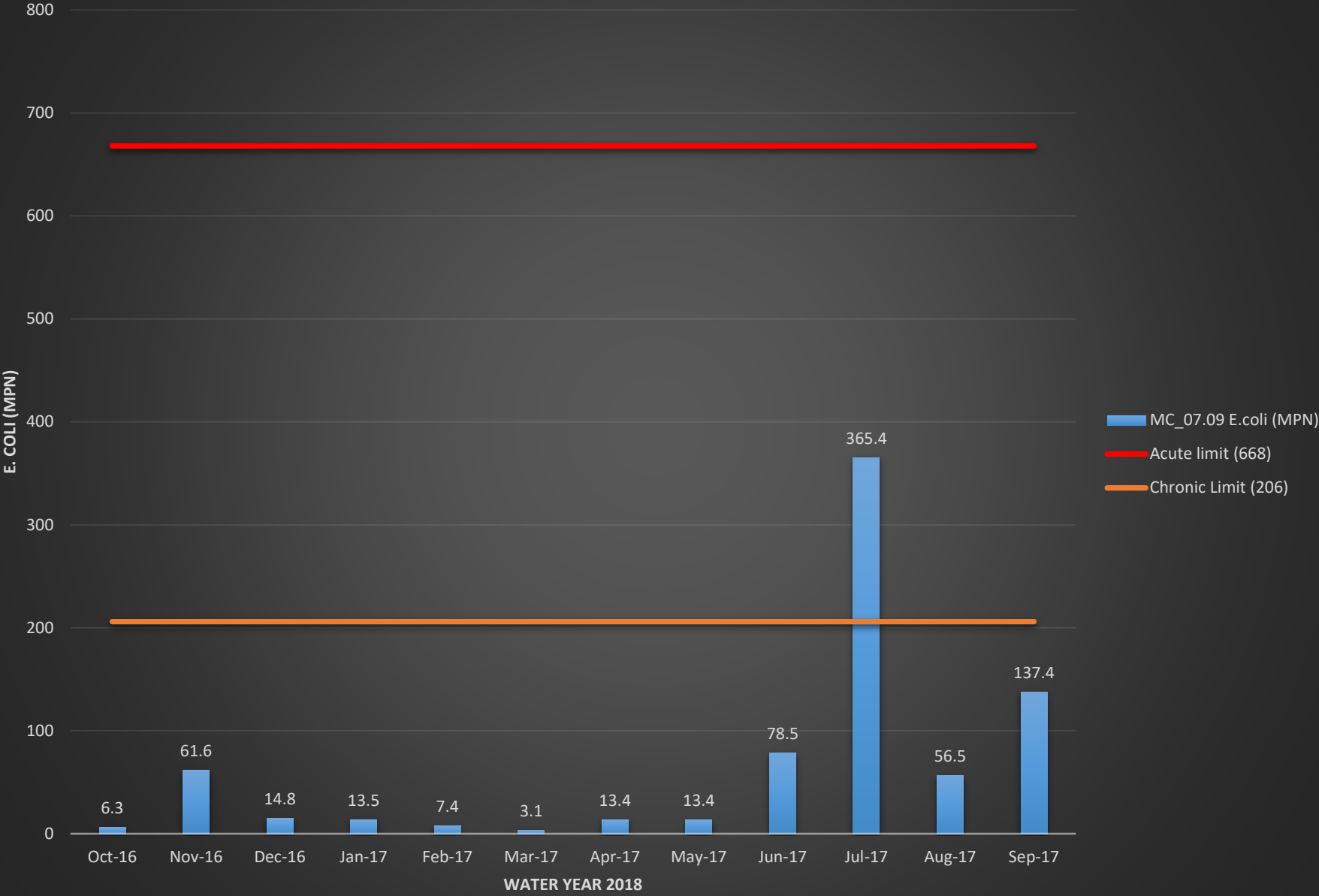
# MC\_04.56 Conductivity (mS/cm)



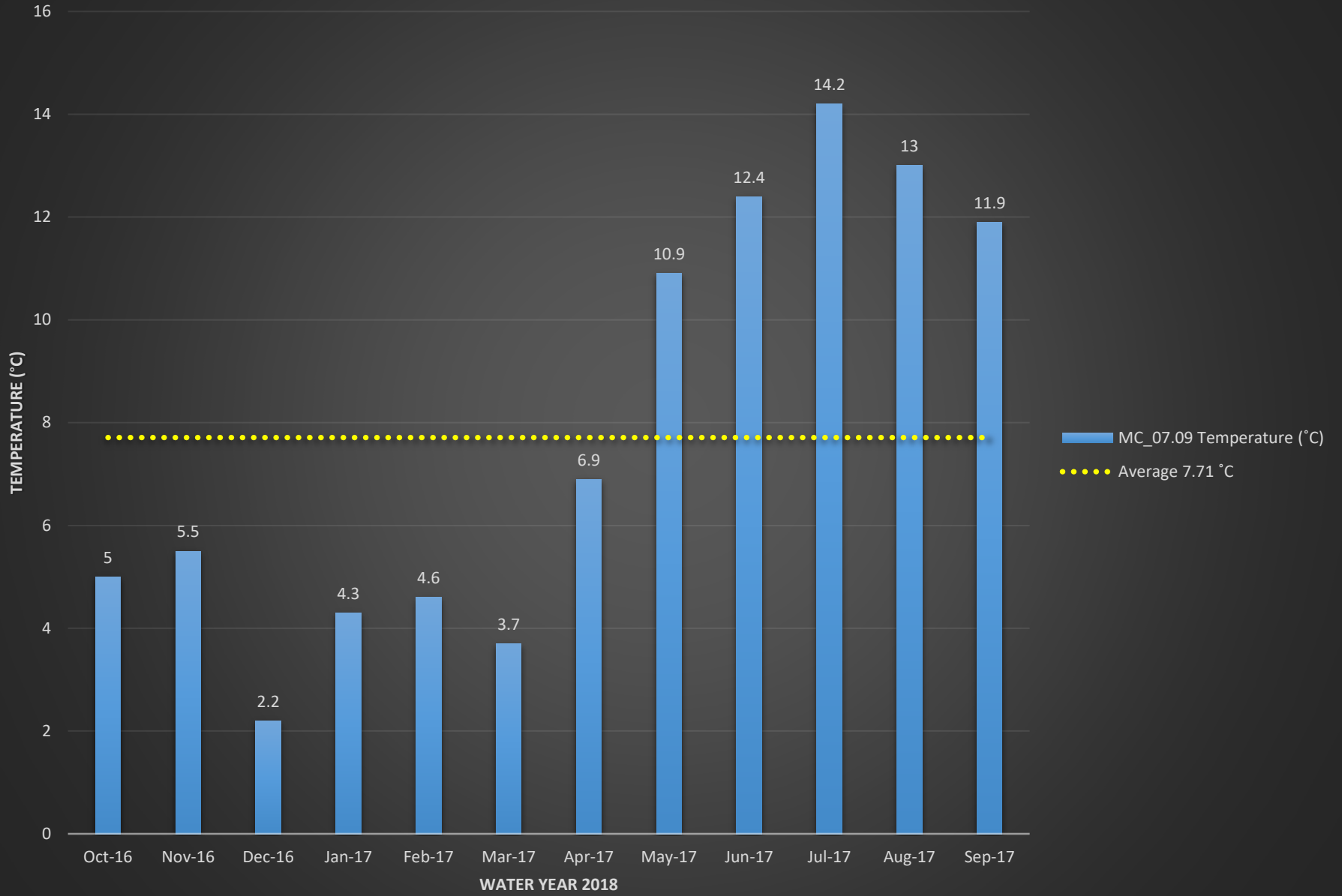
# MC\_04.56 Turbidity (NTU)



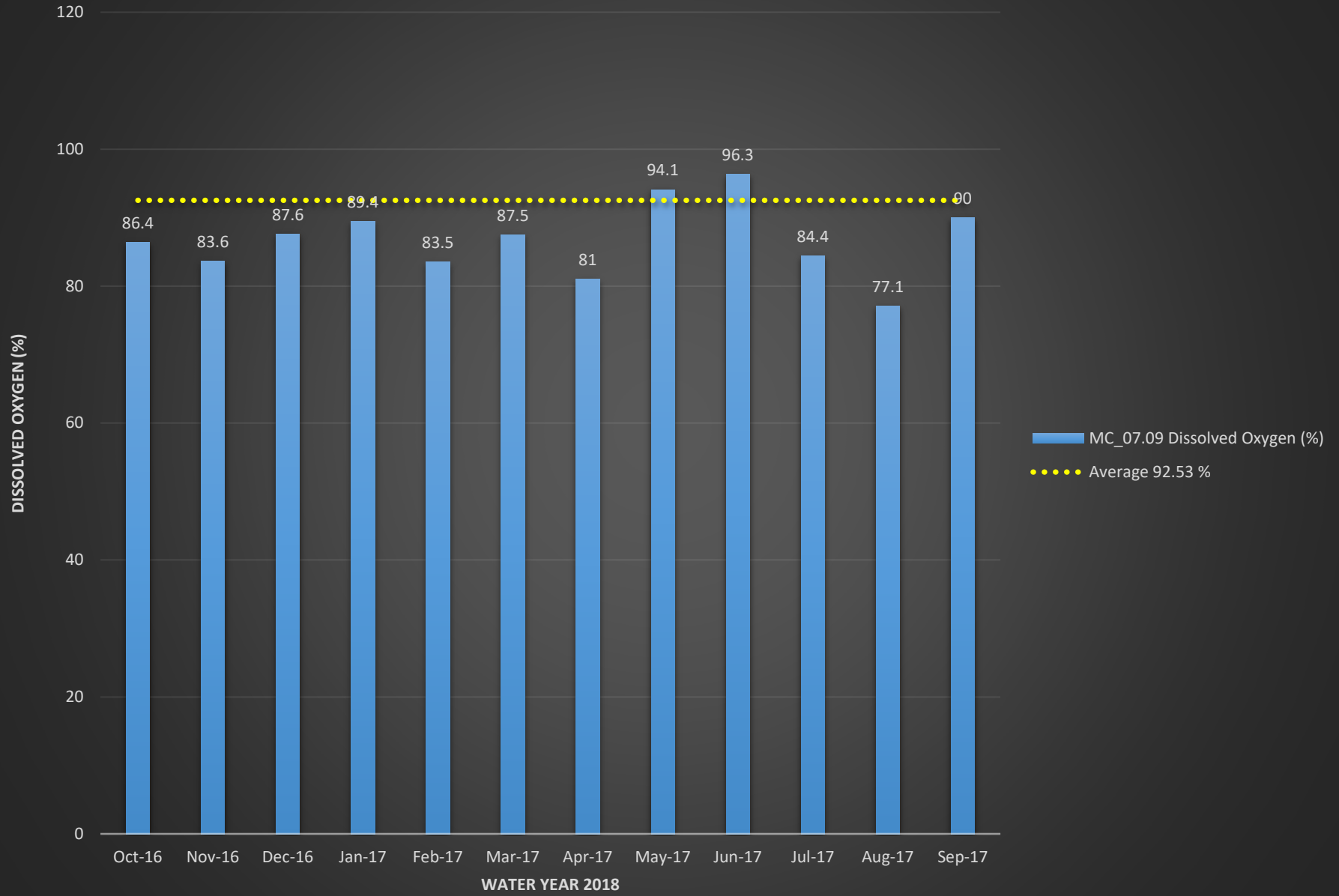
# MC\_07.09 E.coli (MPN)



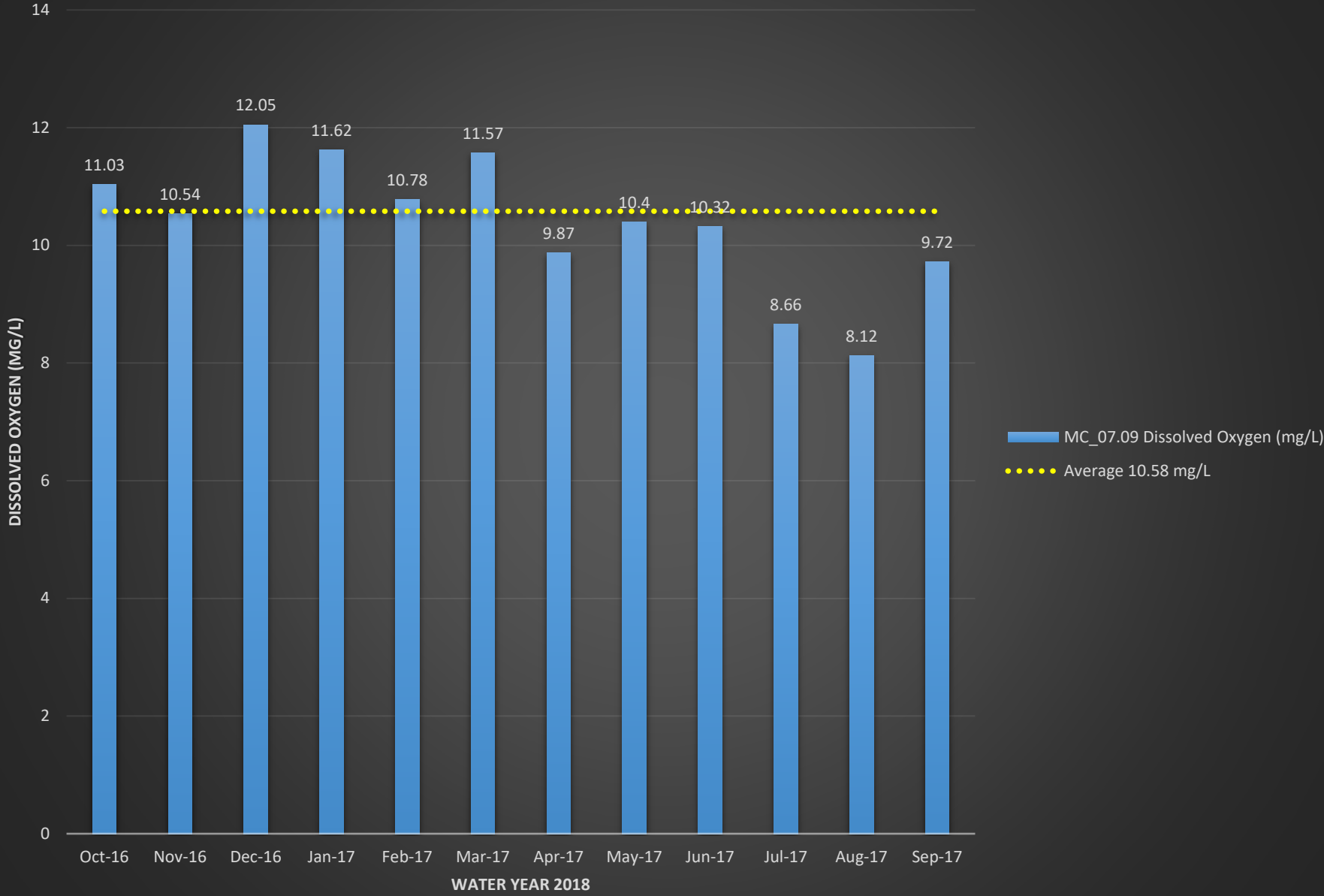
# MC\_07.09 Temperature (°C)



# MC\_07.09 Dissolved Oxygen (%)

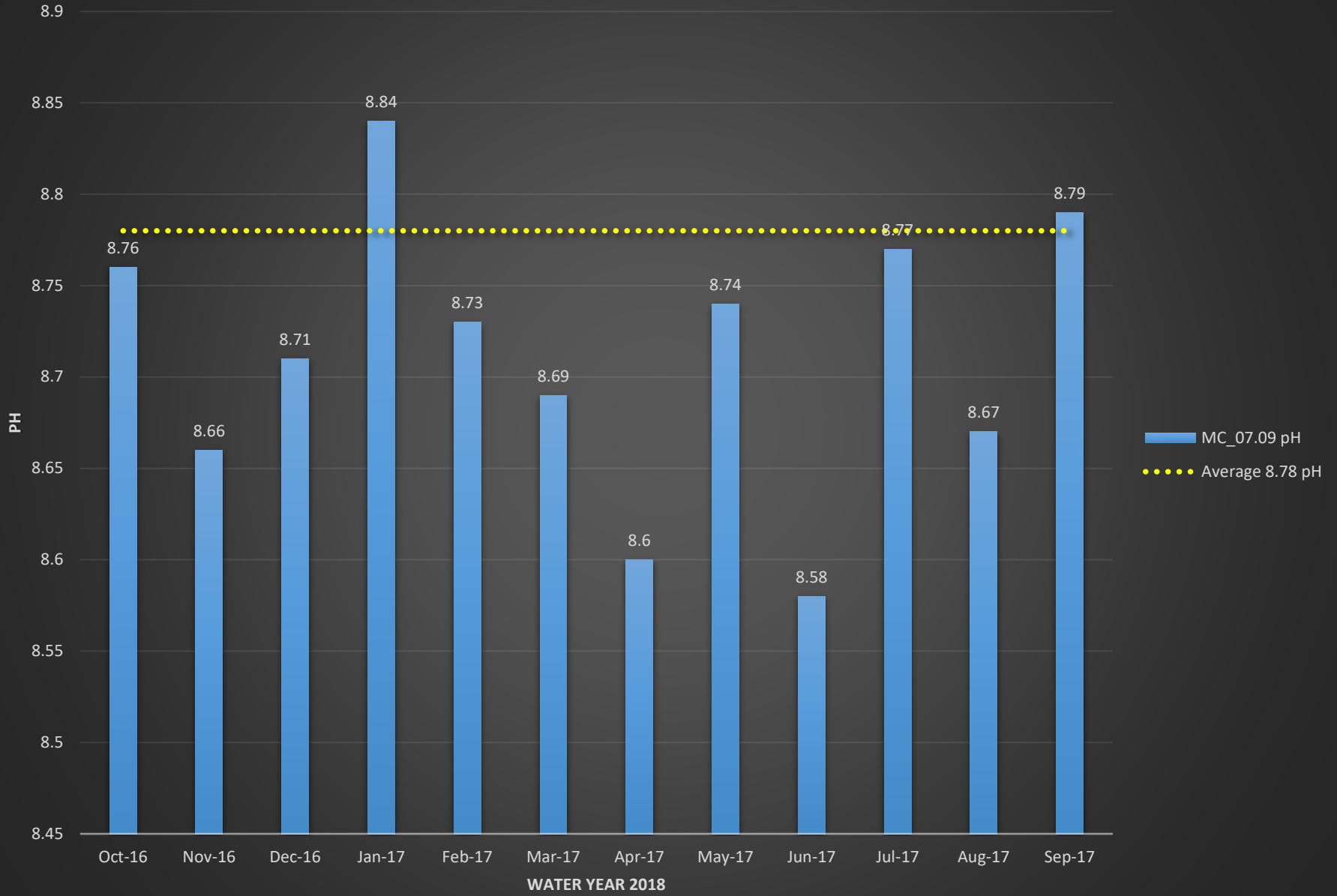


# MC\_07.09 Dissolved Oxygen (mg/L)

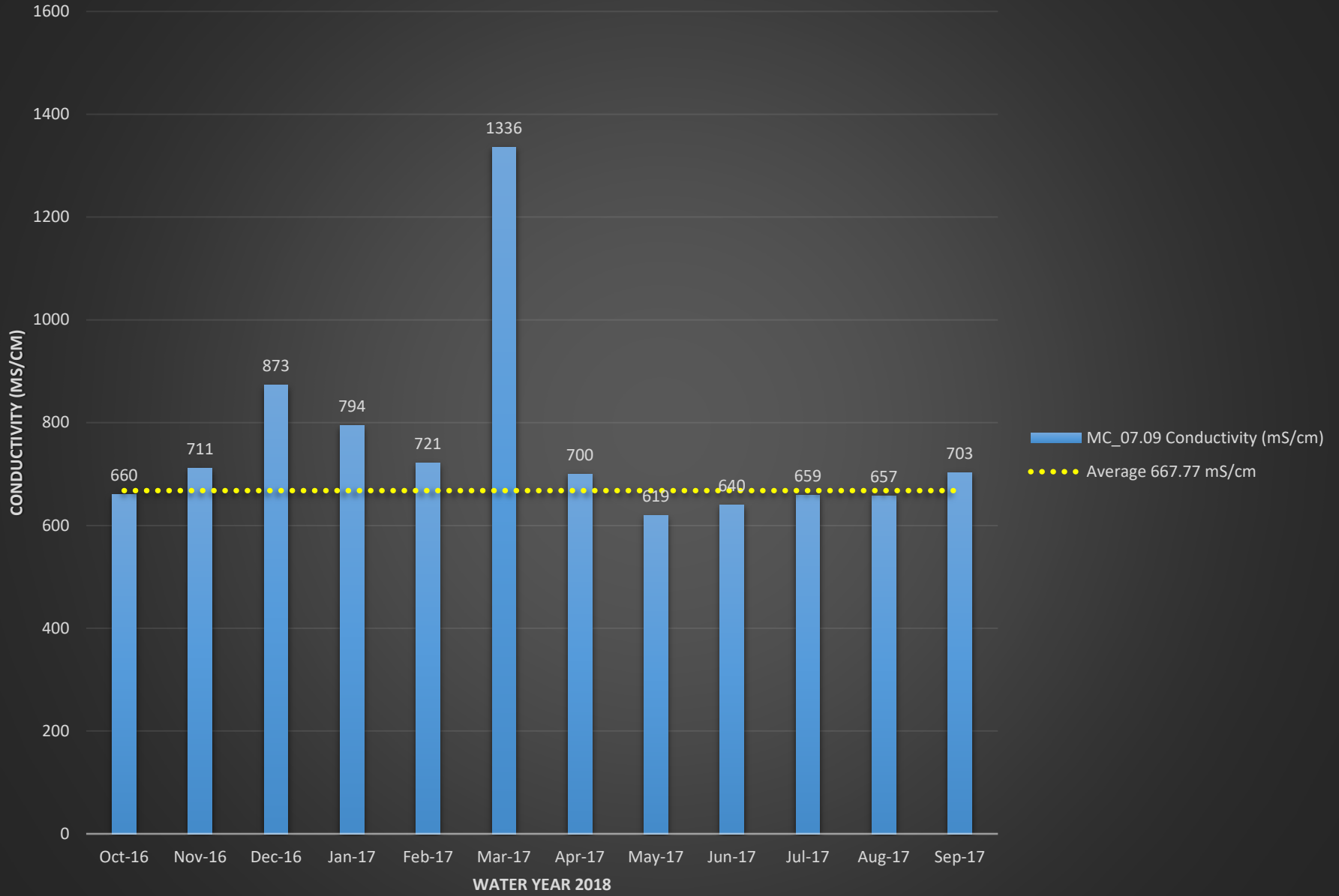




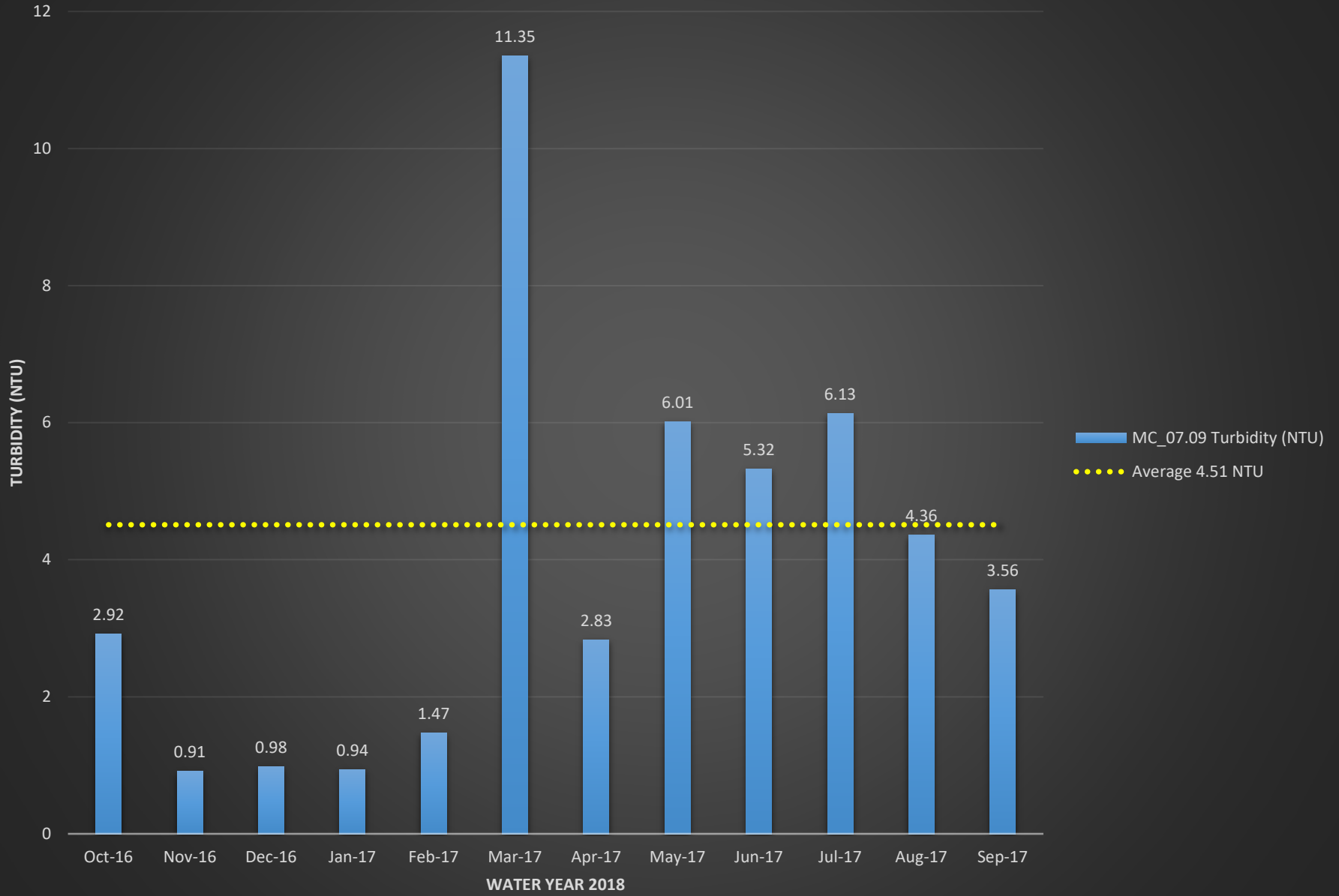
# MC\_07.09 pH



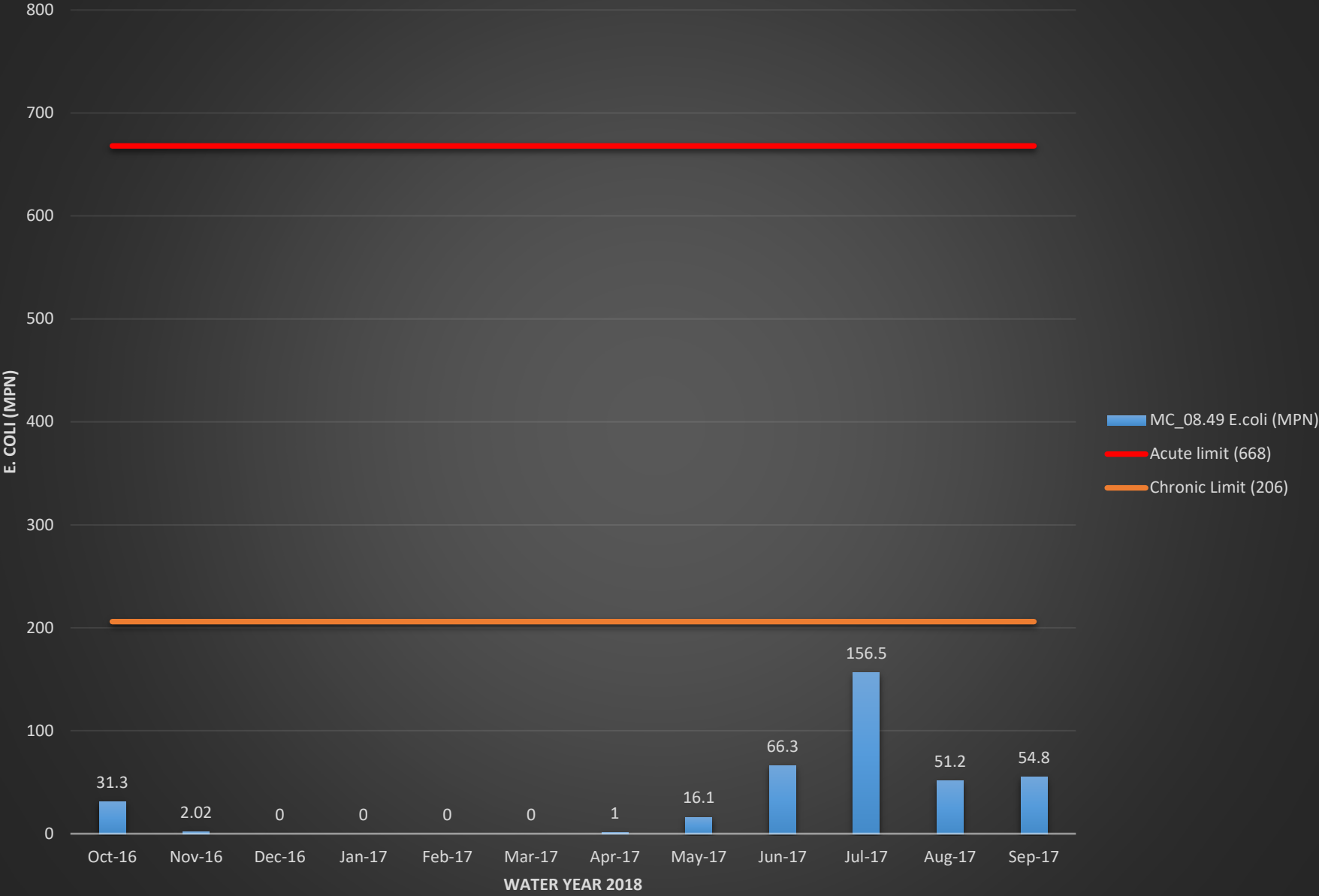
# MC\_07.09 Conductivity (mS/cm)



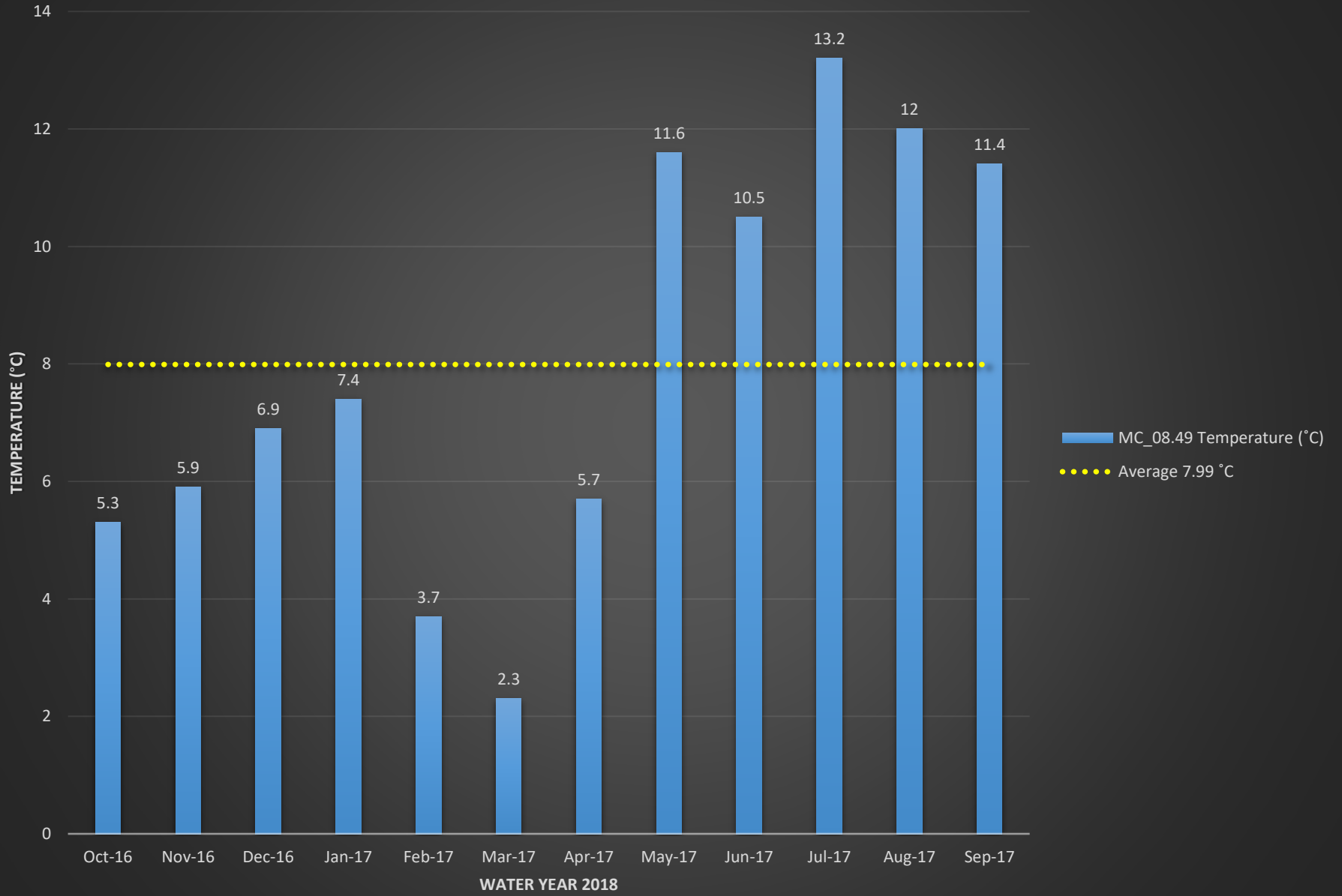
# MC\_07.09 Turbidity (NTU)



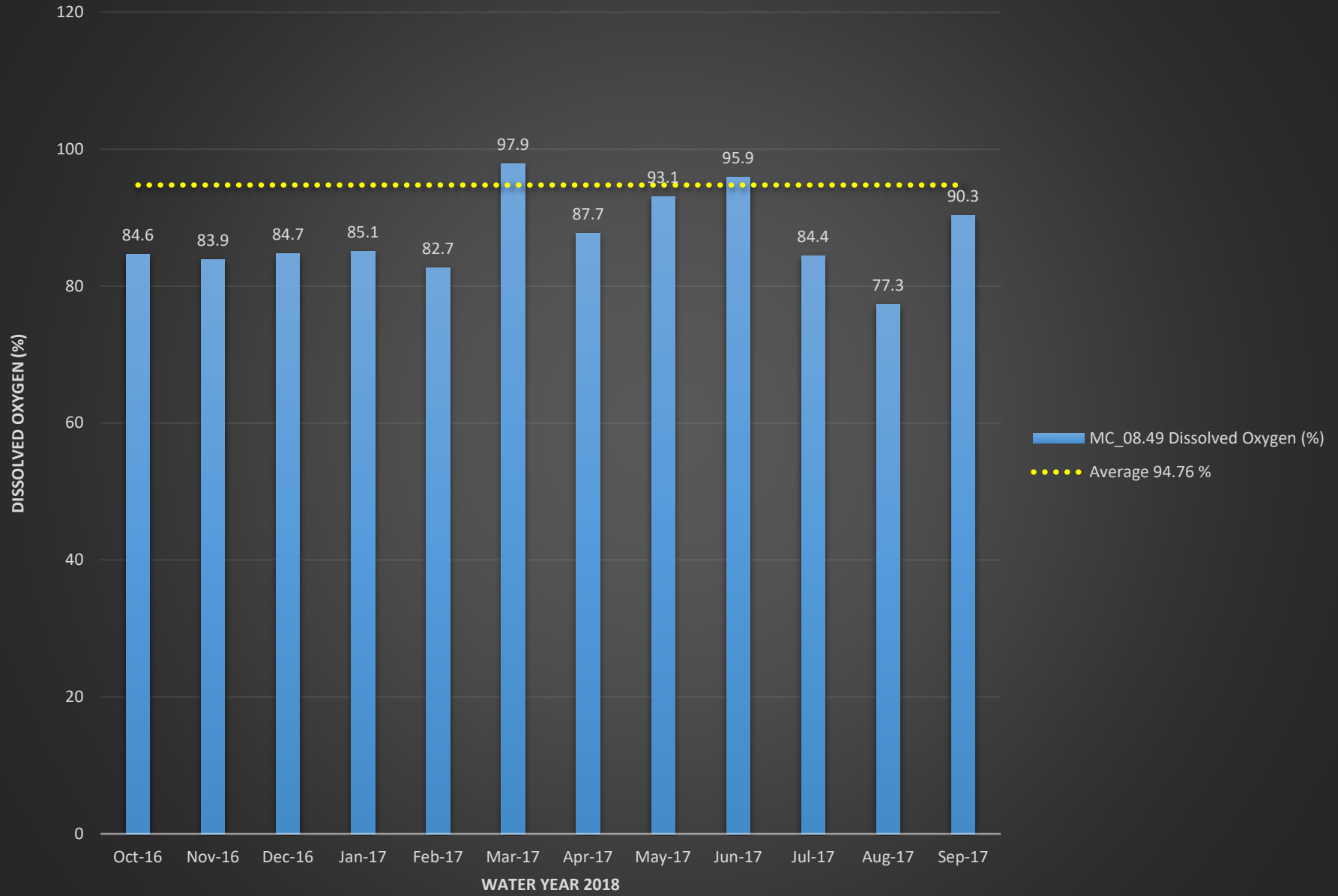
# MC\_08.49 E.coli (MPN)



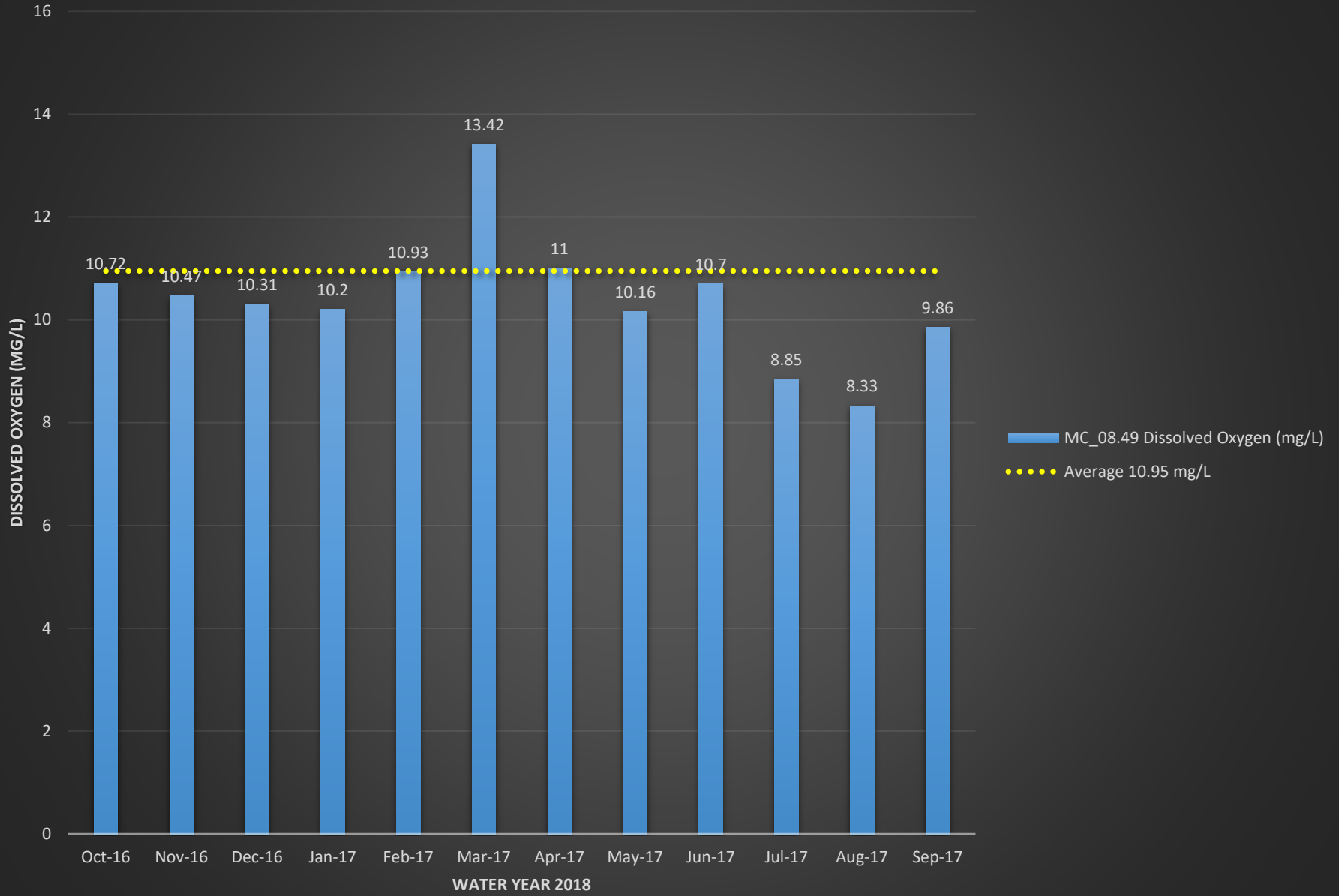
# MC\_08.49 Temperature (°C)



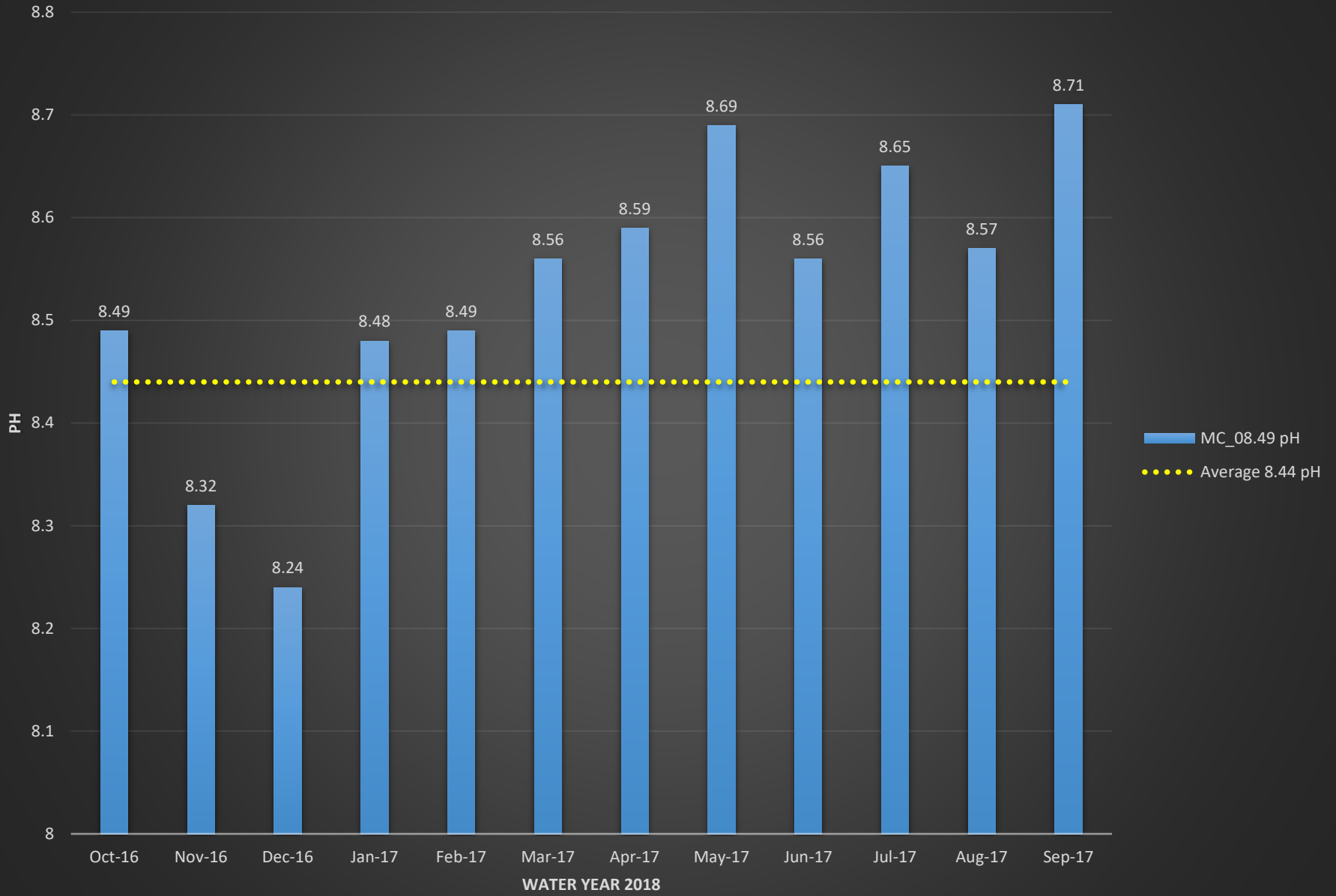
# MC\_08.49 Dissolved Oxygen (%)



# MC\_08.49 Dissolved Oxygen (mg/L)

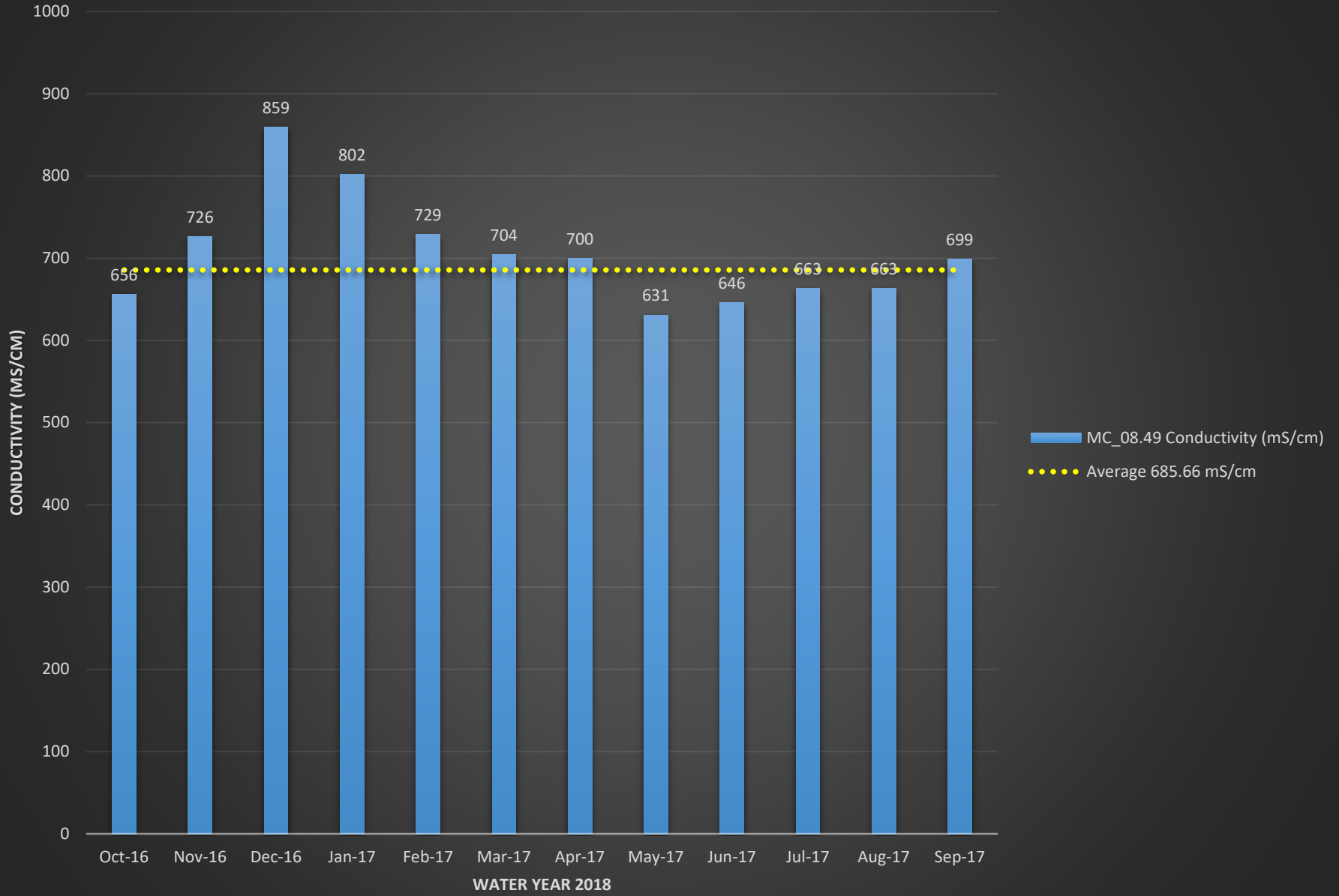


# MC\_08.49 pH

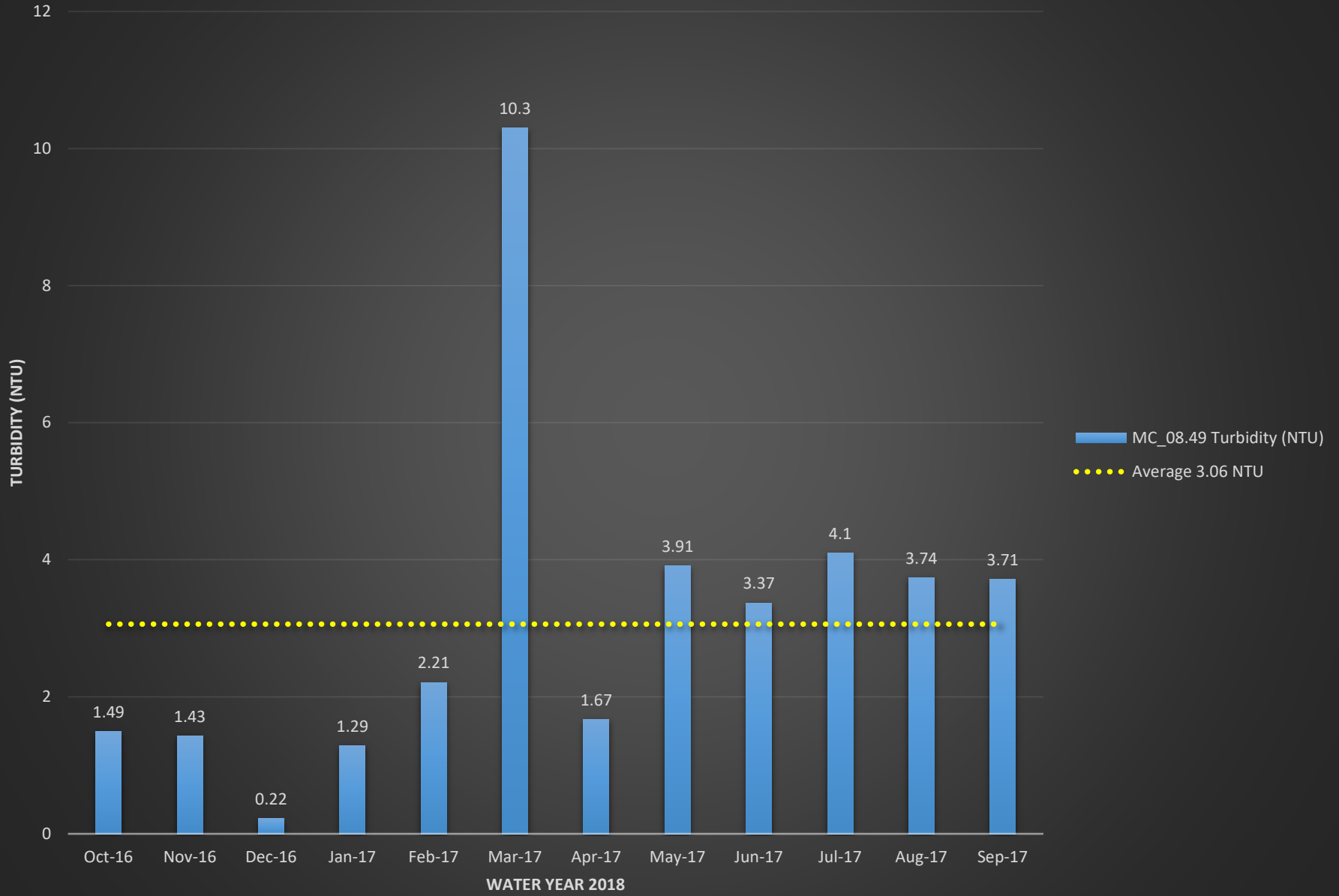




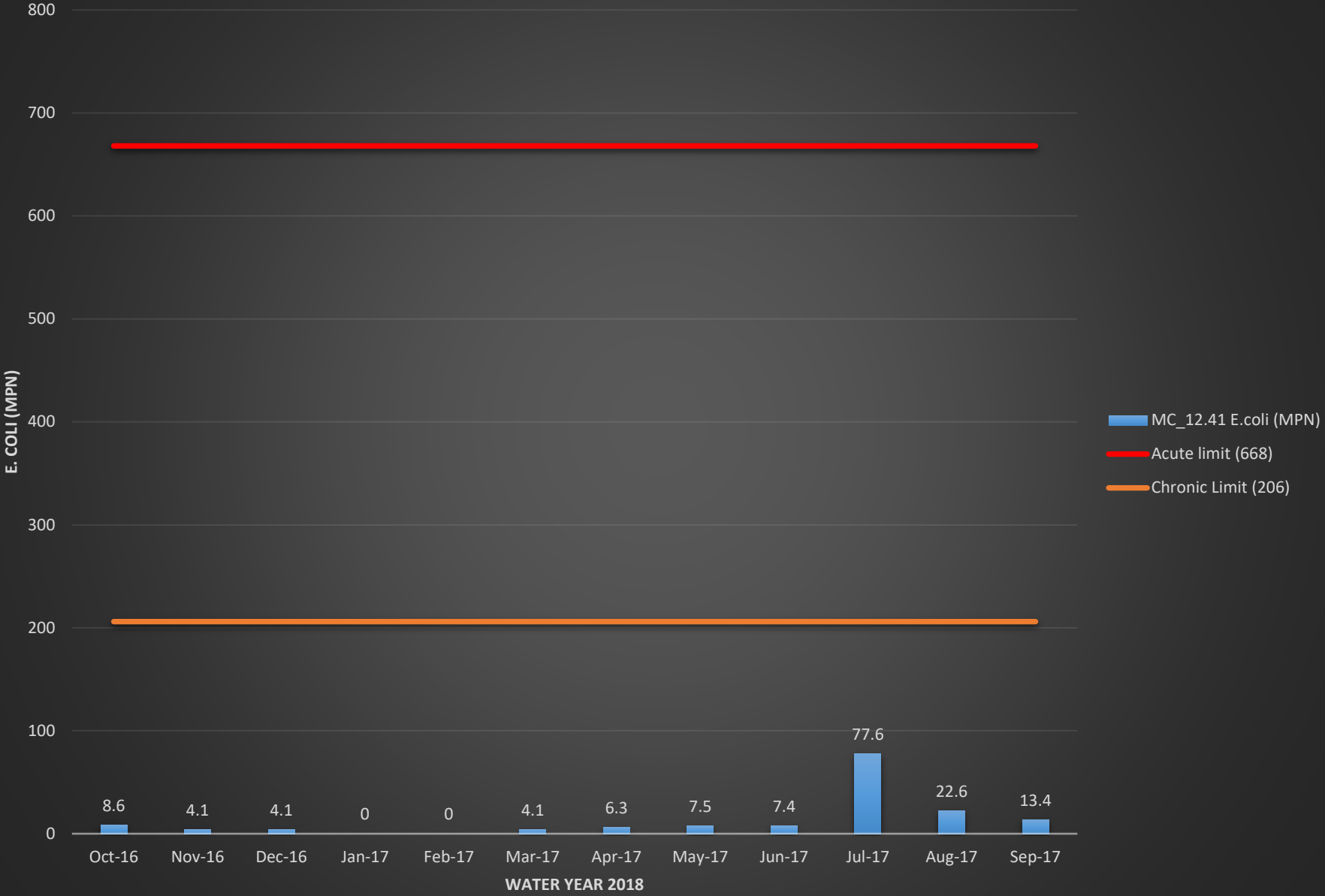
# MC\_08.49 Conductivity (mS/cm)



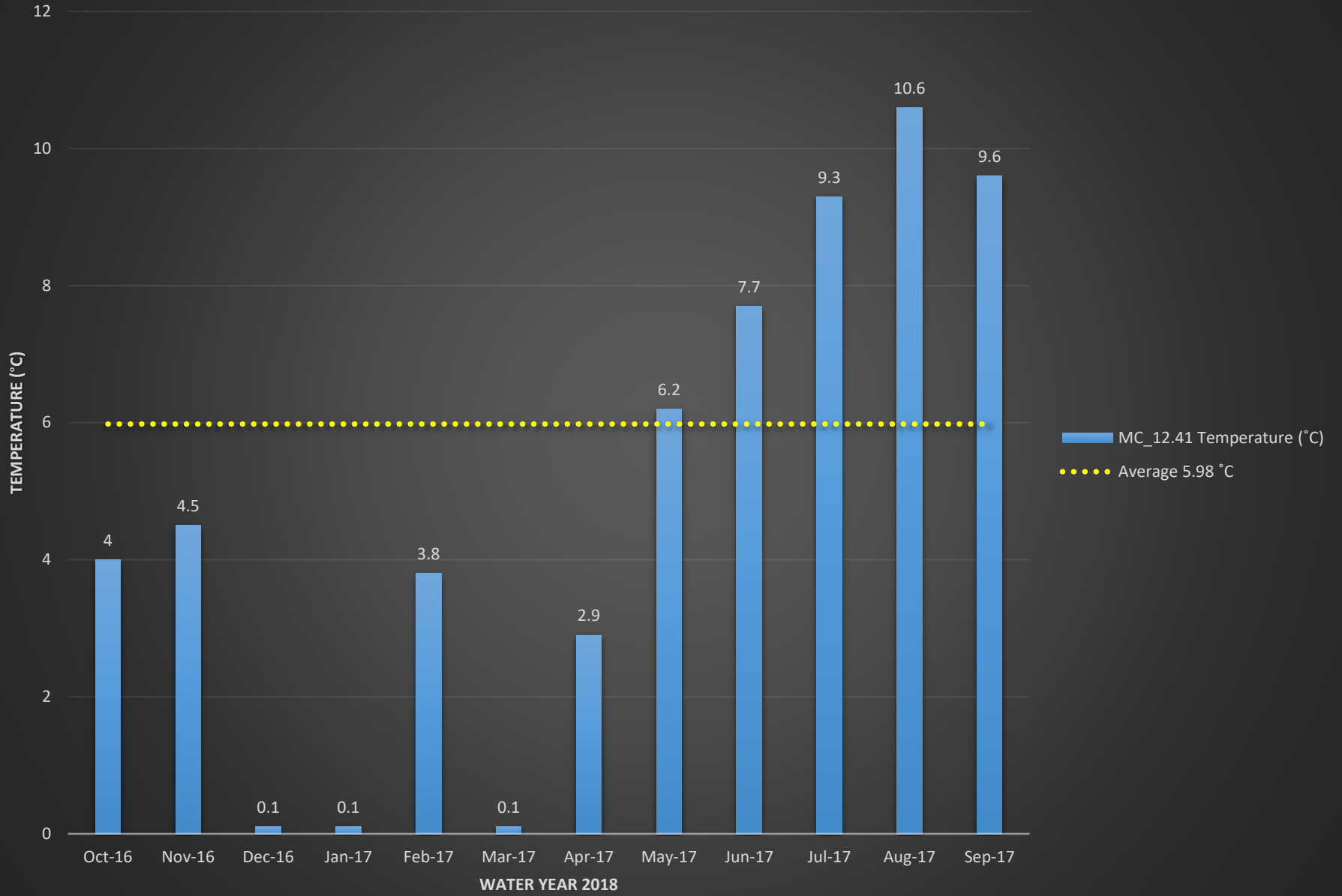
# MC\_08.49 Turbidity (NTU)



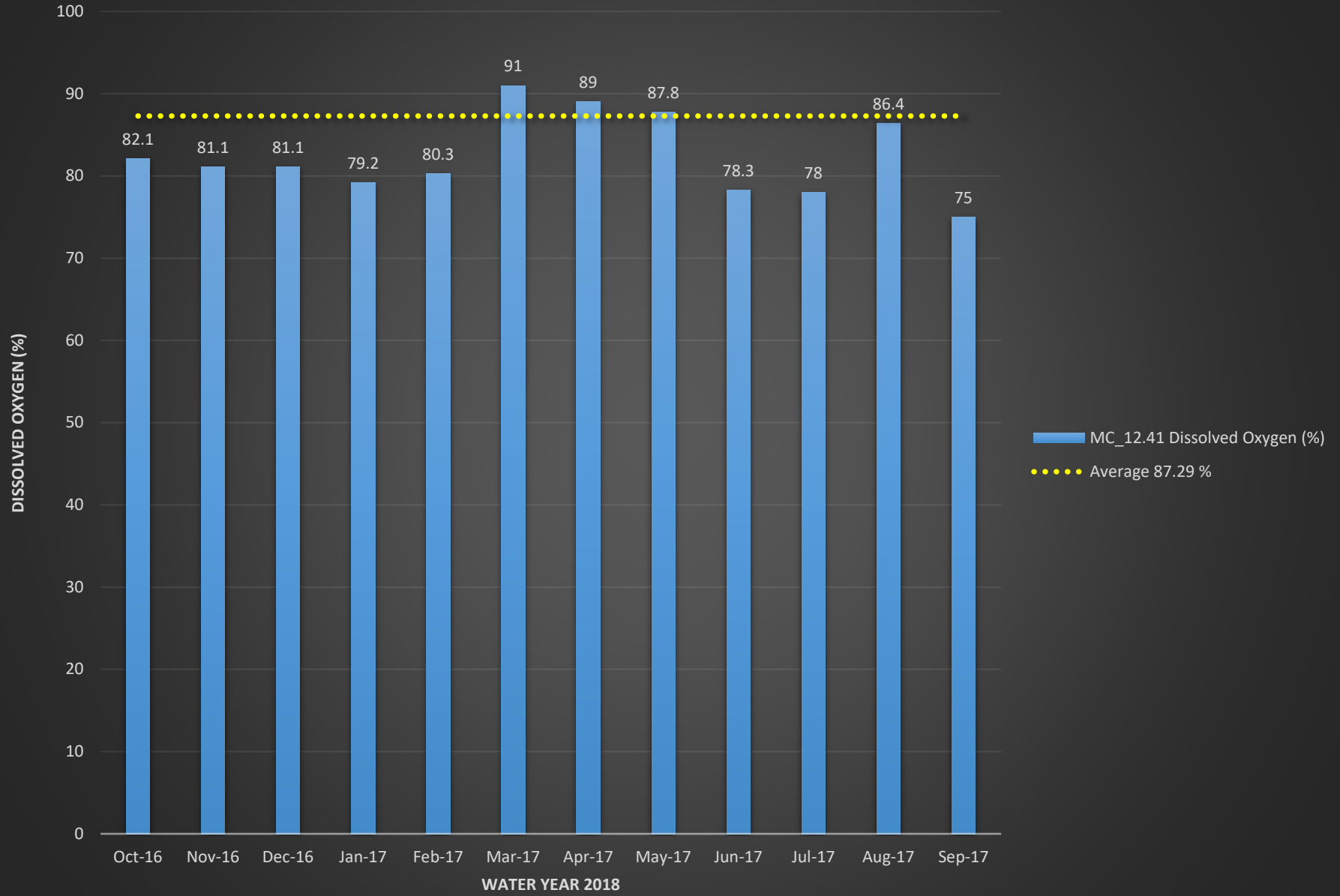
# MC\_12.41 E.coli (MPN)



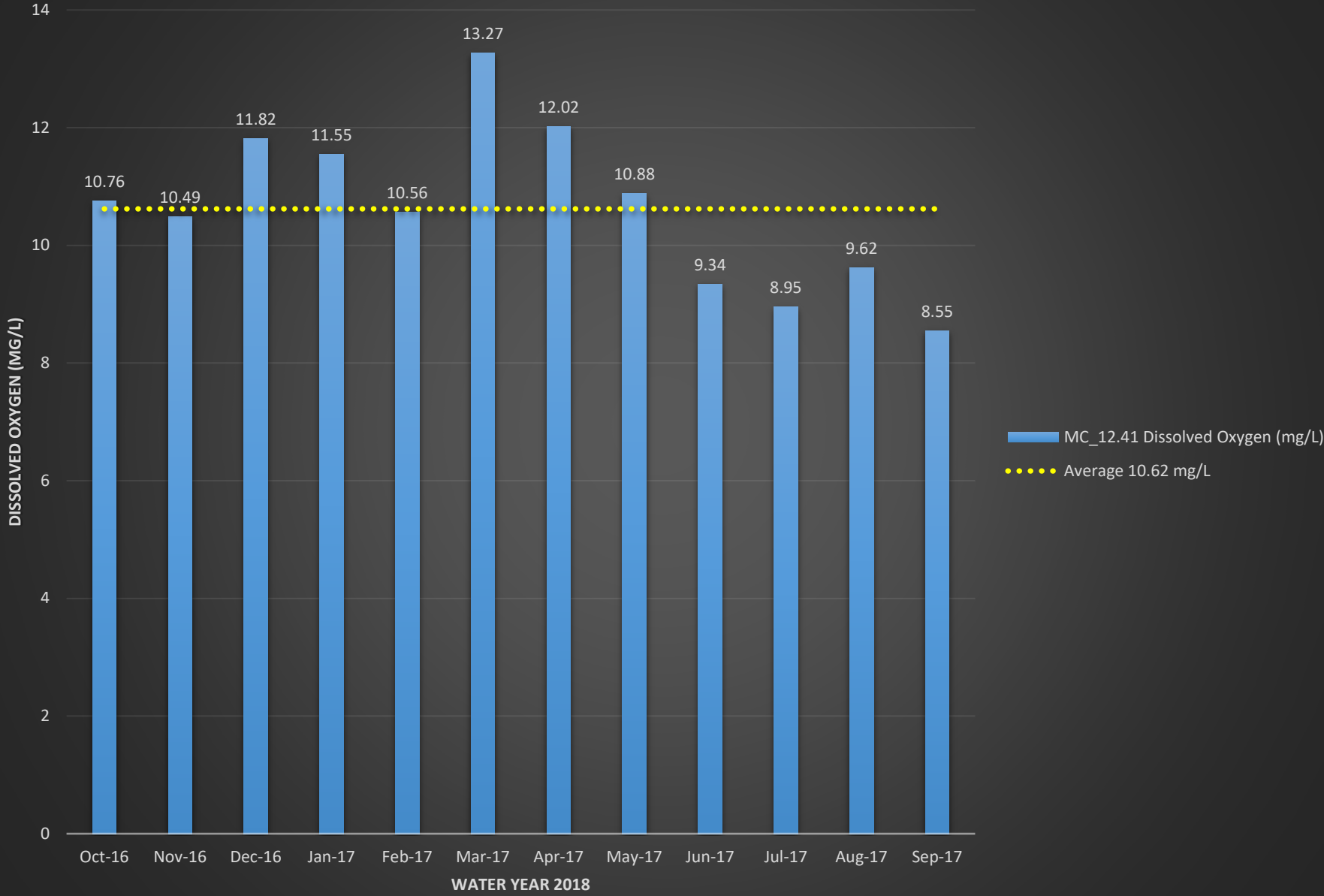
# MC\_12.41 Temperature (°C)



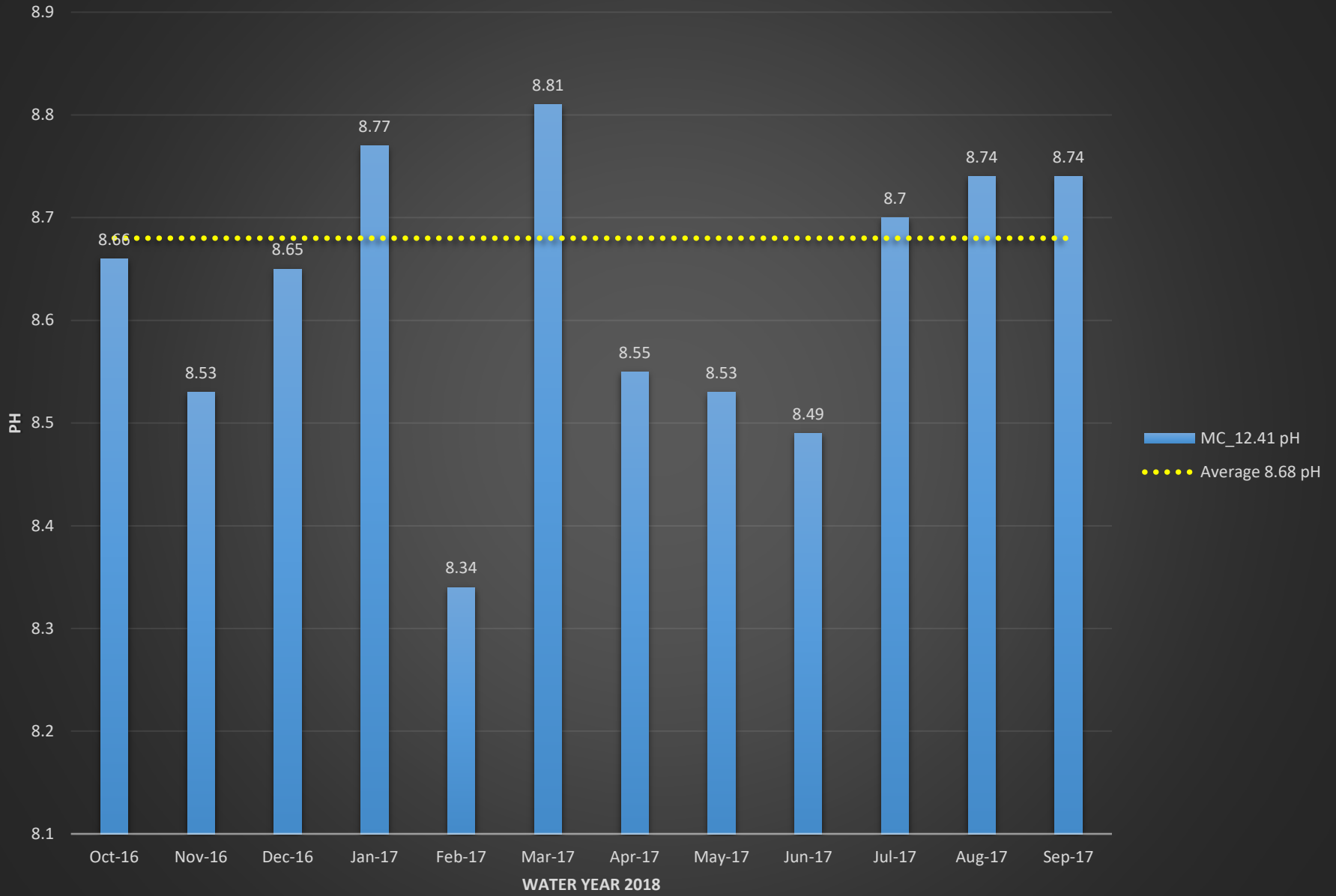
# MC\_12.41 Dissolved Oxygen (%)



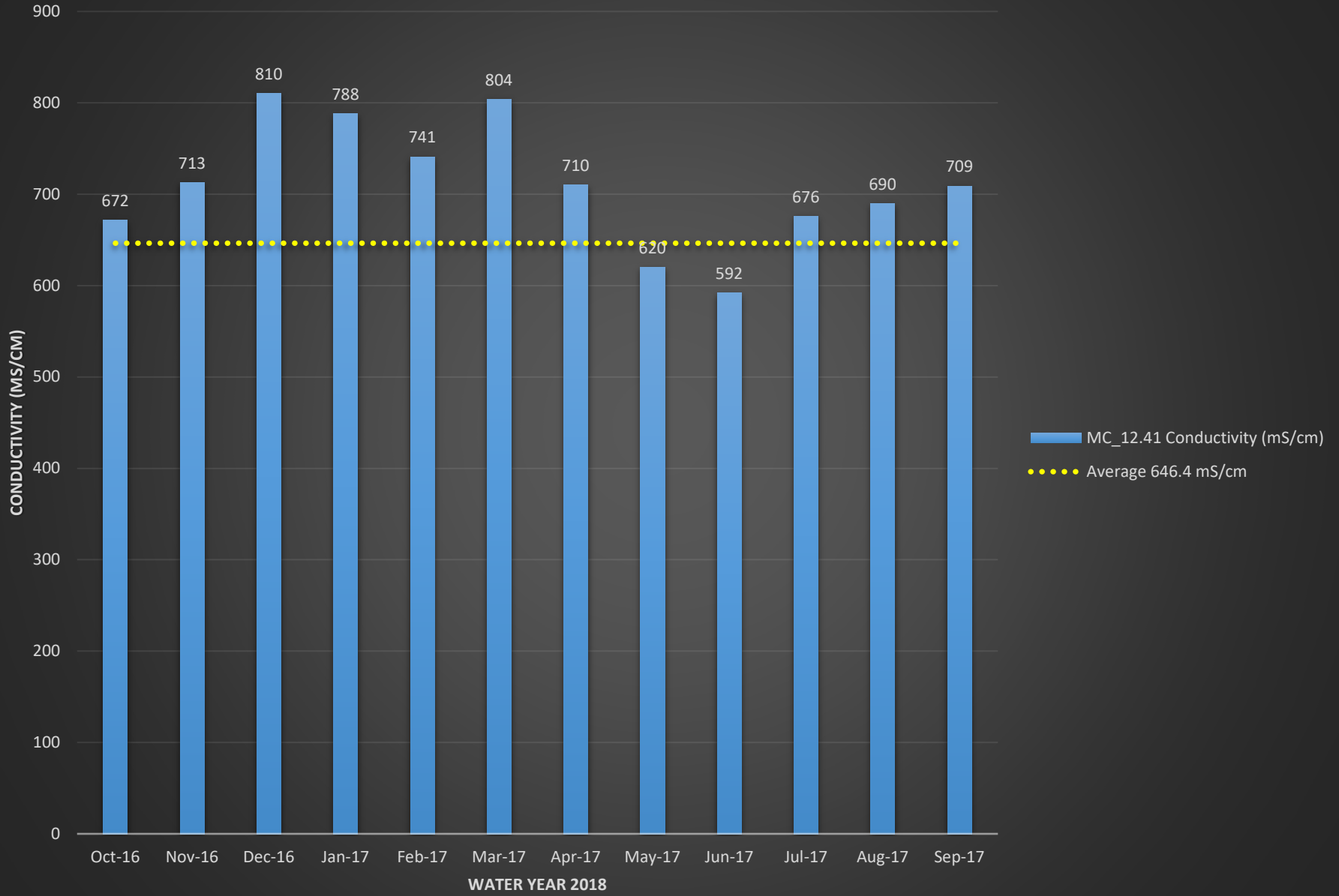
# MC\_12.41 Dissolved Oxygen (mg/L)



# MC\_12.41 pH

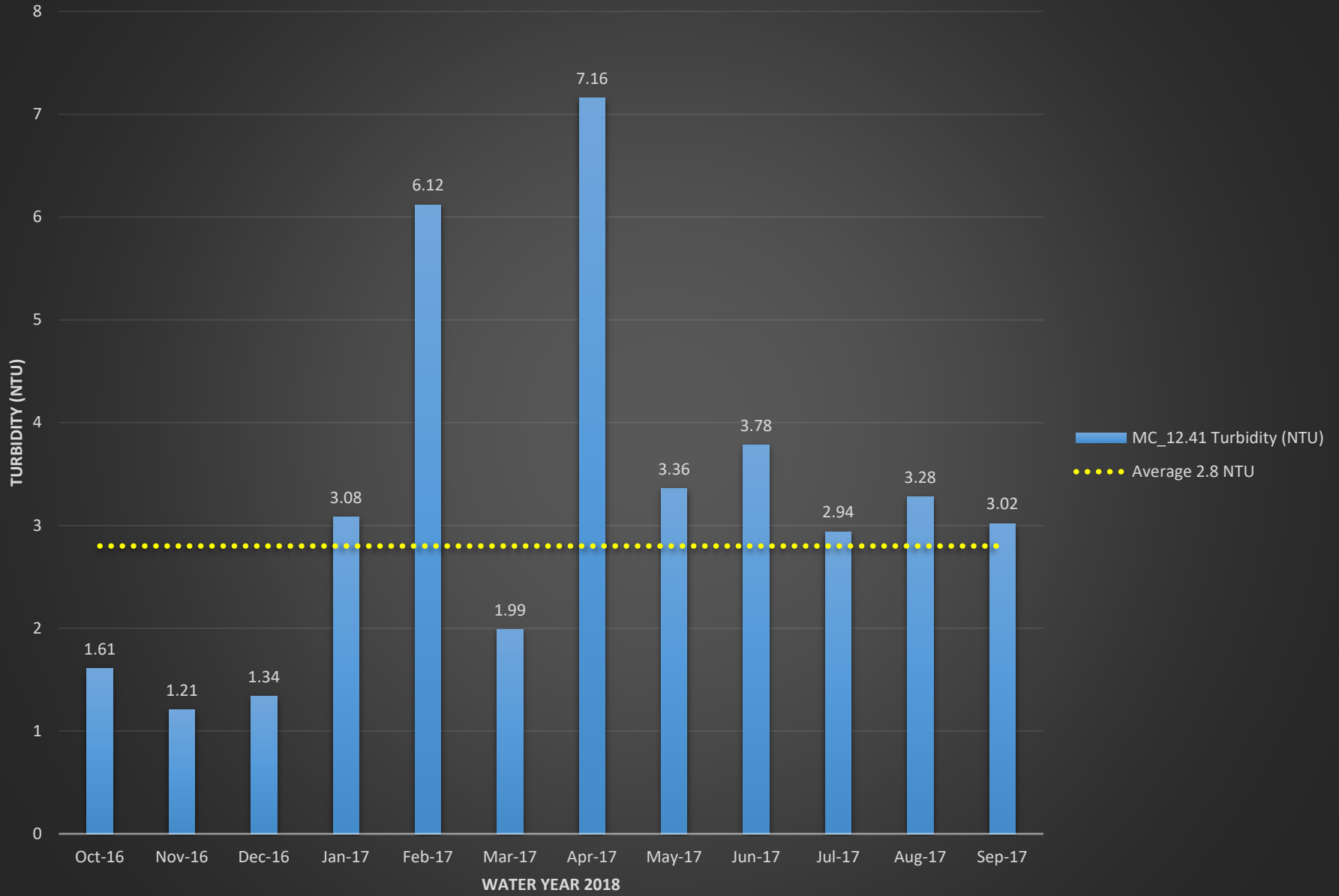


# MC\_12.41 Conductivity (mS/cm)

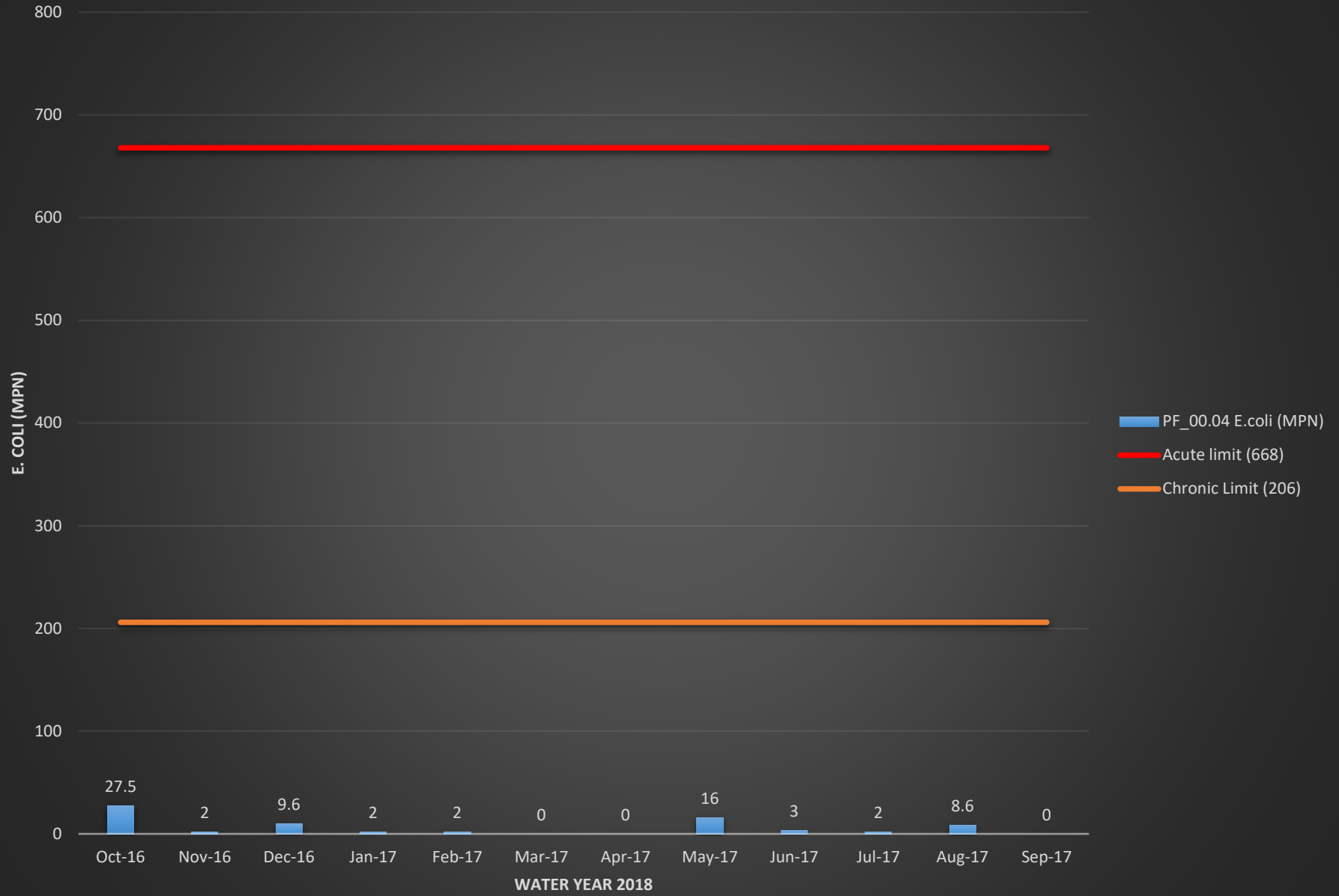




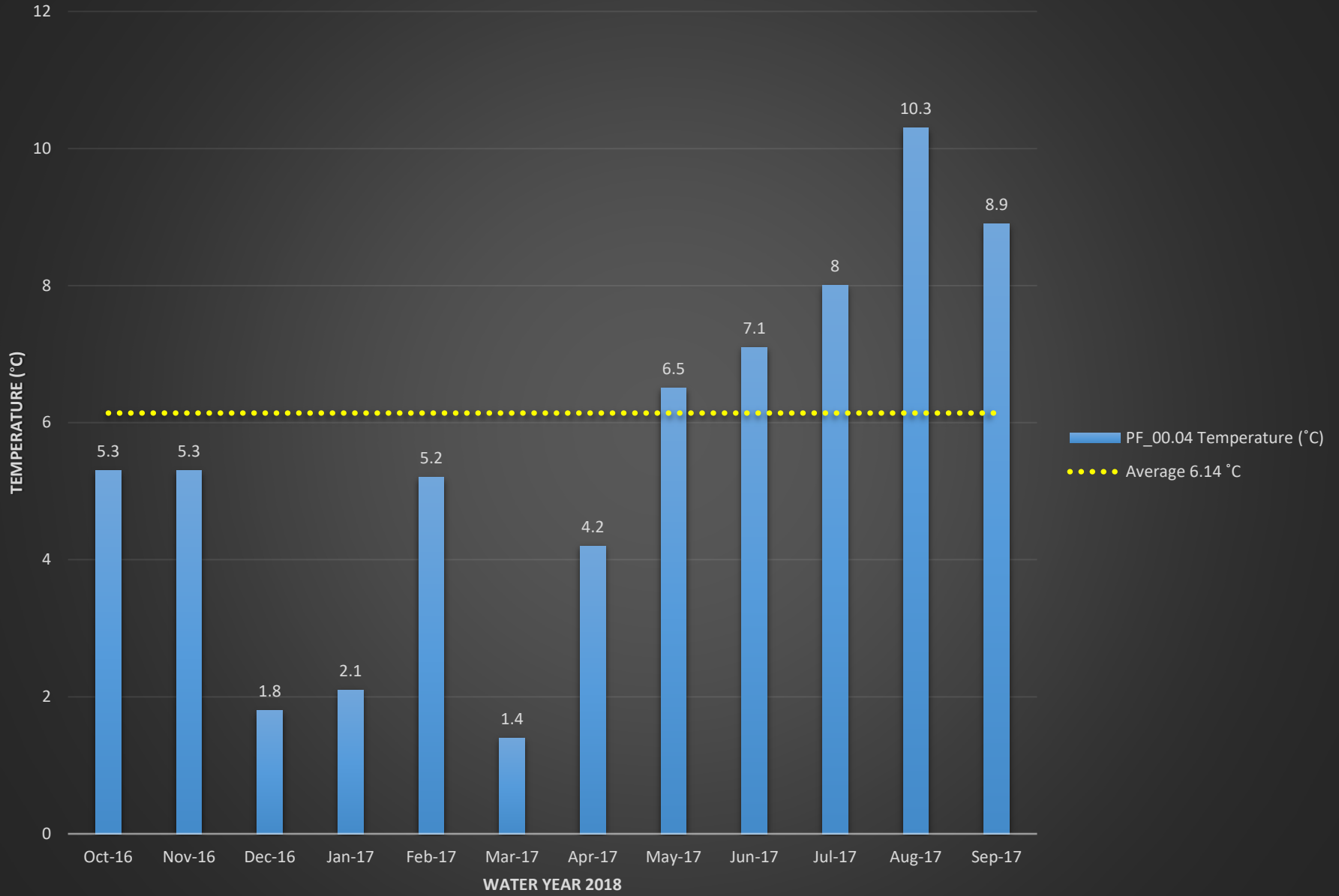
# MC\_12.41 Turbidity (NTU)



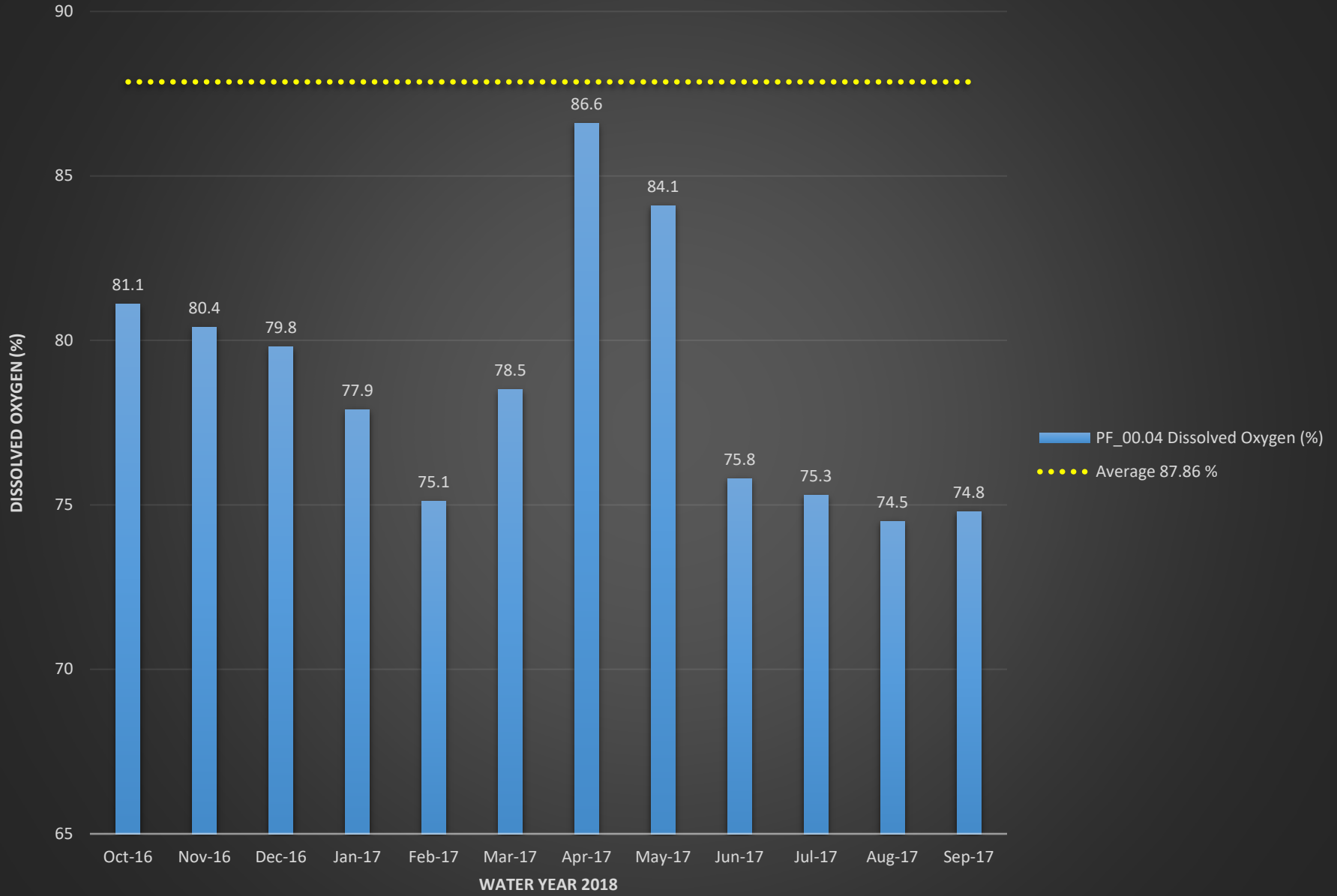
# PF\_00.04 E.coli (MPN)



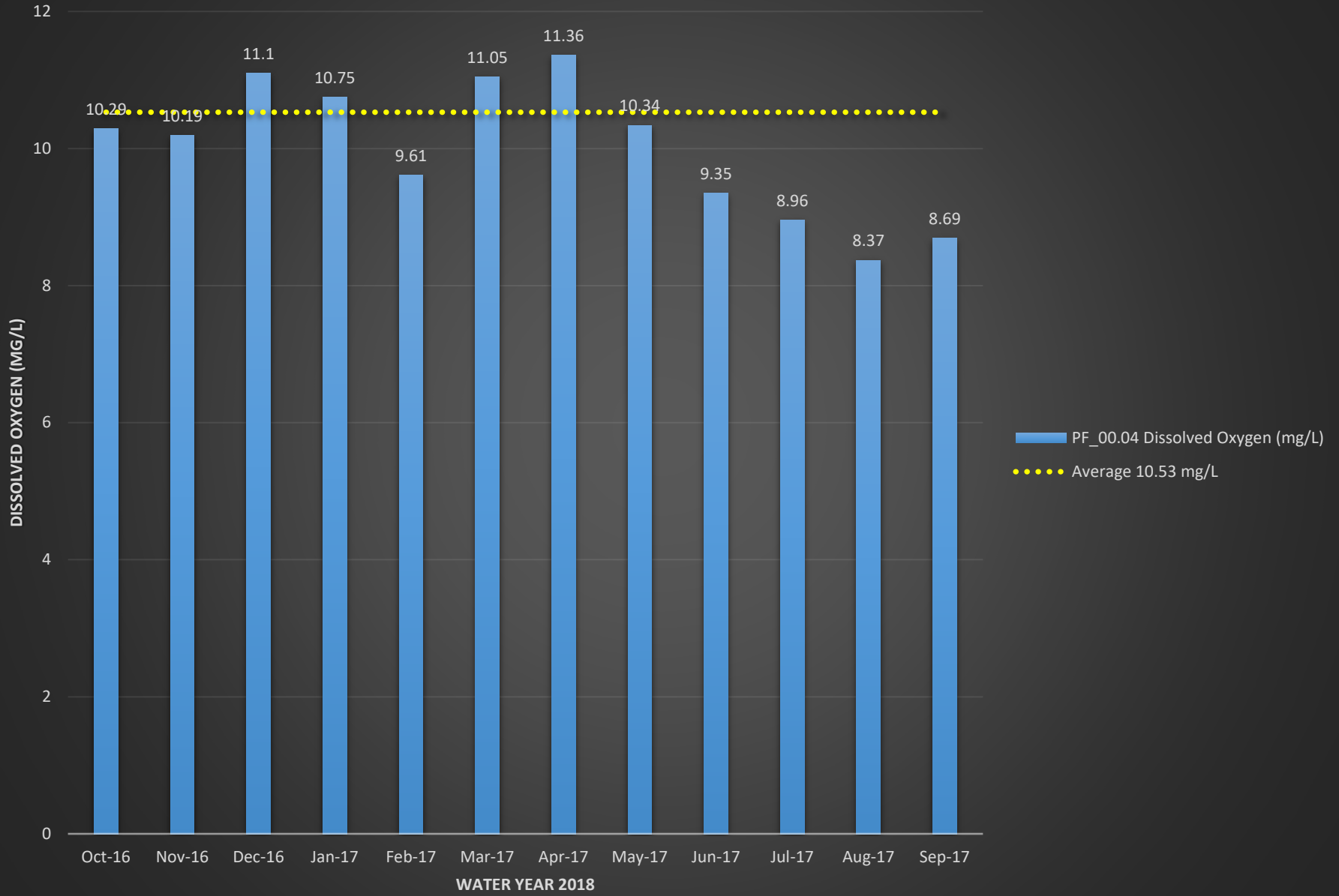
# PF\_00.04 Temperature (°C)



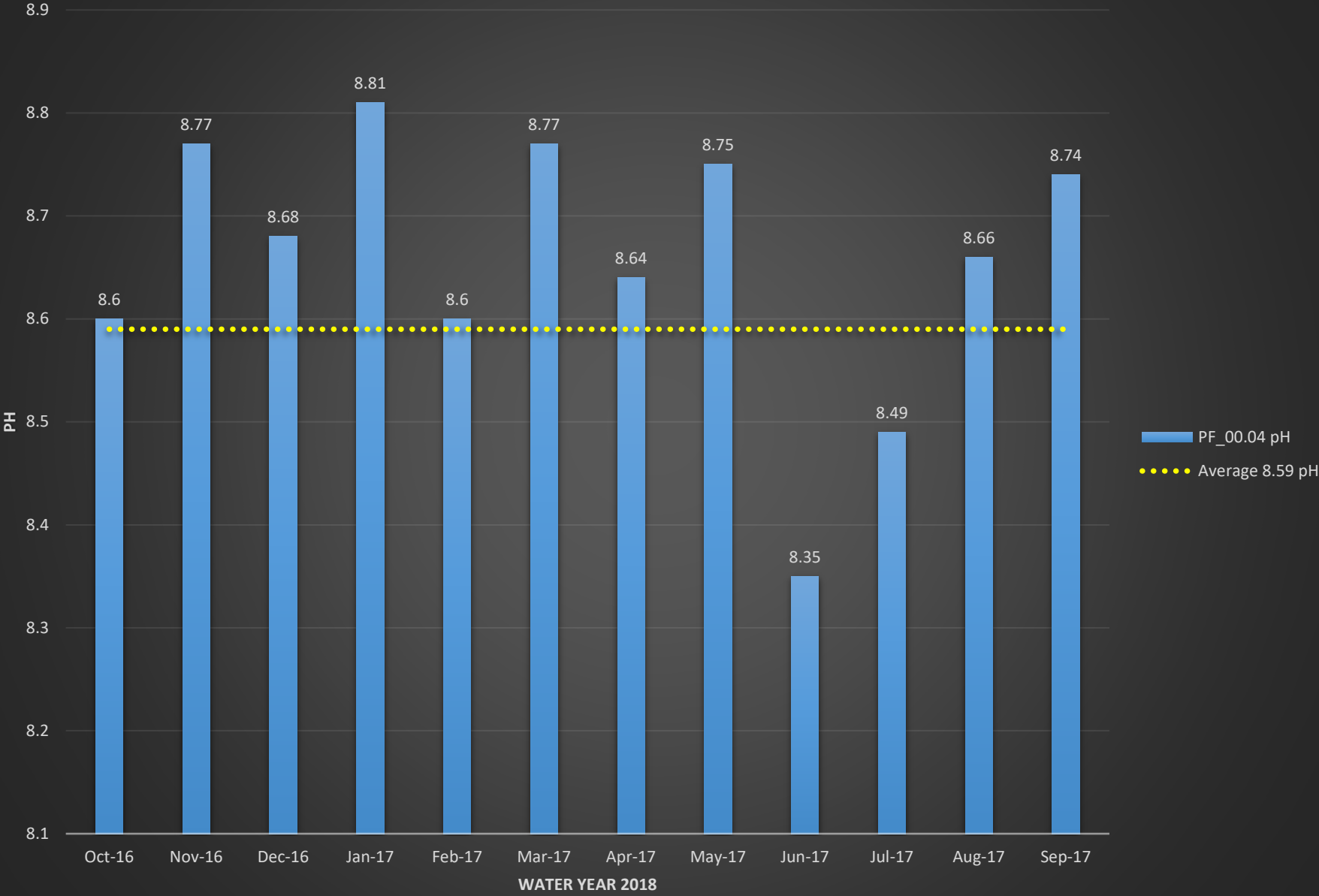
# PF\_00.04 Dissolved Oxygen (%)



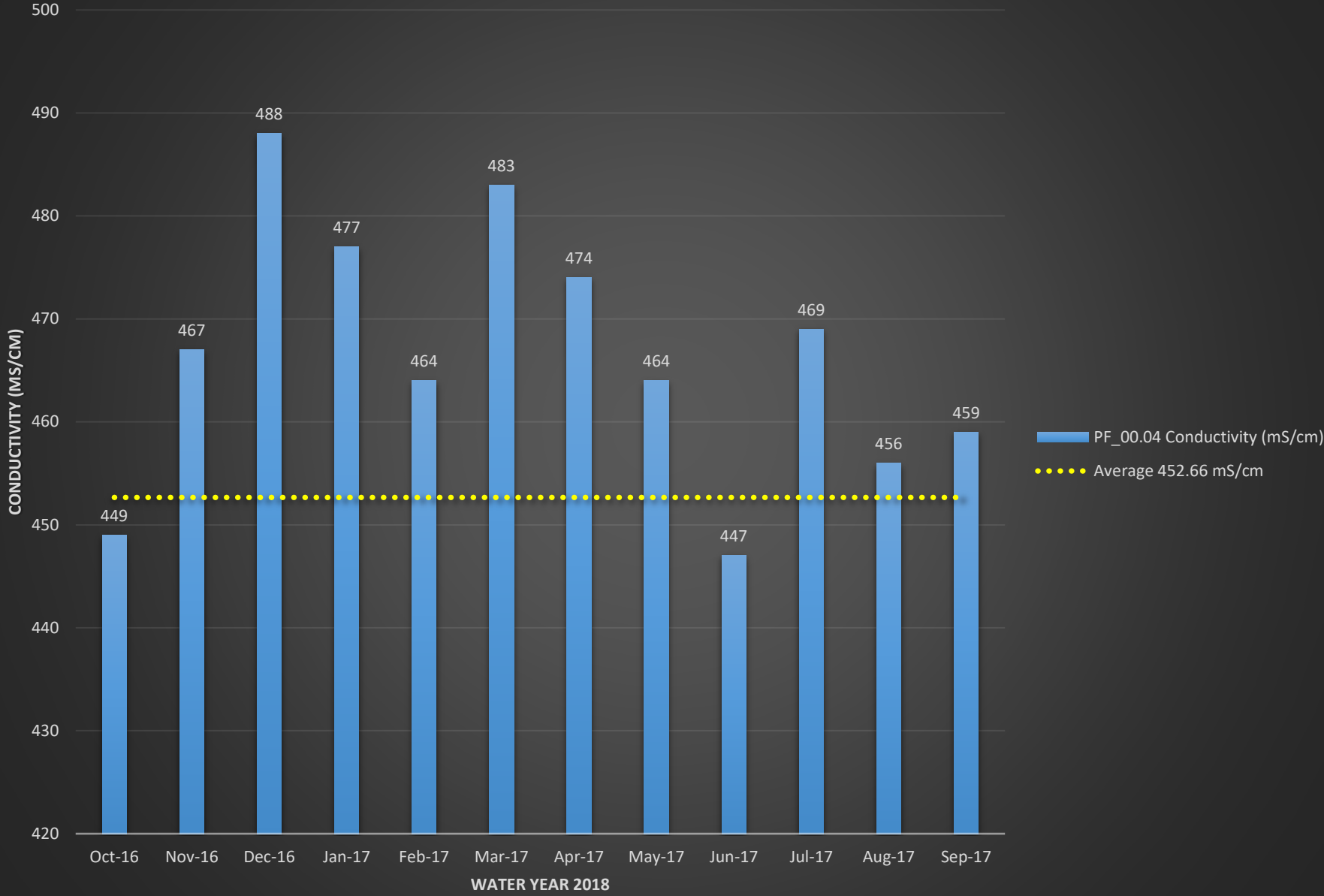
# PF\_00.04 Dissolved Oxygen (mg/L)



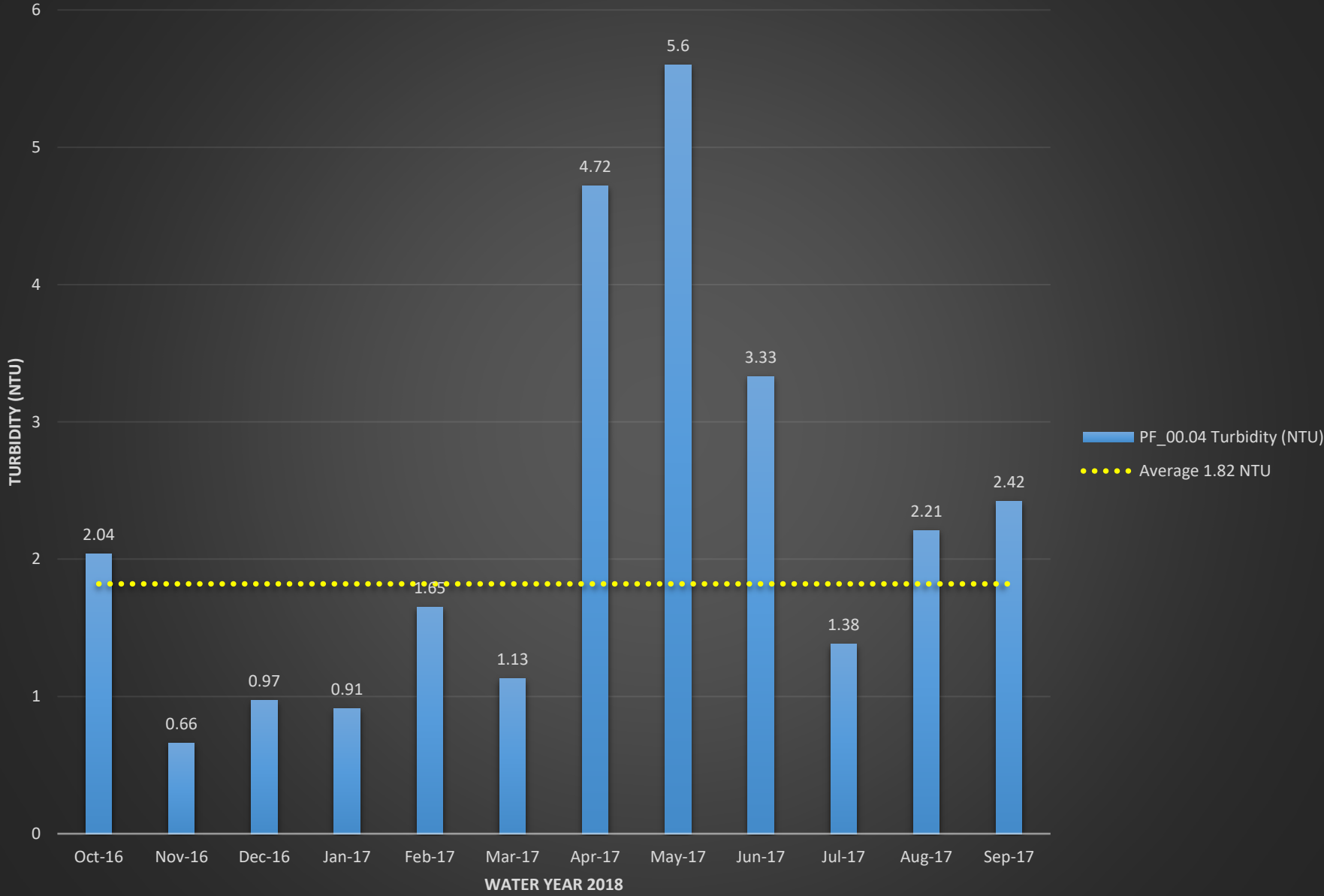
# PF\_00.04 pH



# PF\_00.04 Conductivity (mS/cm)



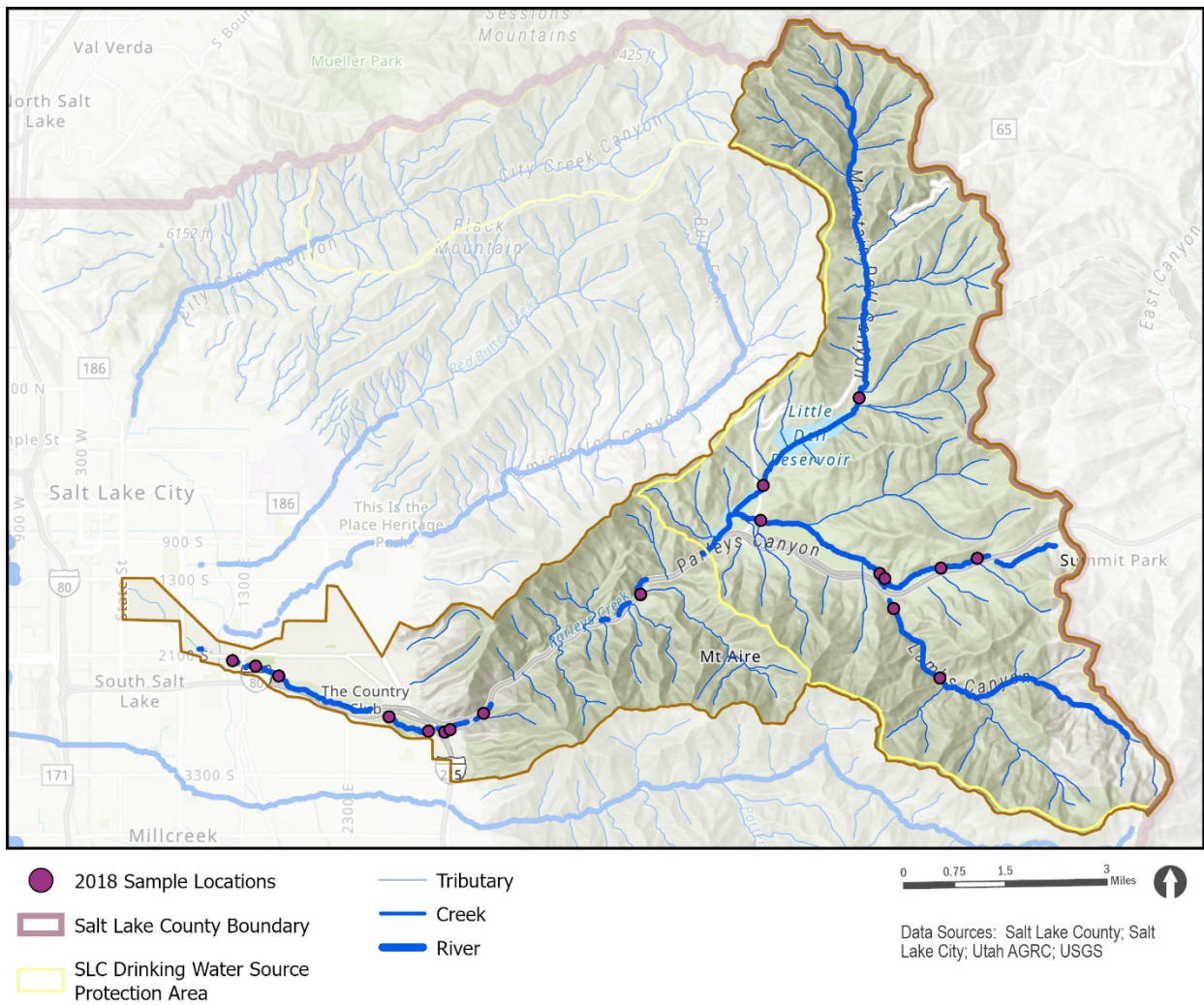
# PF\_00.04 Turbidity (NTU)



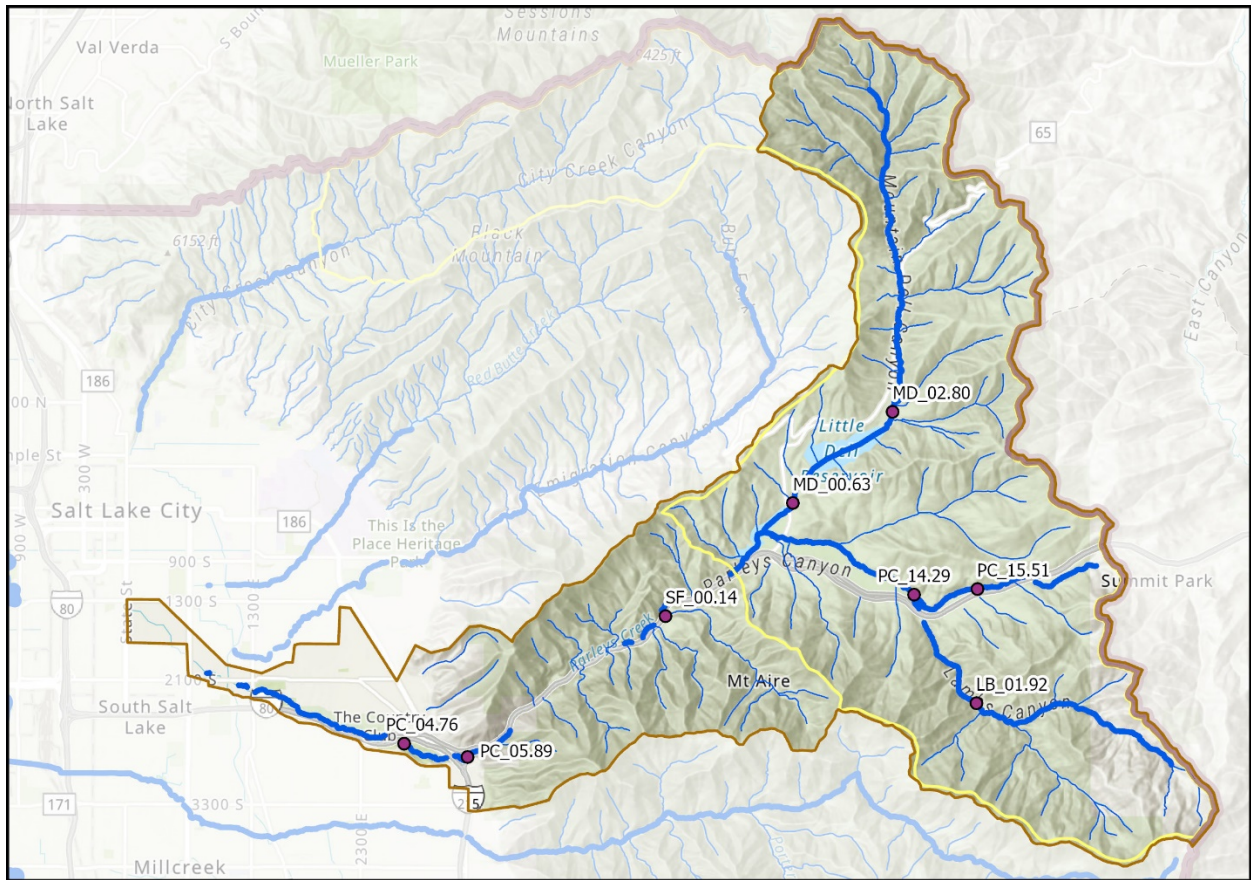


# PARLEYS CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



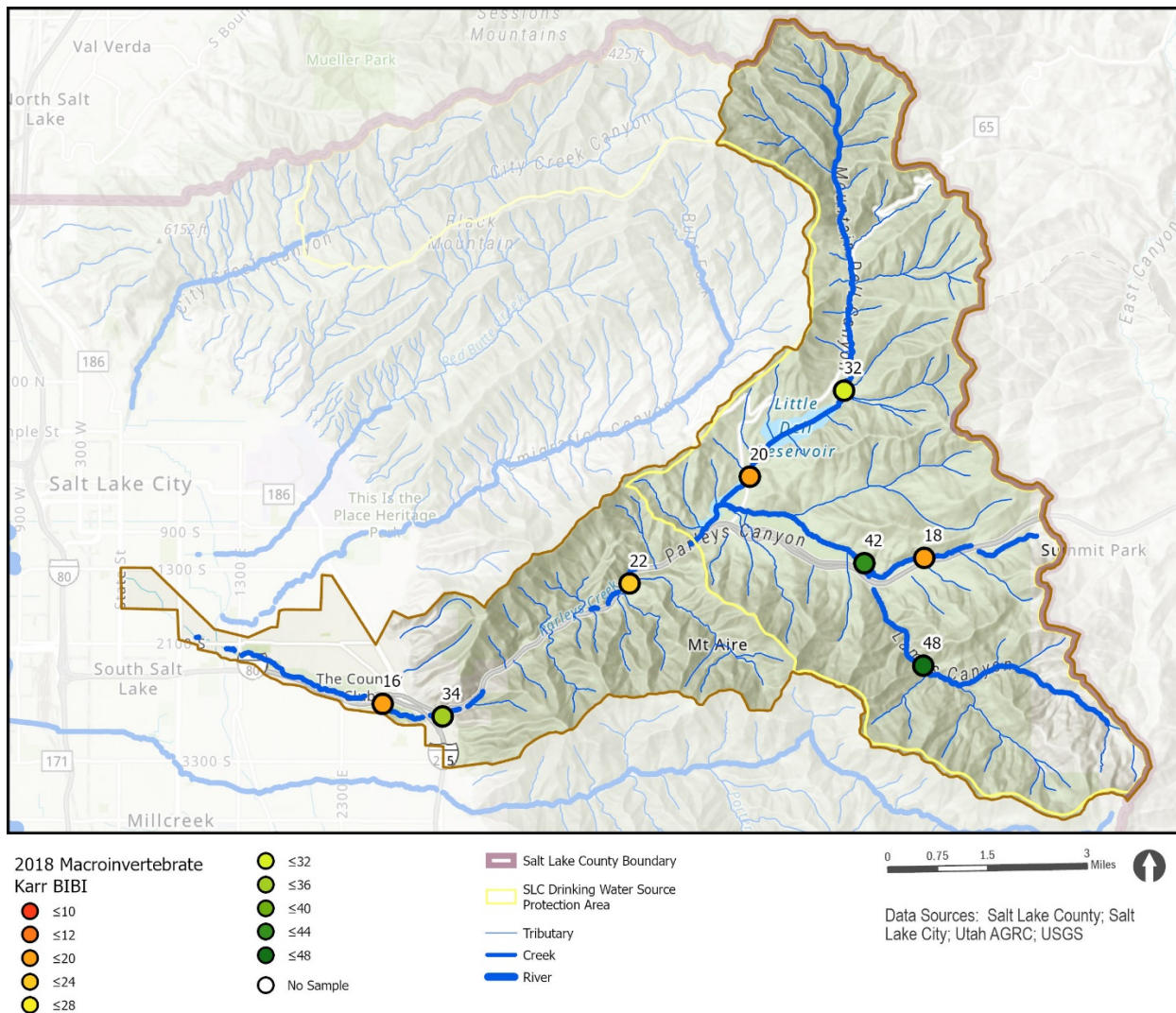
- 2018 Macroinvertebrate Sample Locations
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



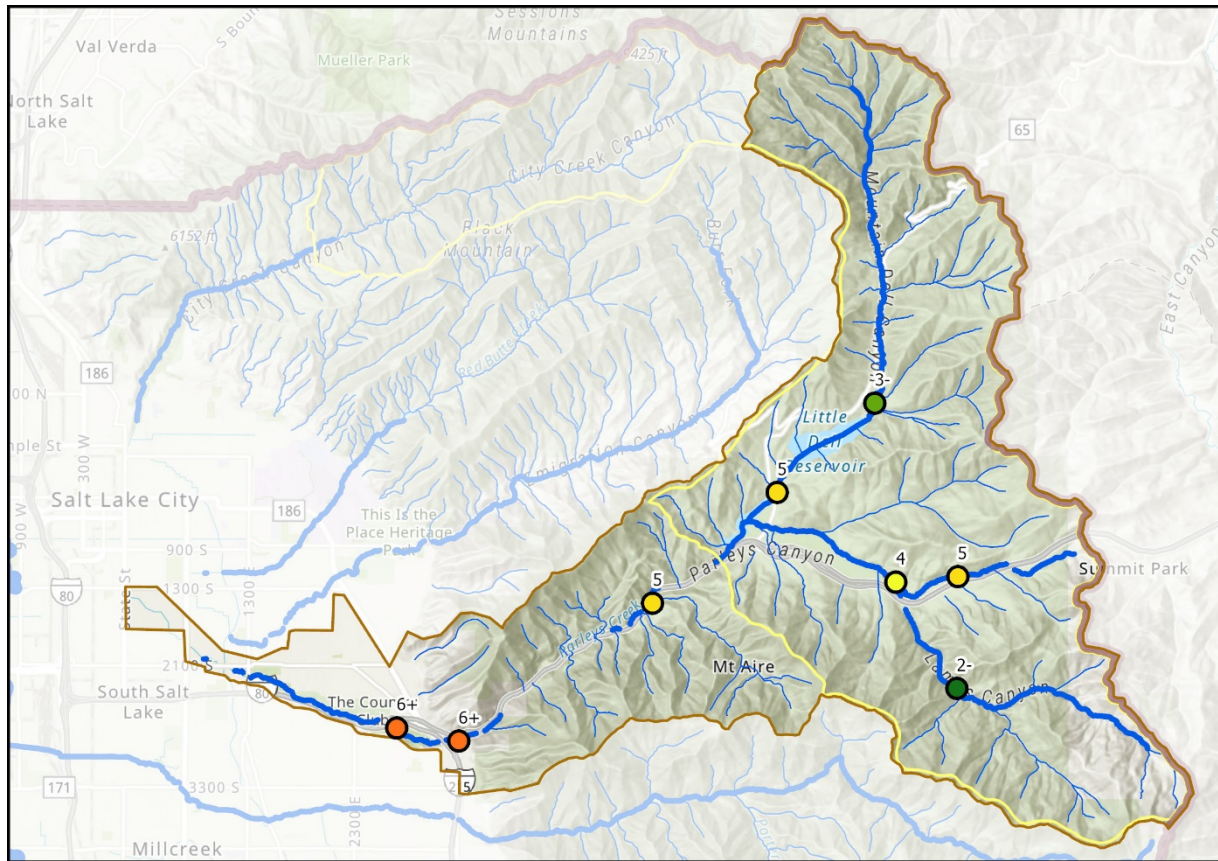
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



# Macroinvertebrate Biological Condition Gradient (BCG) Results



2018 Macroinvertebrate Biological Condition Gradient

- 2-
- 2
- 3-
- 3
- 3+

- 4
- 5
- 5+
- 6
- 6+
- No Sample

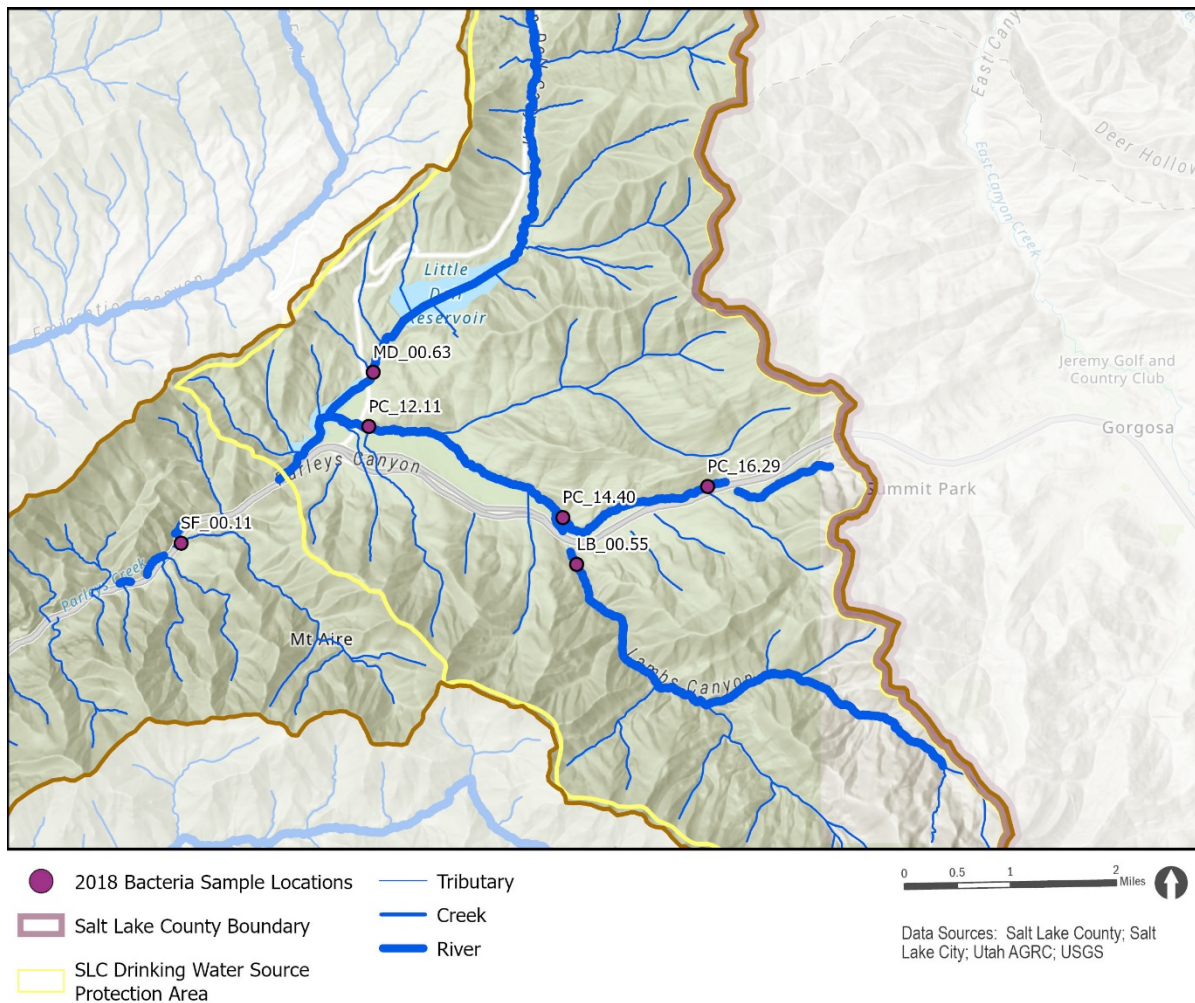
- ▭ Salt Lake County Boundary
- ▭ SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



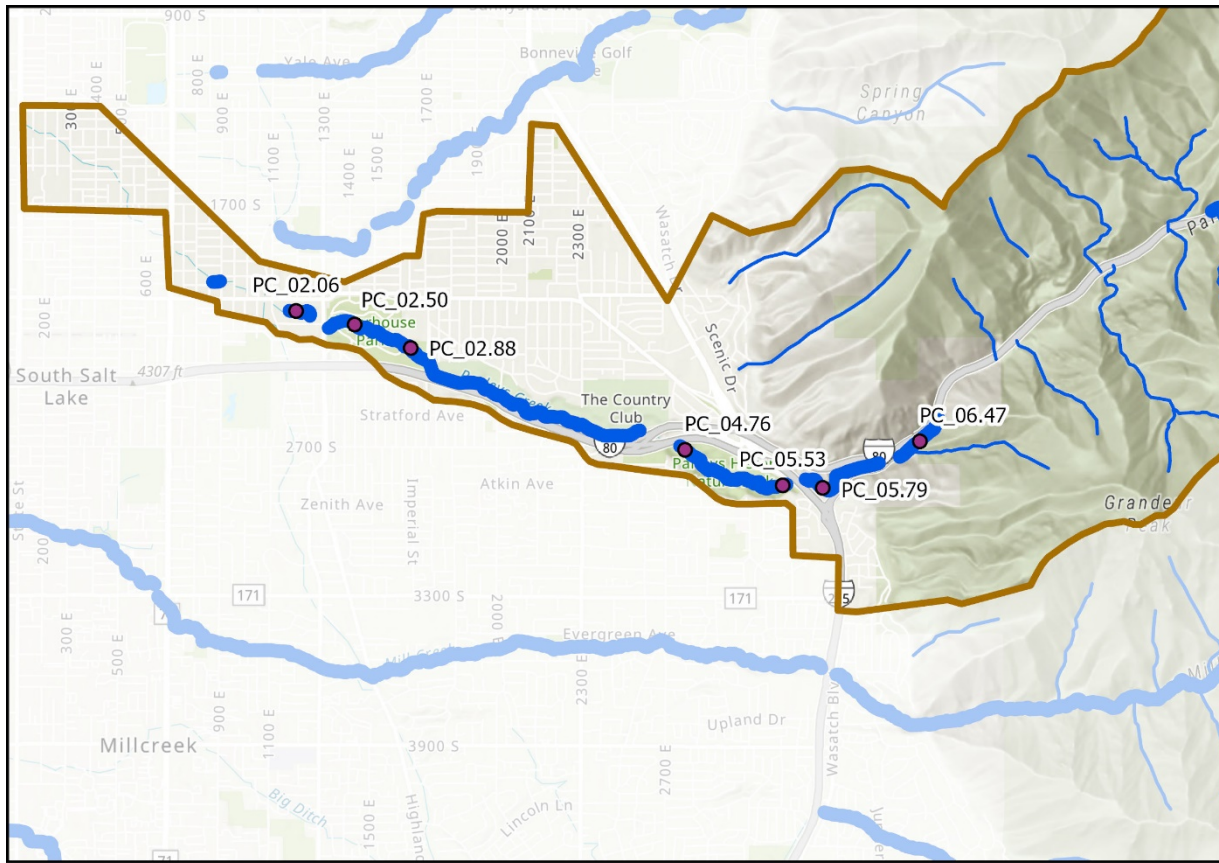
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



Subwatershed Map with Bacteria Sample Sites (upper)



## Subwatershed Map with Bacteria Sample Sites (lower)



- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- Tributary
- Creek
- River

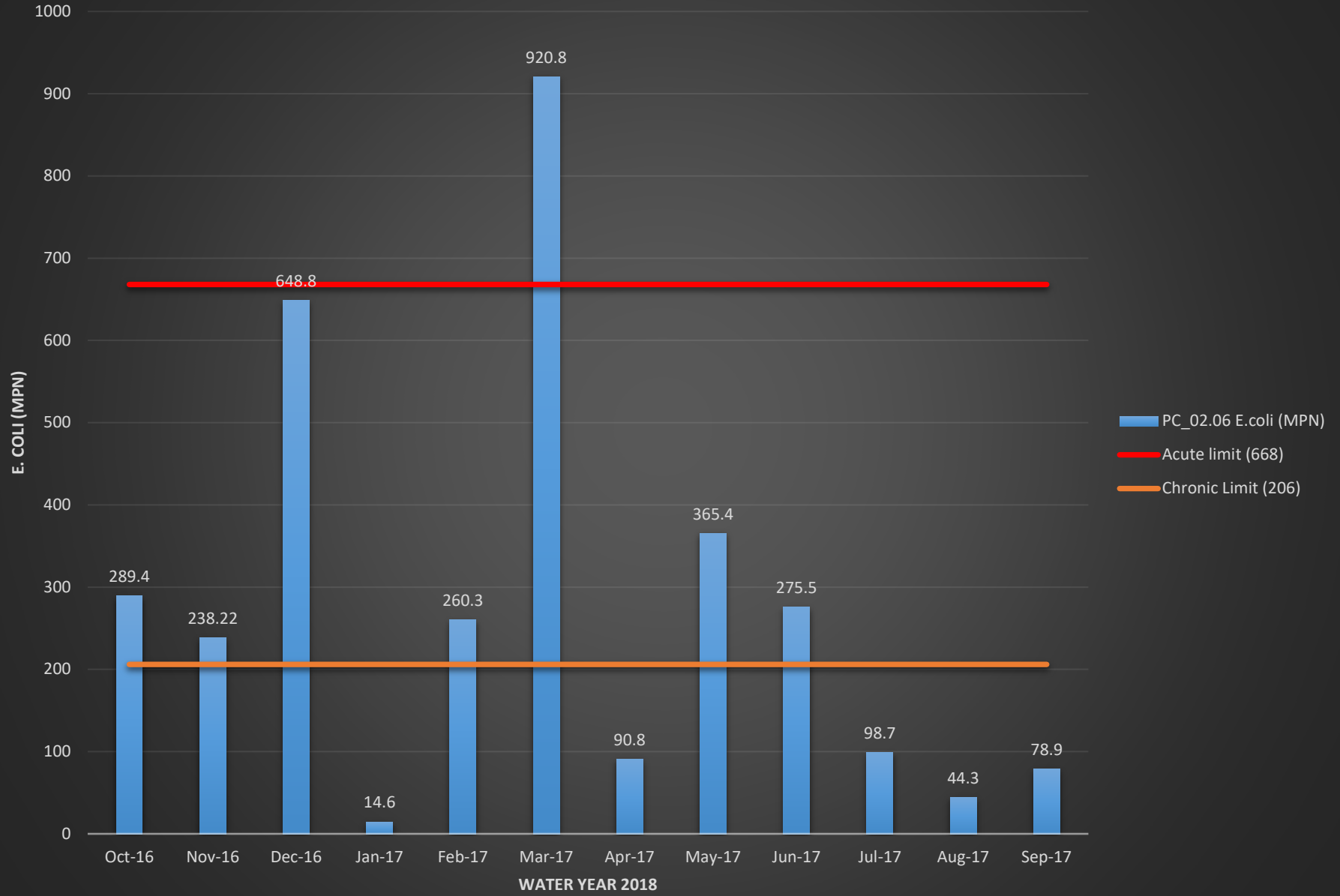


Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

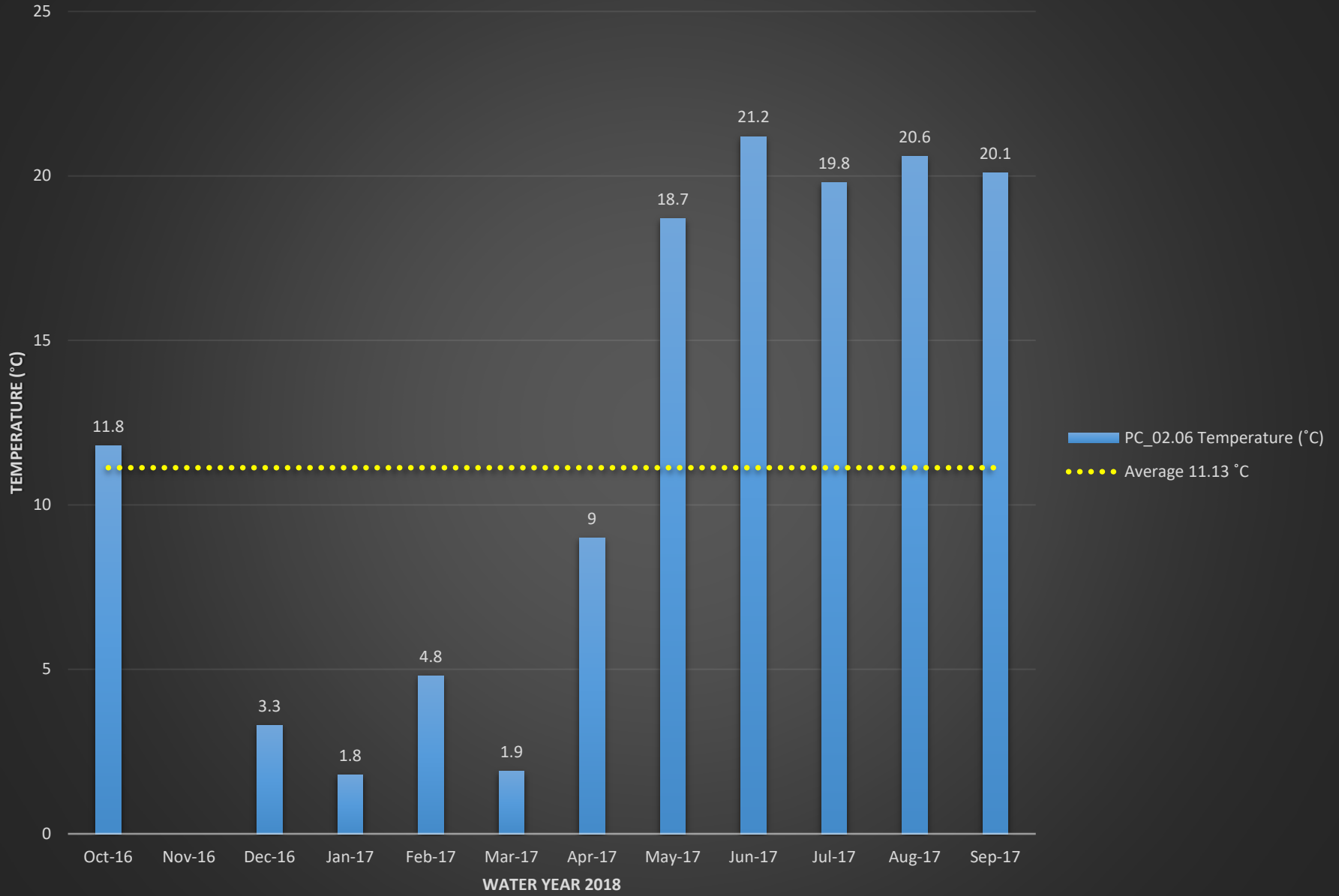
*E. coli* & Field Parameter

Graphs Graphs begin on next page...

# PC\_02.06 E.coli (MPN)

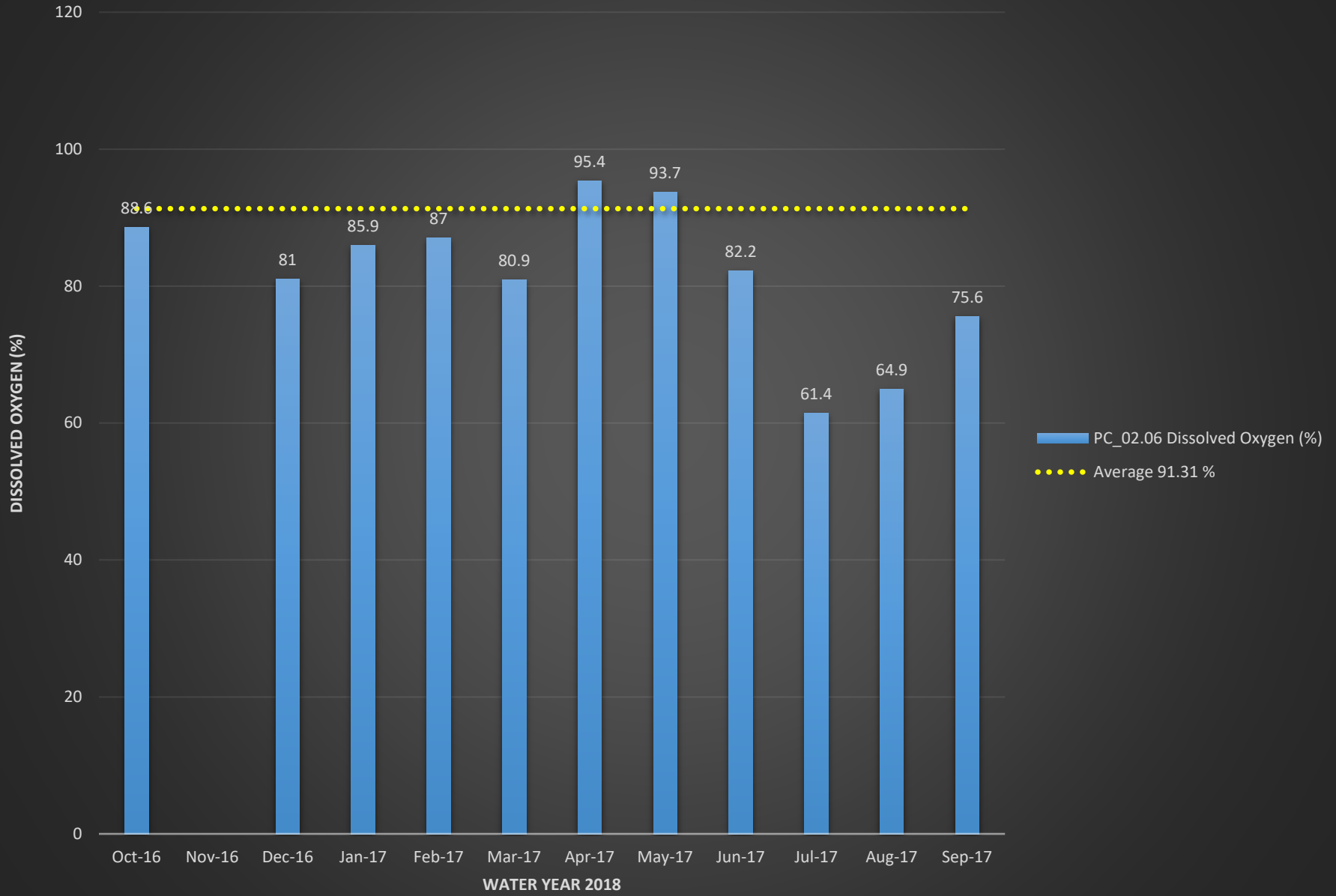


# PC\_02.06 Temperature (°C)

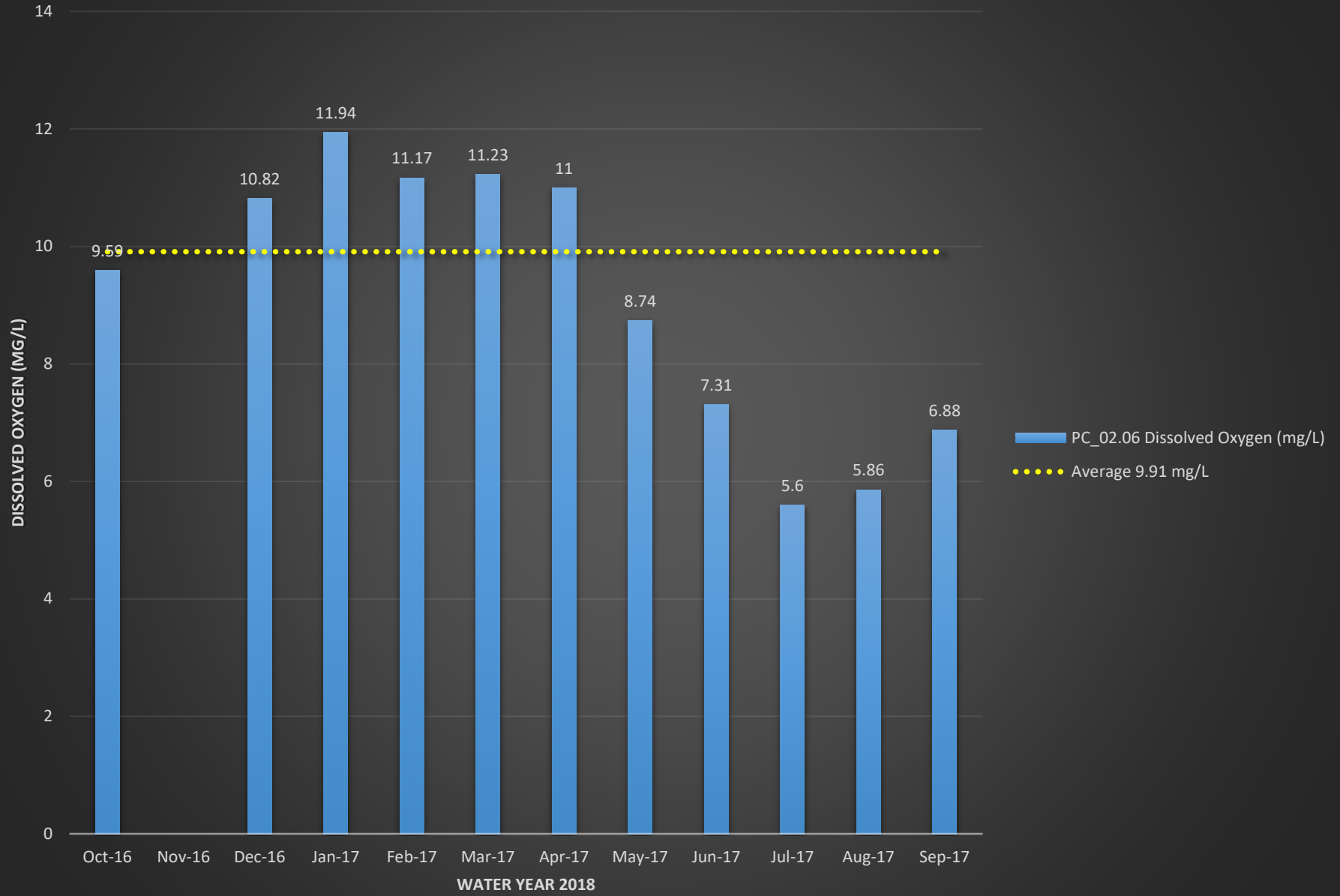




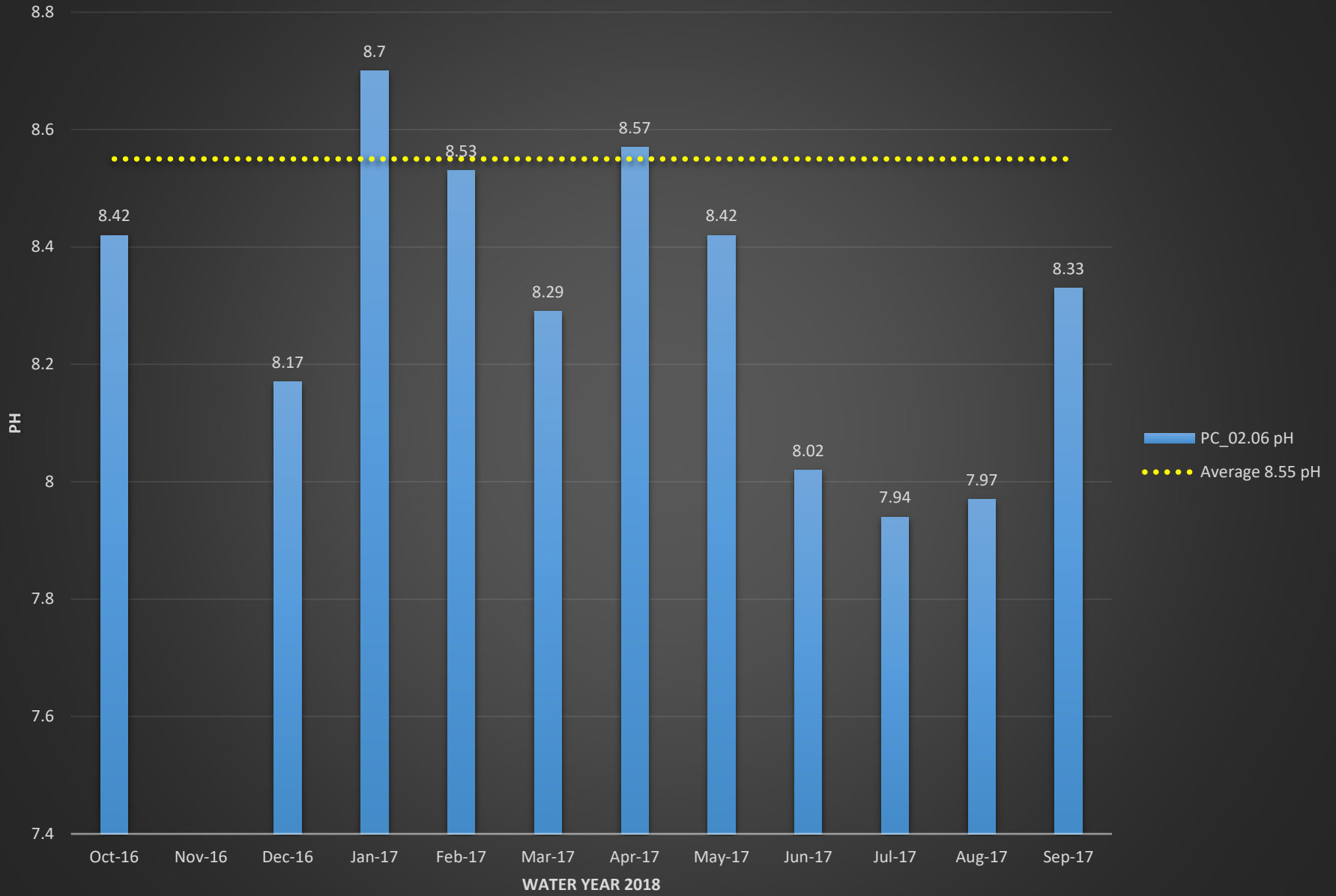
# PC\_02.06 Dissolved Oxygen (%)



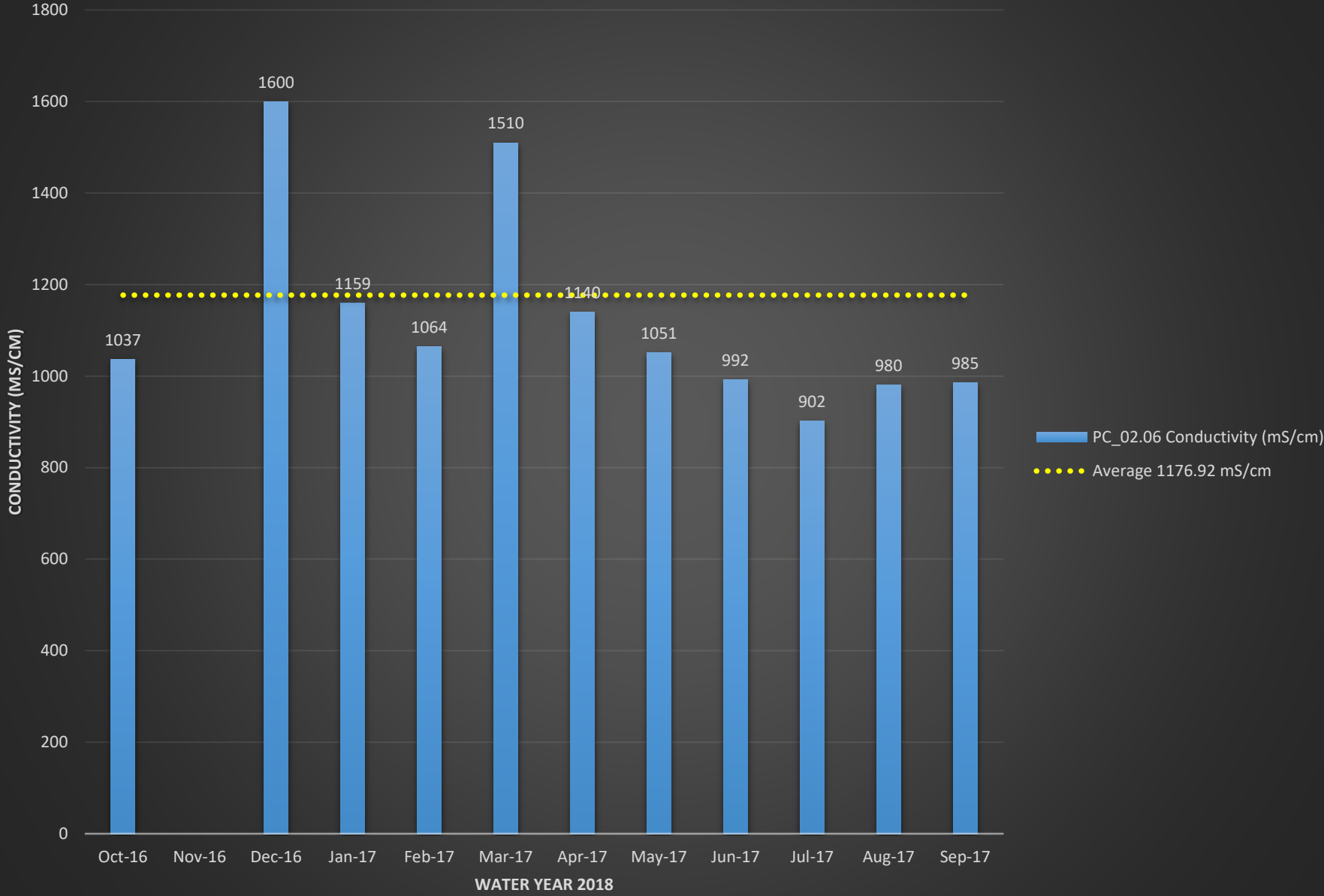
# PC\_02.06 Dissolved Oxygen (mg/L)



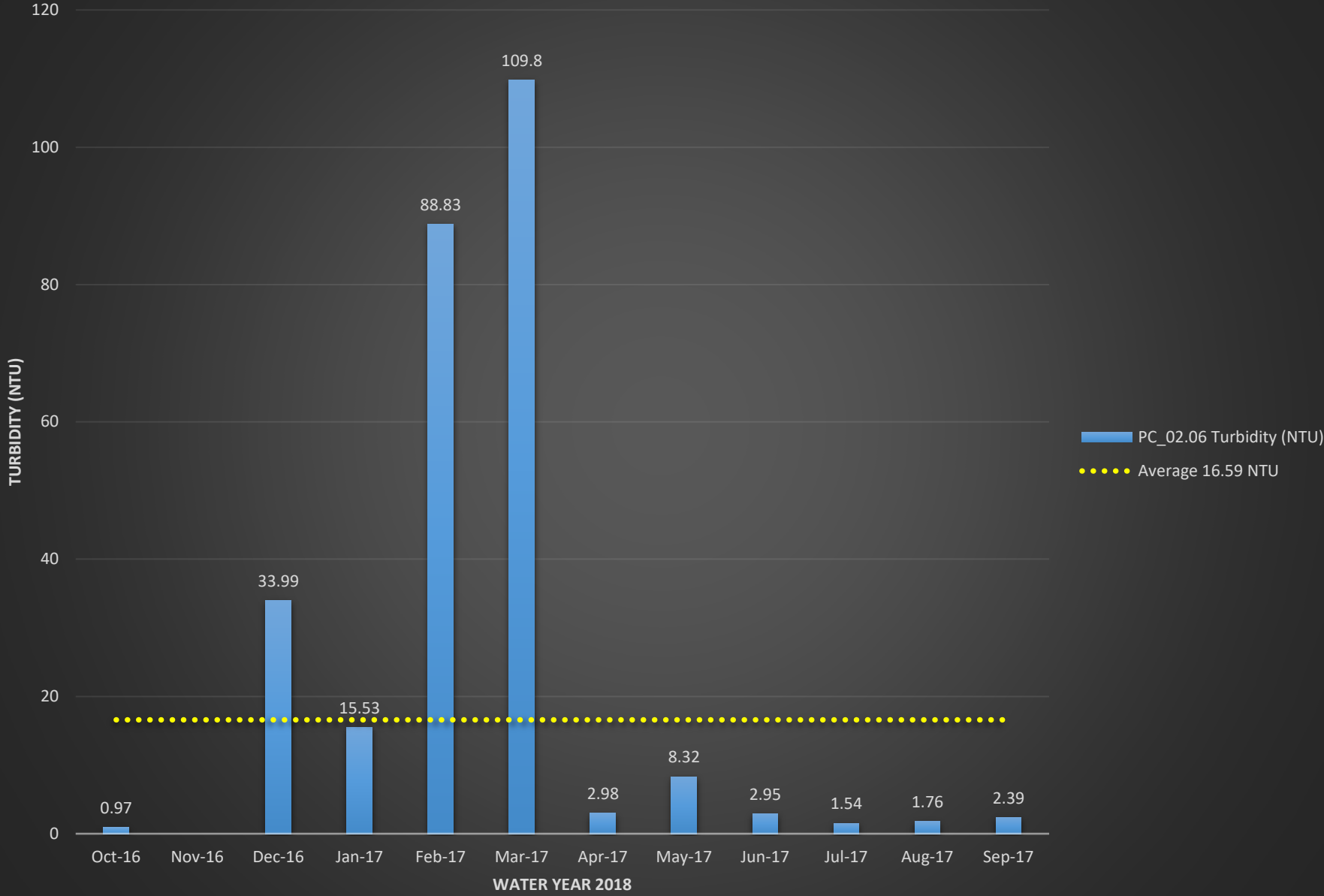
# PC\_02.06 pH



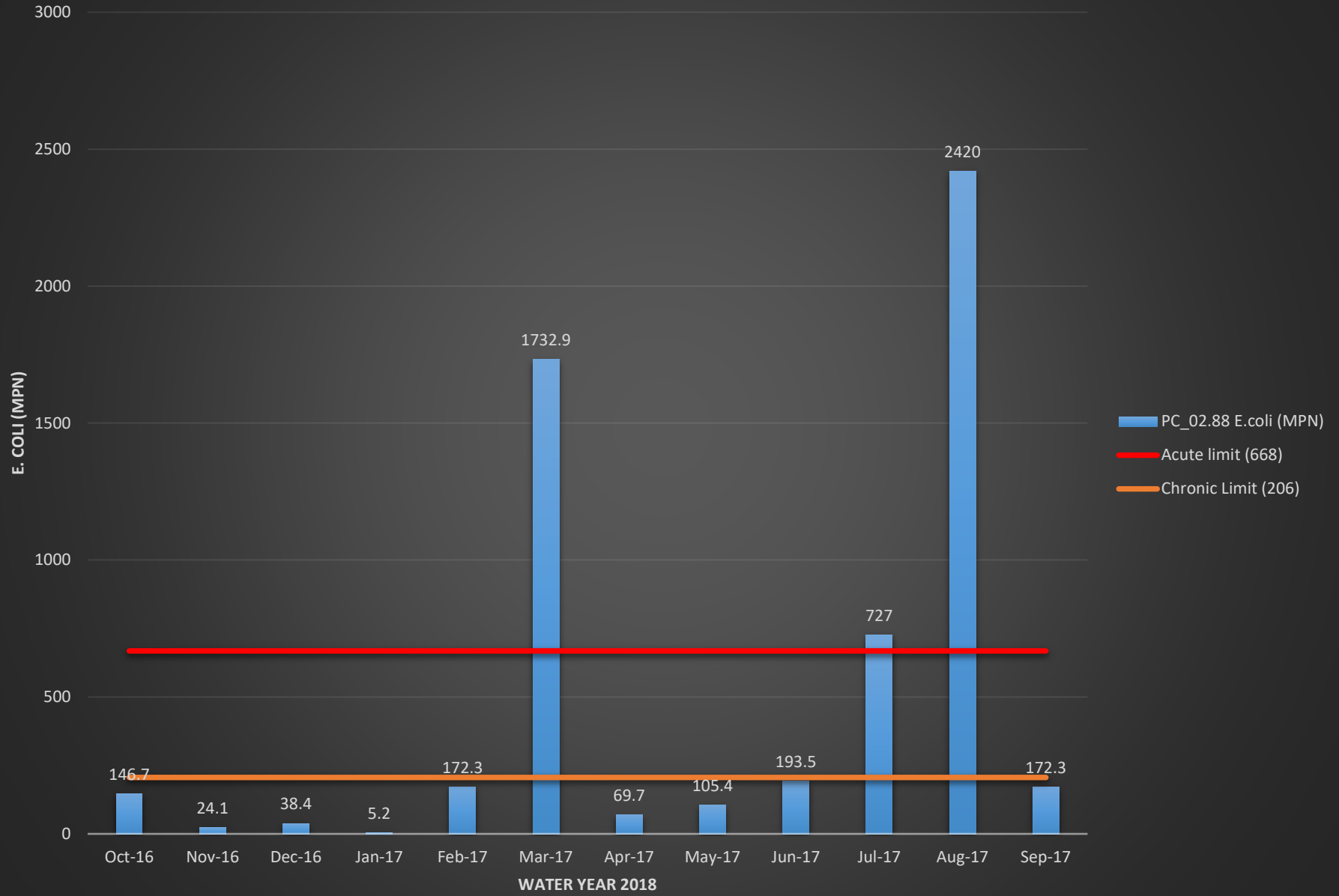
# PC\_02.06 Conductivity (mS/cm)



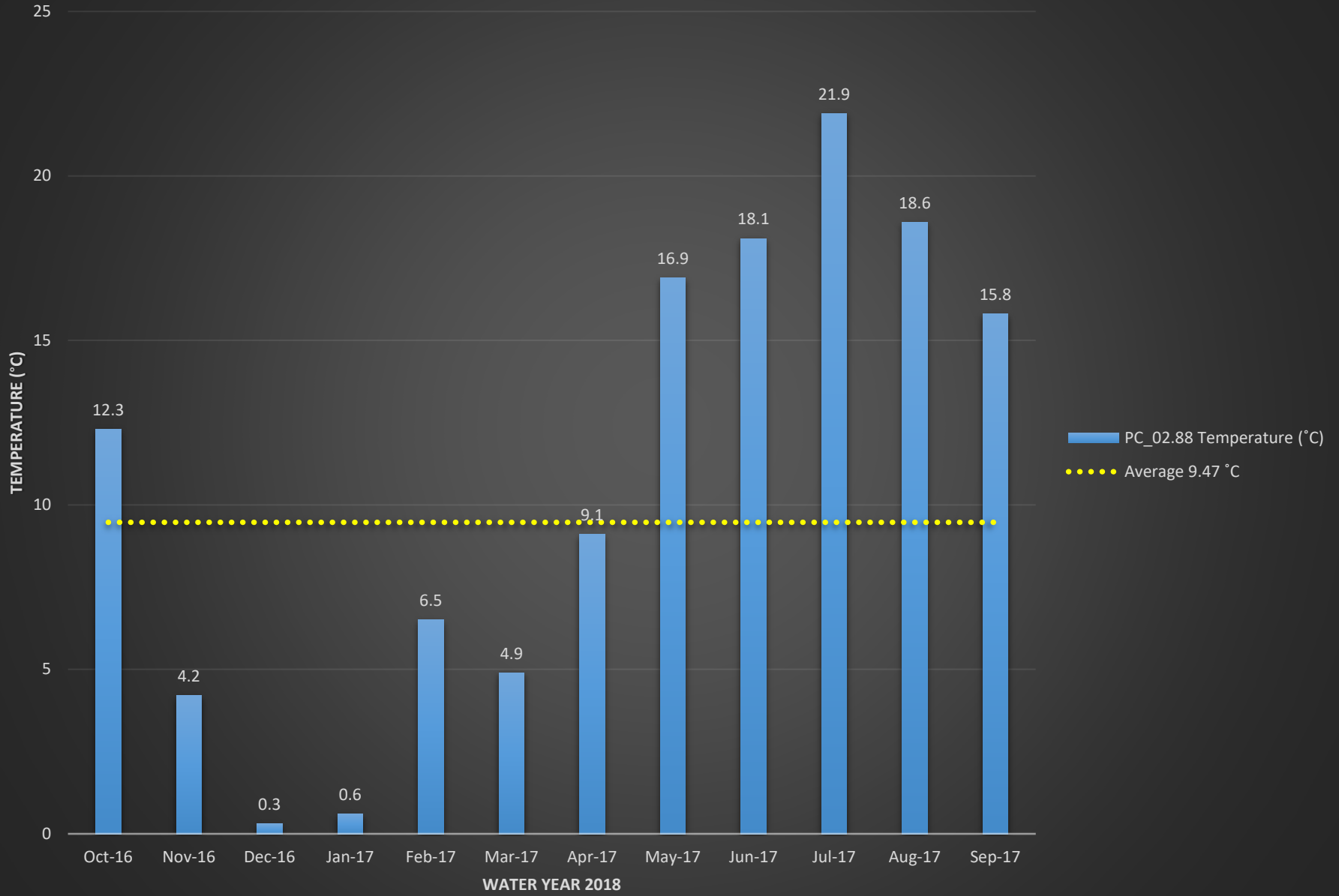
# PC\_02.06 Turbidity (NTU)



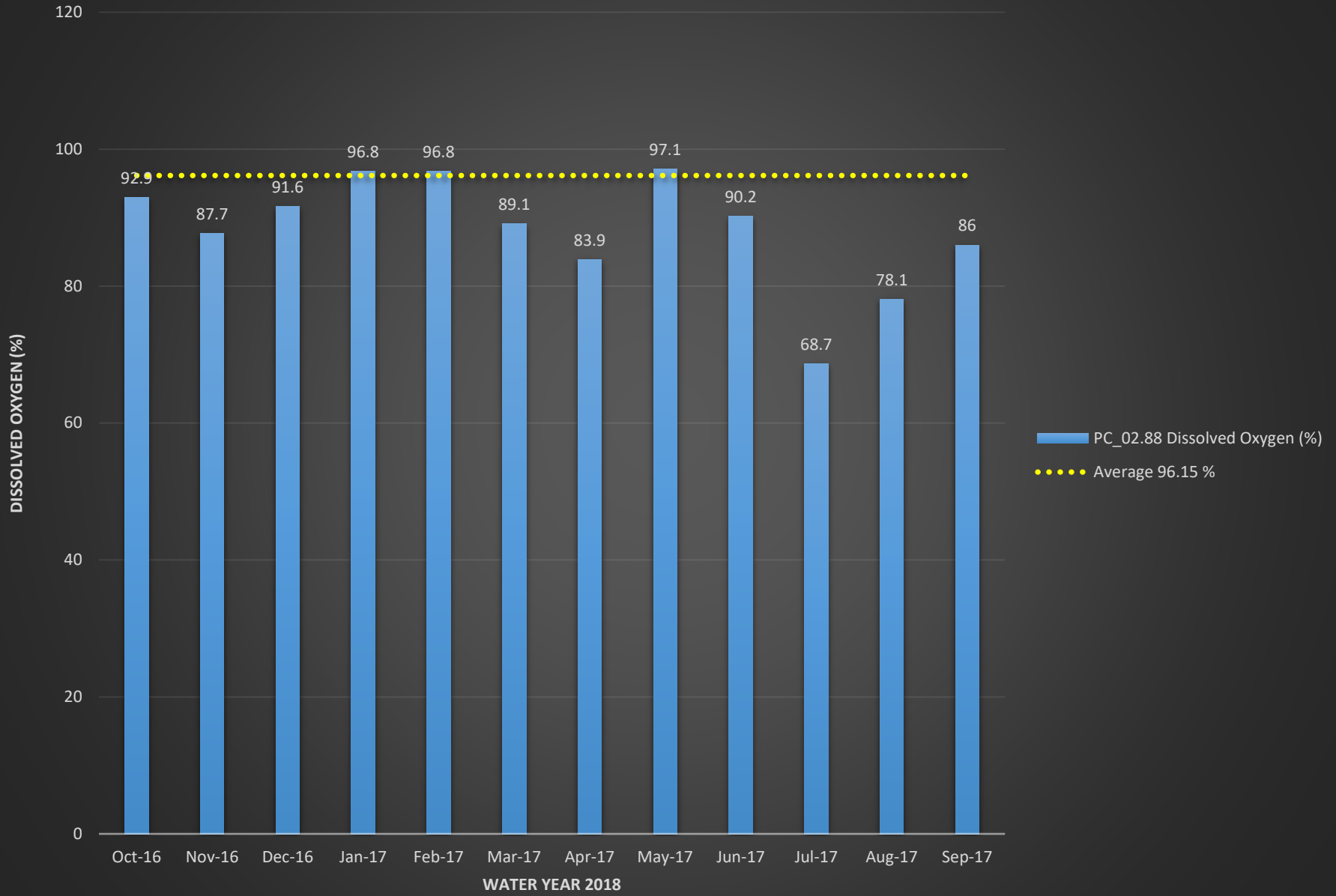
# PC\_02.88 E.coli (MPN)



# PC\_02.88 Temperature (°C)

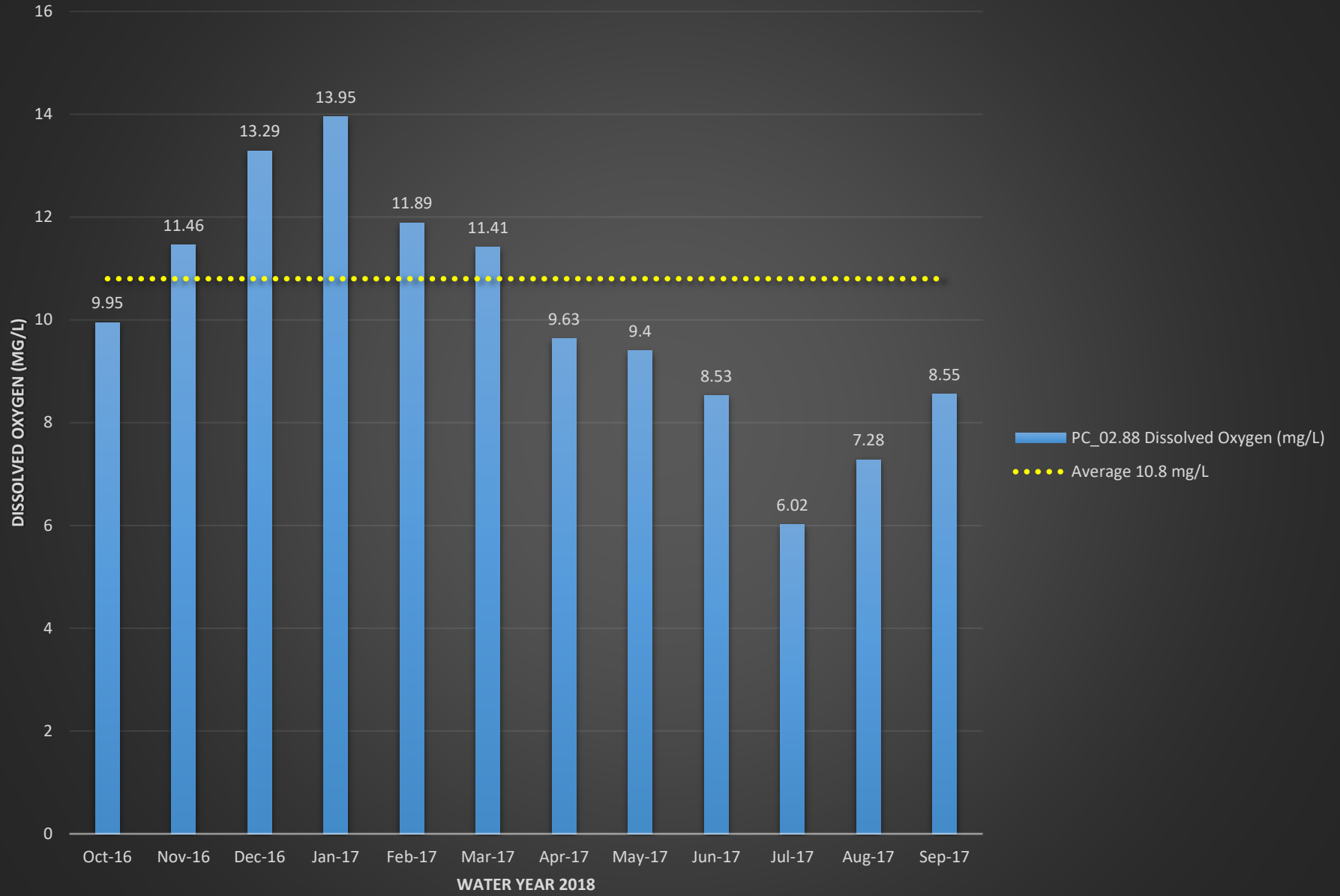


# PC\_02.88 Dissolved Oxygen (%)

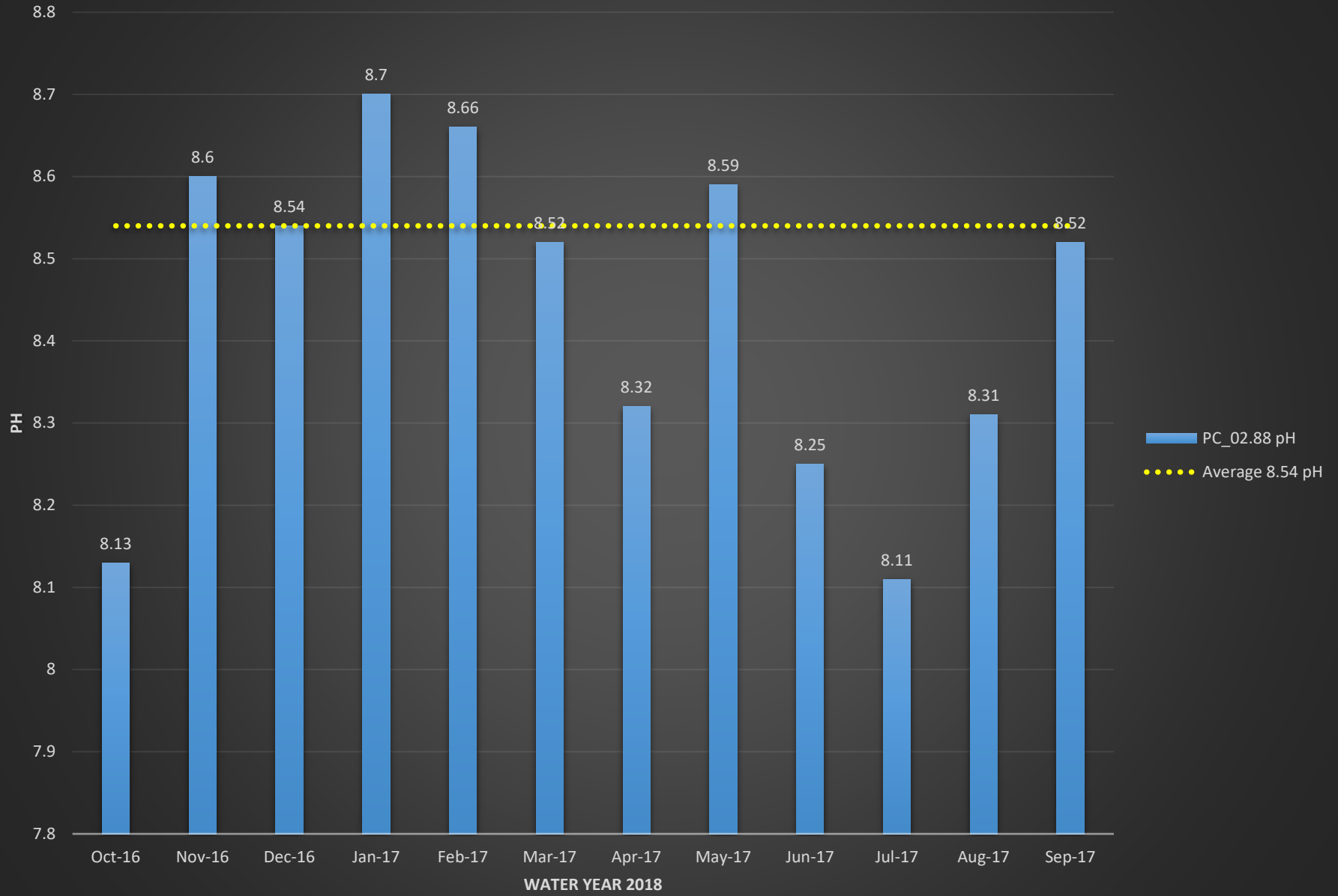




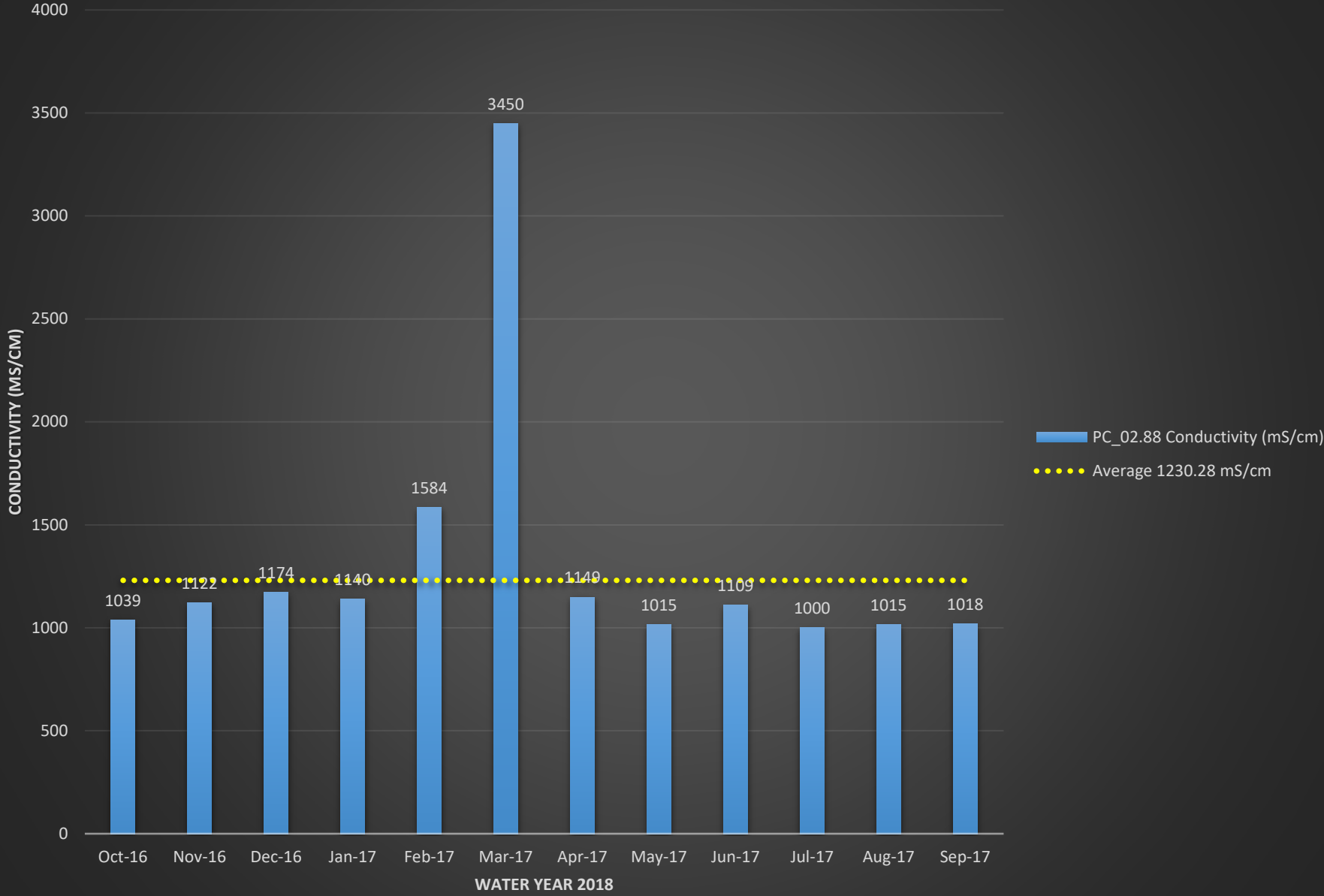
# PC\_02.88 Dissolved Oxygen (mg/L)



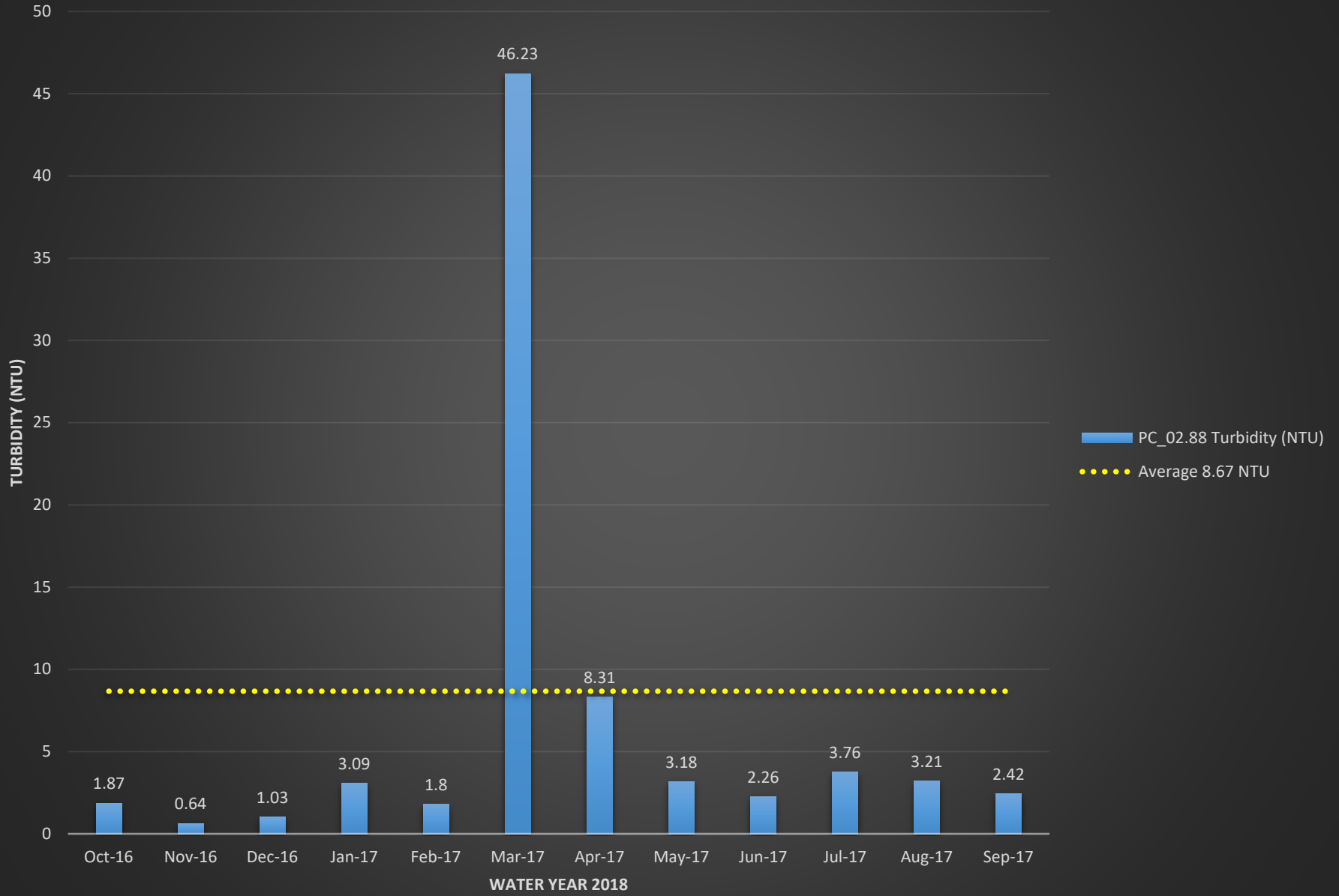
# PC\_02.88 pH



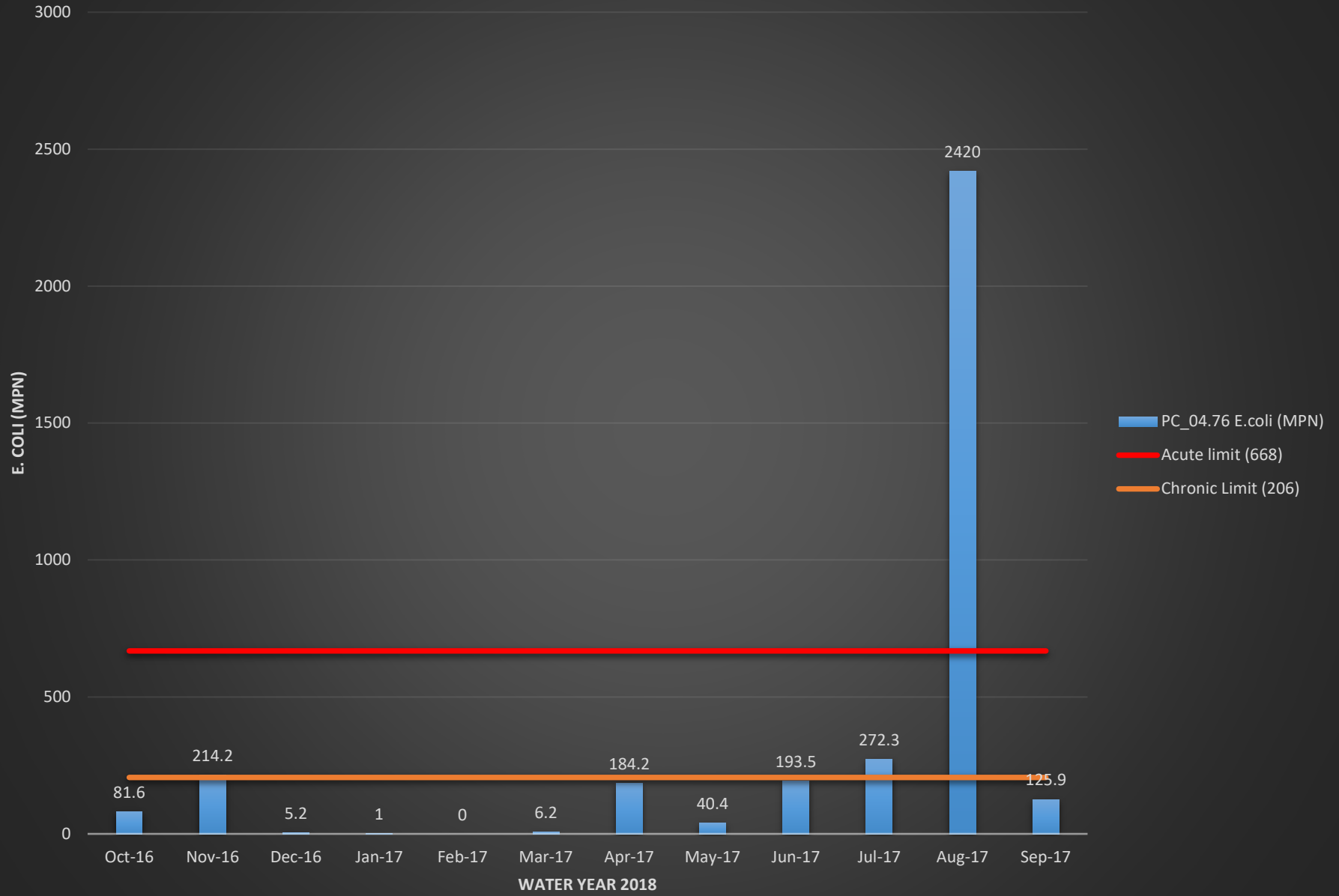
# PC\_02.88 Conductivity (mS/cm)



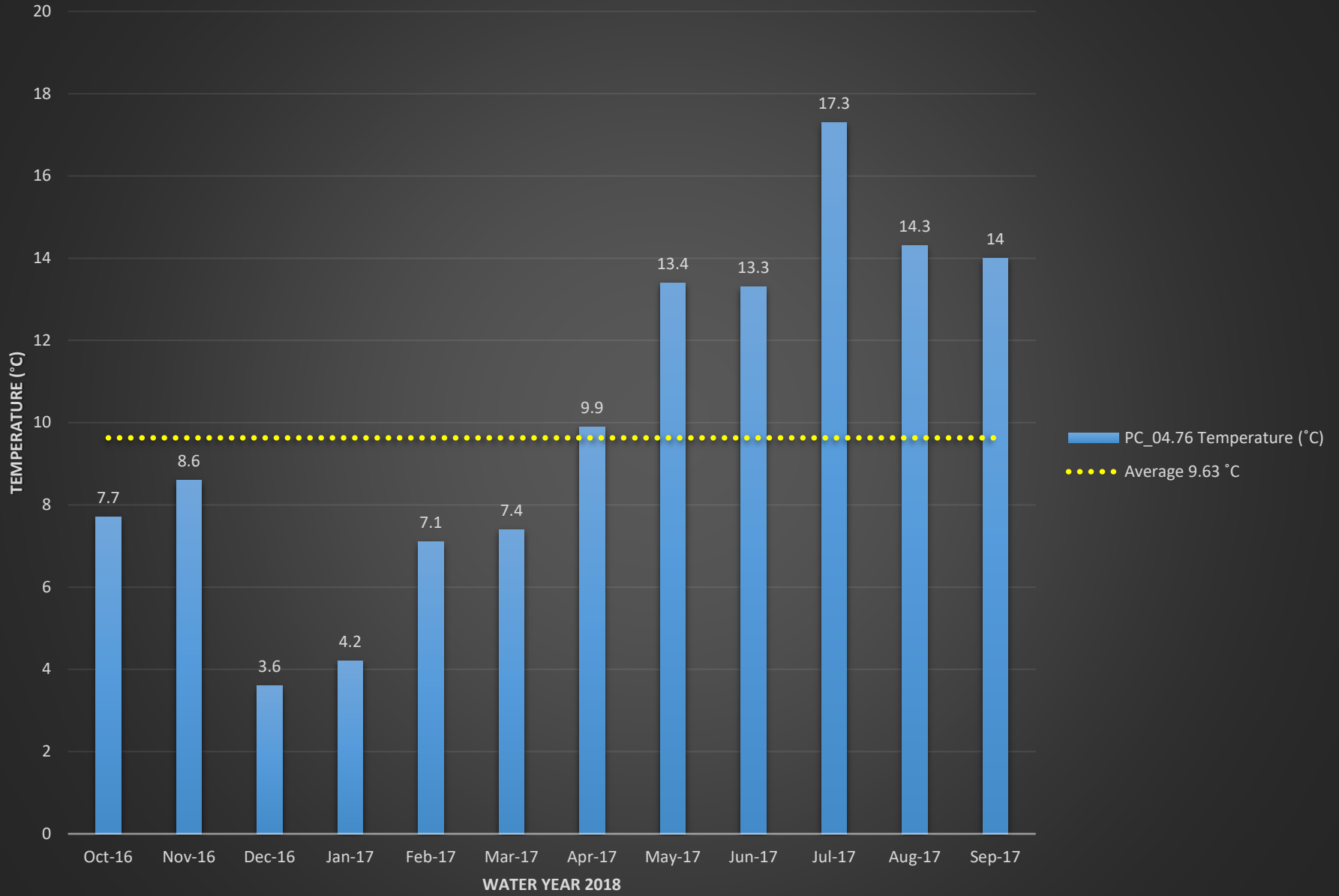
# PC\_02.88 Turbidity (NTU)



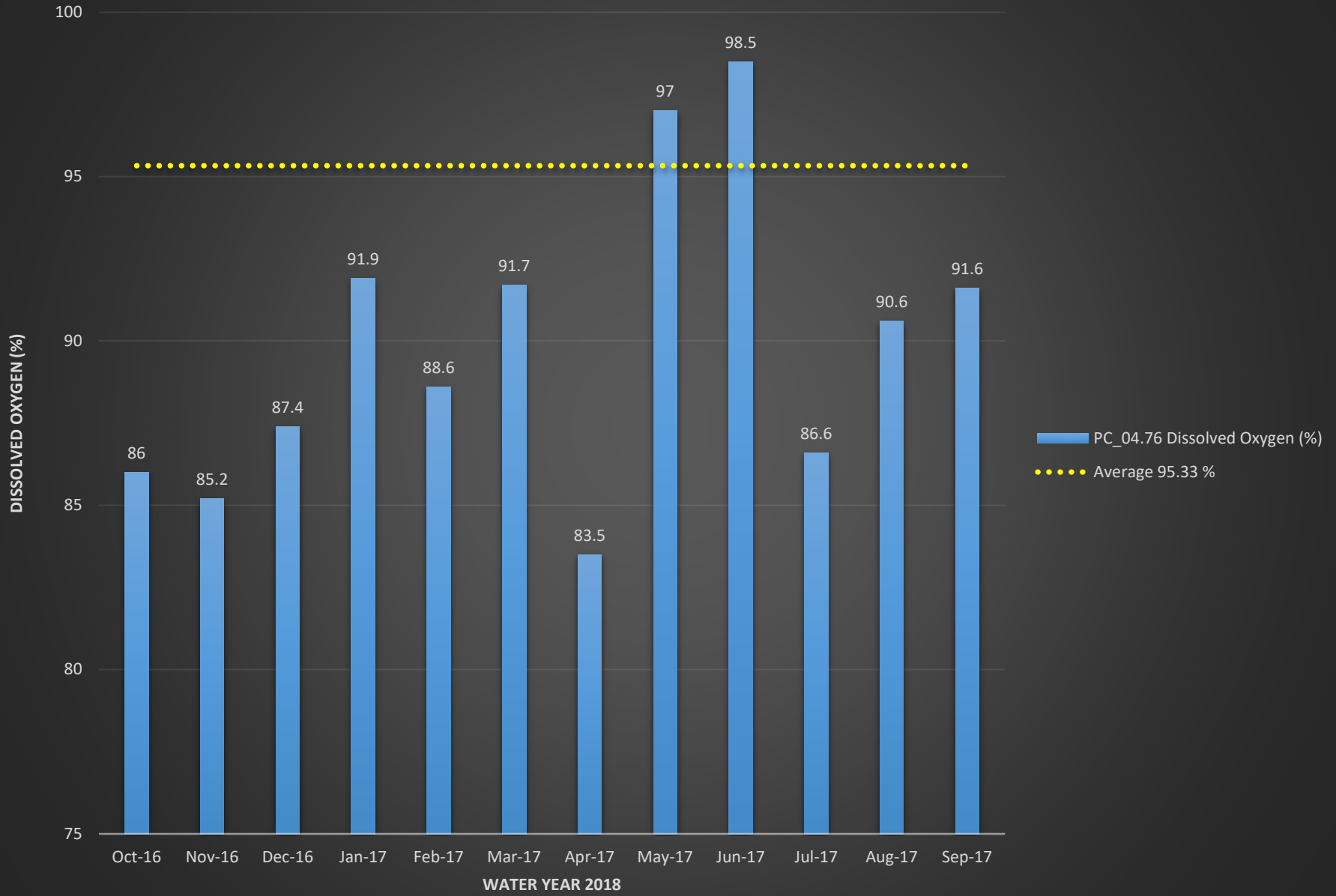
# PC\_04.76 E.coli (MPN)



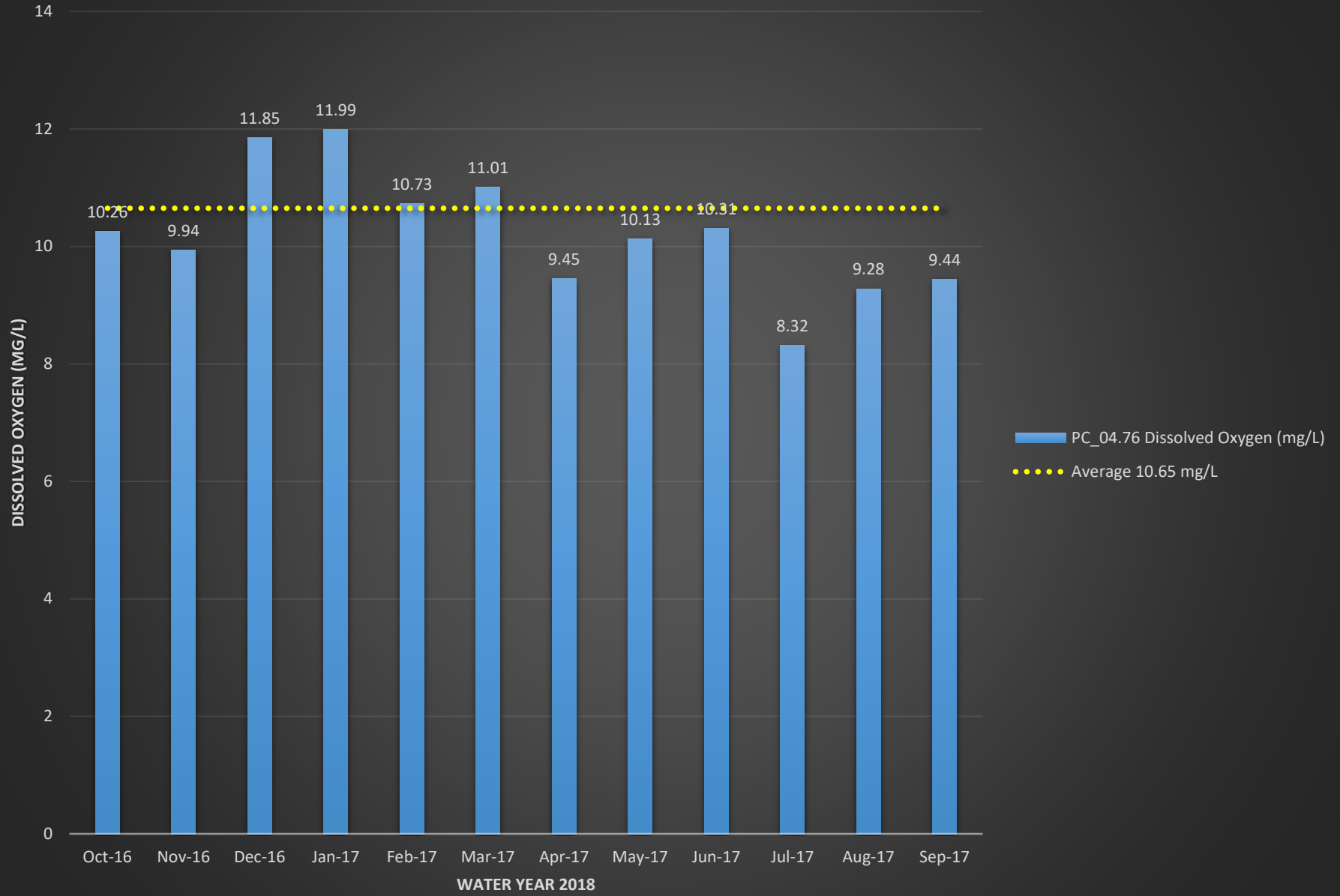
# PC\_04.76 Temperature (°C)



# PC\_04.76 Dissolved Oxygen (%)

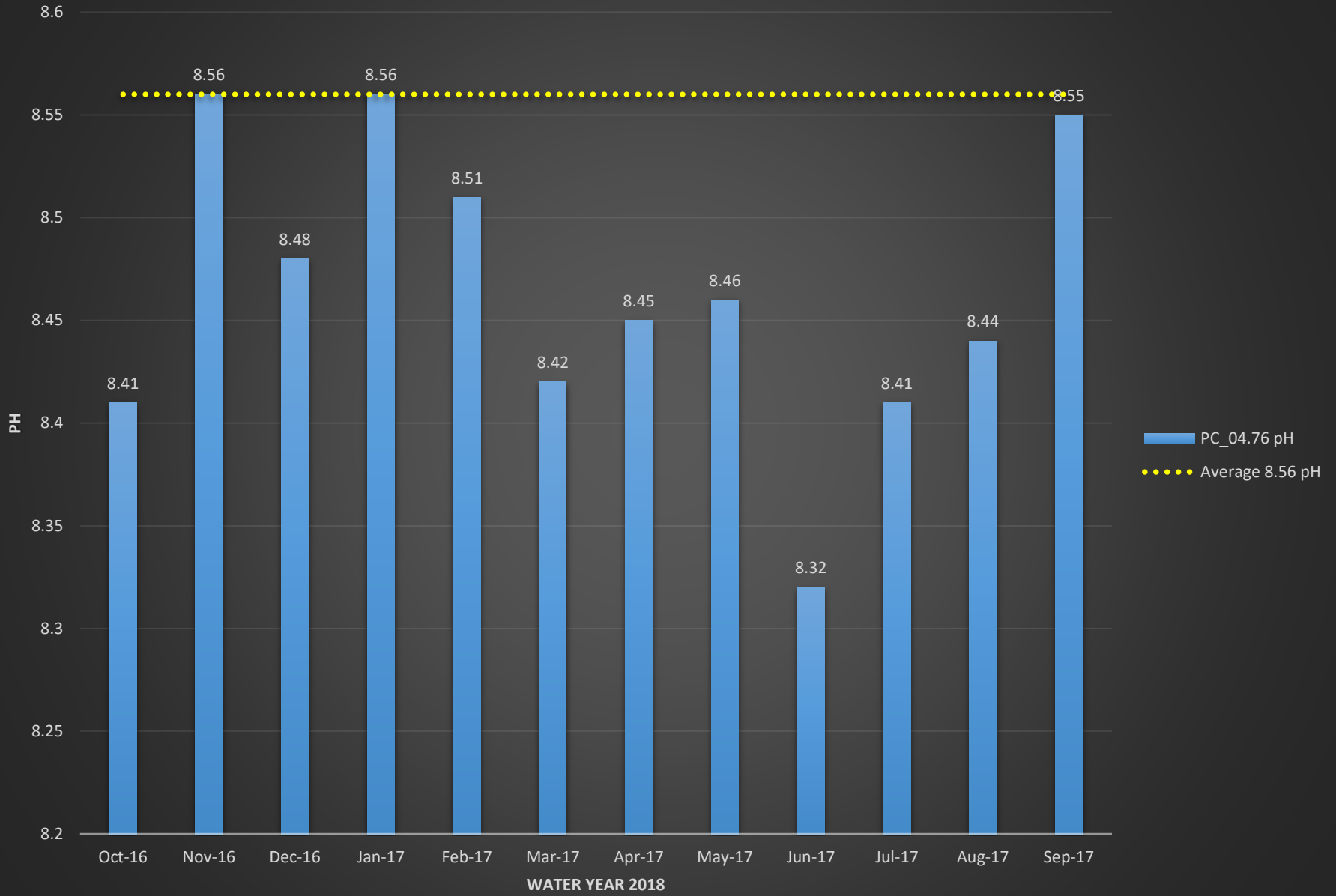


# PC\_04.76 Dissolved Oxygen (mg/L)

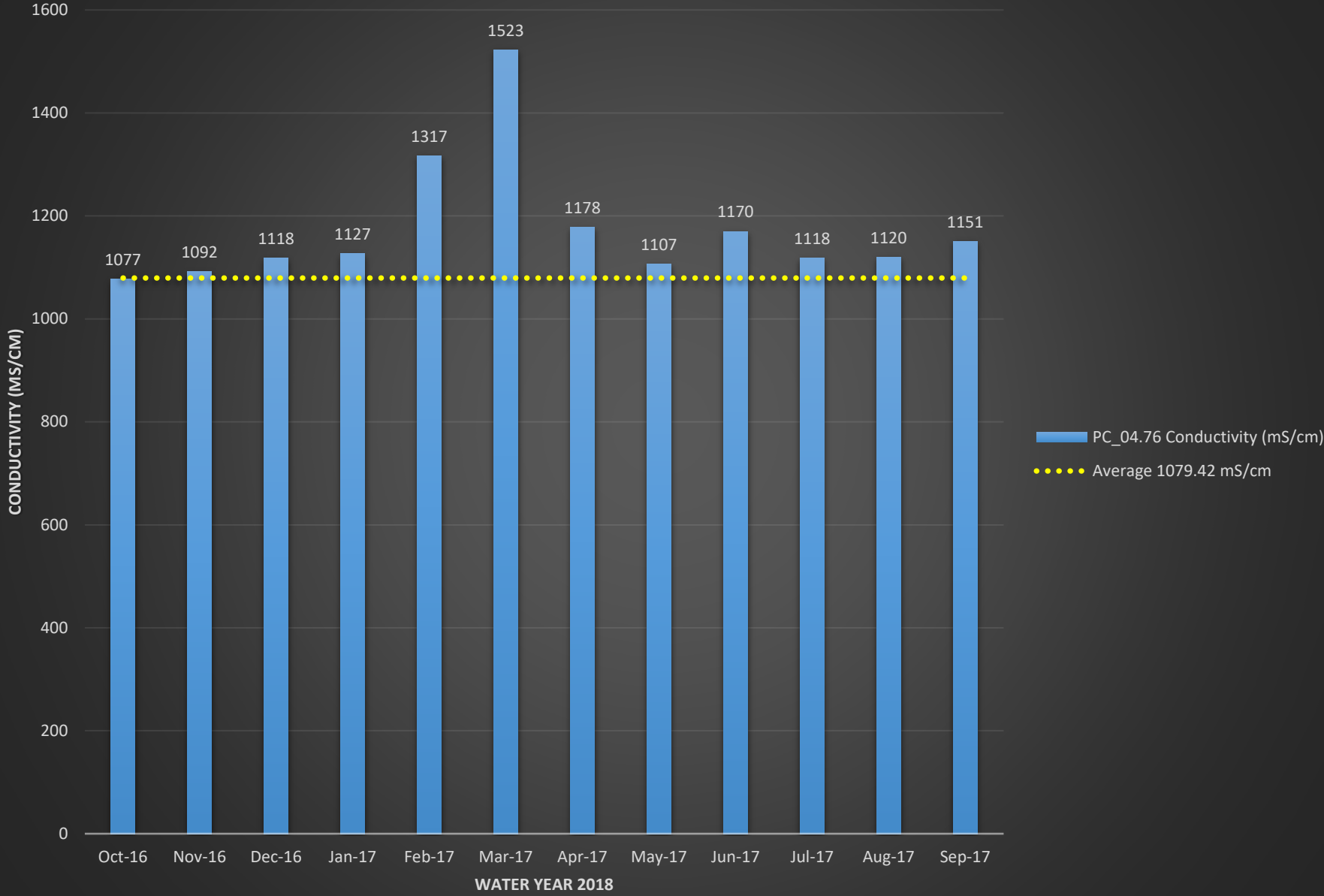




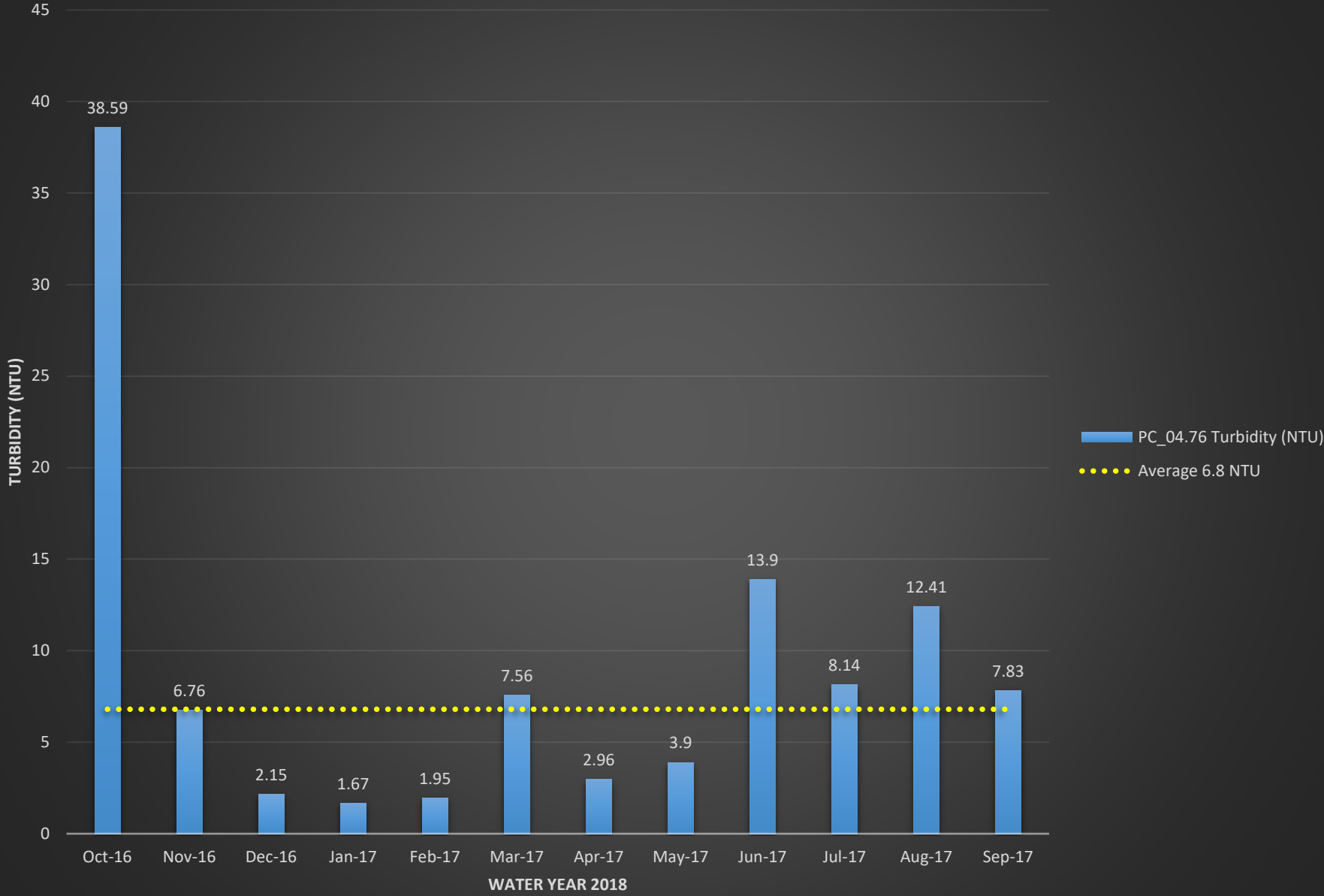
# PC\_04.76 pH



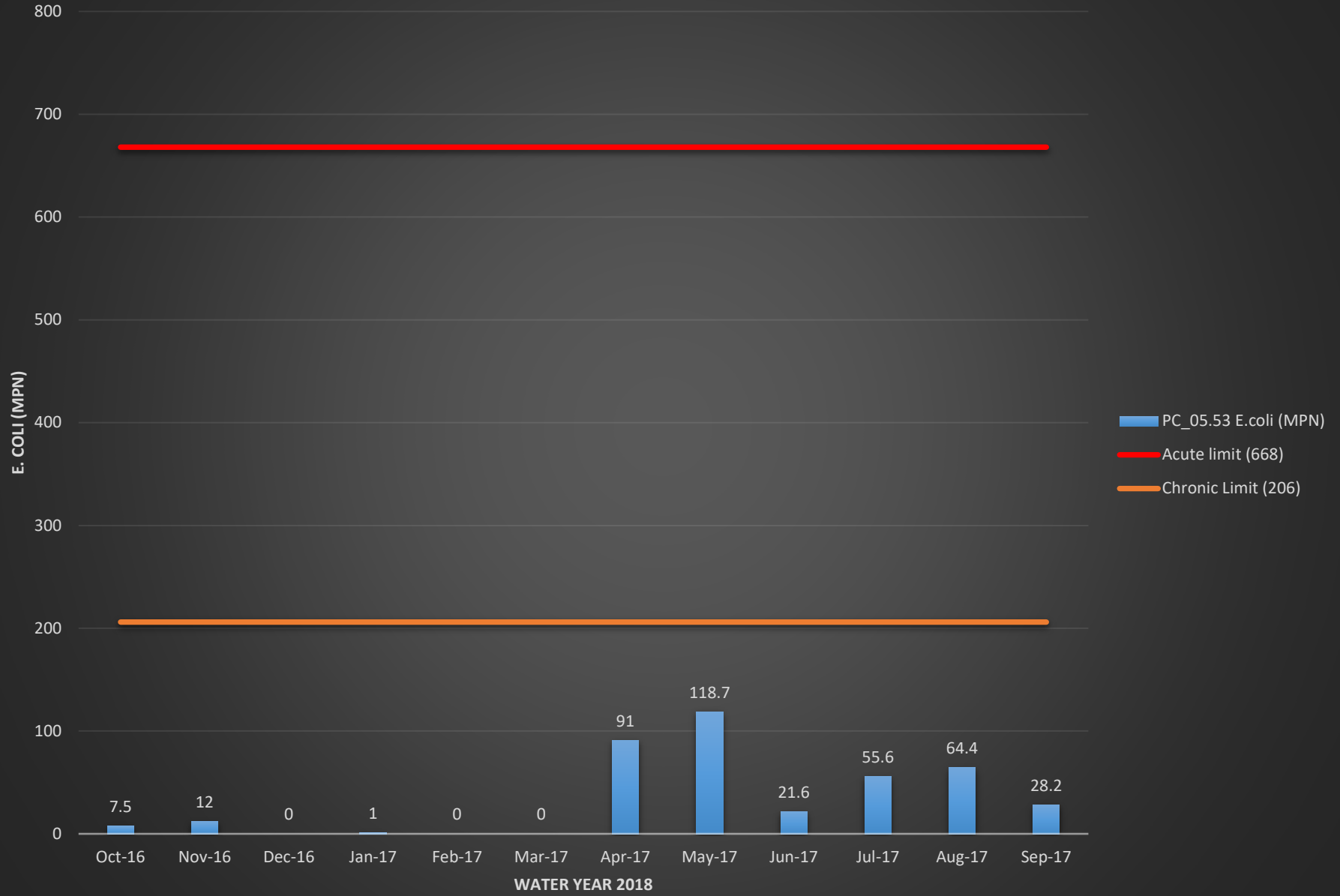
# PC\_04.76 Conductivity (mS/cm)



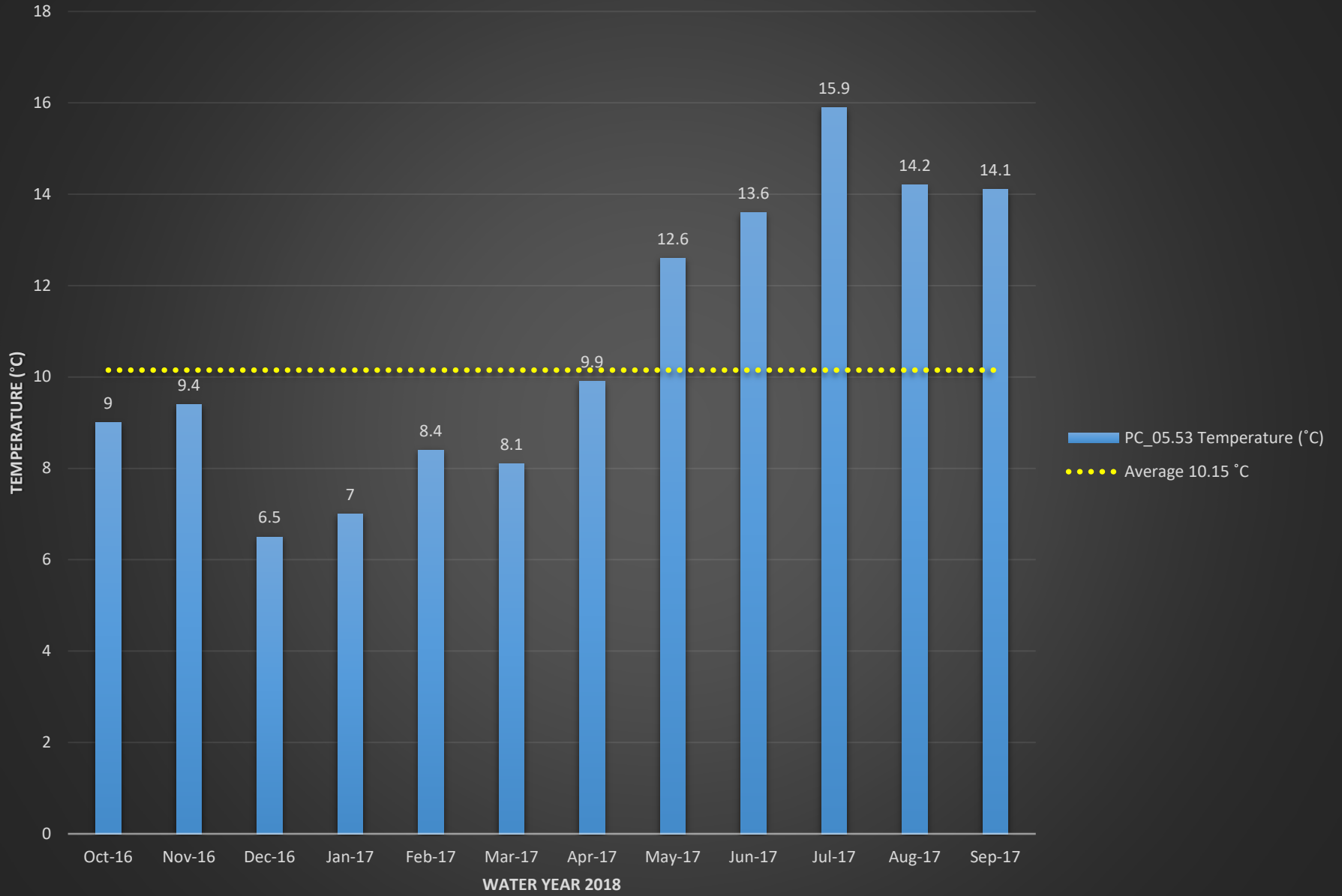
# PC\_04.76 Turbidity (NTU)



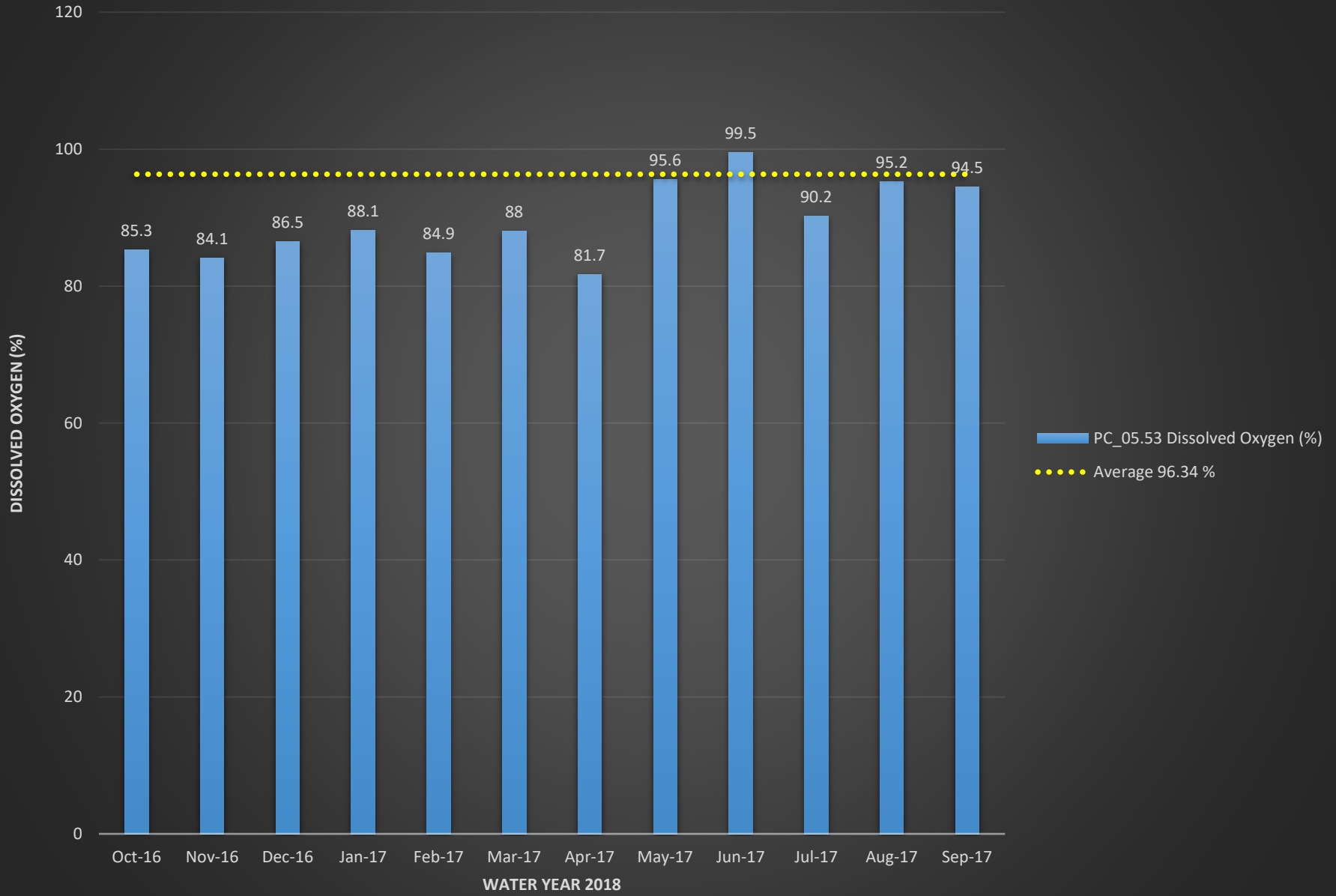
# PC\_05.53 E.coli (MPN)



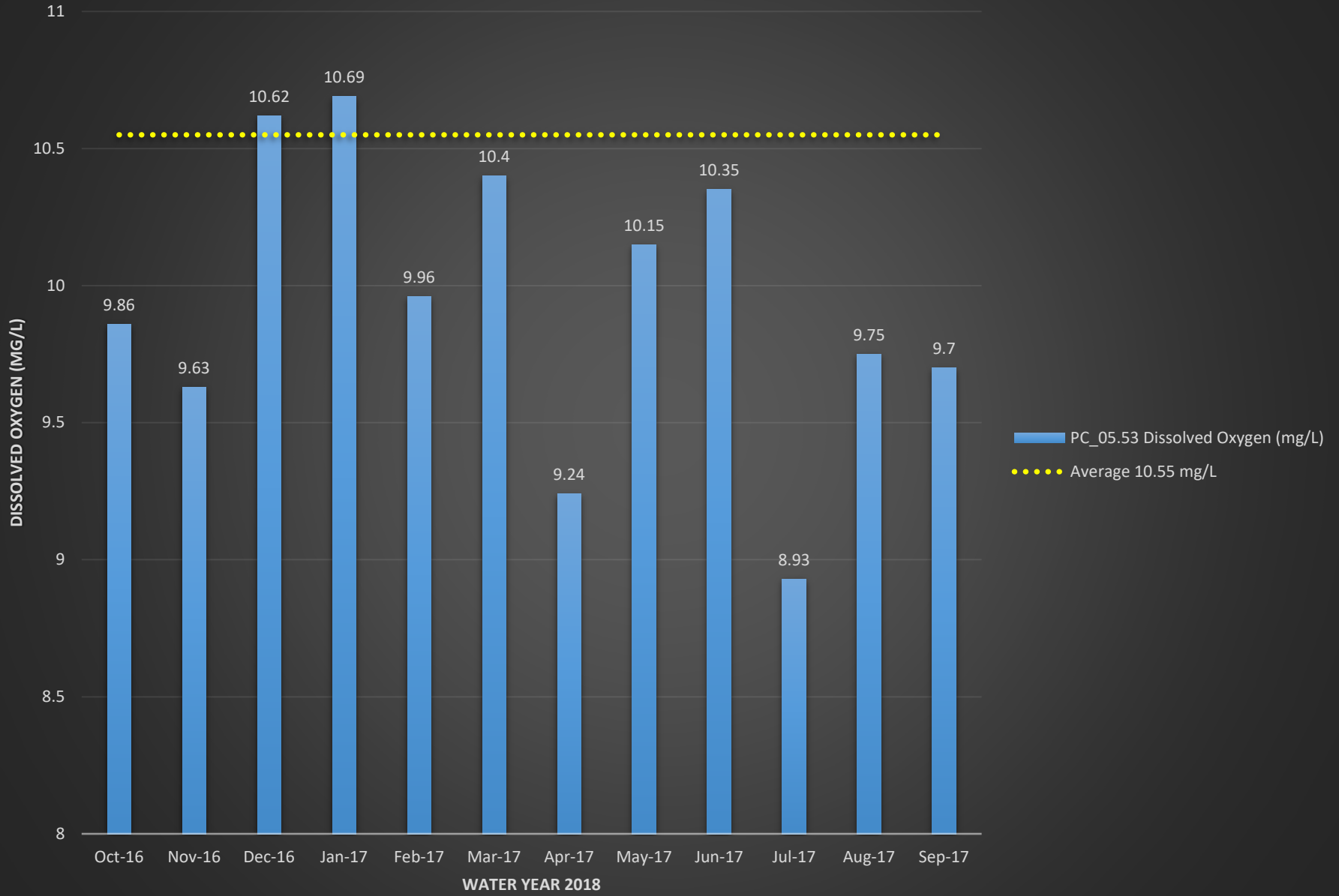
# PC\_05.53 Temperature (°C)



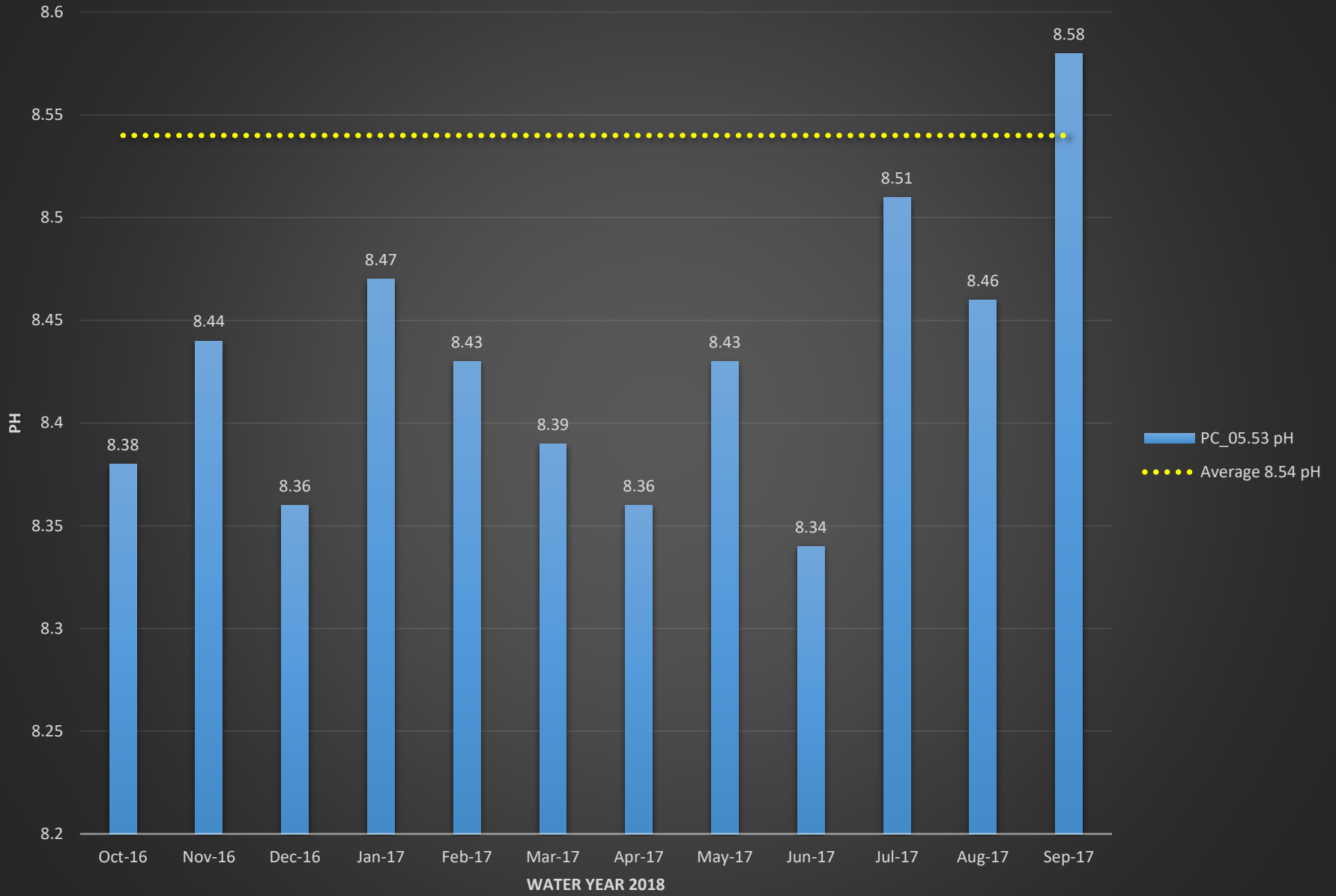
# PC\_05.53 Dissolved Oxygen (%)



# PC\_05.53 Dissolved Oxygen (mg/L)

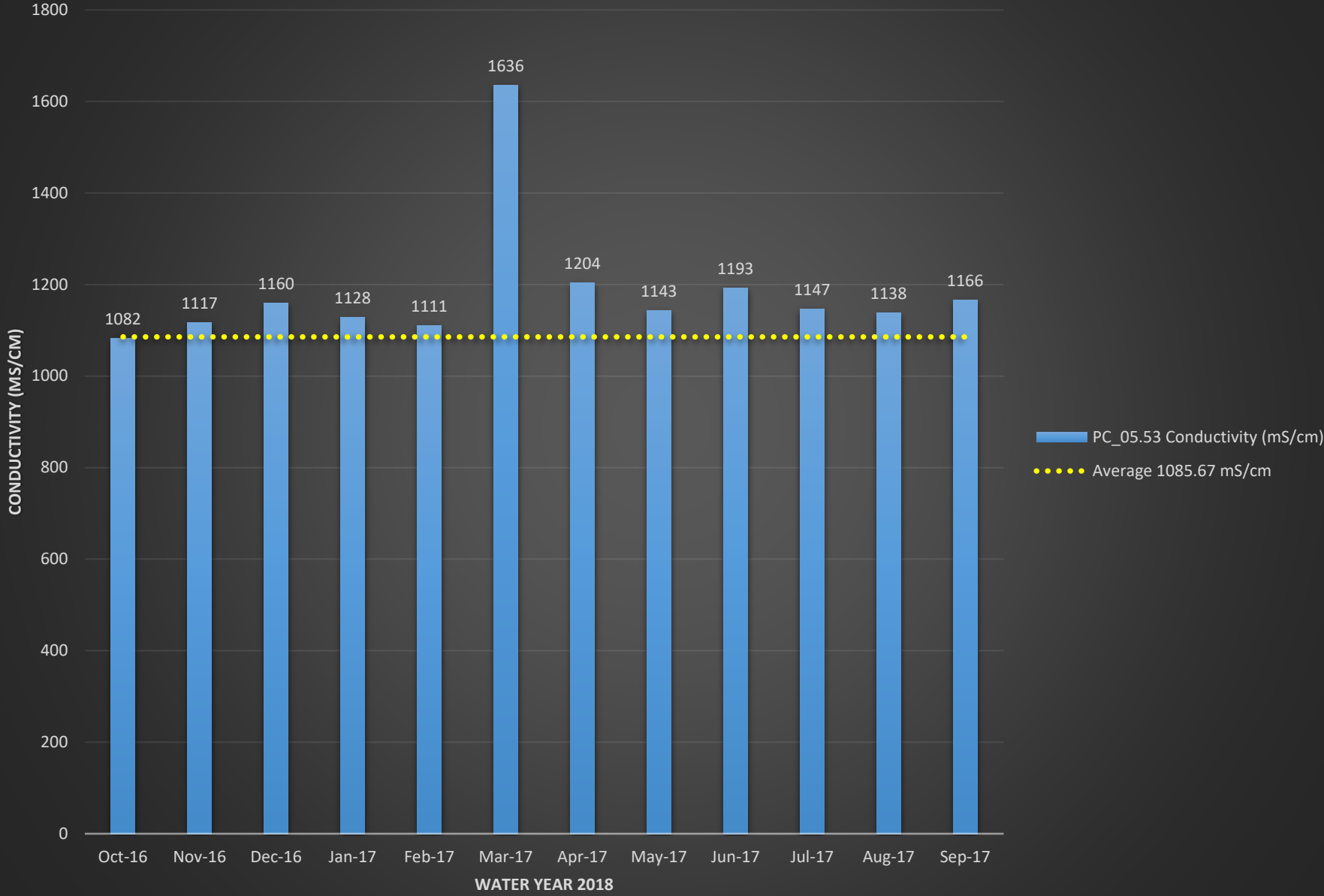


# PC\_05.53 pH

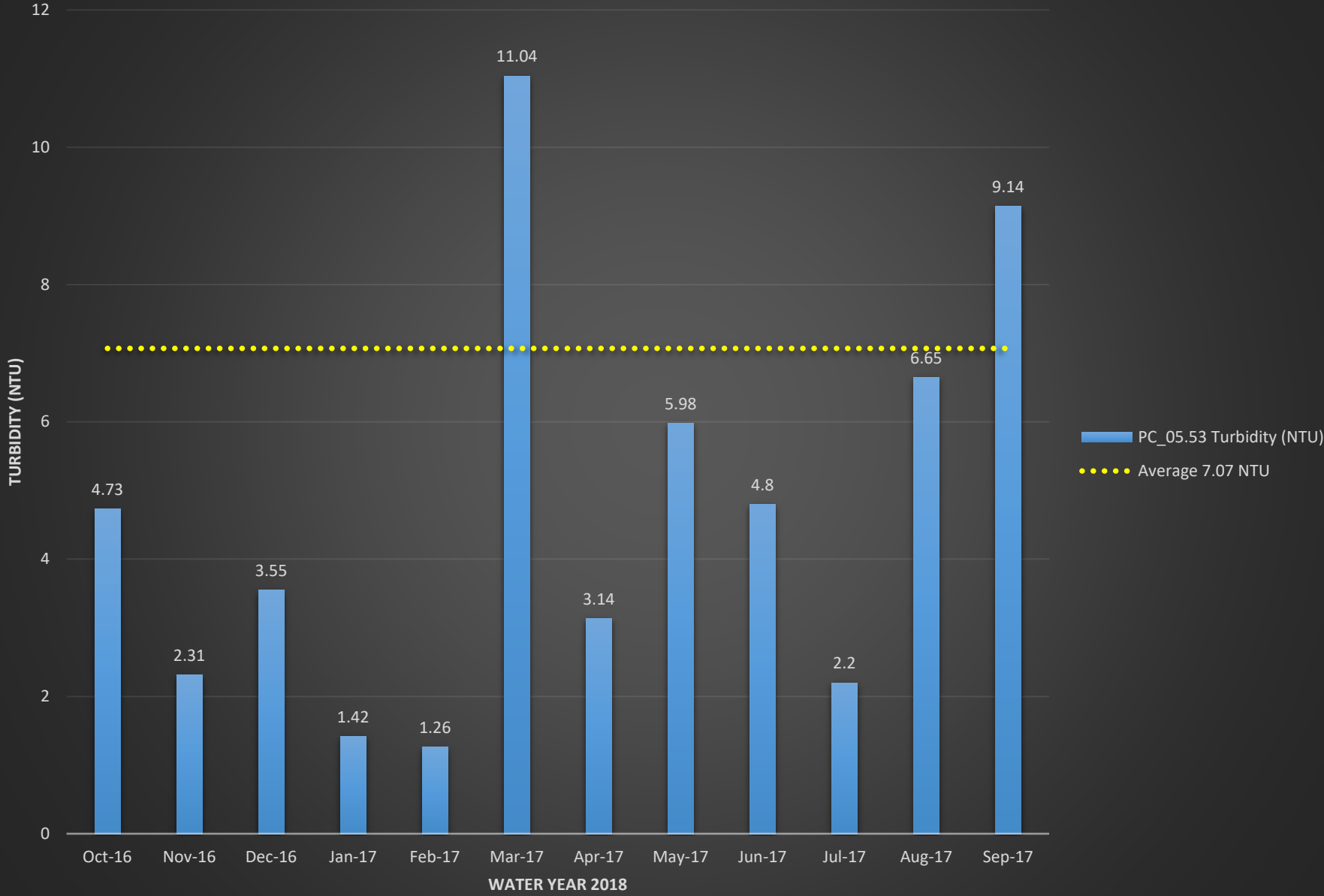




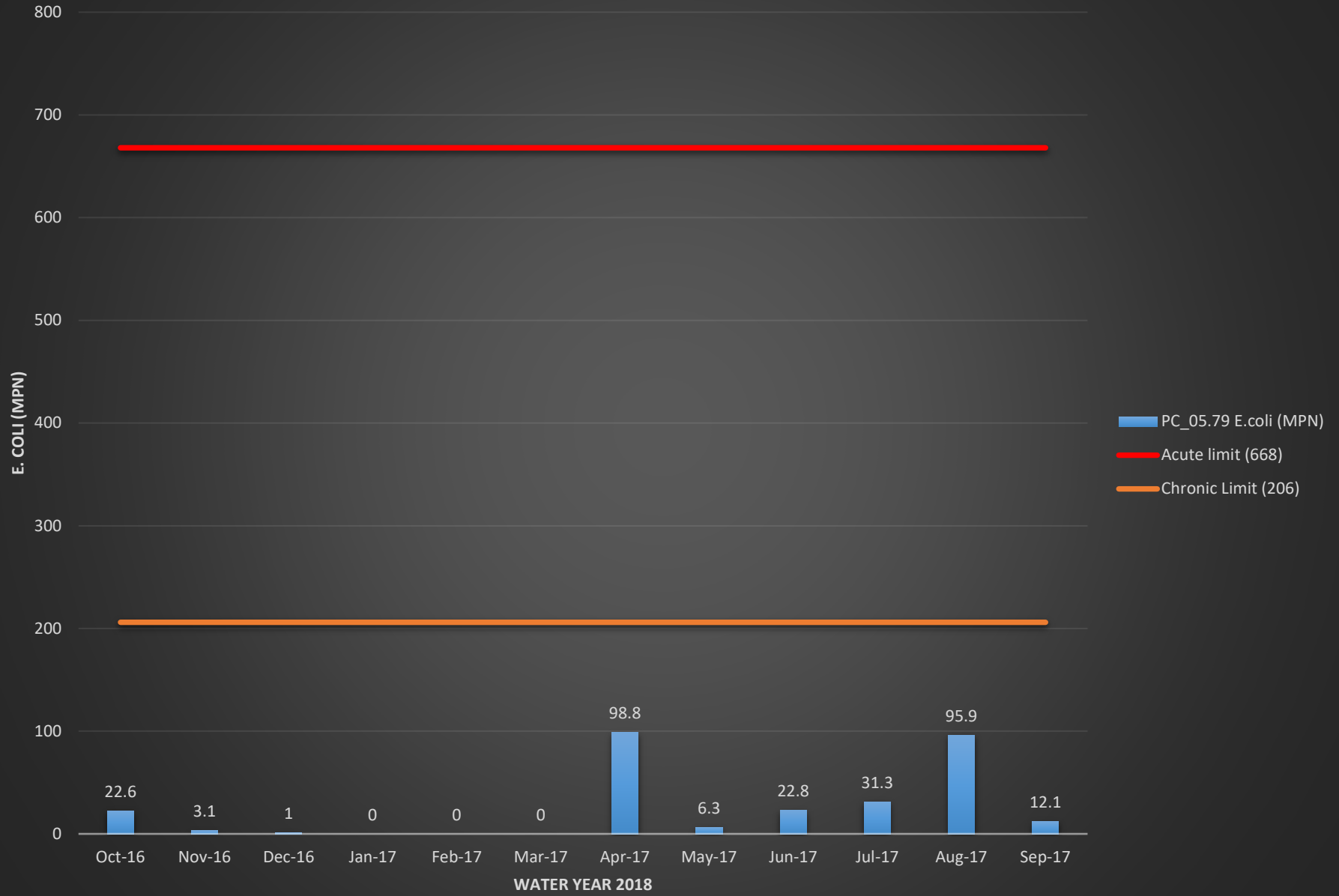
# PC\_05.53 Conductivity (mS/cm)



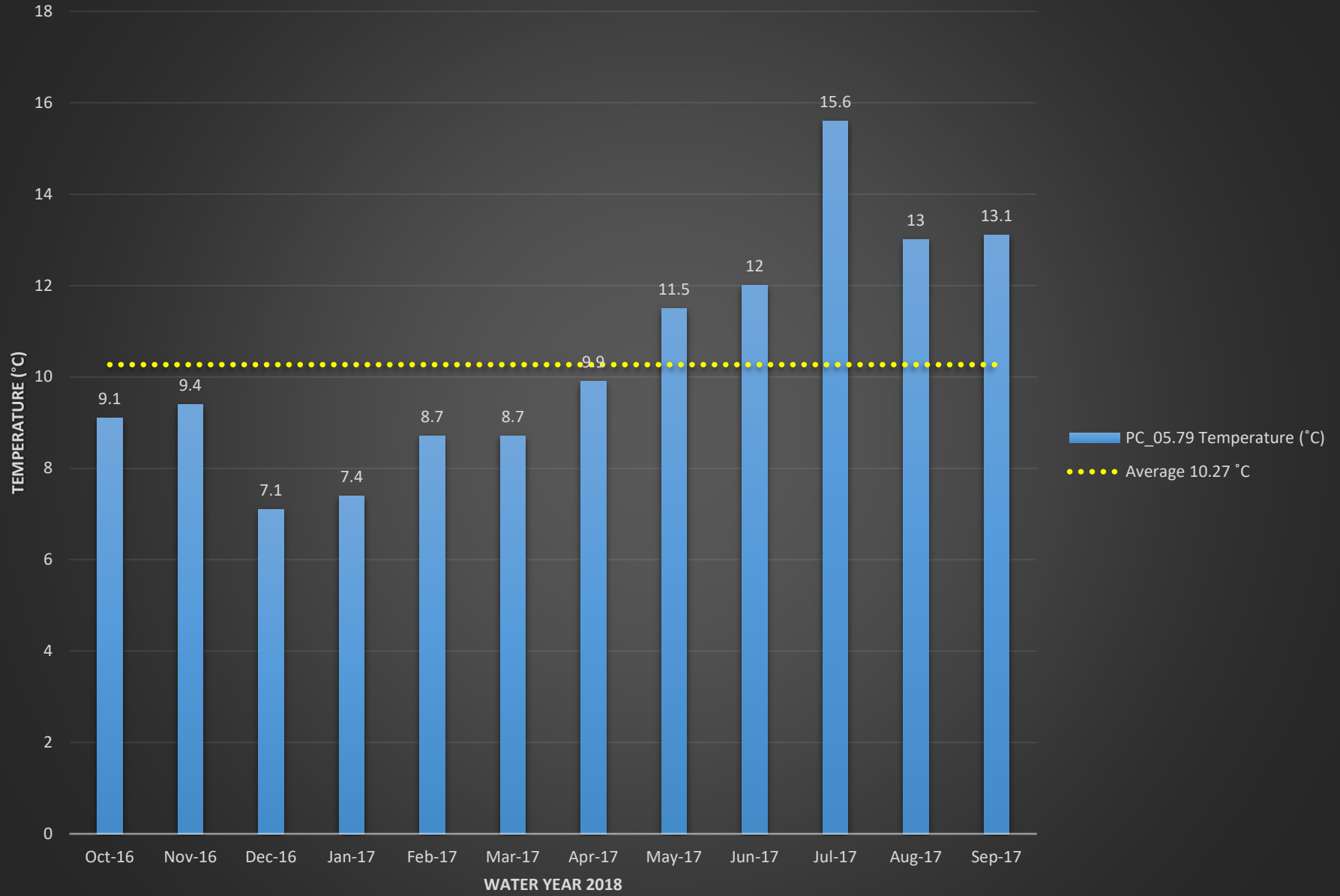
# PC\_05.53 Turbidity (NTU)



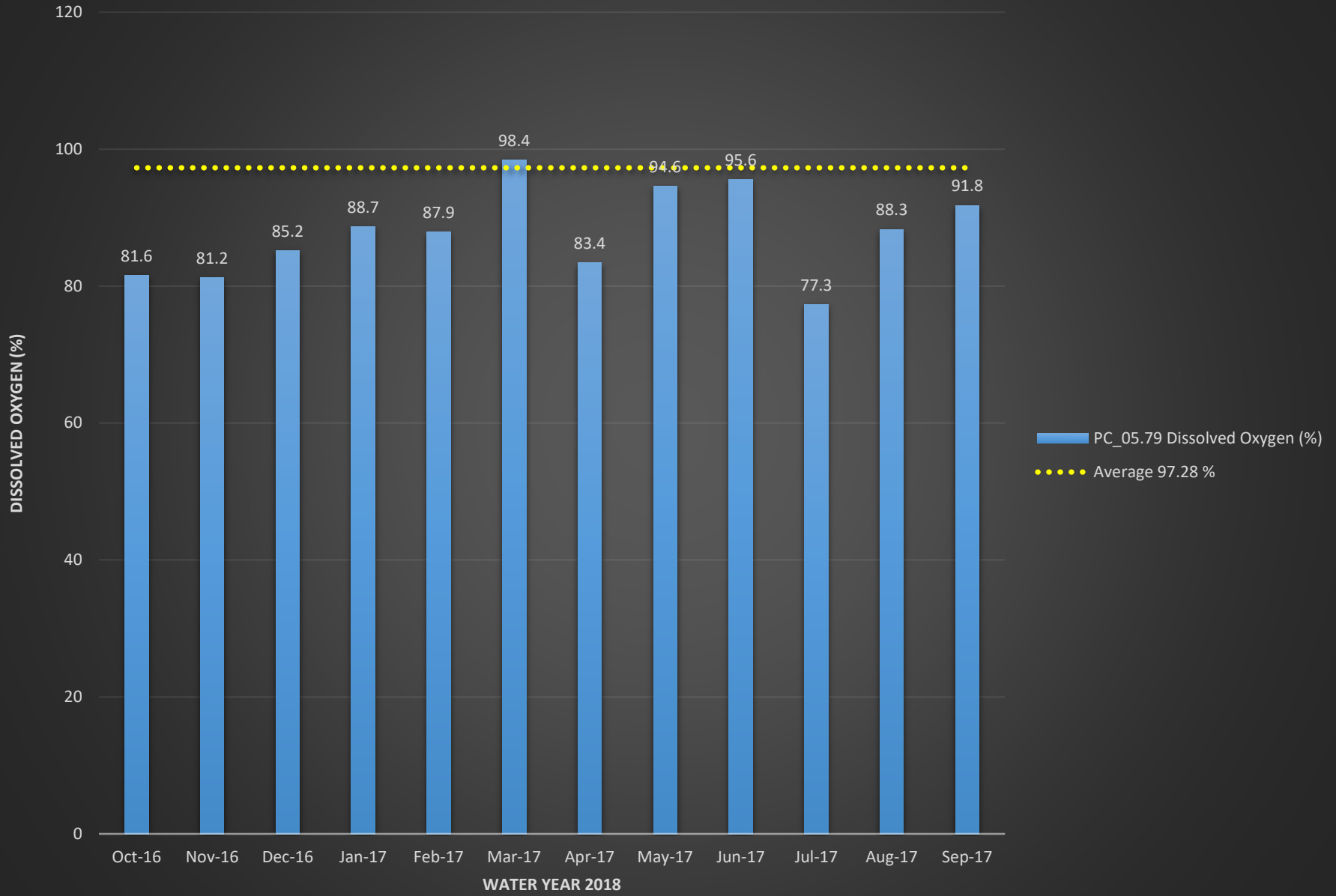
# PC\_05.79 E.coli (MPN)



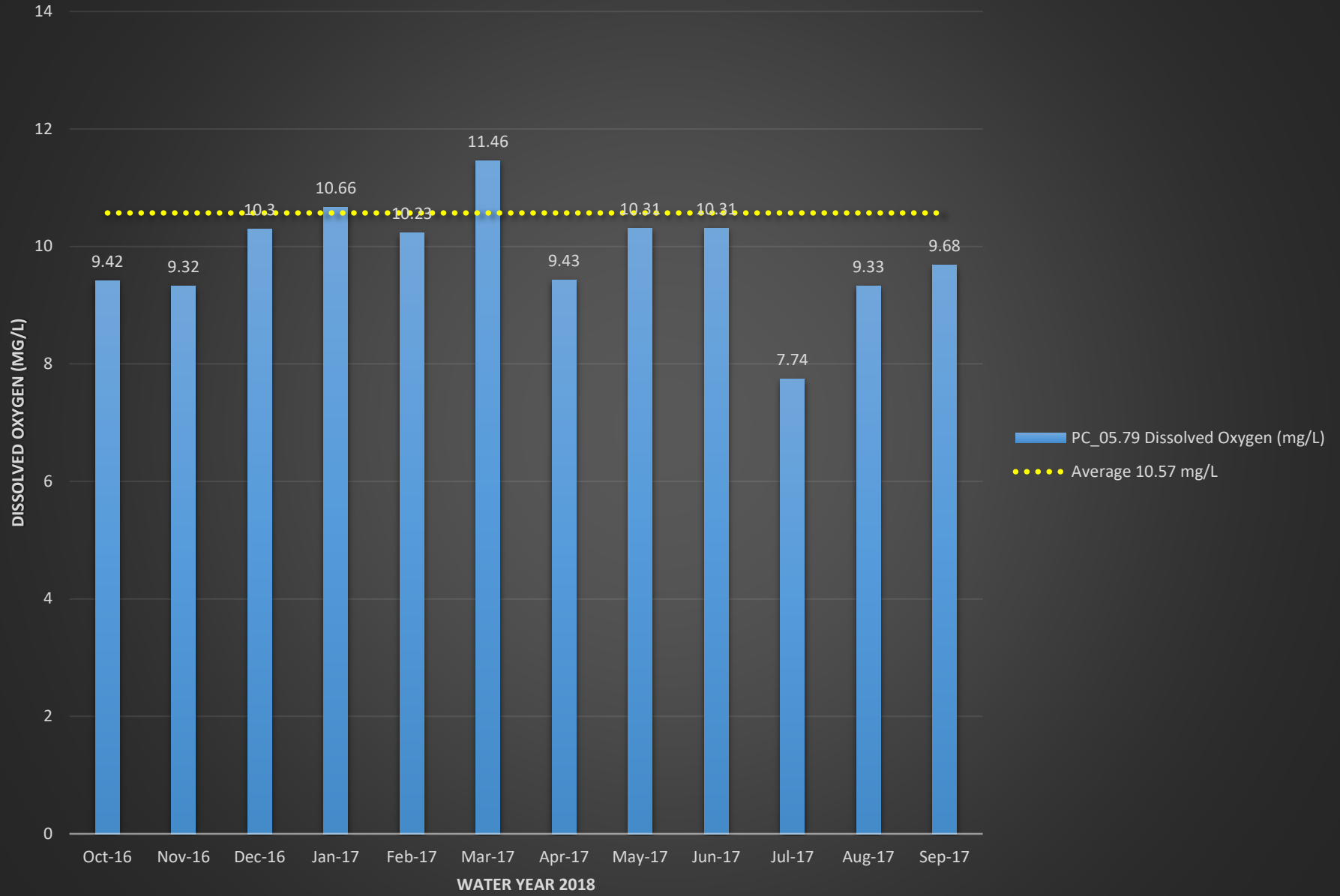
# PC\_05.79 Temperature (°C)



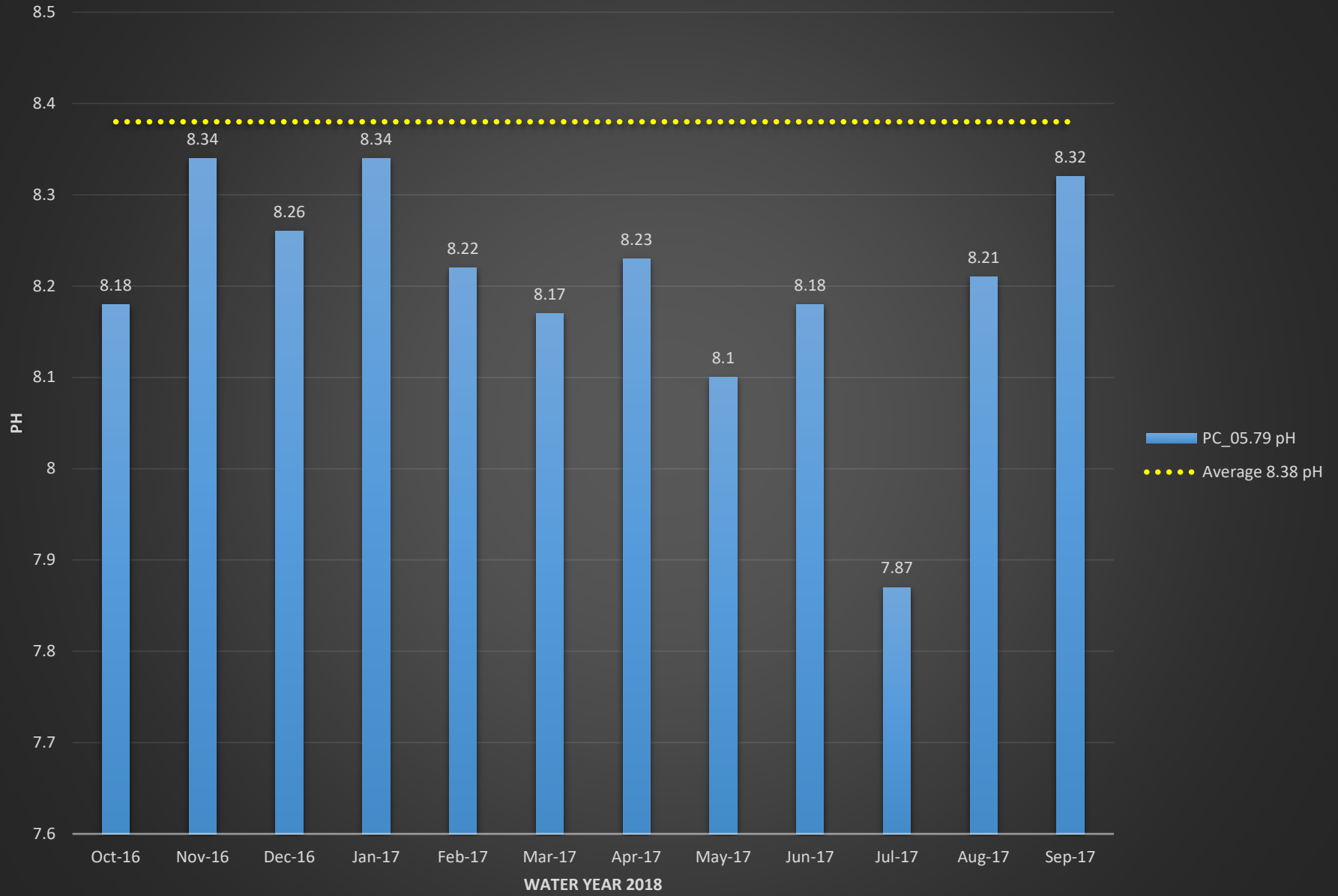
# PC\_05.79 Dissolved Oxygen (%)



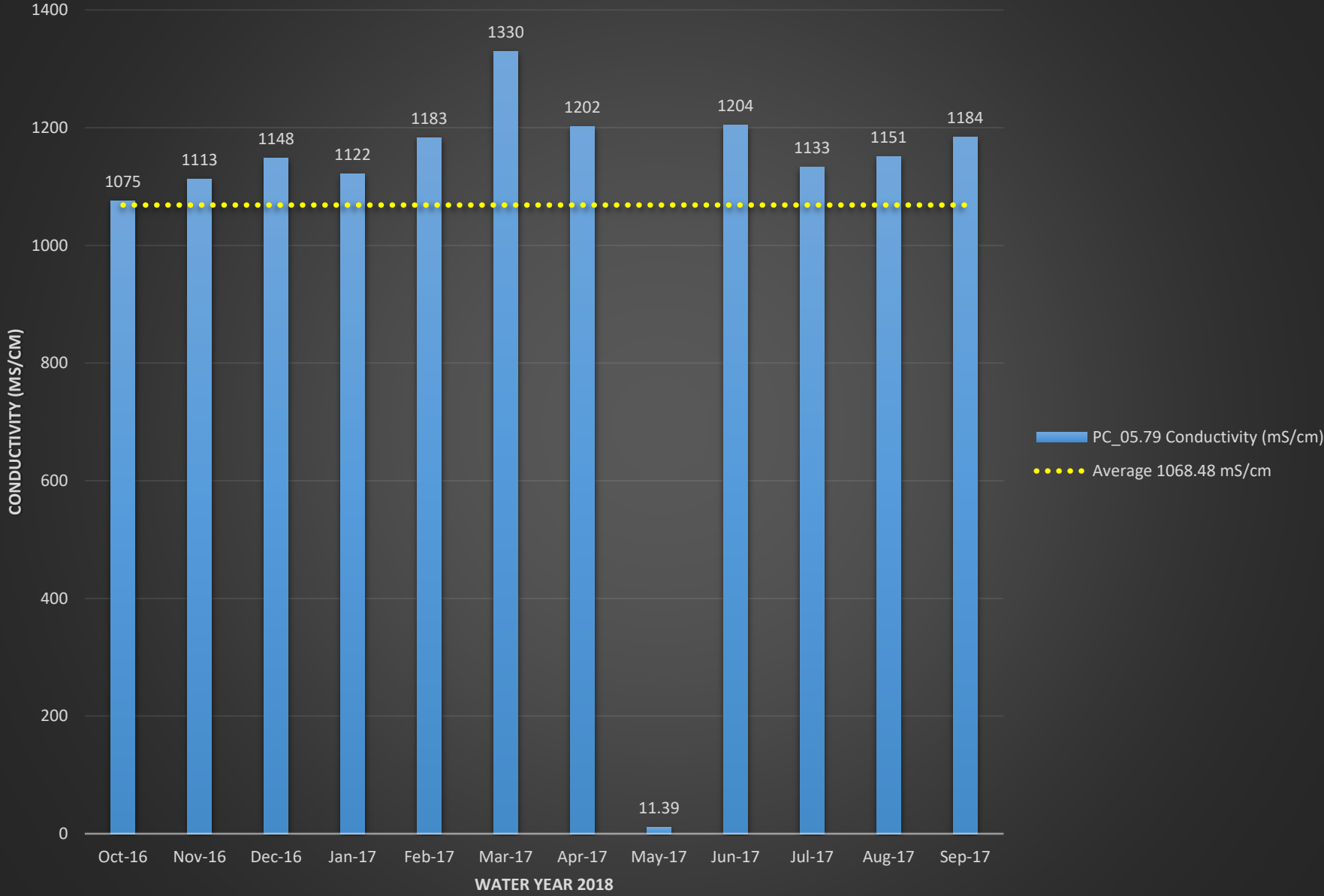
# PC\_05.79 Dissolved Oxygen (mg/L)



# PC\_05.79 pH

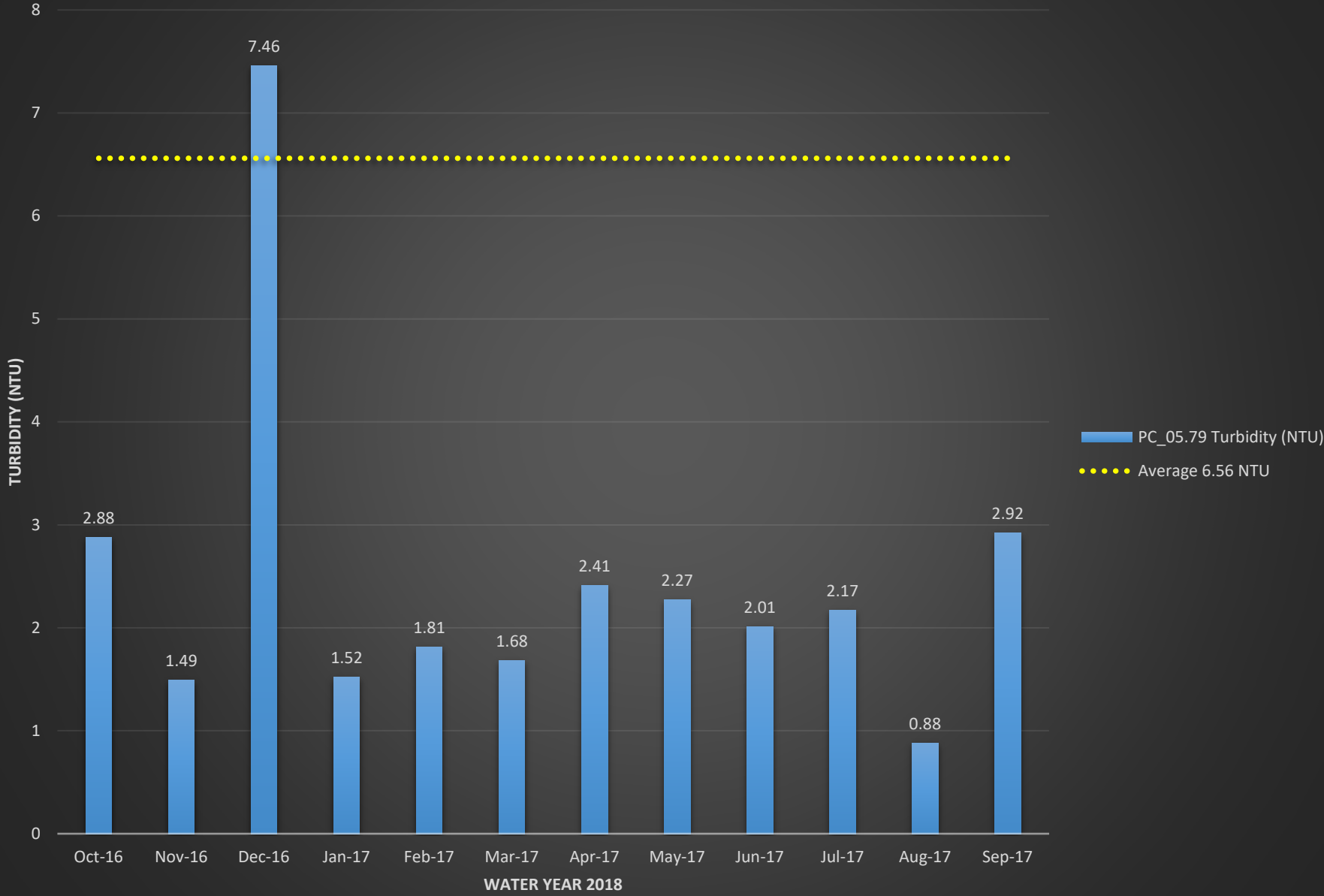


# PC\_05.79 Conductivity (mS/cm)

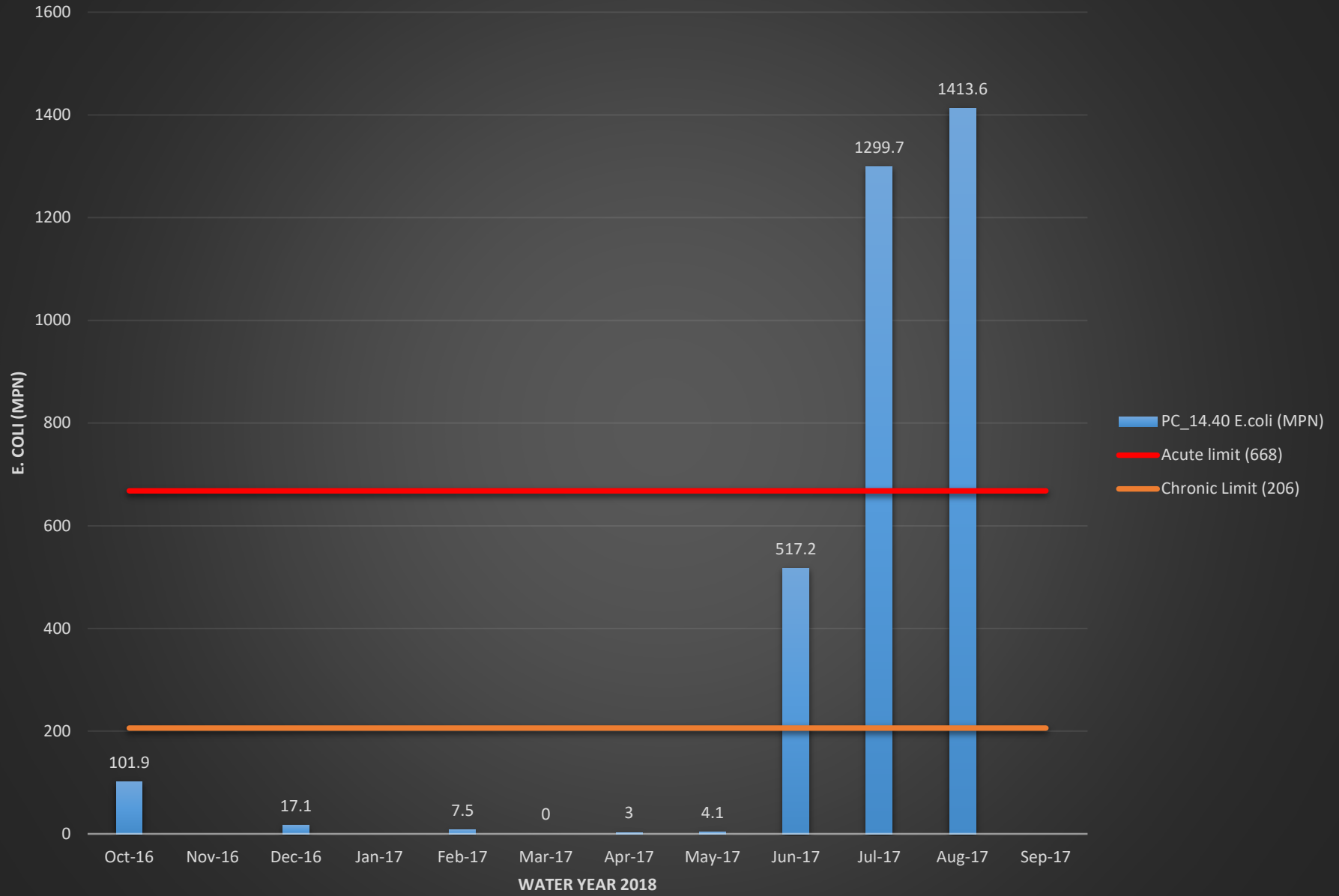




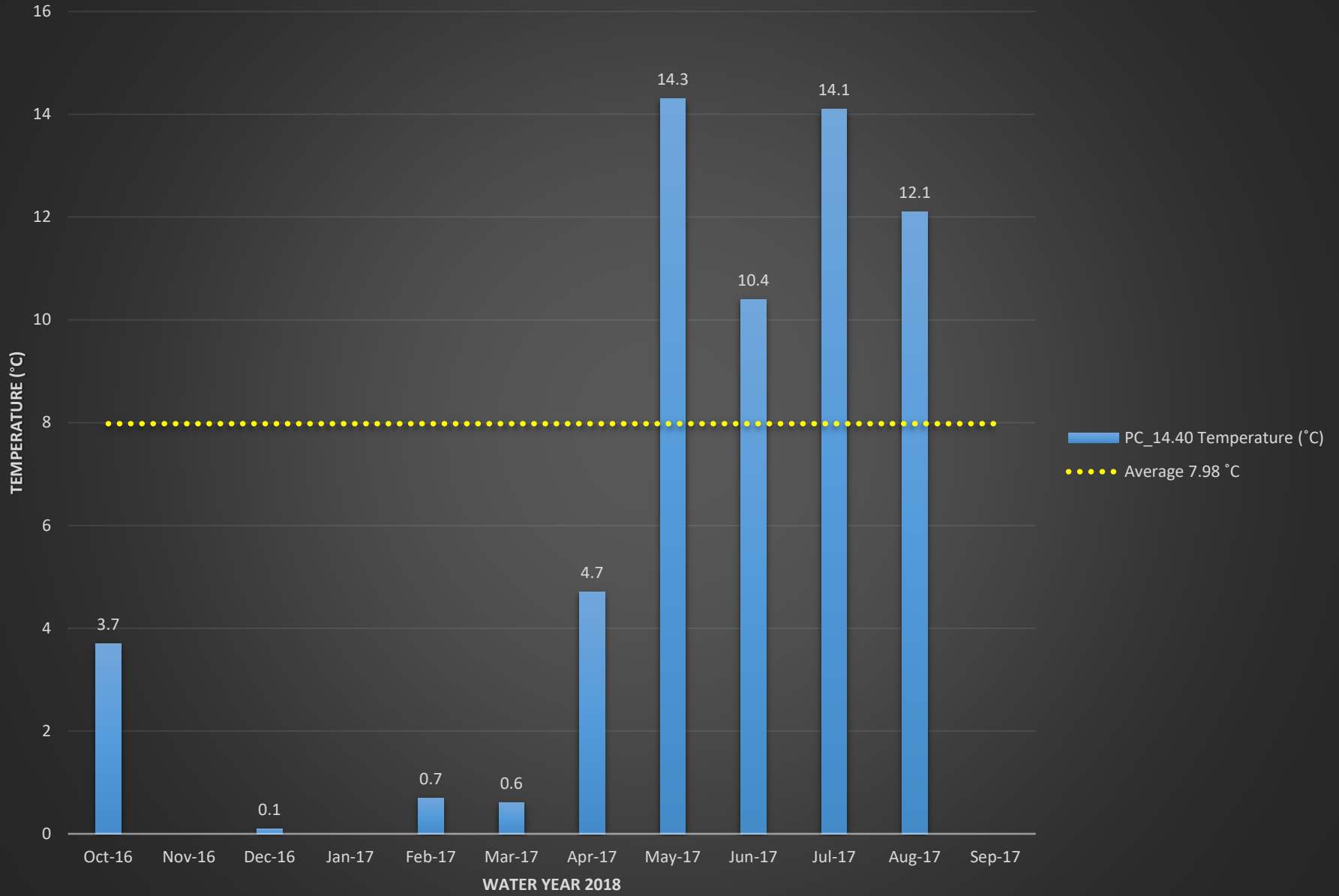
# PC\_05.79 Turbidity (NTU)



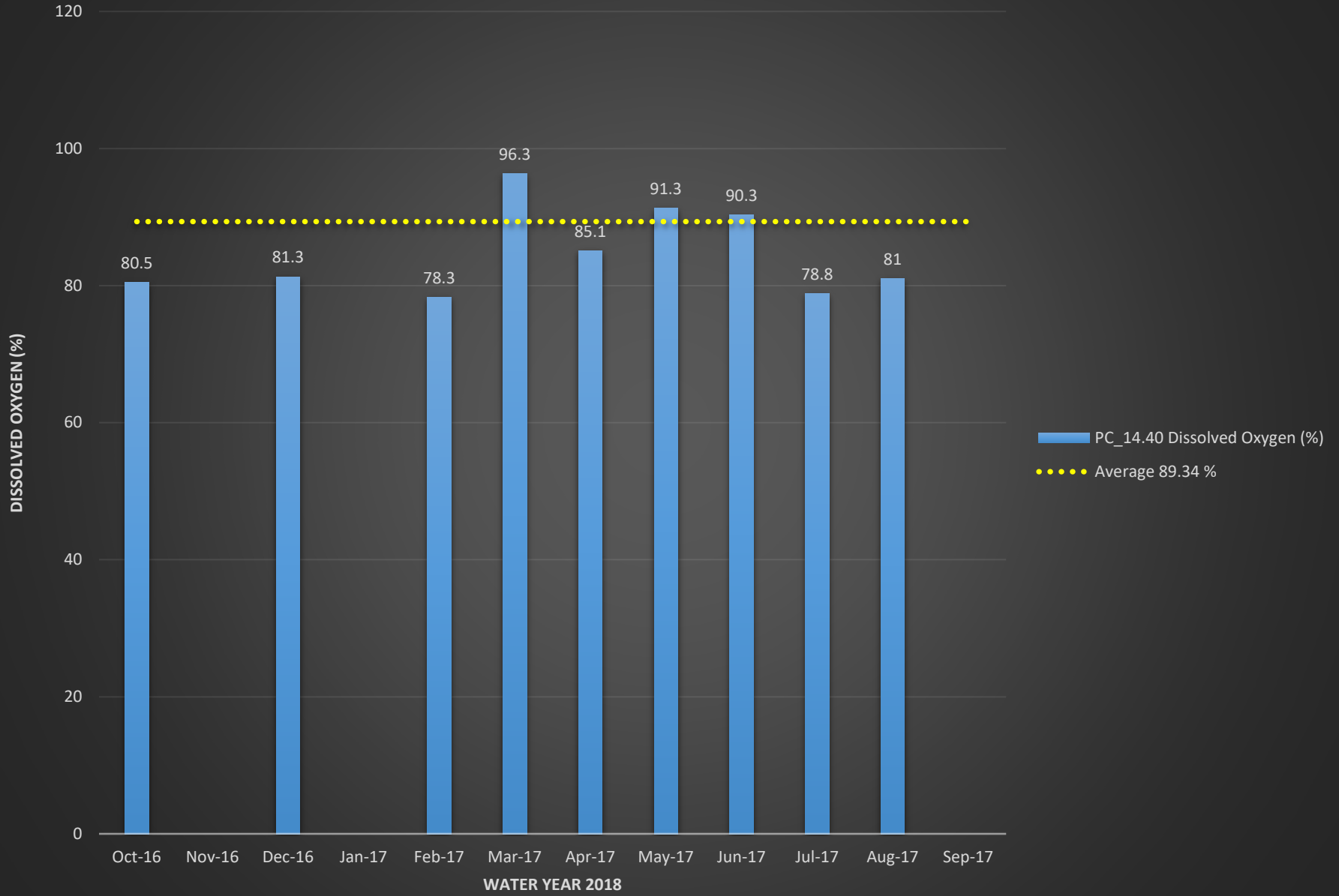
# PC\_14.40 E.coli (MPN)



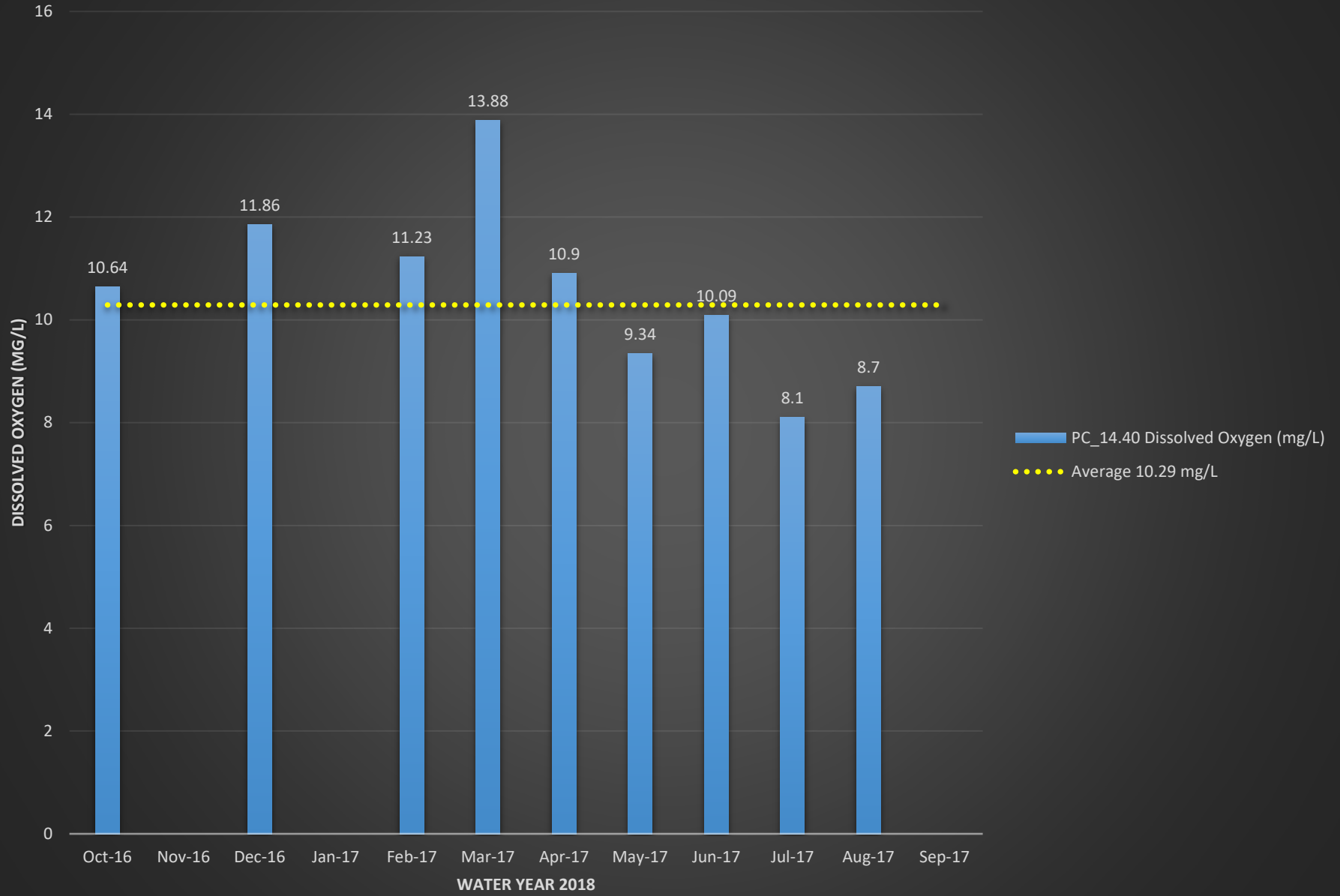
# PC\_14.40 Temperature (°C)



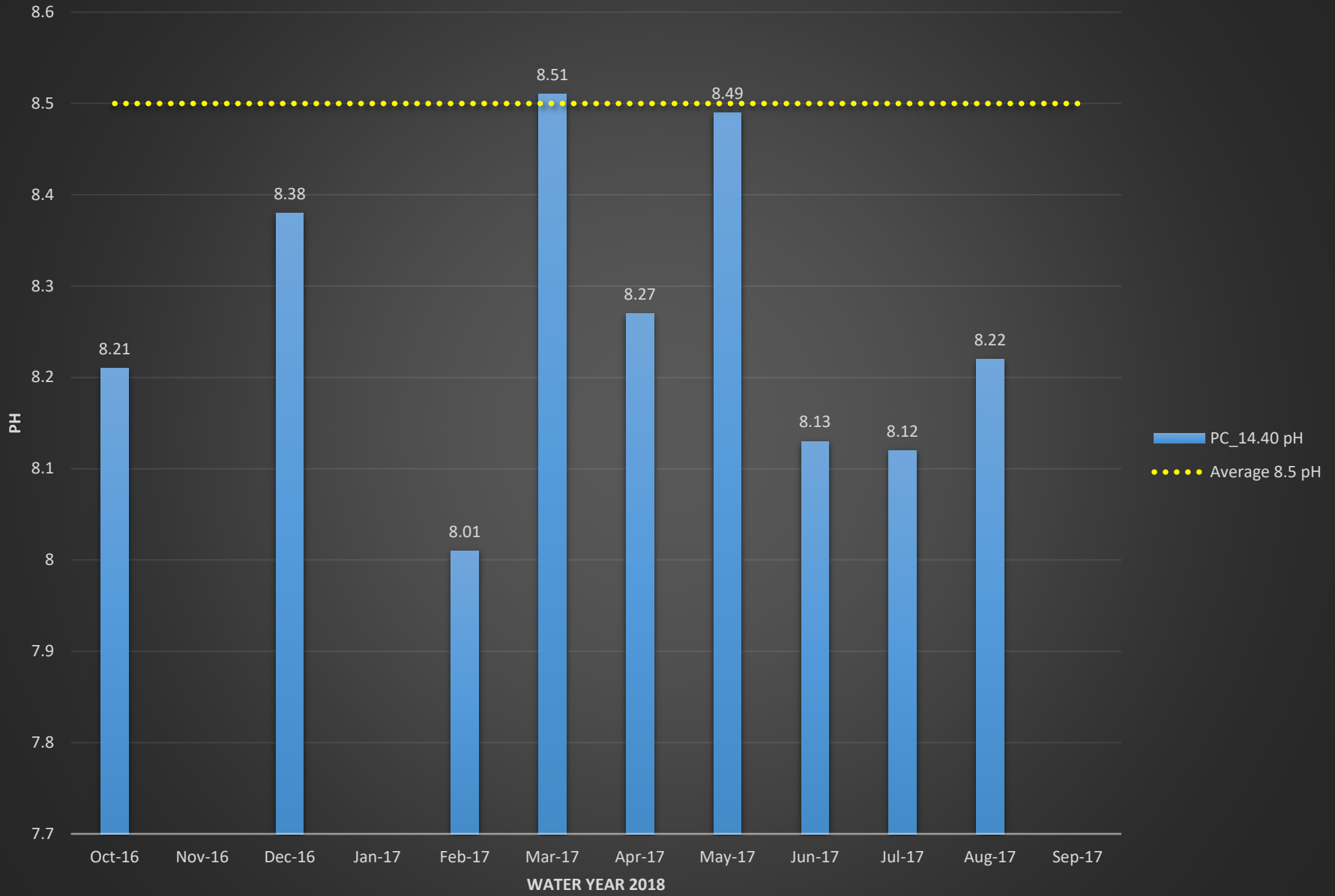
# PC\_14.40 Dissolved Oxygen (%)



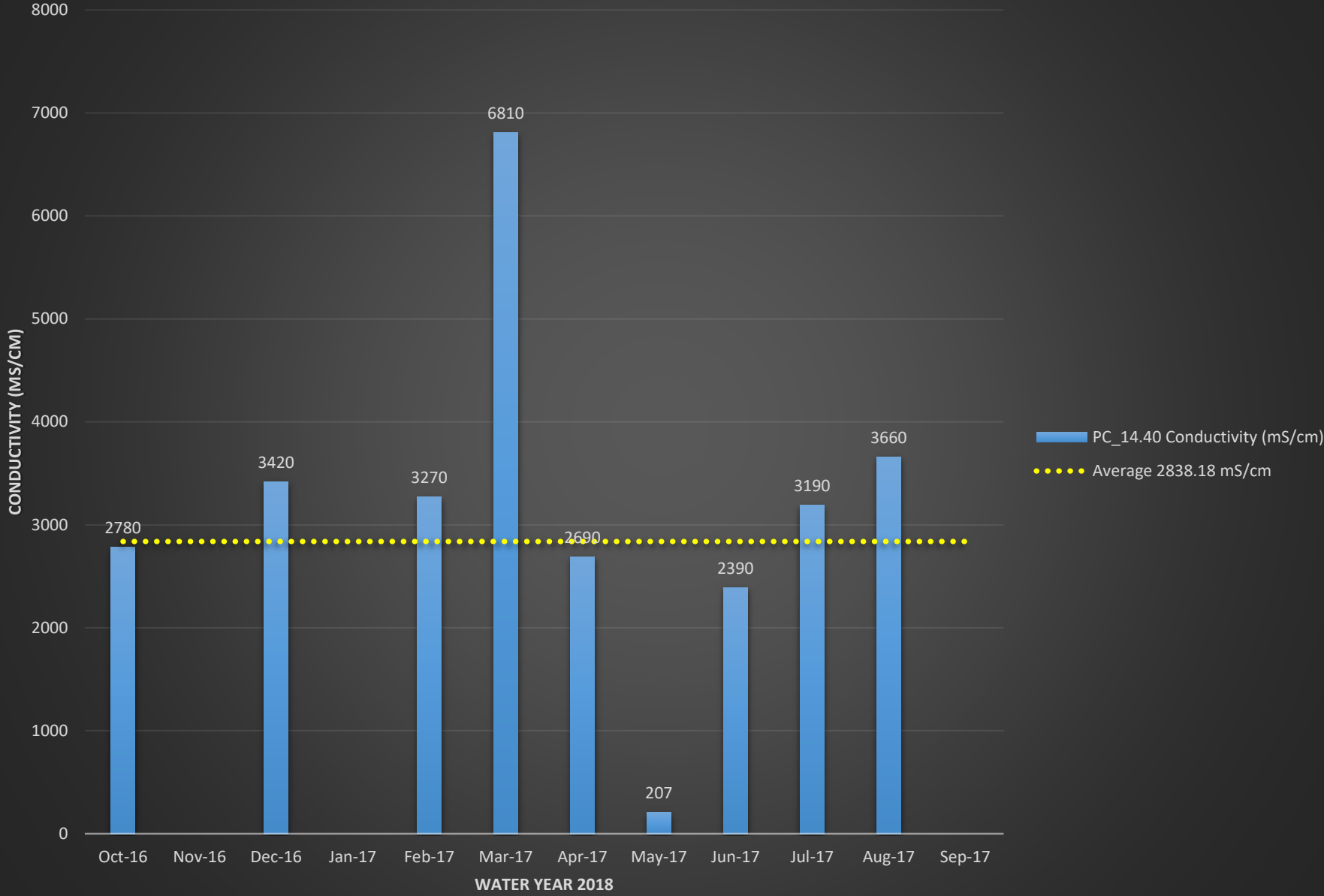
# PC\_14.40 Dissolved Oxygen (mg/L)



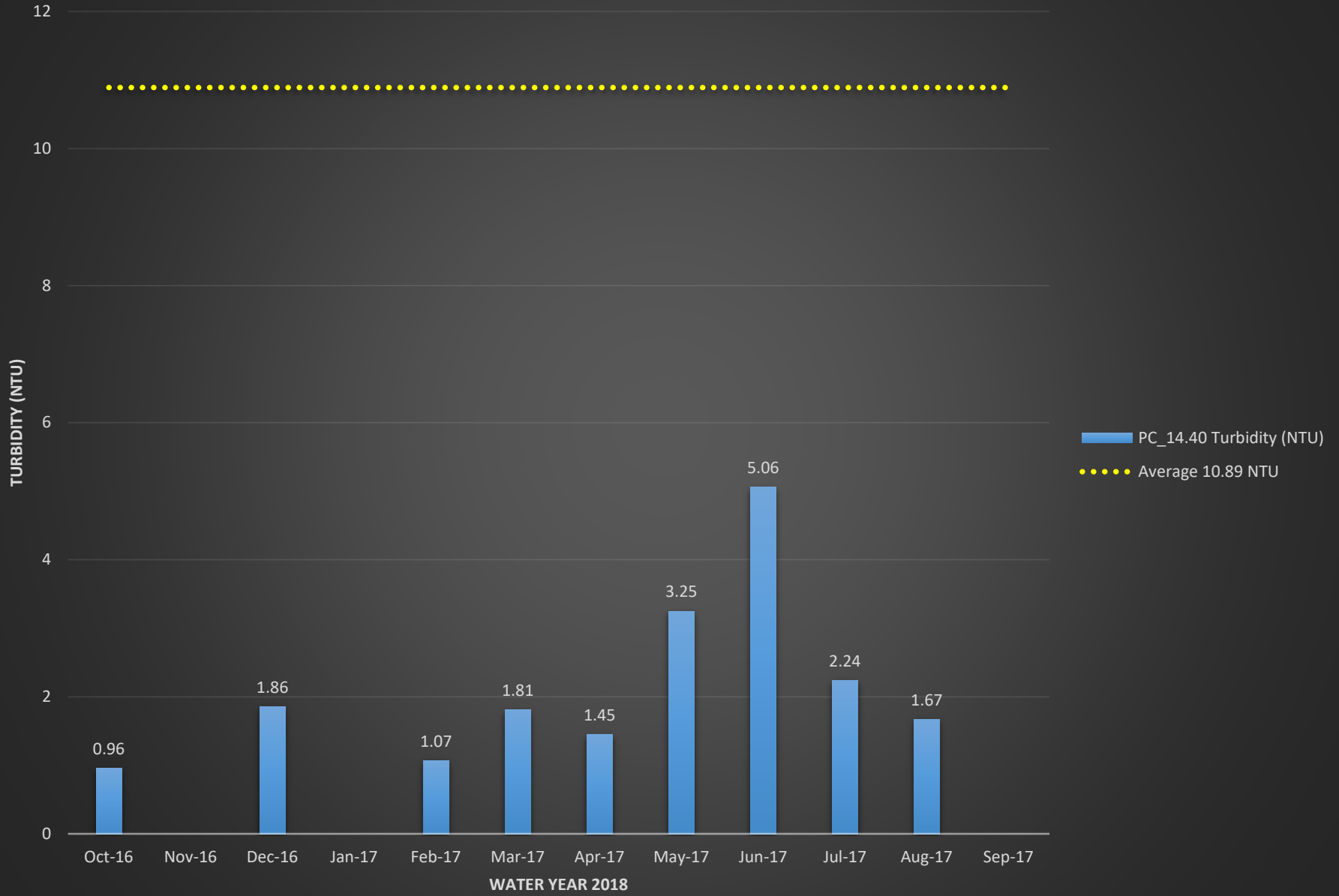
# PC\_14.40 pH



# PC\_14.40 Conductivity (mS/cm)

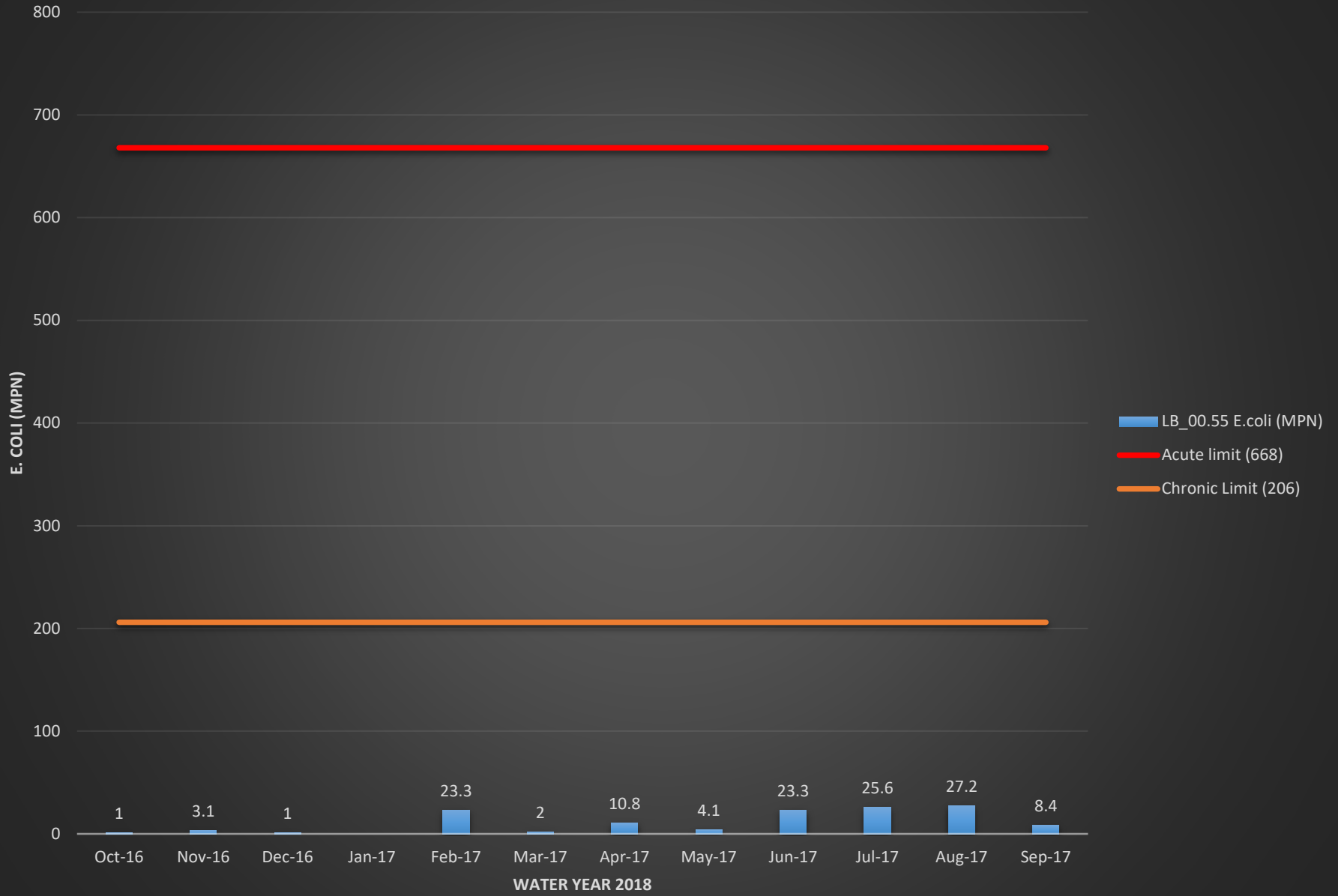


# PC\_14.40 Turbidity (NTU)

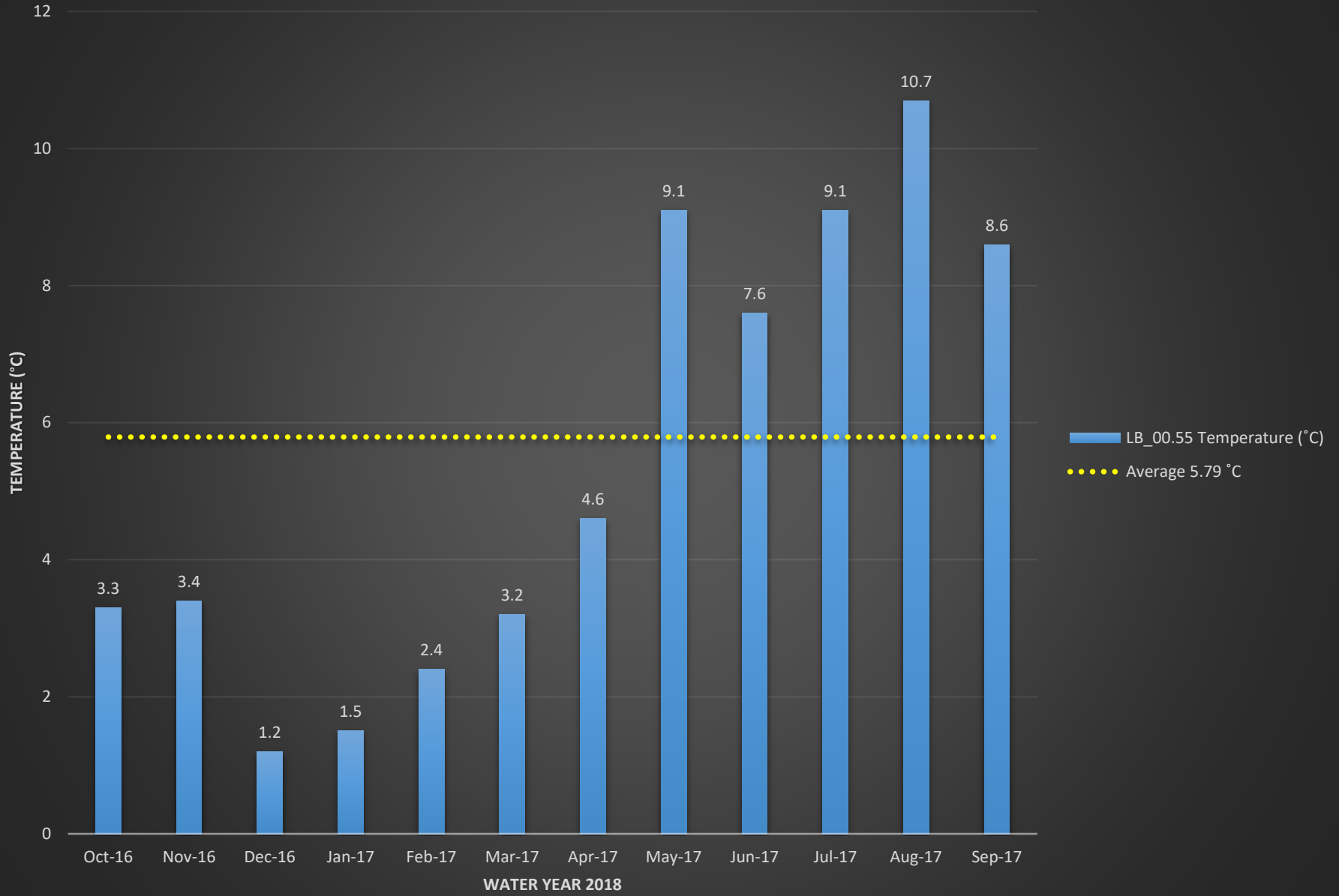




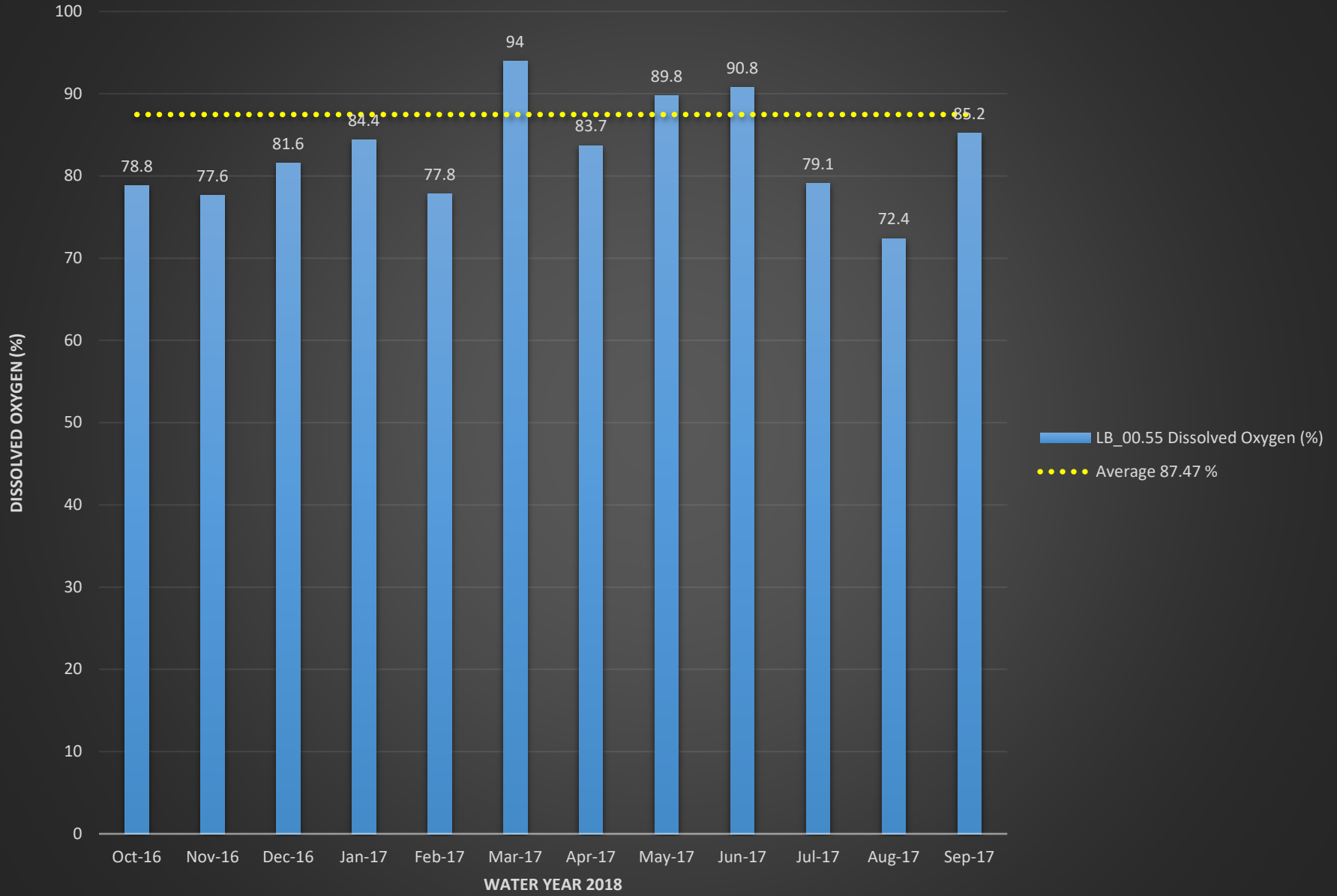
# LB\_00.55 E.coli (MPN)



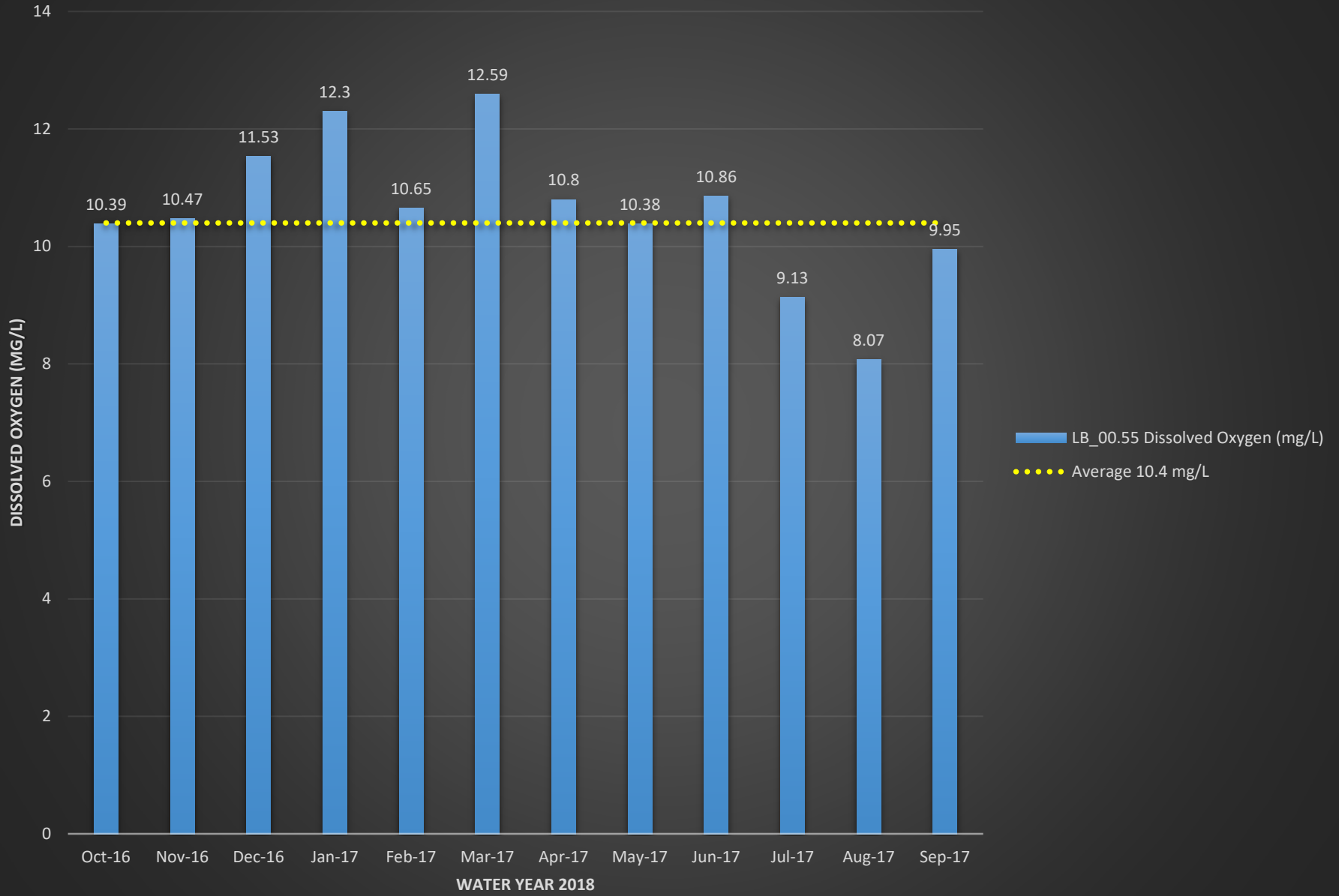
# LB\_00.55 Temperature (°C)



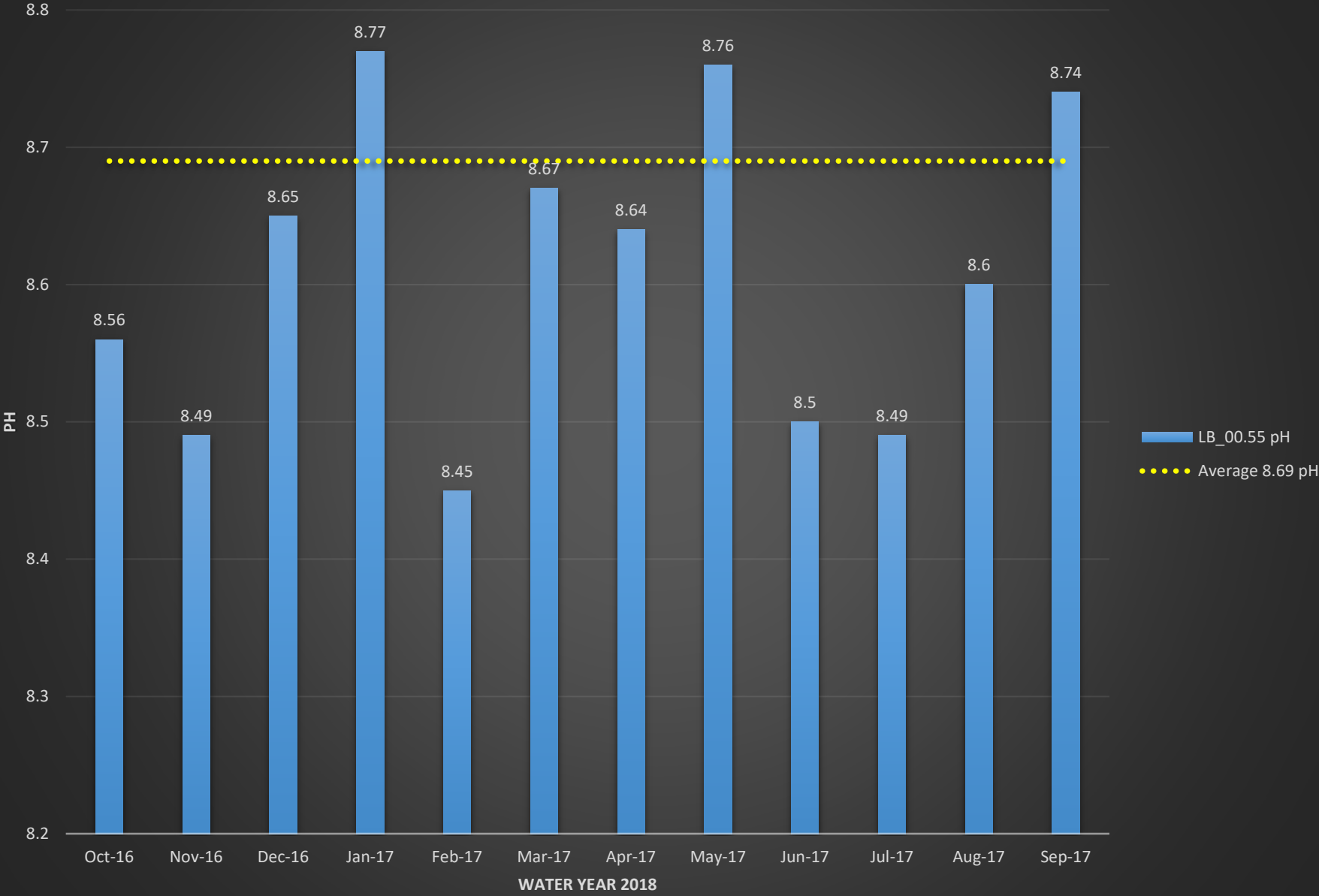
# LB\_00.55 Dissolved Oxygen (%)



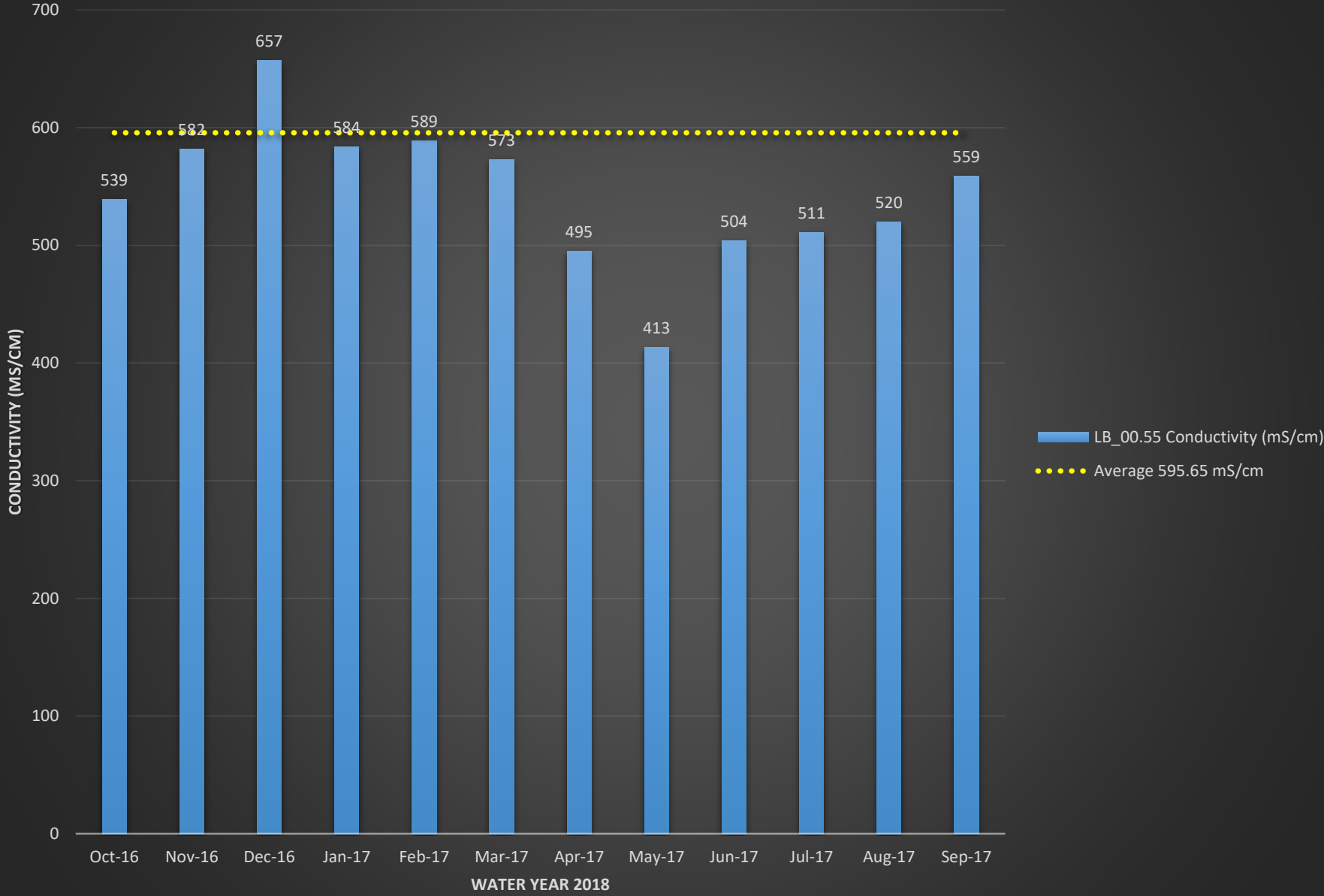
# LB\_00.55 Dissolved Oxygen (mg/L)



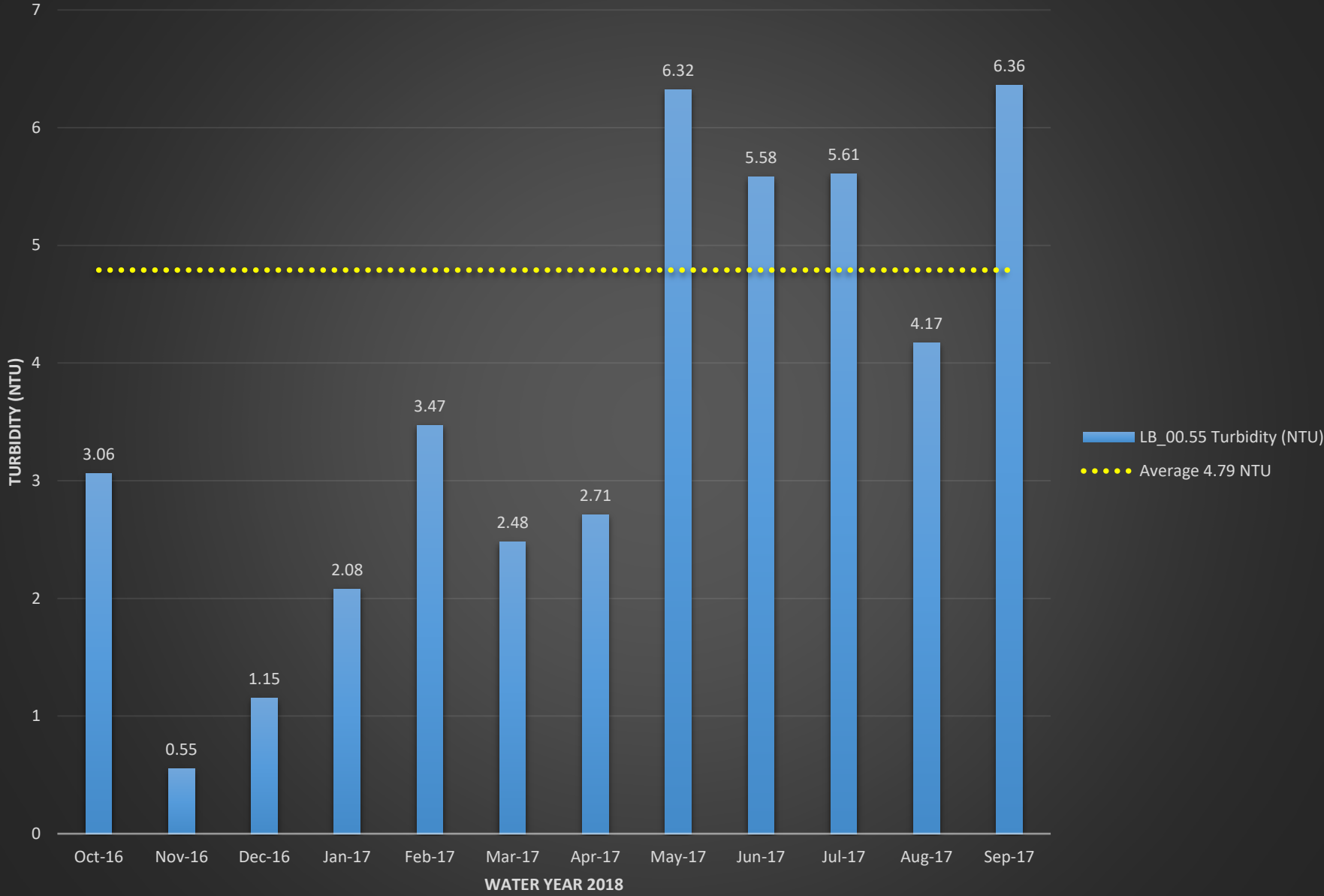
# LB\_00.55 pH



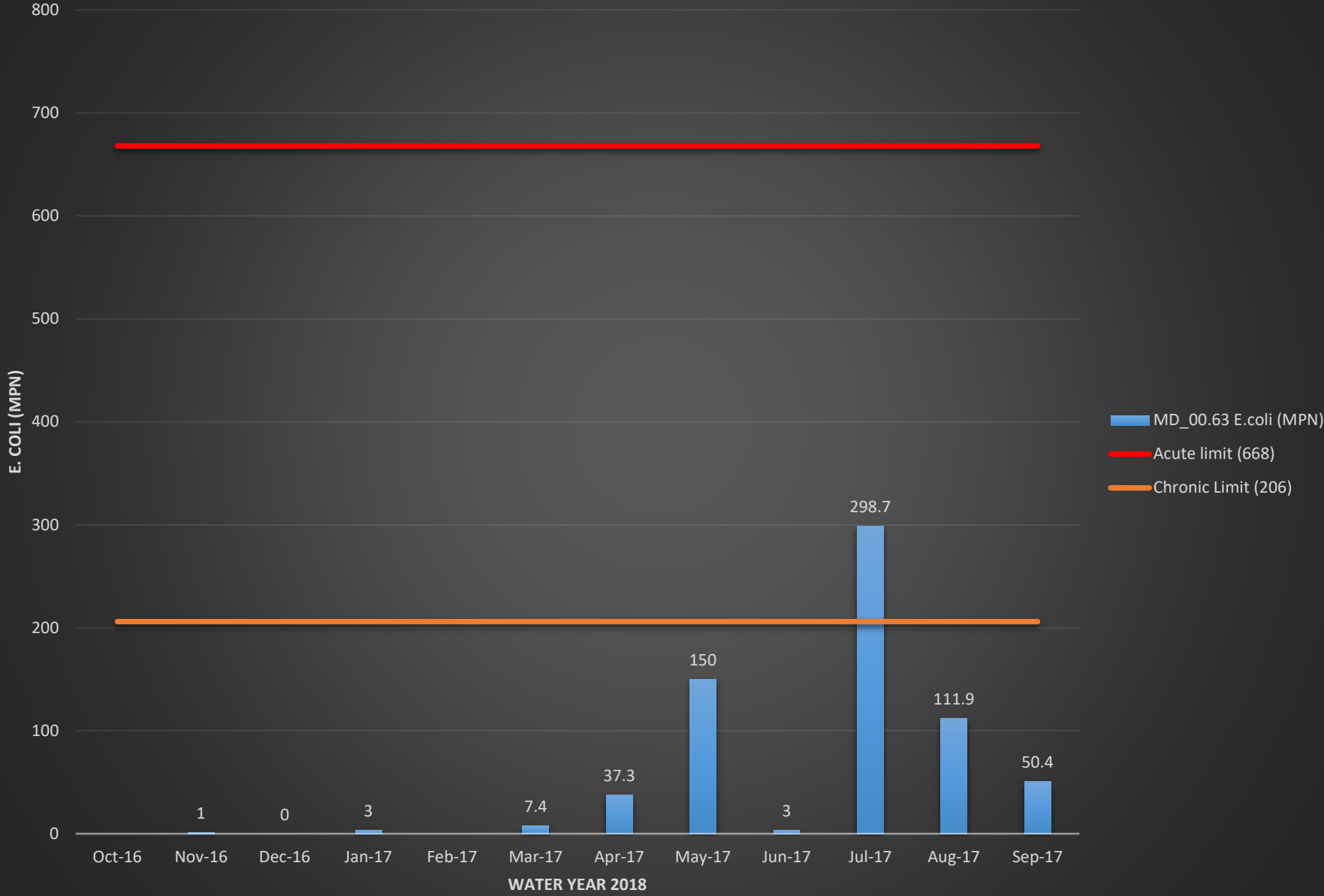
# LB\_00.55 Conductivity (mS/cm)



# LB\_00.55 Turbidity (NTU)

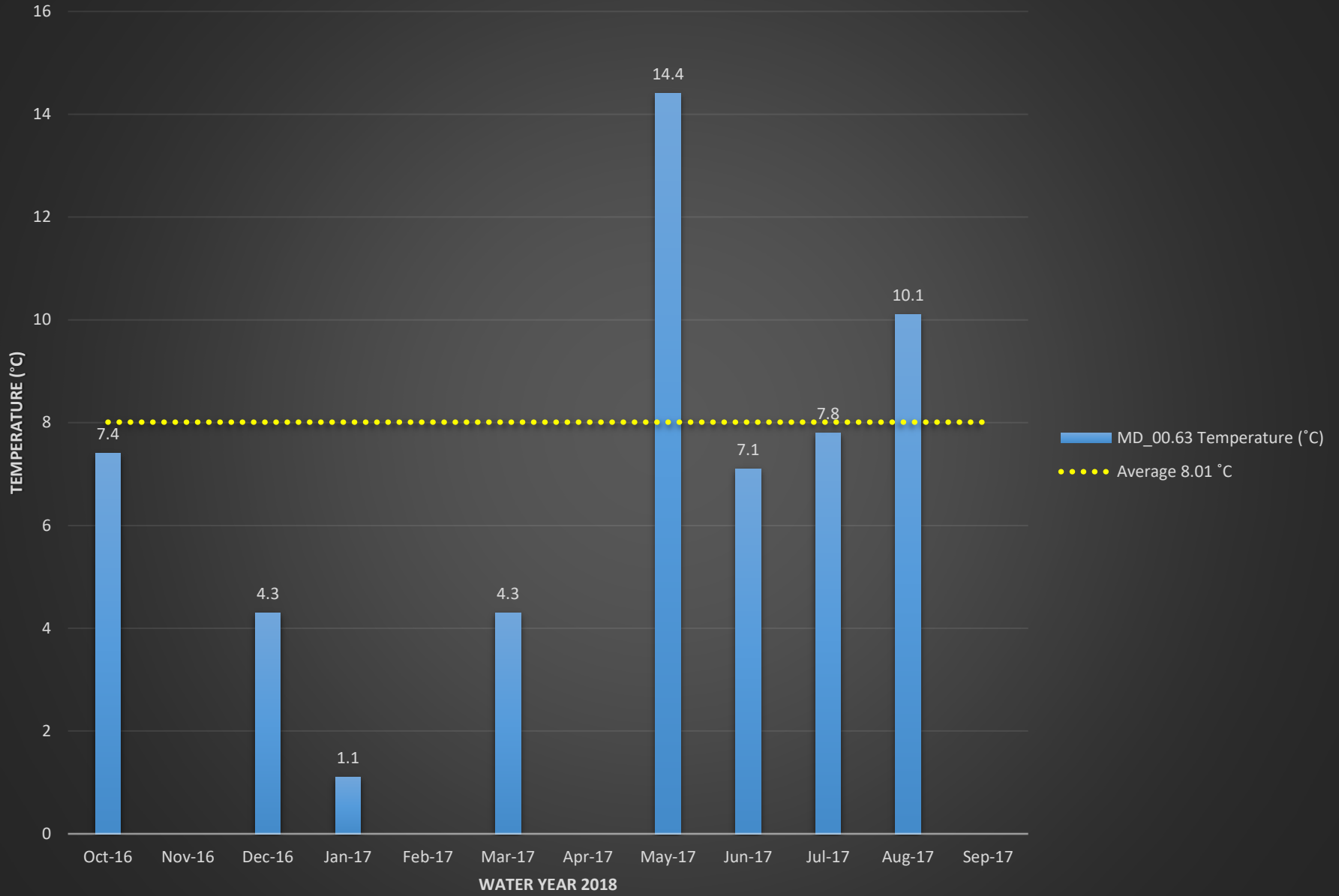


# MD\_00.63 E.coli (MPN)

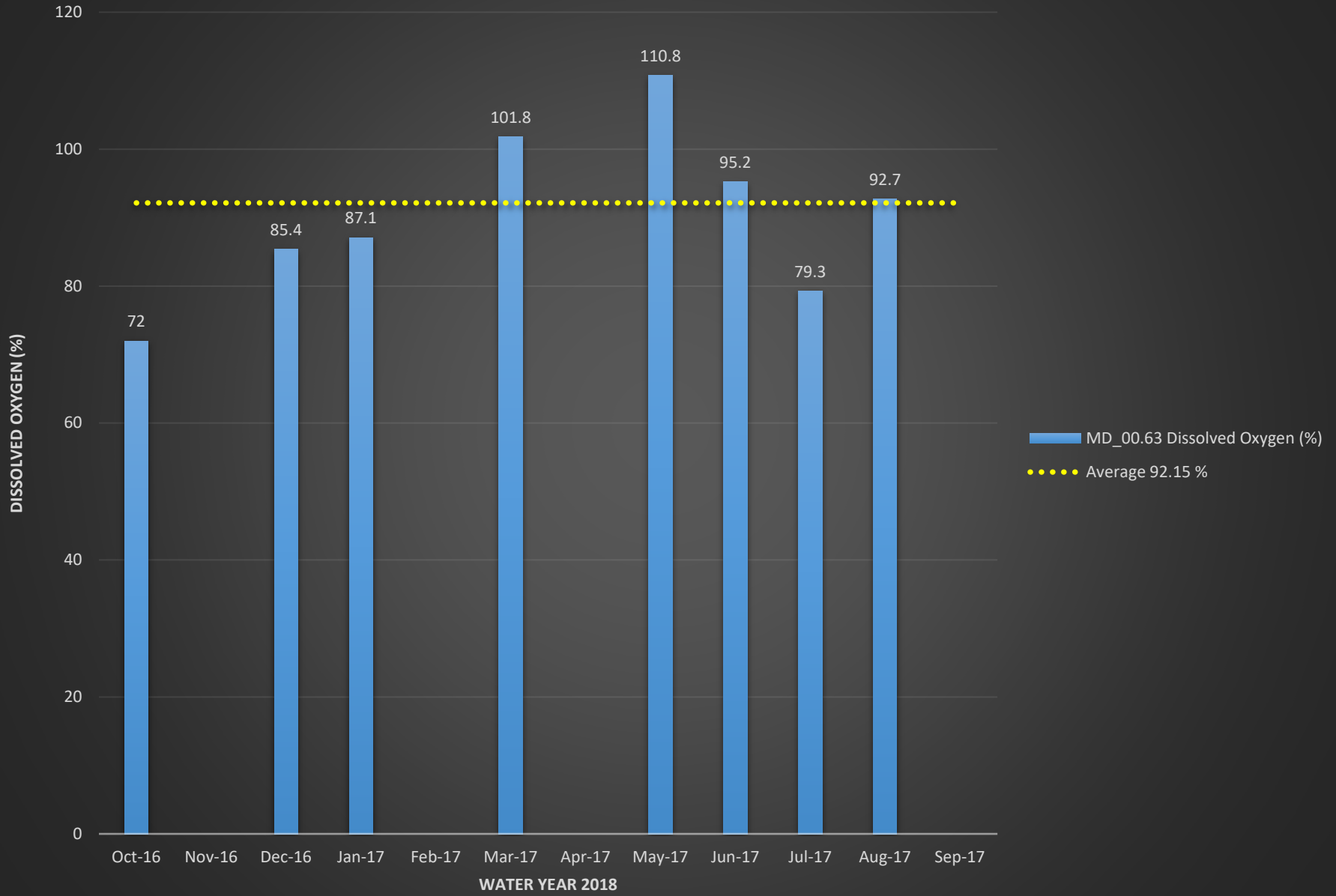




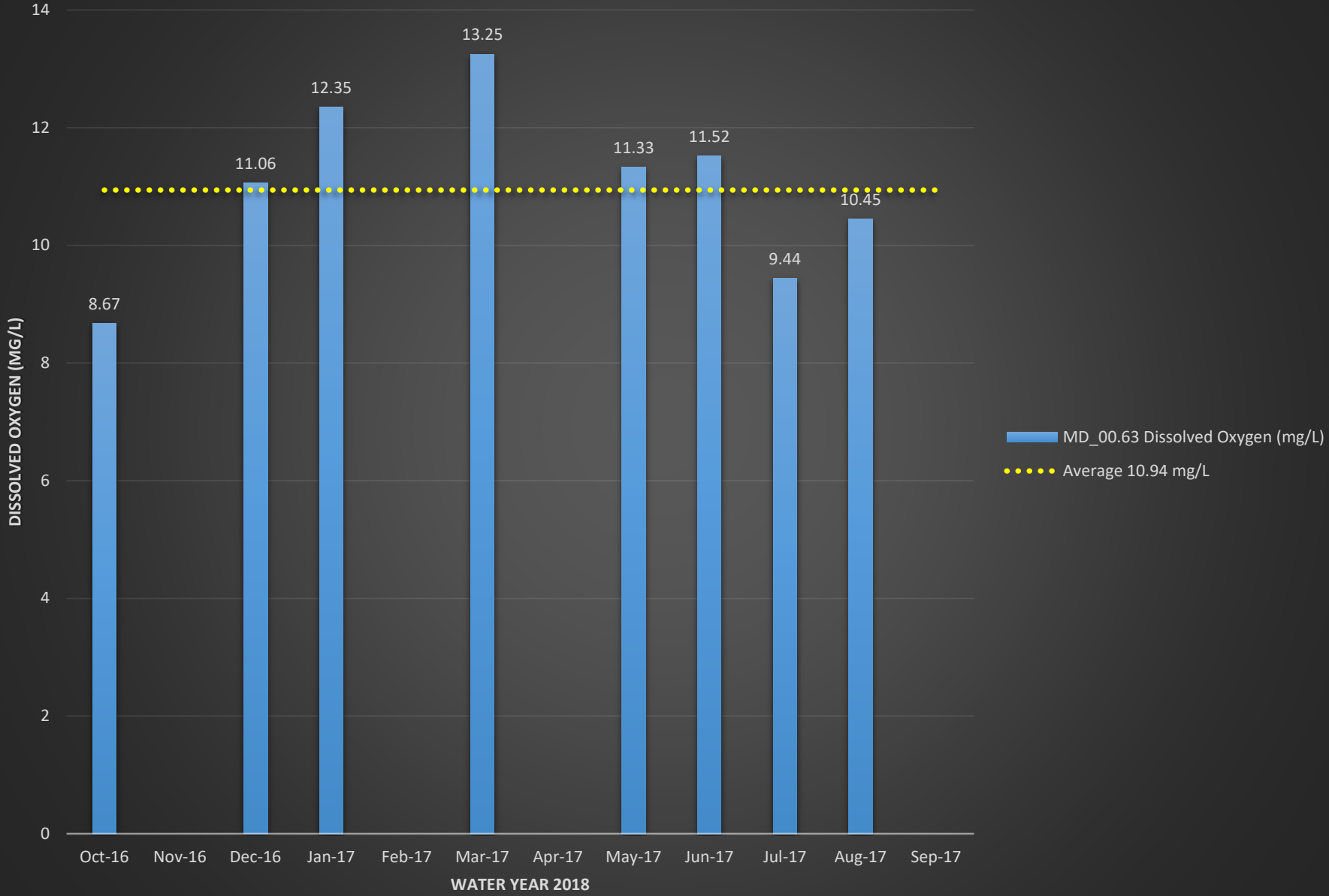
# MD\_00.63 Temperature (°C)



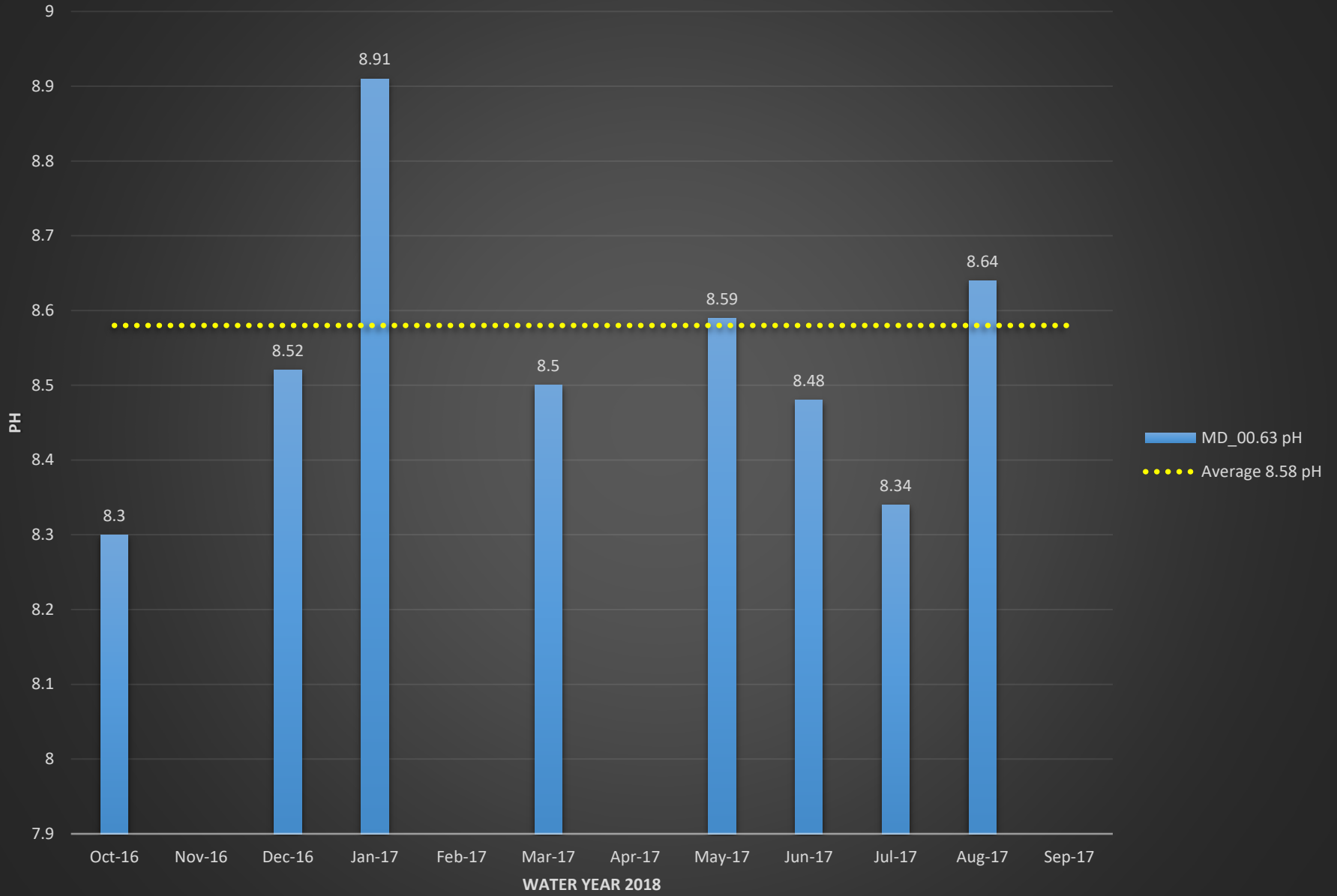
# MD\_00.63 Dissolved Oxygen (%)



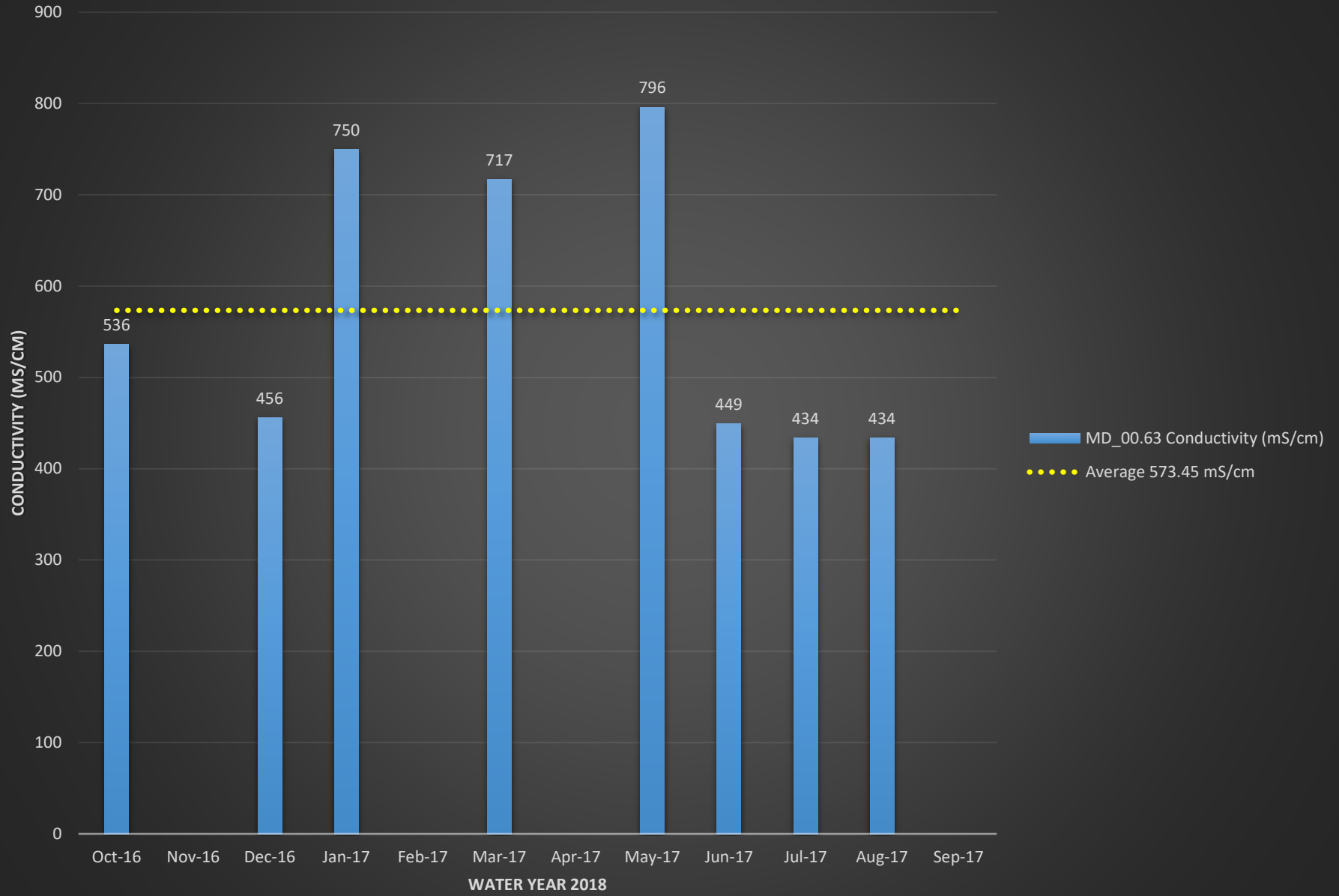
# MD\_00.63 Dissolved Oxygen (mg/L)



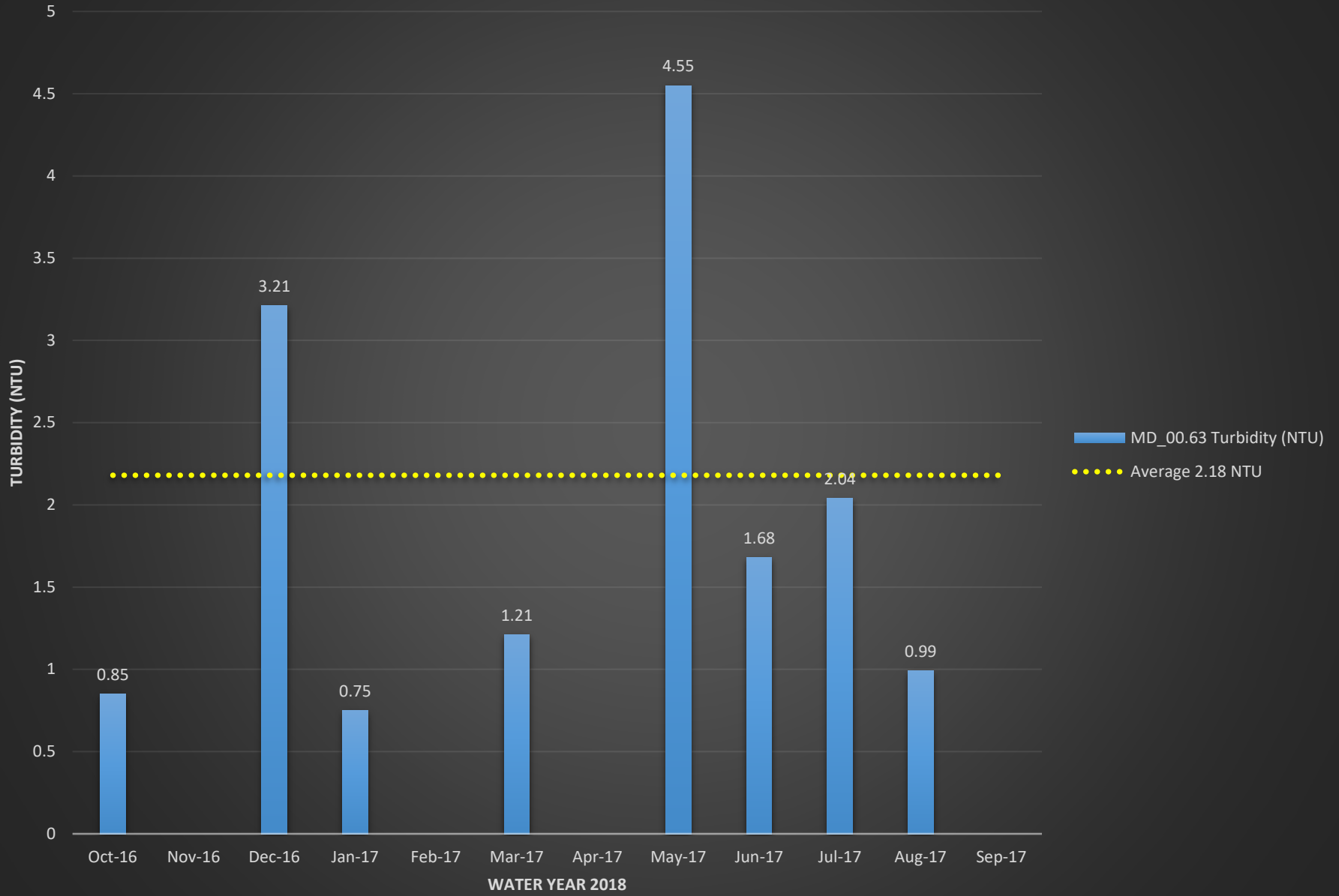
# MD\_00.63 pH



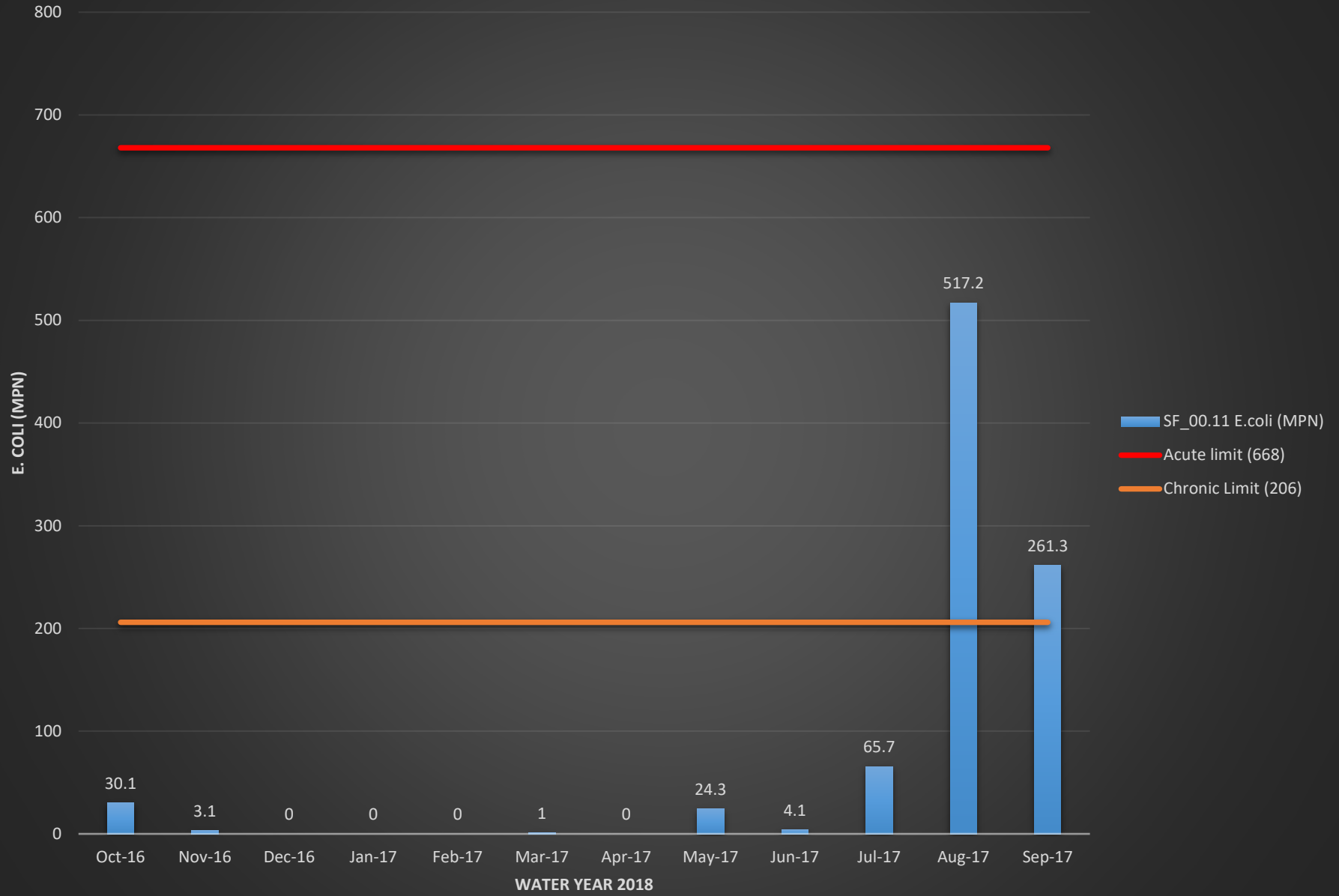
# MD\_00.63 Conductivity (mS/cm)



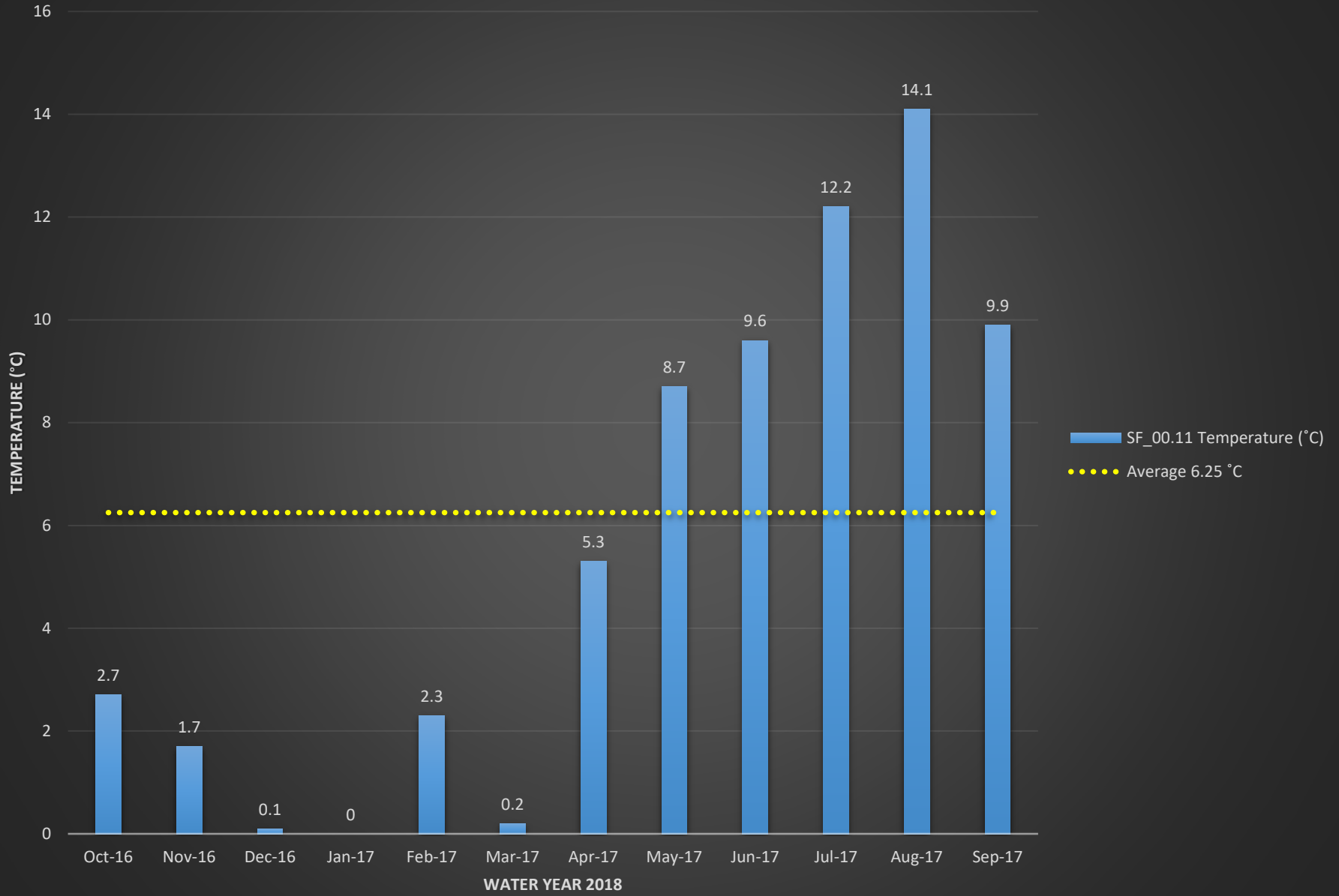
# MD\_00.63 Turbidity (NTU)



# SF\_00.11 E.coli (MPN)

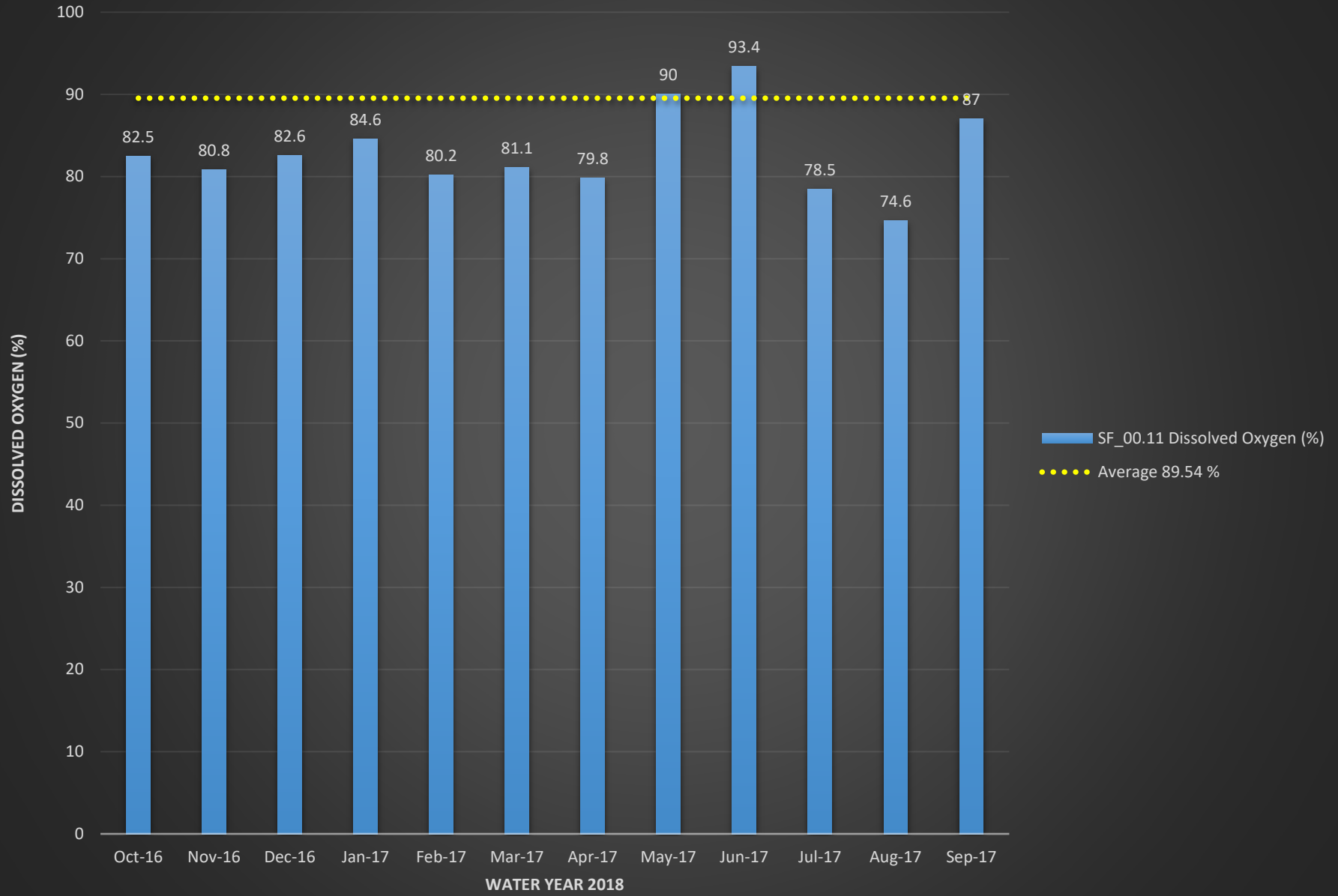


# SF\_00.11 Temperature (°C)

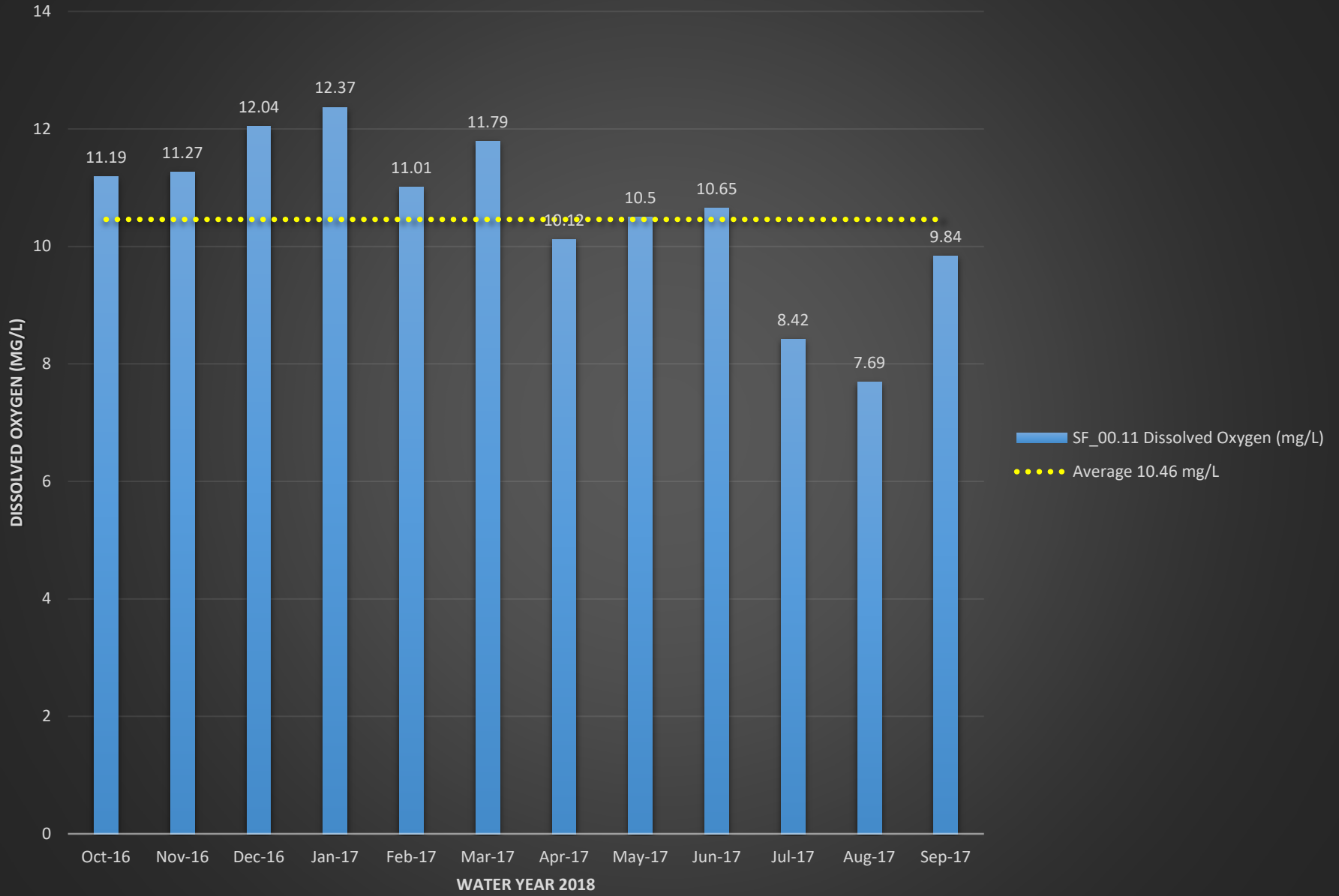




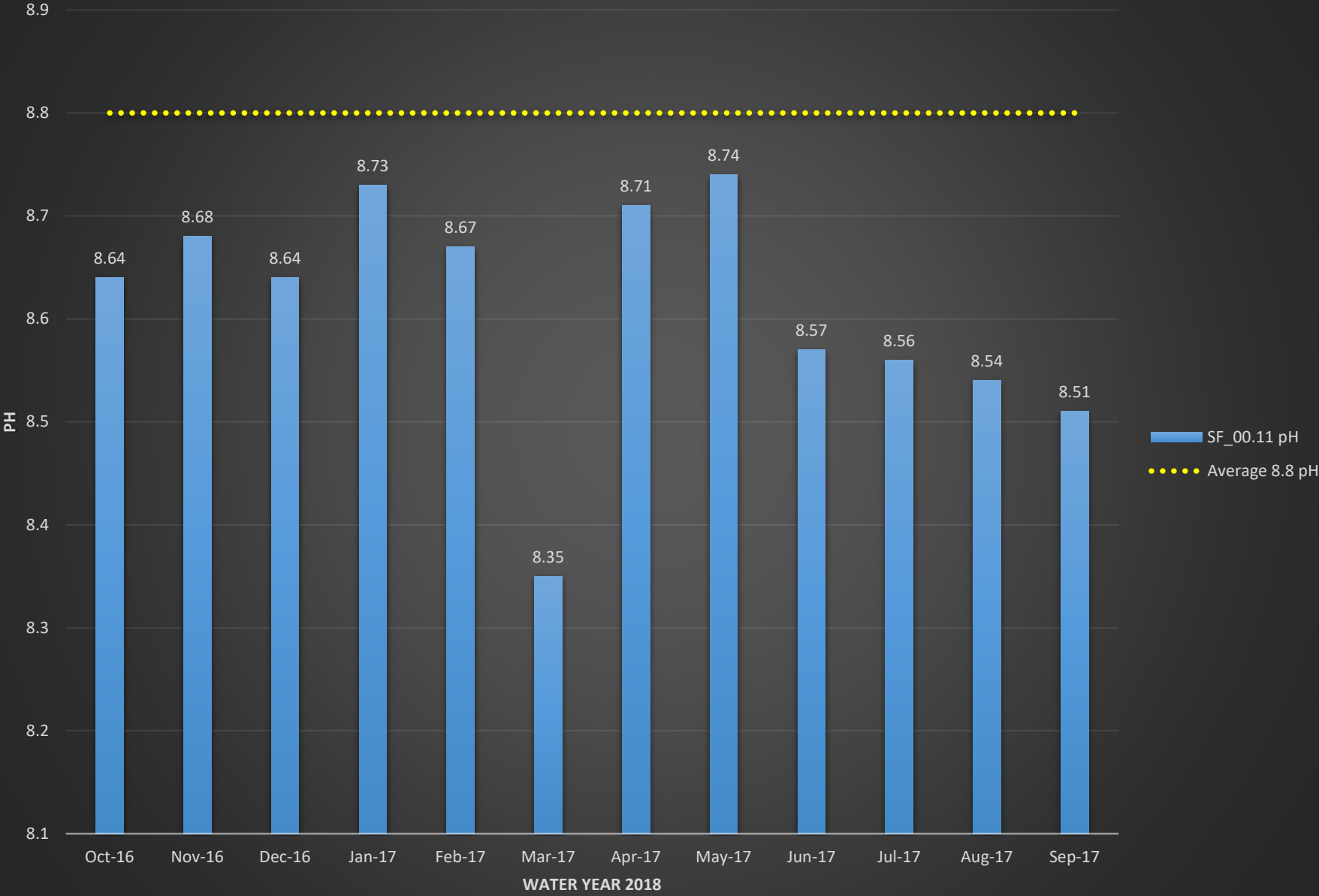
# SF\_00.11 Dissolved Oxygen (%)



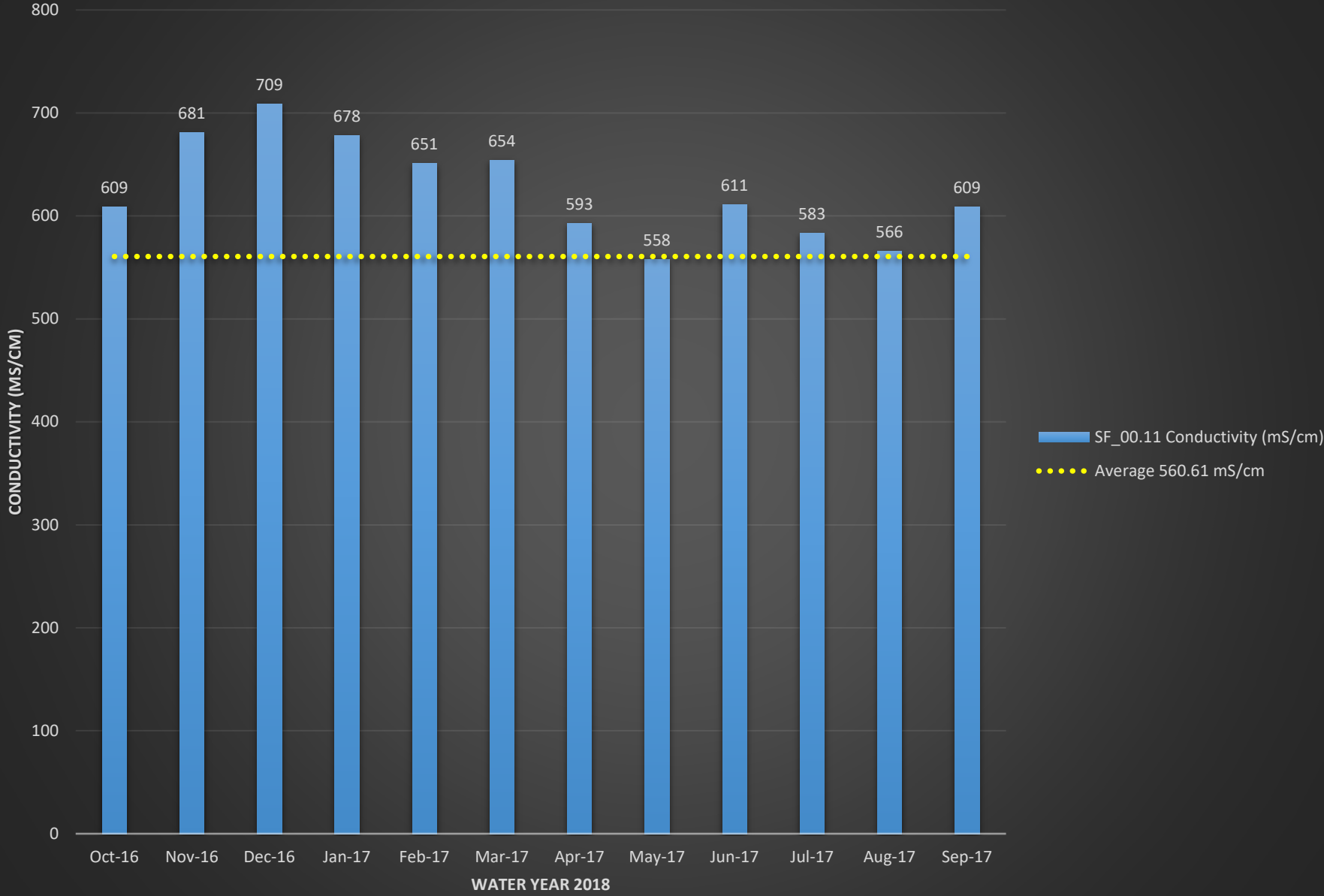
# SF\_00.11 Dissolved Oxygen (mg/L)



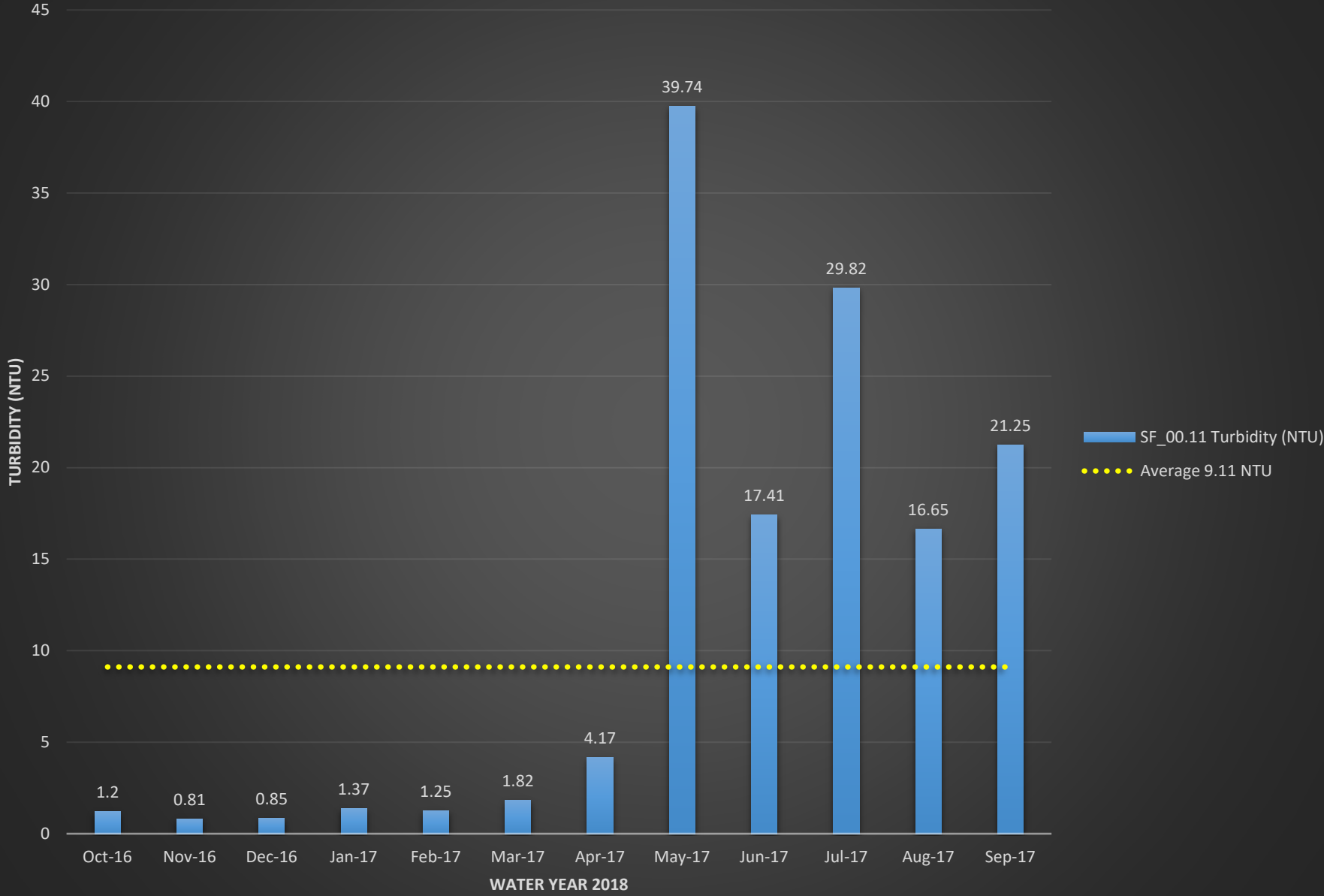
# SF\_00.11 pH



# SF\_00.11 Conductivity (mS/cm)

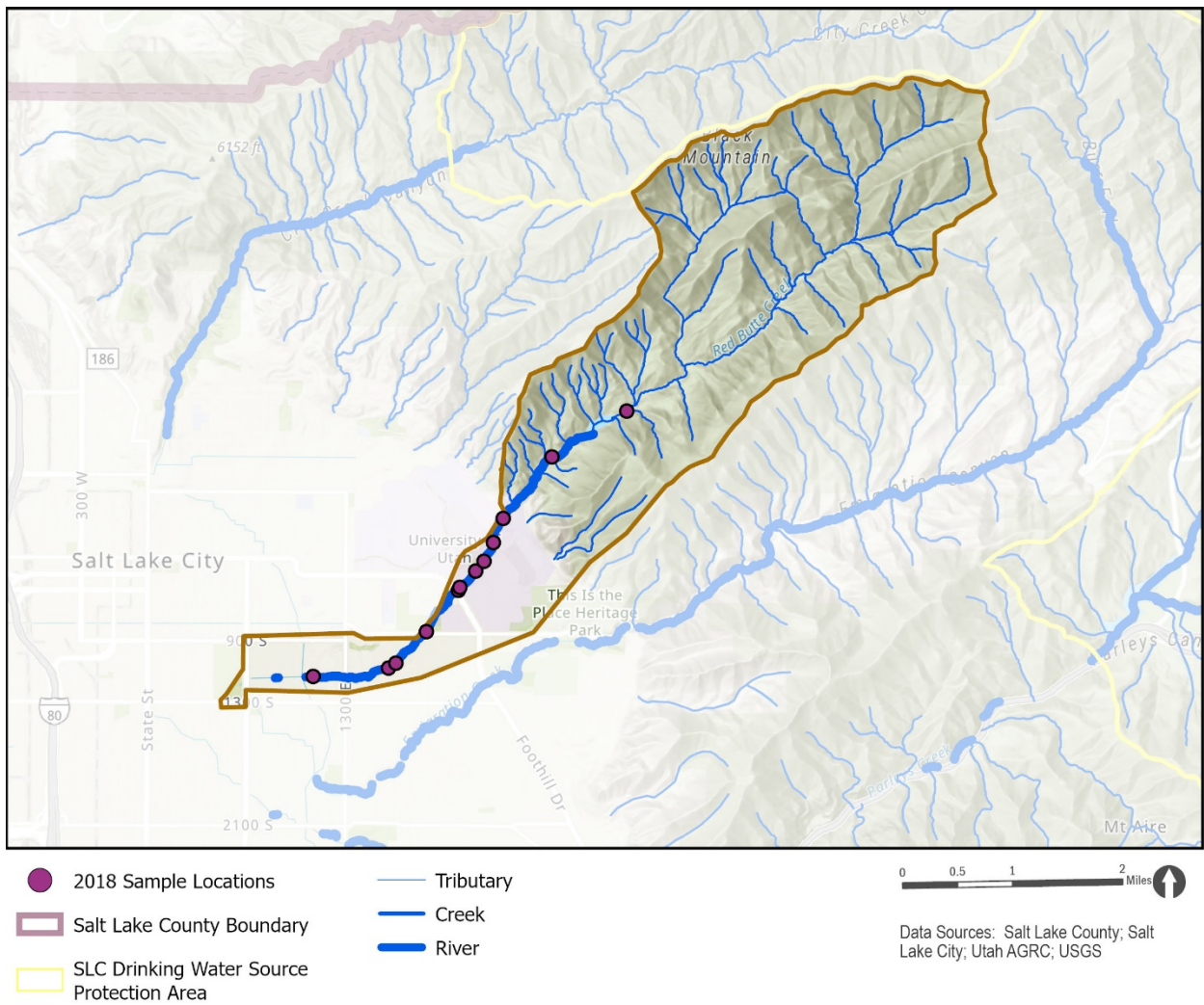


# SF\_00.11 Turbidity (NTU)

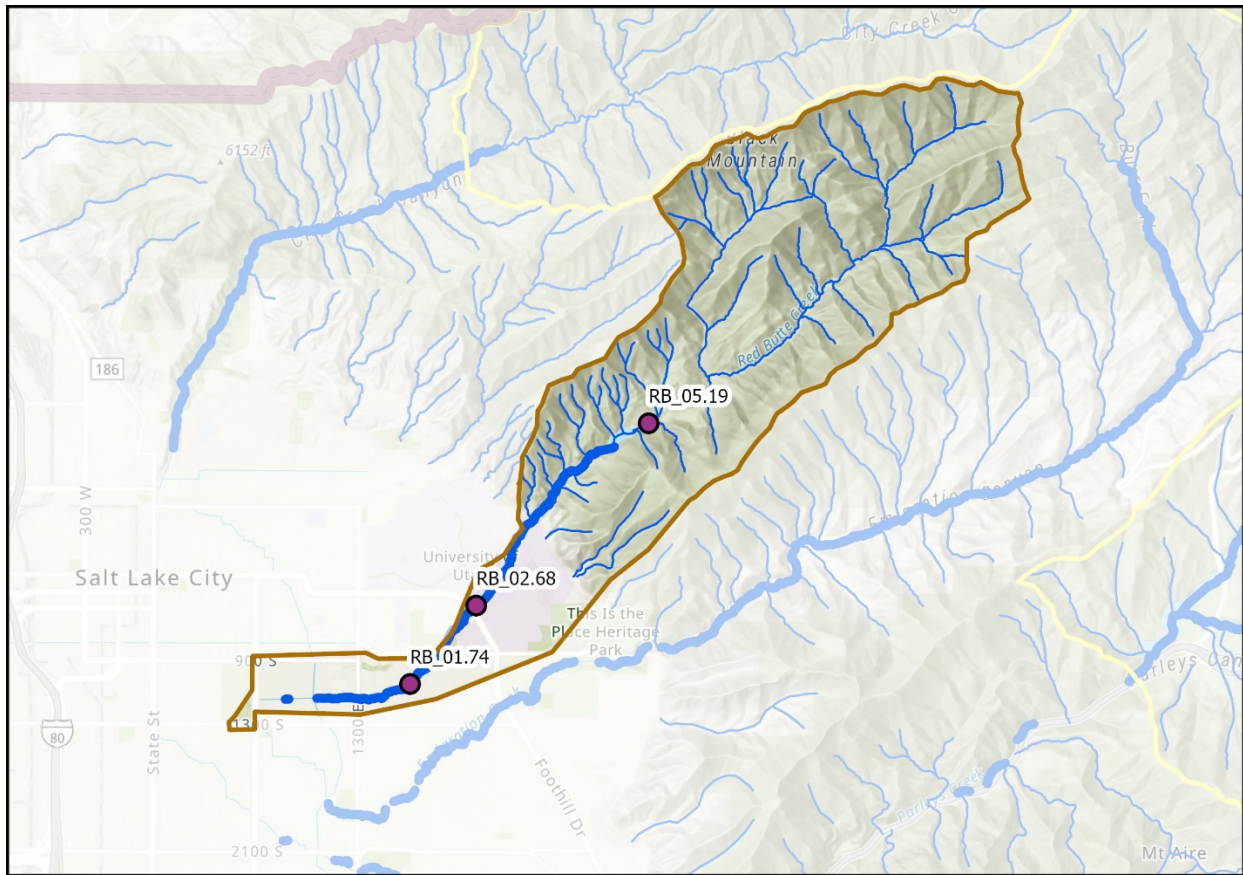


# RED BUTTE CREEK SUBWATERSHED

## Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites



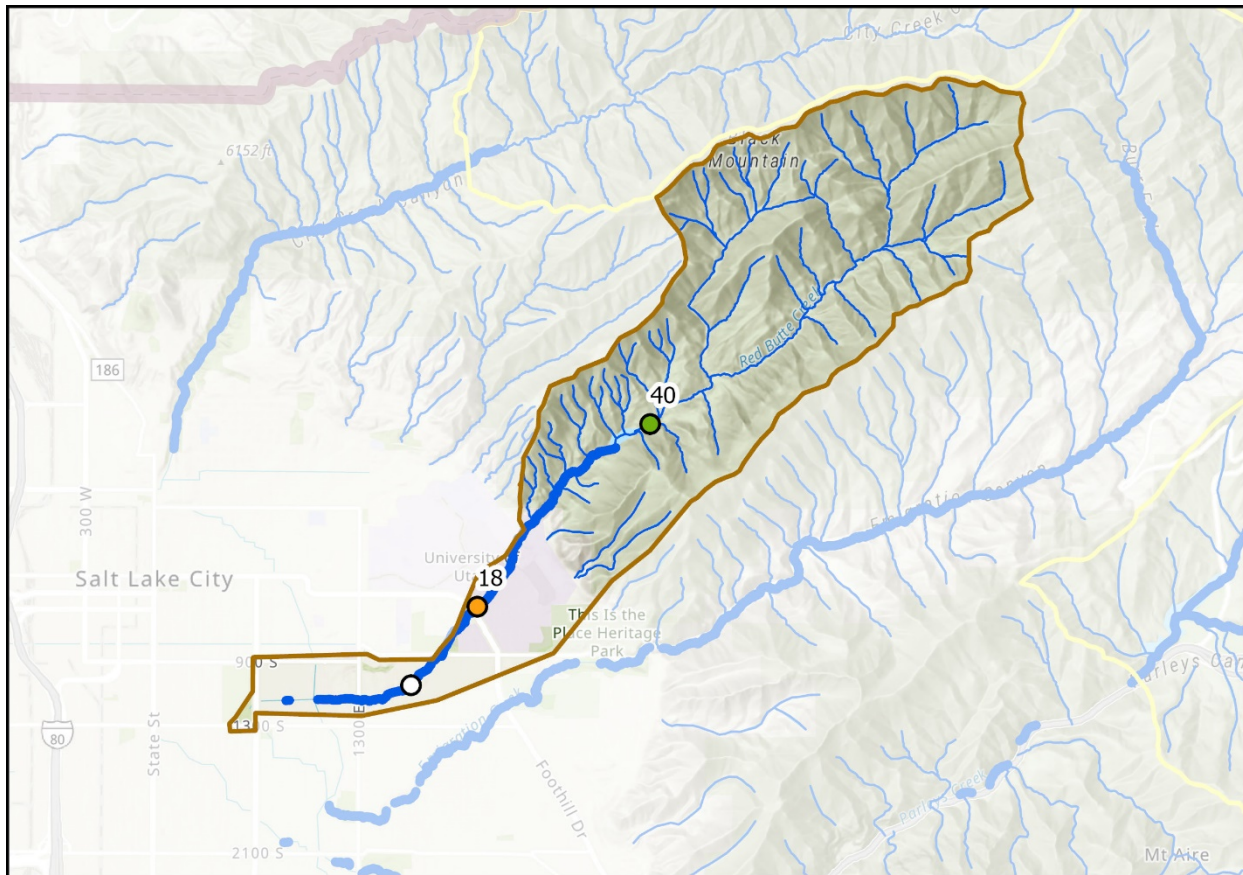
- 2018 Macroinvertebrate Sample Locations
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Karr-BIBI Results



2018 Macroinvertebrate  
Karr BIBI

- ≤10
- ≤12
- ≤20
- ≤24
- ≤28

- ≤32
- ≤36
- ≤40
- ≤44
- ≤48
- No Sample

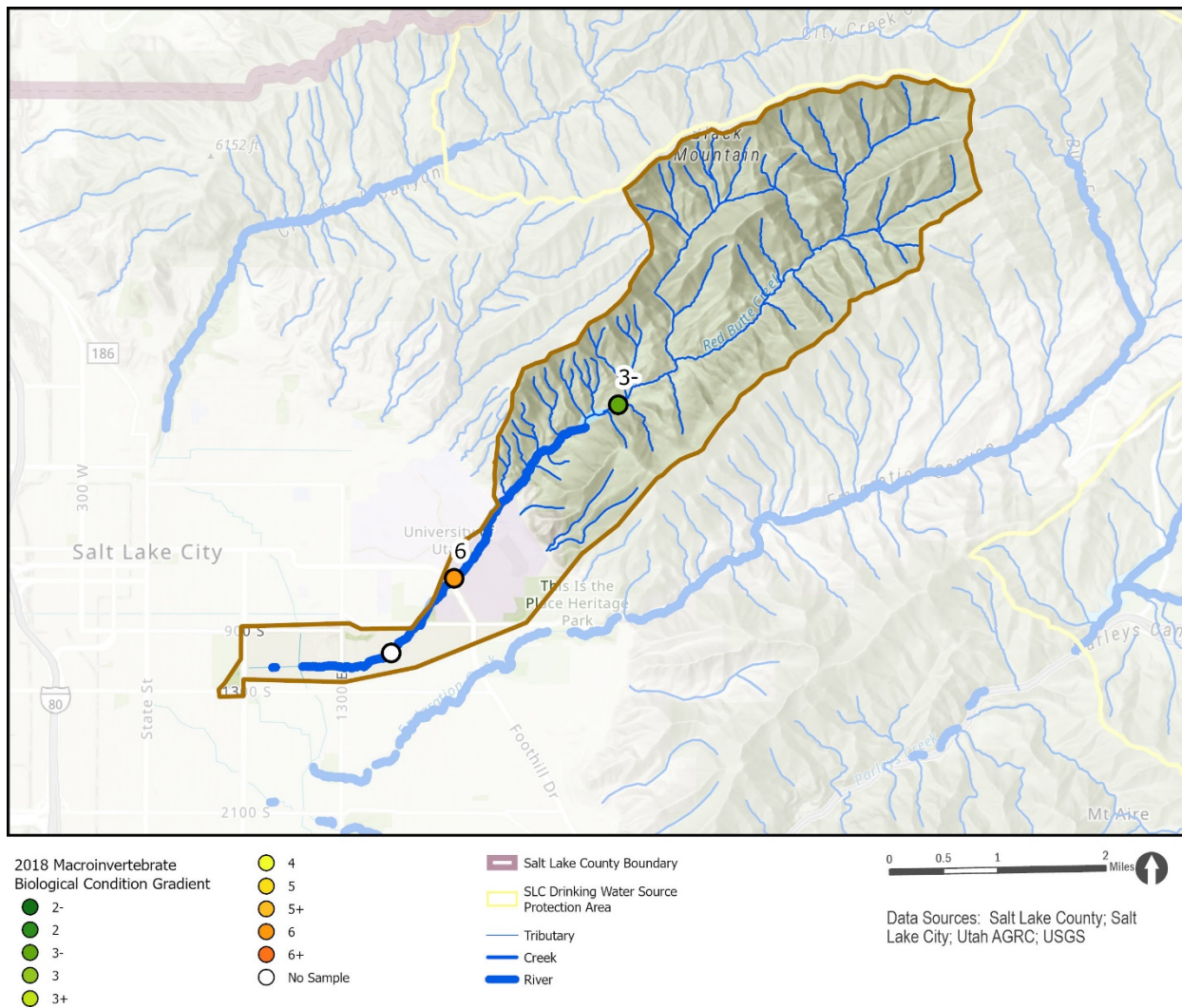
- Salt Lake County Boundary
- SLC Drinking Water Source Protection Area
- Tributary
- Creek
- River



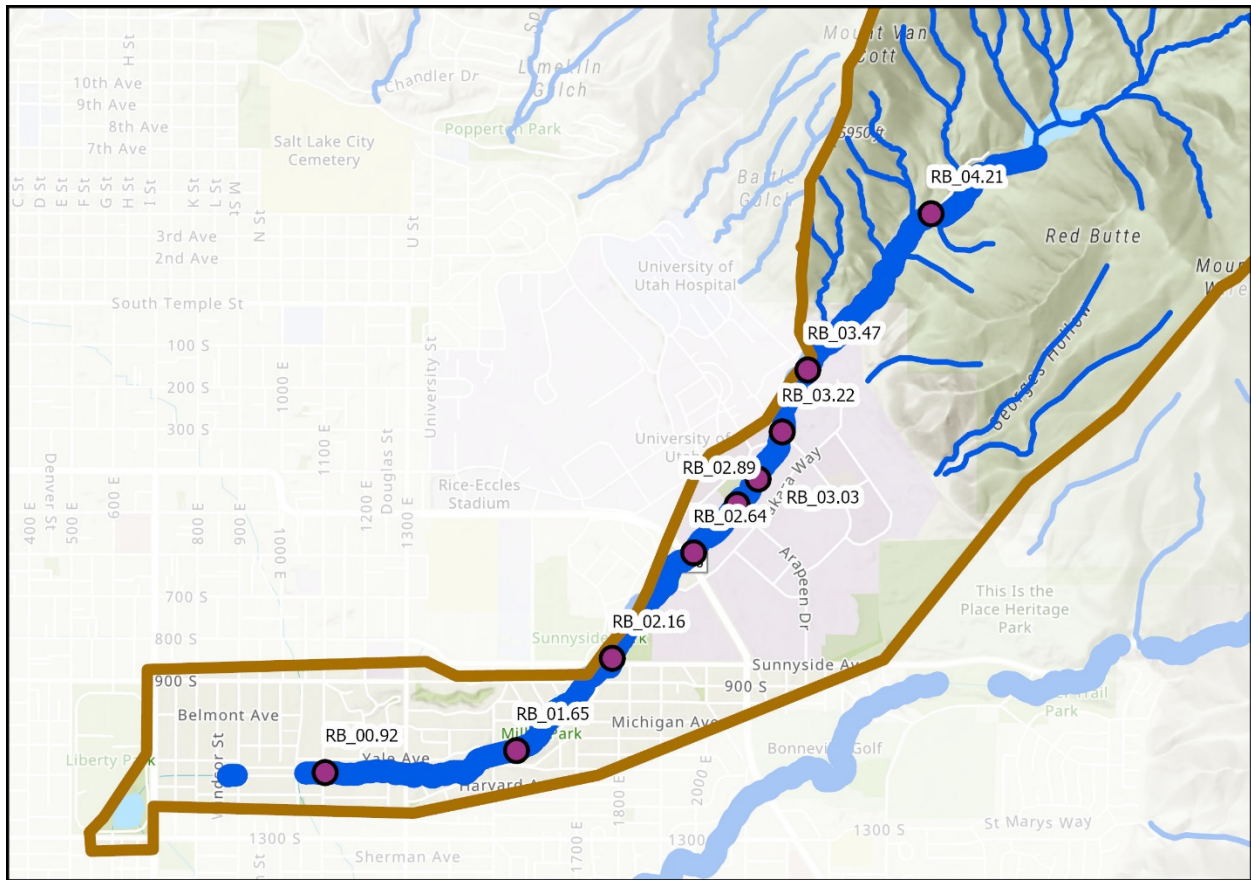
Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Biological Condition Gradient (BCG) Results



## Subwatershed Map with Bacteria Sample Sites



- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- Tributary
- Creek
- River

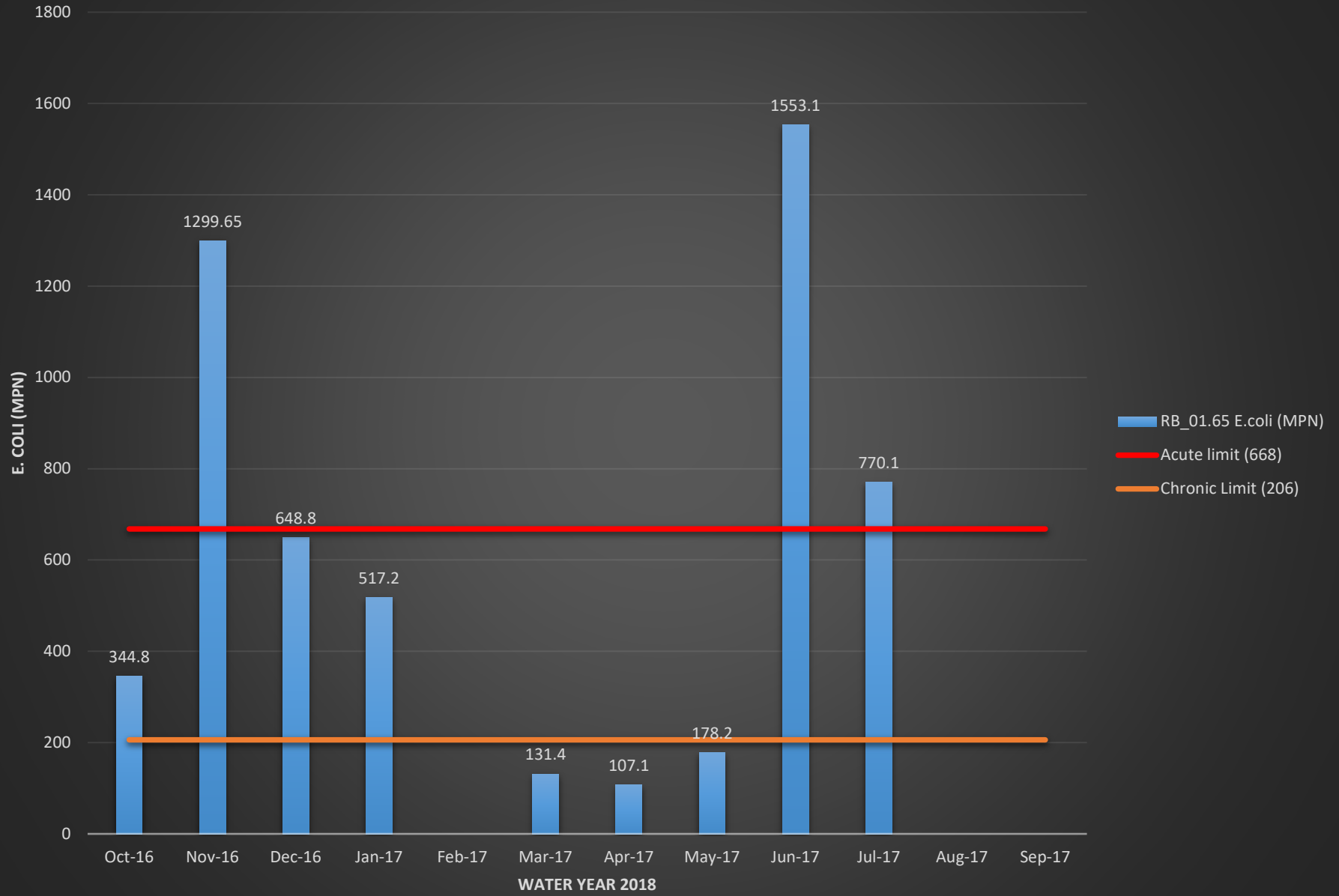


Data Sources: Salt Lake County, Salt Lake City; Utah AGRC; USGS

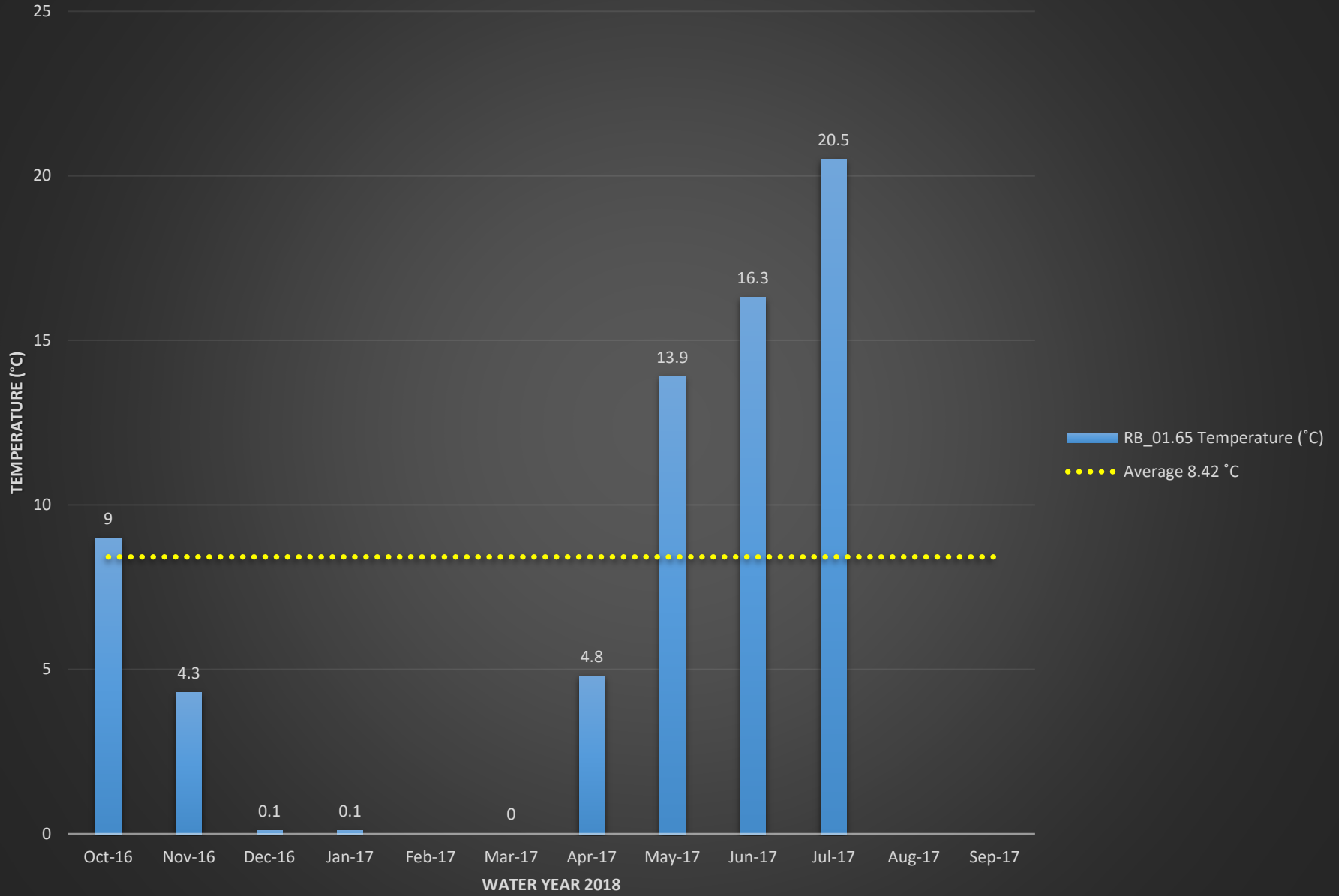
## *E. coli* & Field Parameter Graphs

Graphs begin on next page...

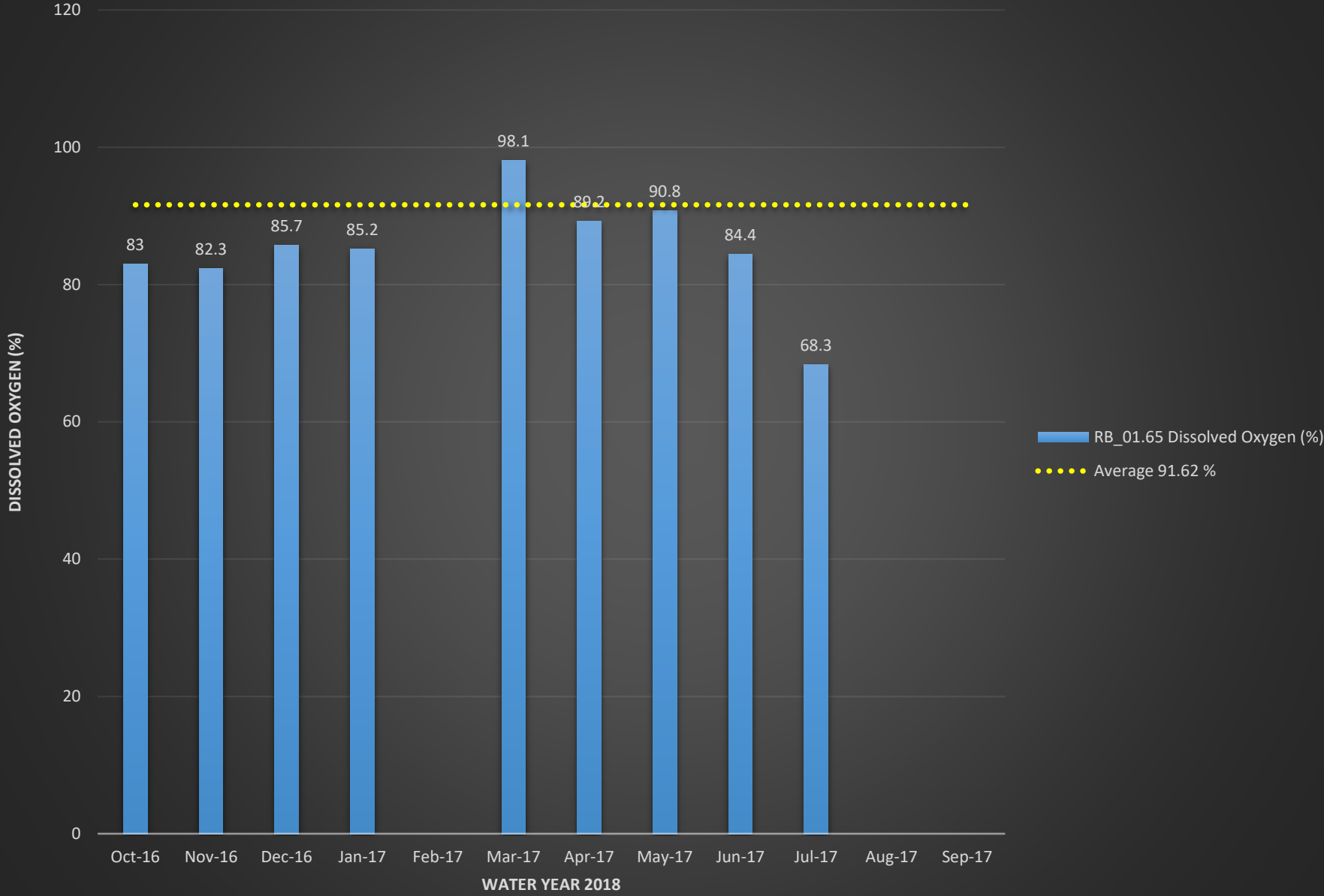
# RB\_01.65 E.coli (MPN)



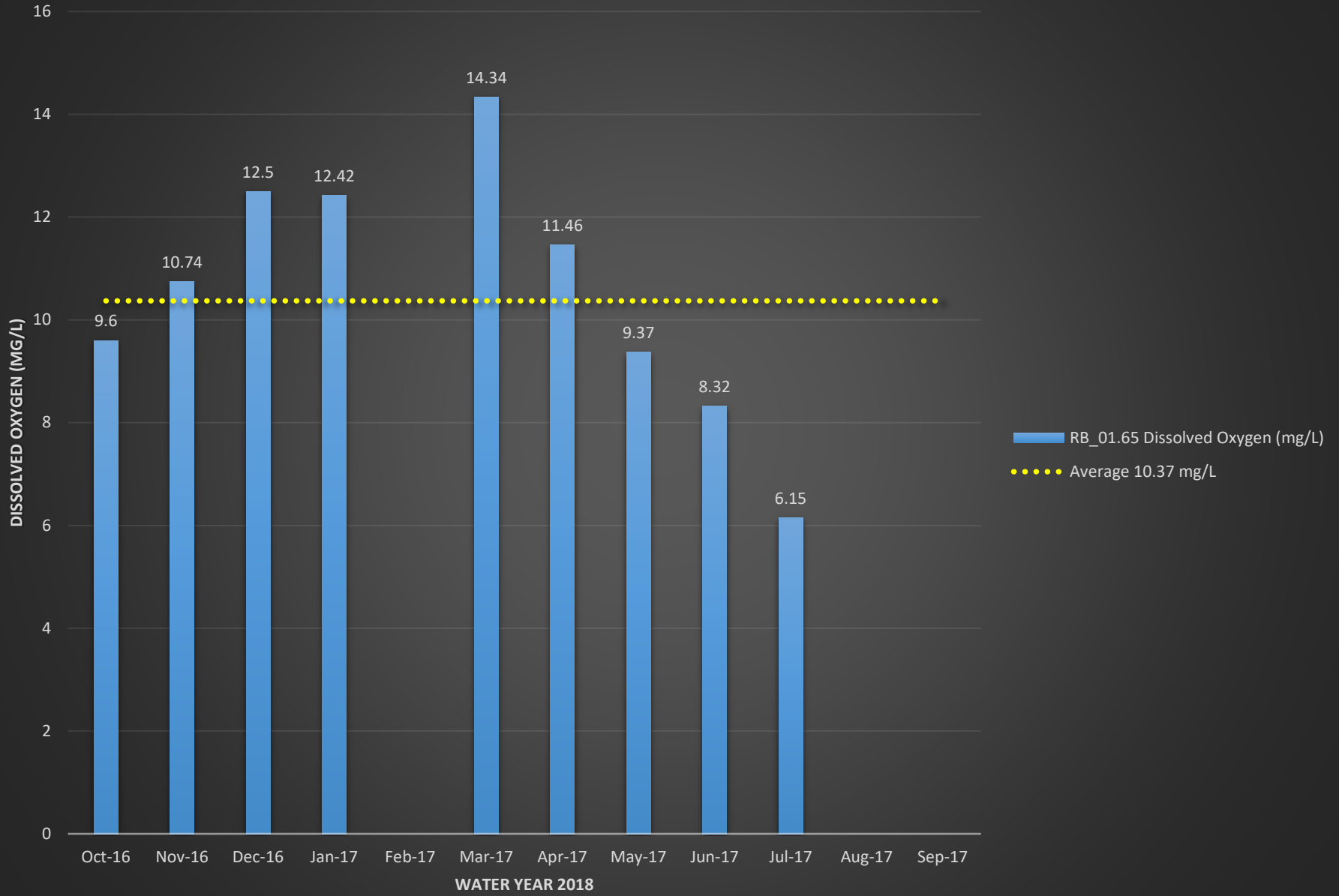
# RB\_01.65 Temperature (°C)



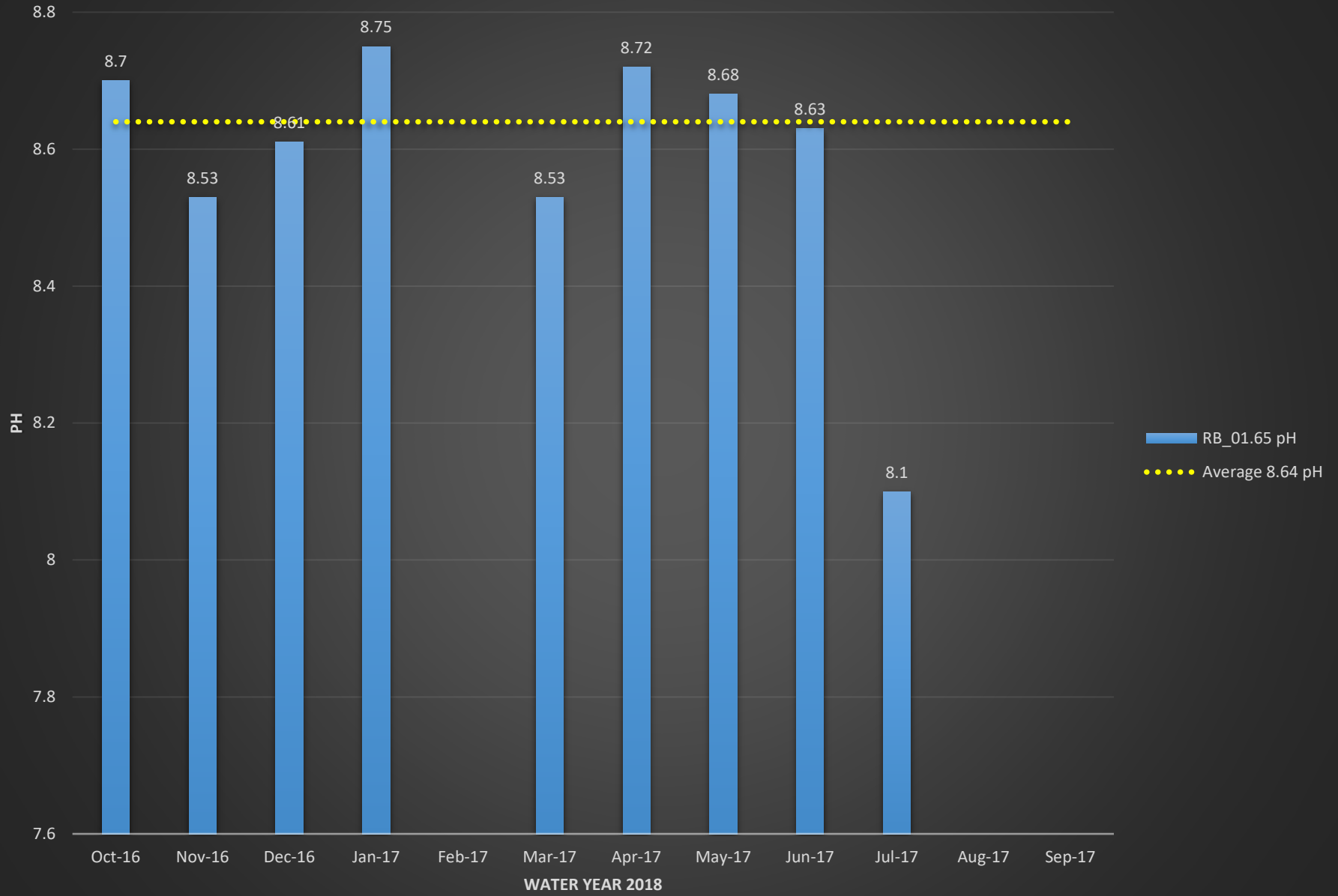
# RB\_01.65 Dissolved Oxygen (%)



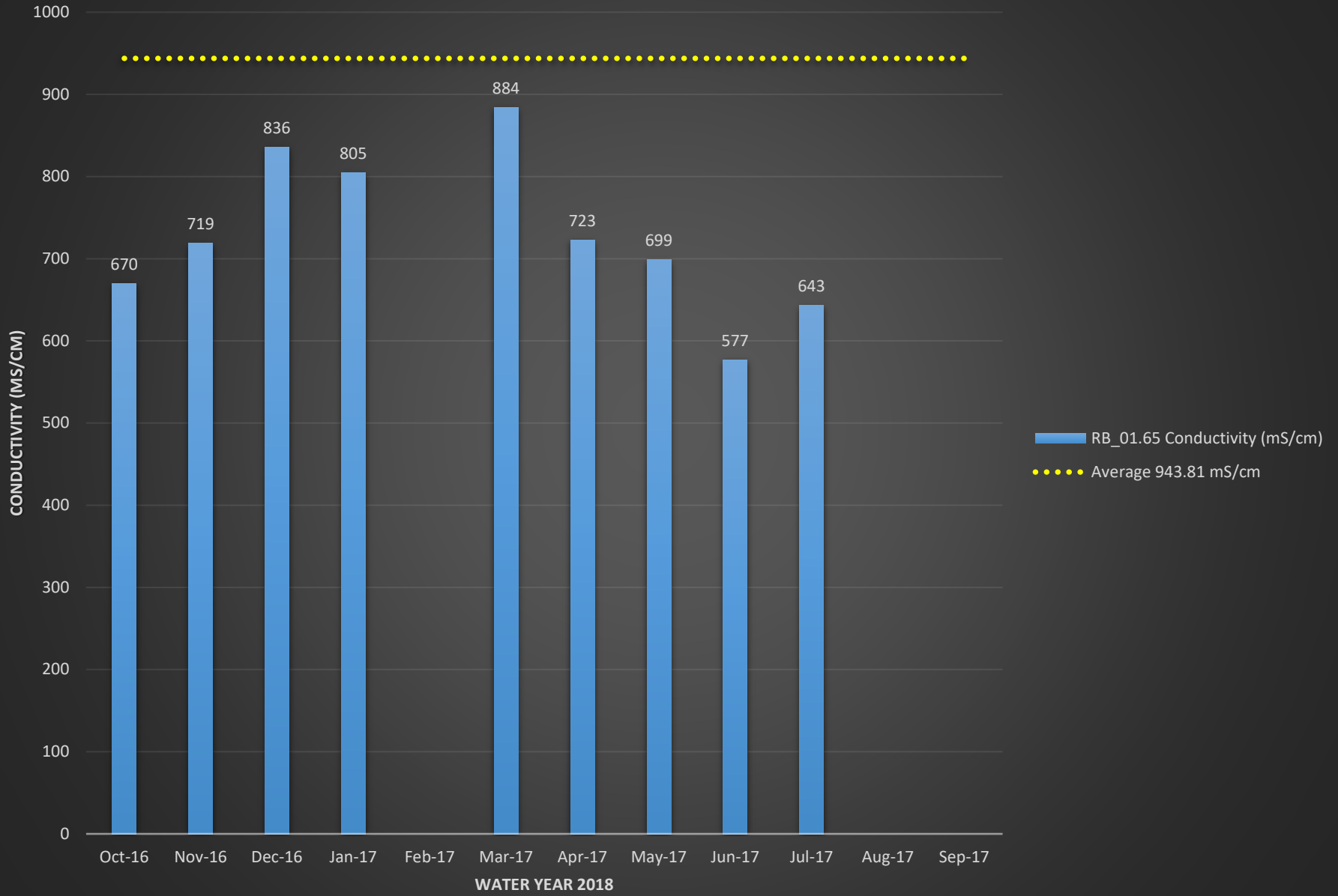
# RB\_01.65 Dissolved Oxygen (mg/L)



# RB\_01.65 pH

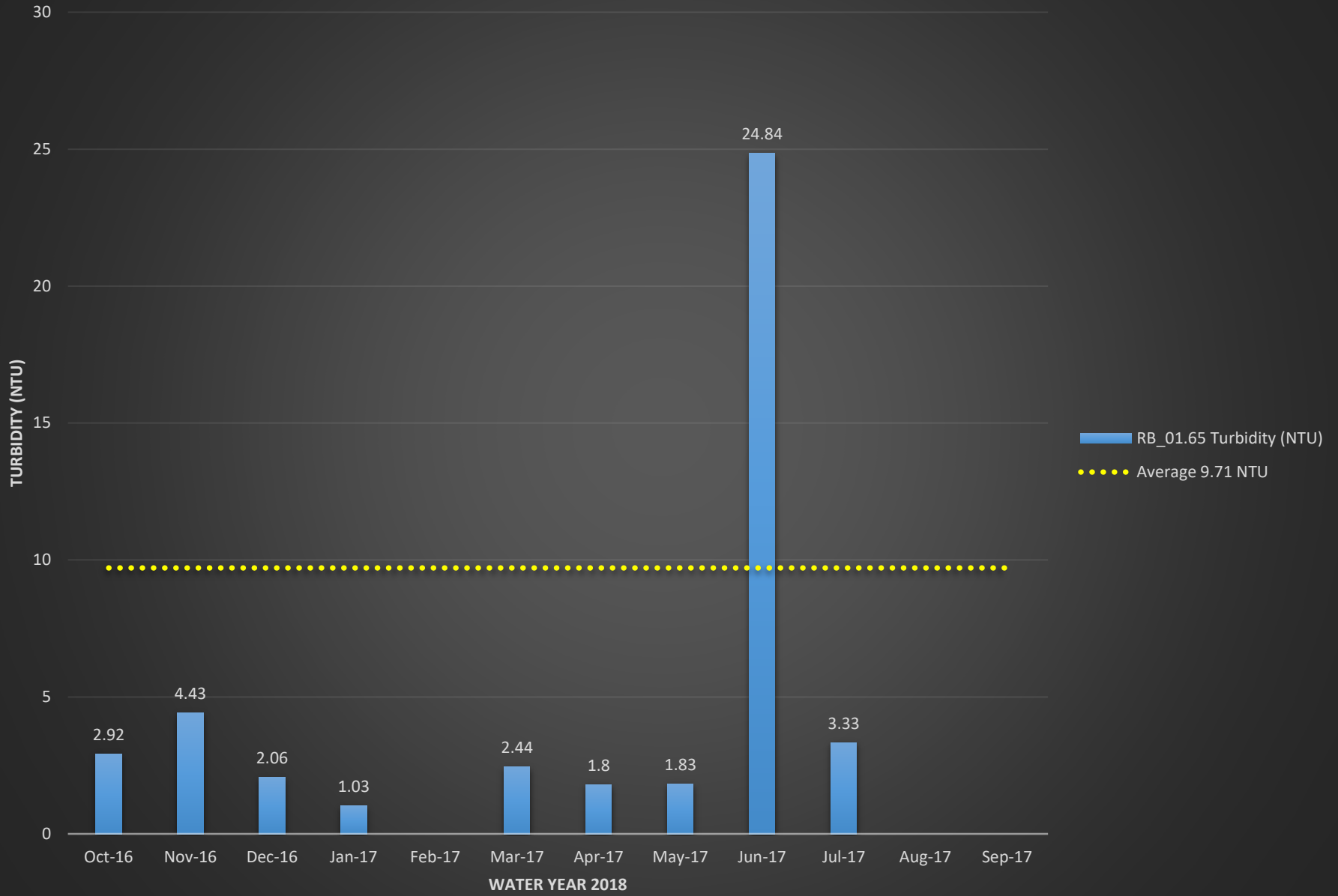


# RB\_01.65 Conductivity (mS/cm)

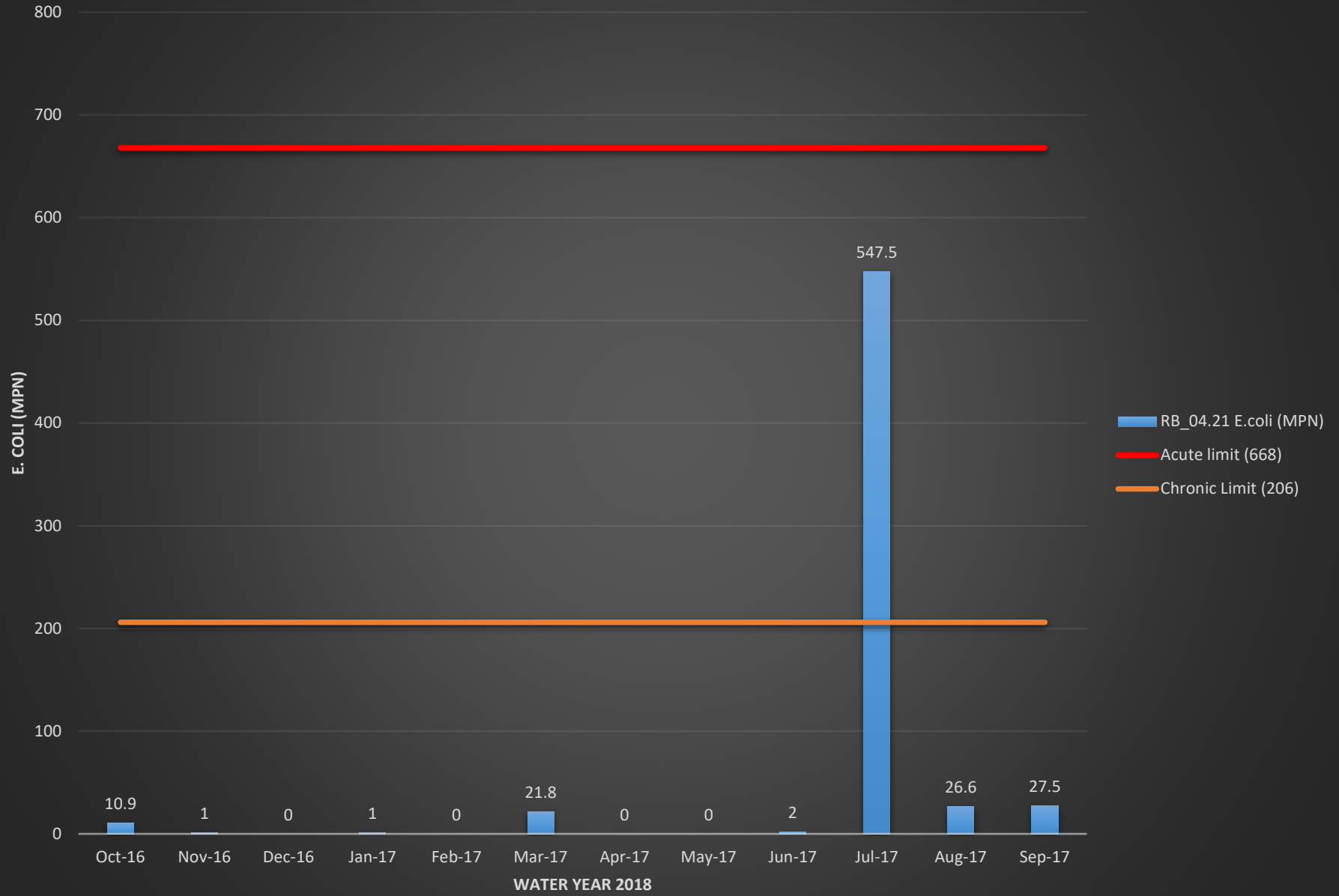




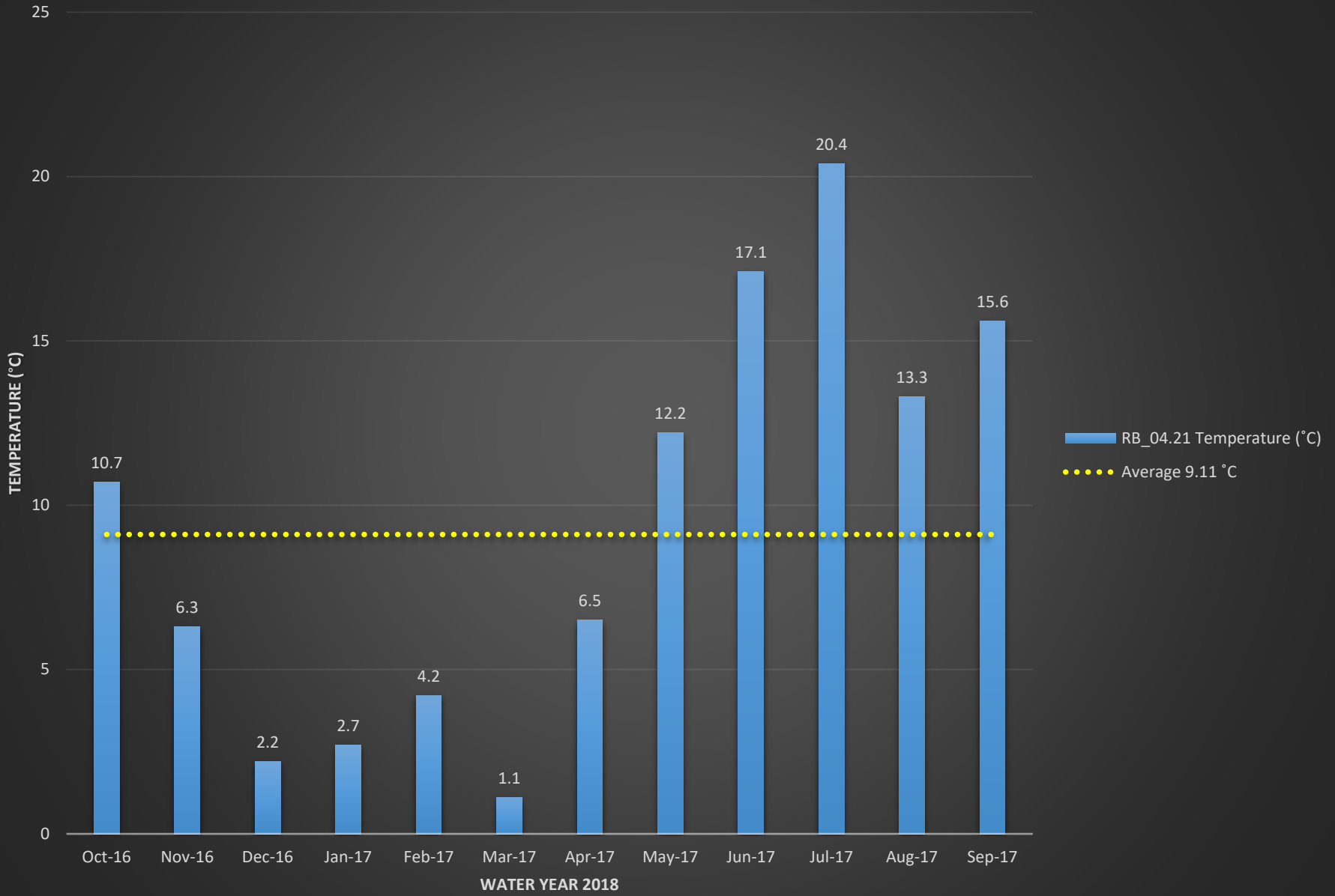
# RB\_01.65 Turbidity (NTU)



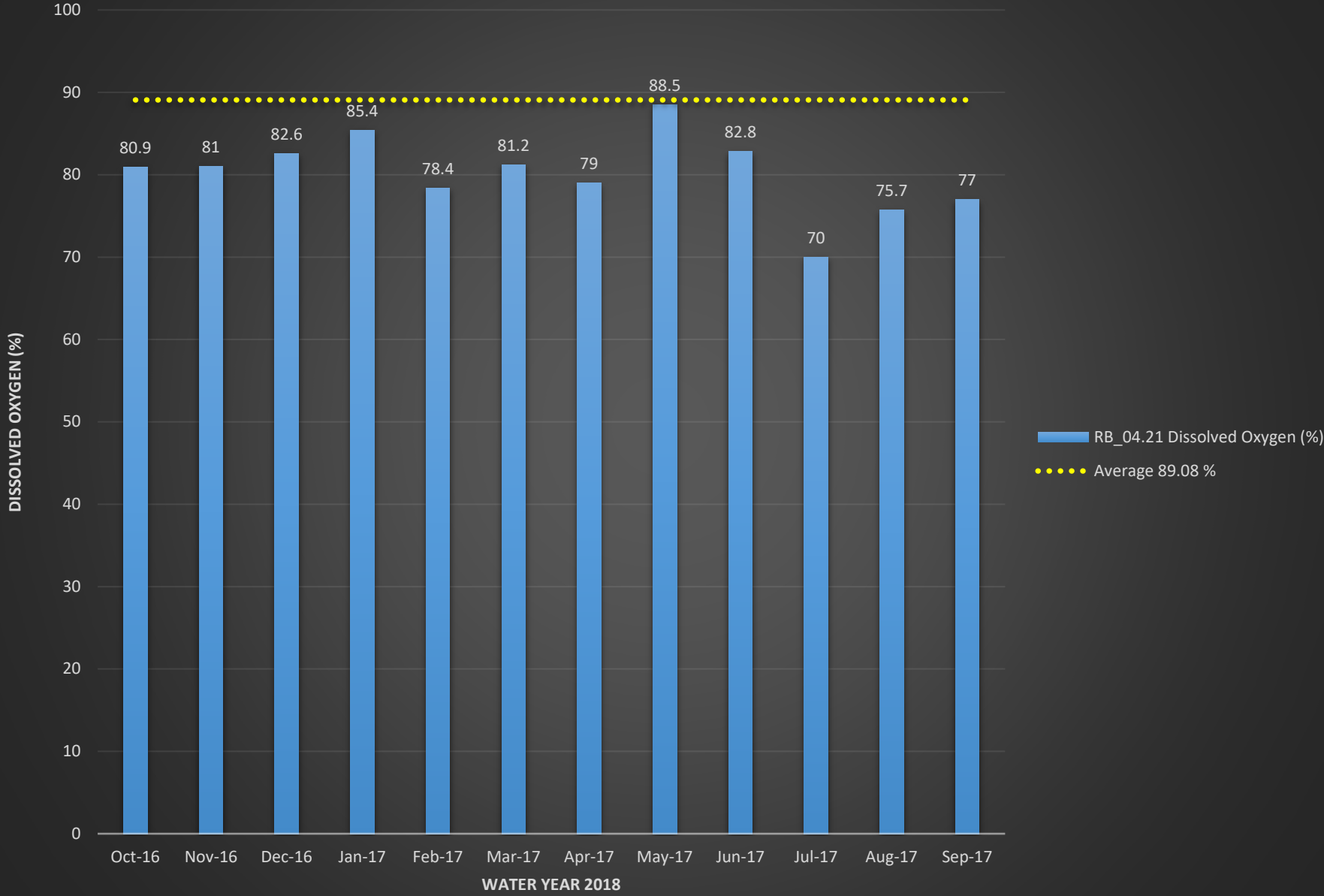
# RB\_04.21 E.coli (MPN)



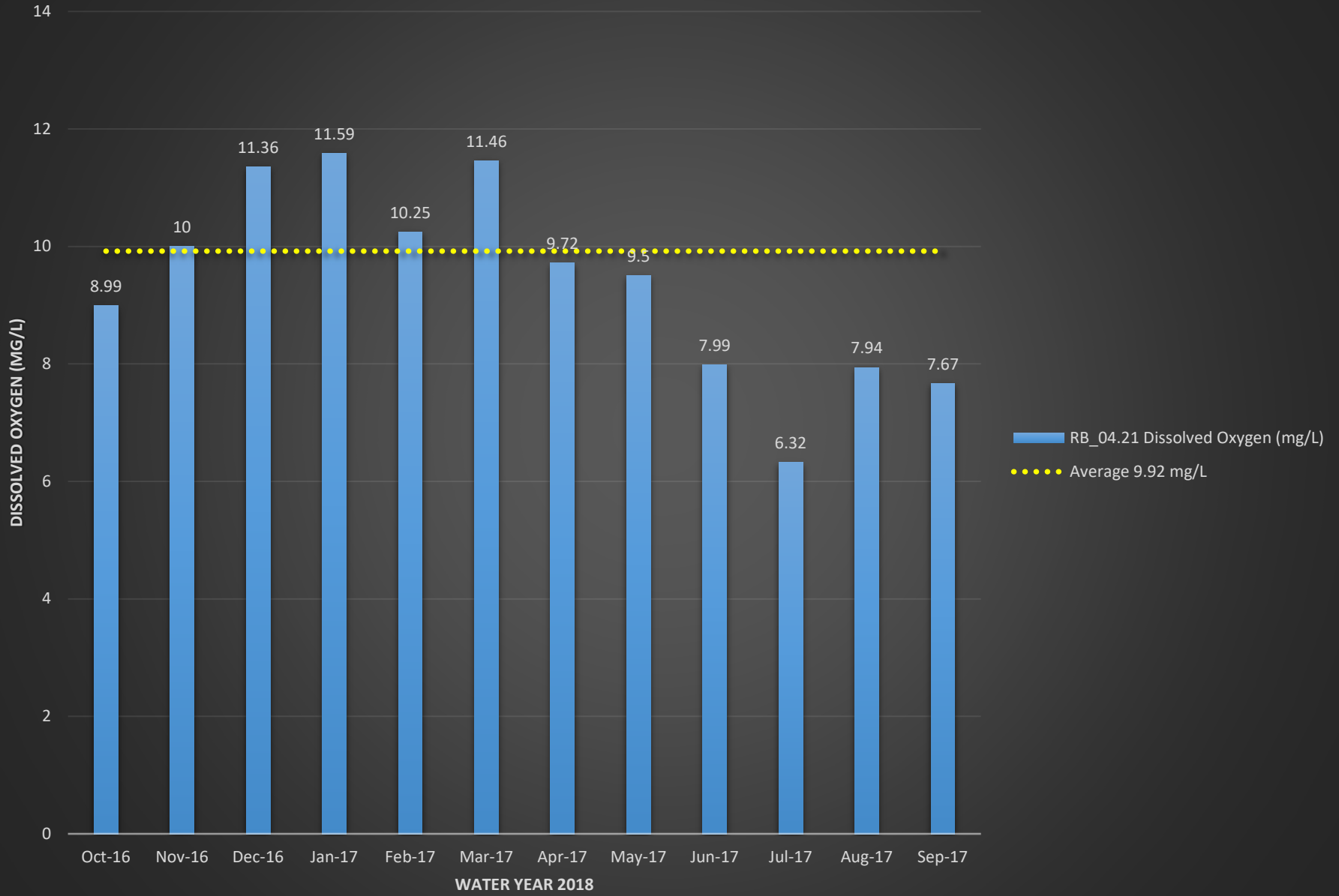
# RB\_04.21 Temperature (°C)



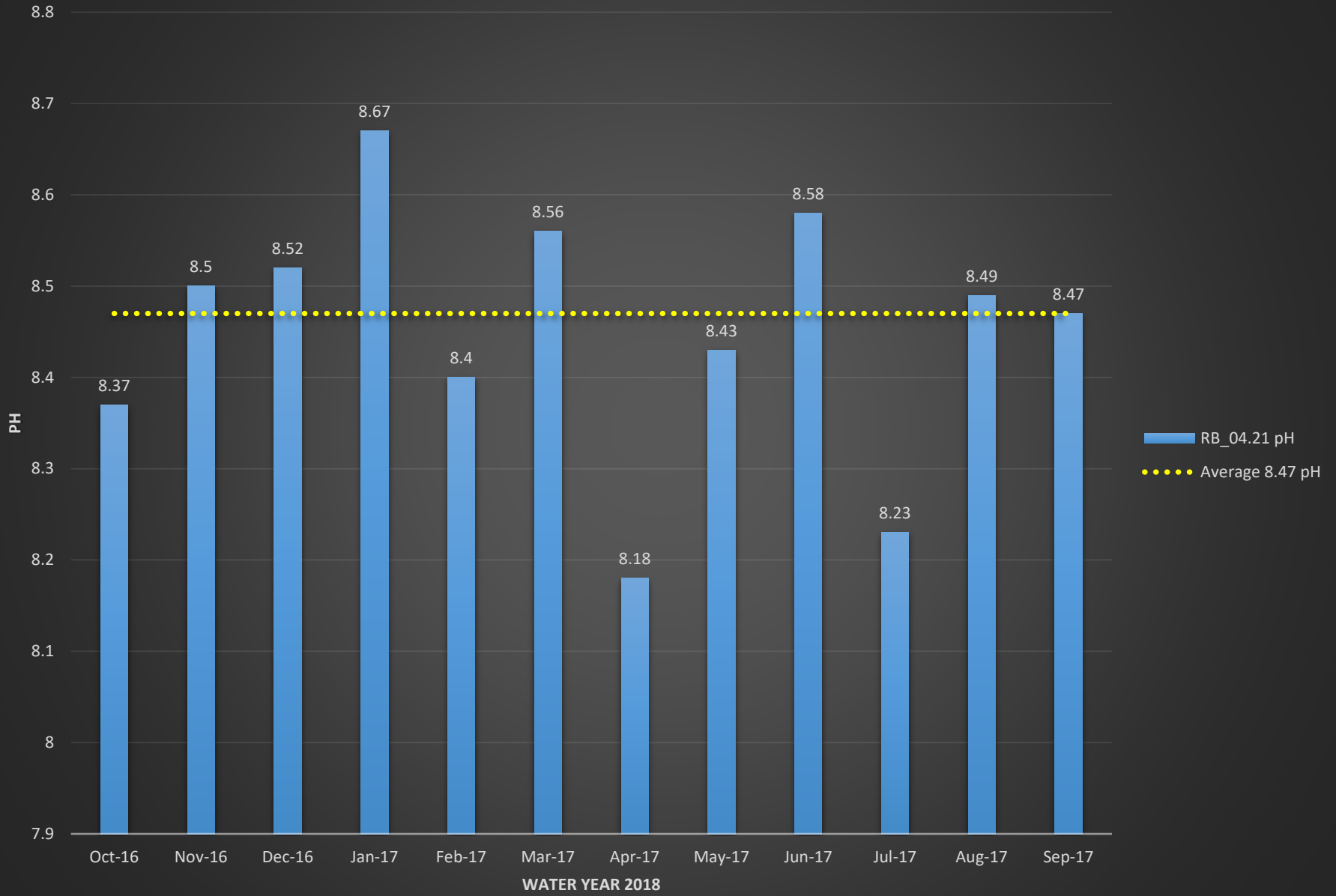
# RB\_04.21 Dissolved Oxygen (%)



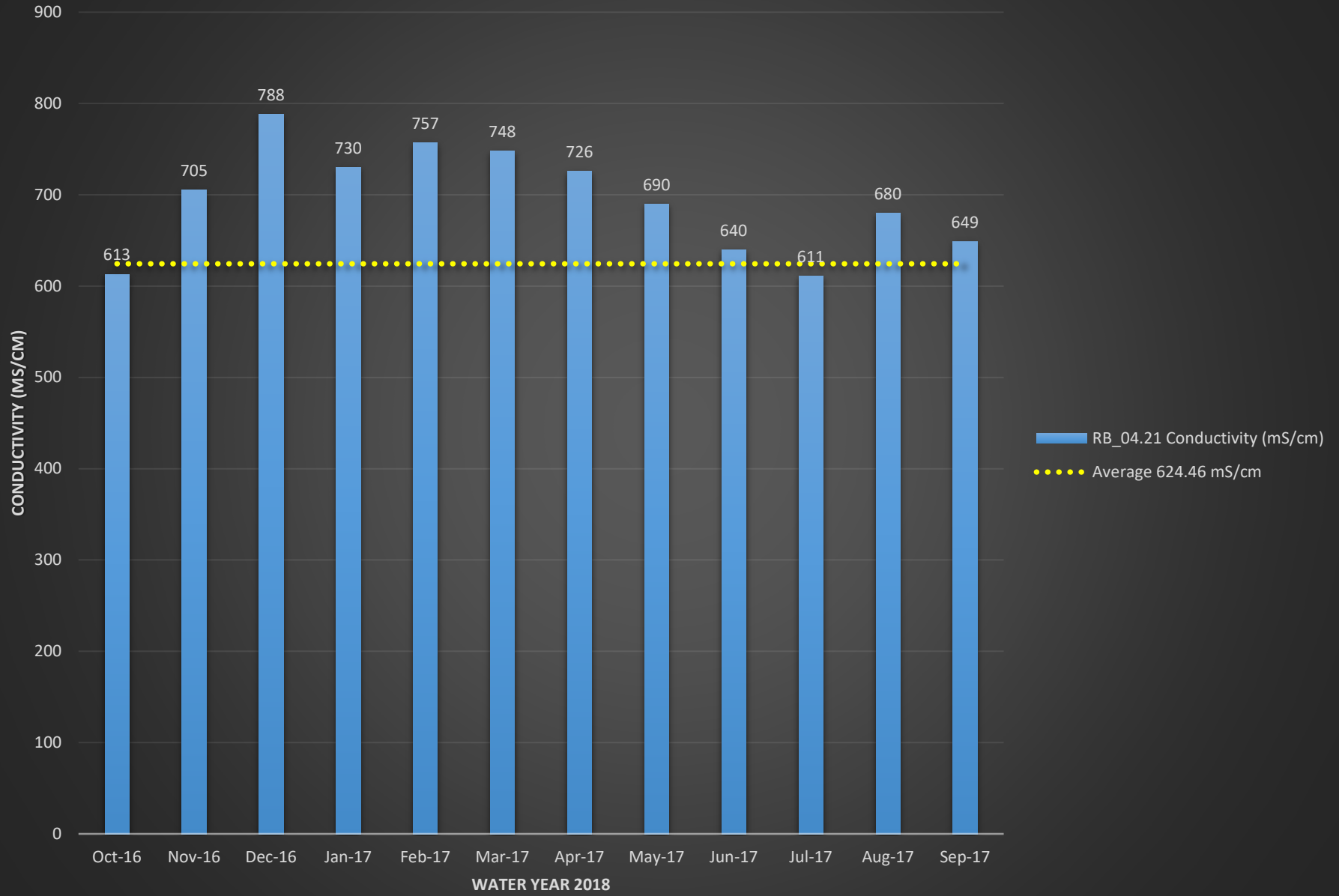
# RB\_04.21 Dissolved Oxygen (mg/L)



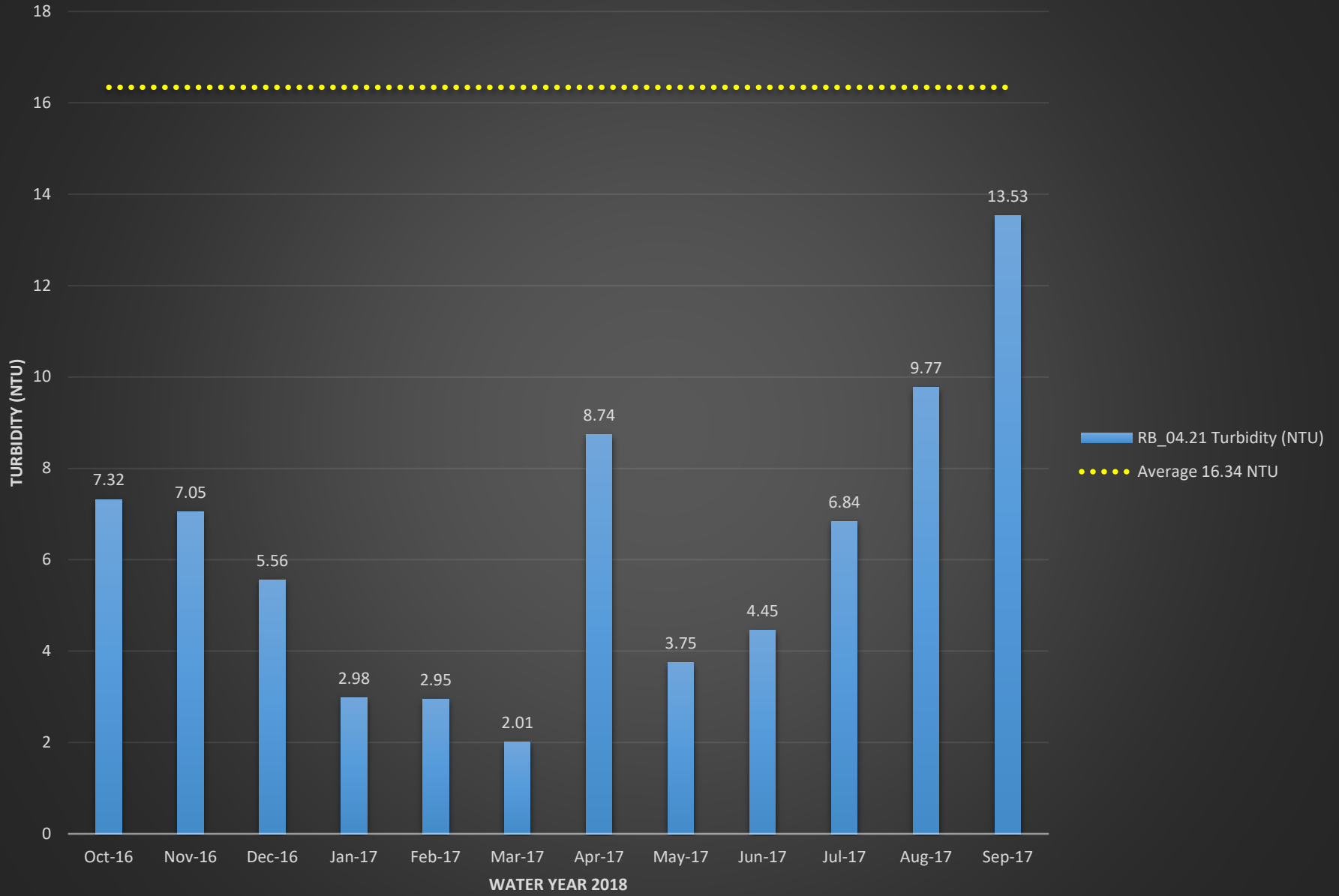
# RB\_04.21 pH



# RB\_04.21 Conductivity (mS/cm)



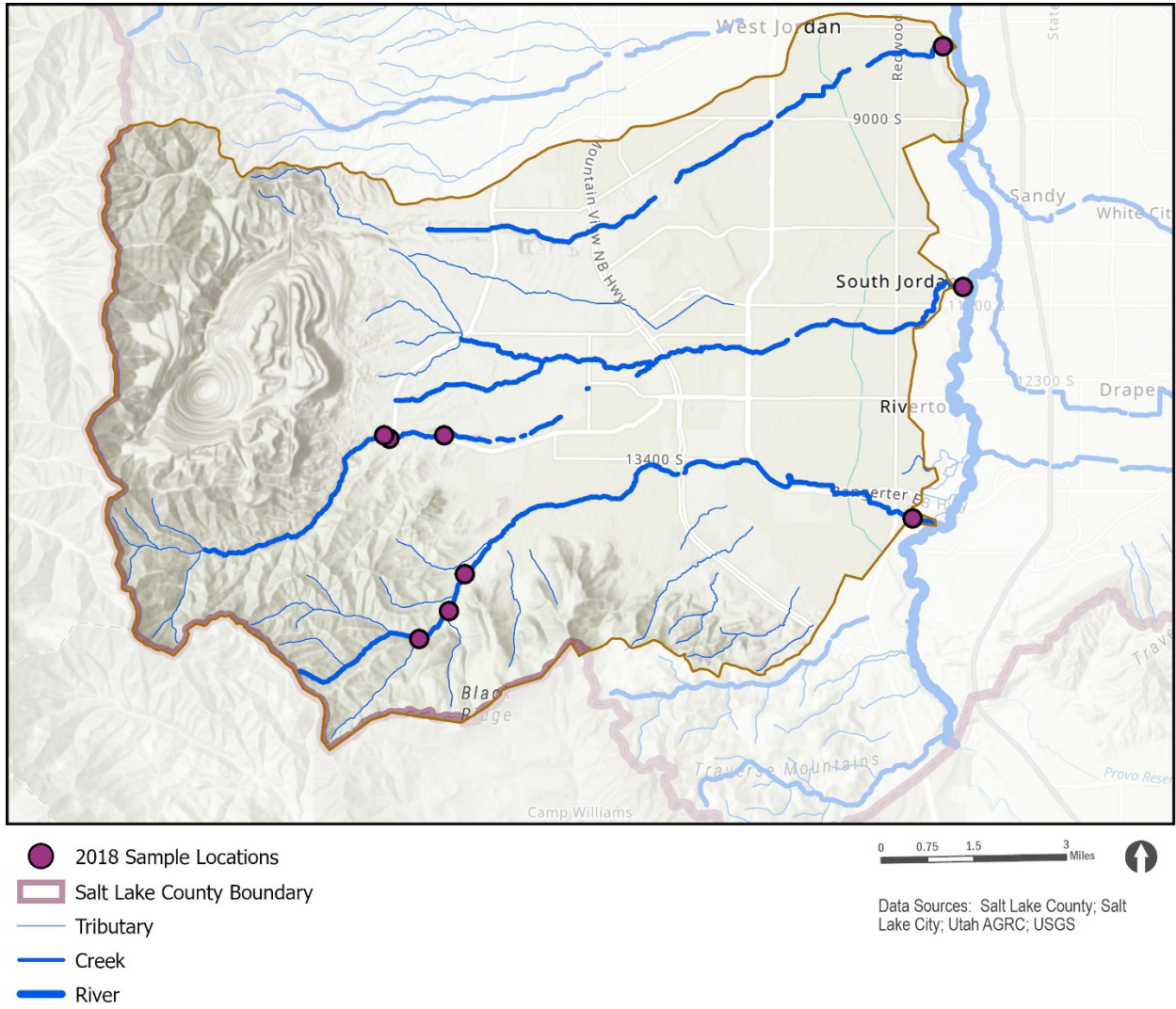
# RB\_04.21 Turbidity (NTU)



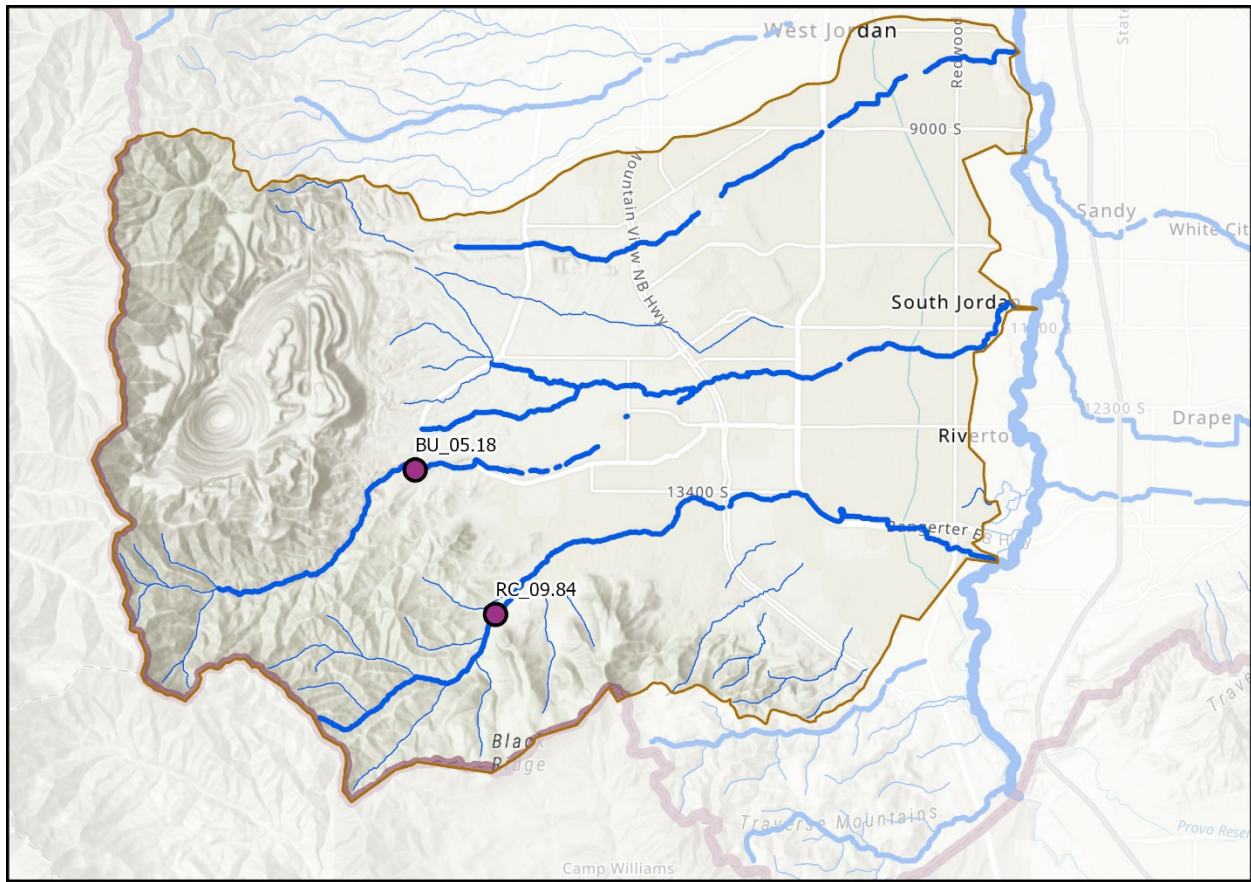


# WESTSIDE TRIBUTARIES—ROSE CREEK, MIDAS CREEK, AND BINGHAM CREEK SUBWATERSHEDS

Subwatershed Map with All Sample Sites



# Subwatershed Map with Macroinvertebrate Sample Sites

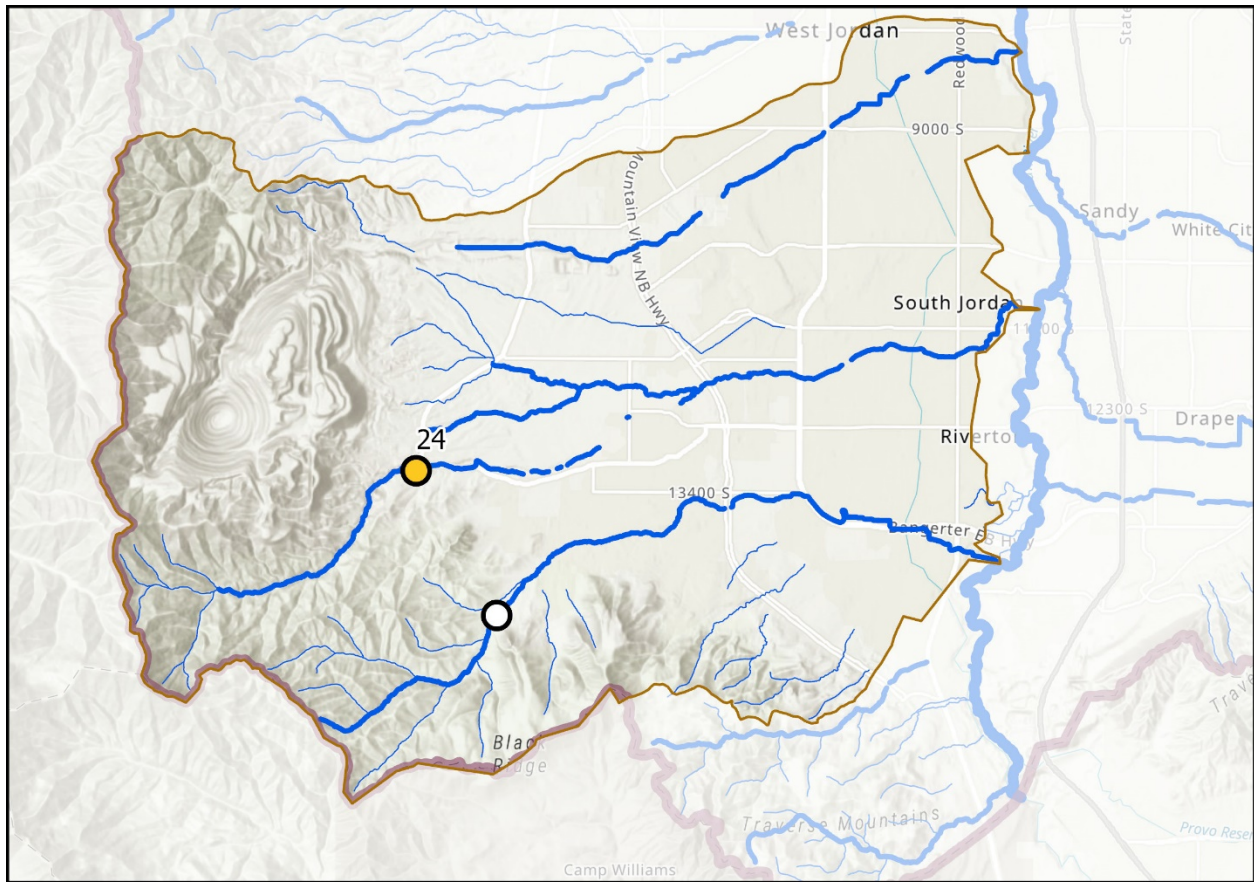


- 2018 Macroinvertebrate Sample Locations
- Tributary
- Creek
- River
- Salt Lake County Boundary



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

# Macroinvertebrate Karr-BIBI Results

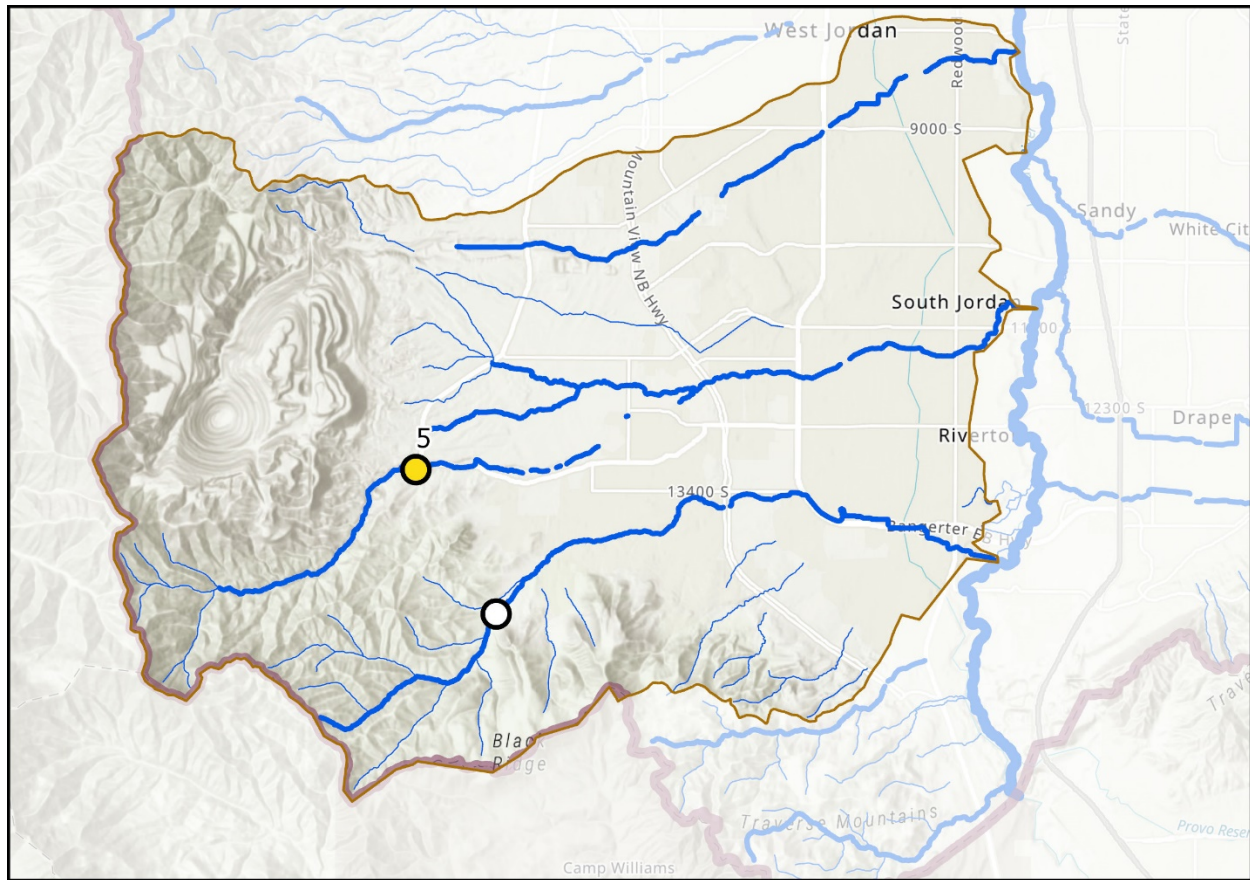


2018 Macroinvertebrate Karr BIBI		≤28	No Sample Salt Lake County Boundary Tributary Creek River	0 0.75 1.5 3 Miles
		≤32		
		≤10		
		≤12		
		≤20		
		≤24		
		≤36		
		≤40		
		≤44		
		≤48		

Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS



# Macroinvertebrate Biological Condition Gradient (BCG) Results



2018 Macroinvertebrate  
Biological Condition Gradient

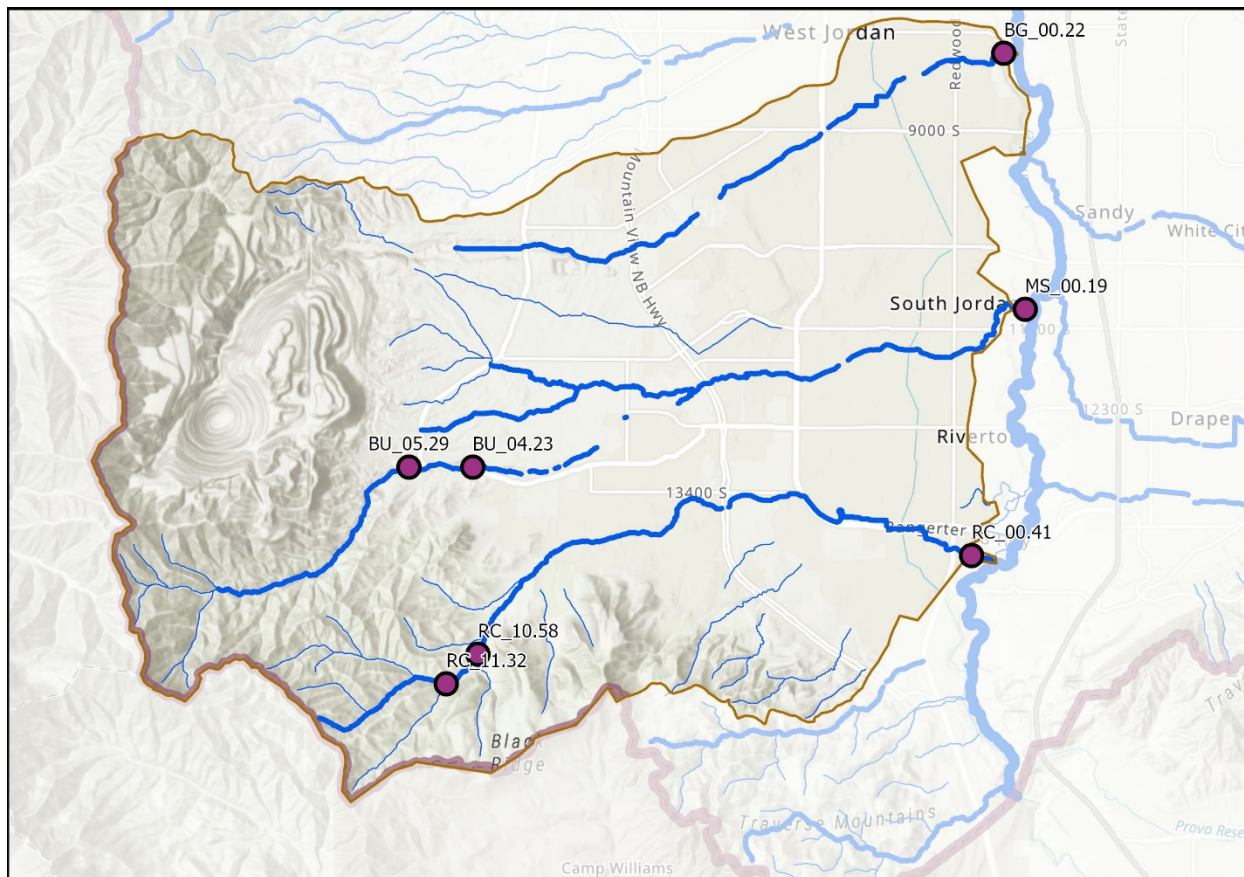
- |  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

- |  |                           |
|--|---------------------------|
|  | No Sample                 |
|  | Salt Lake County Boundary |
|  | Tributary                 |
|  | Creek                     |
|  | River                     |



Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

## Subwatershed Map with Bacteria Sample Sites



- 2018 Bacteria Sample Locations
- Salt Lake County Boundary
- Tributary
- Creek
- River

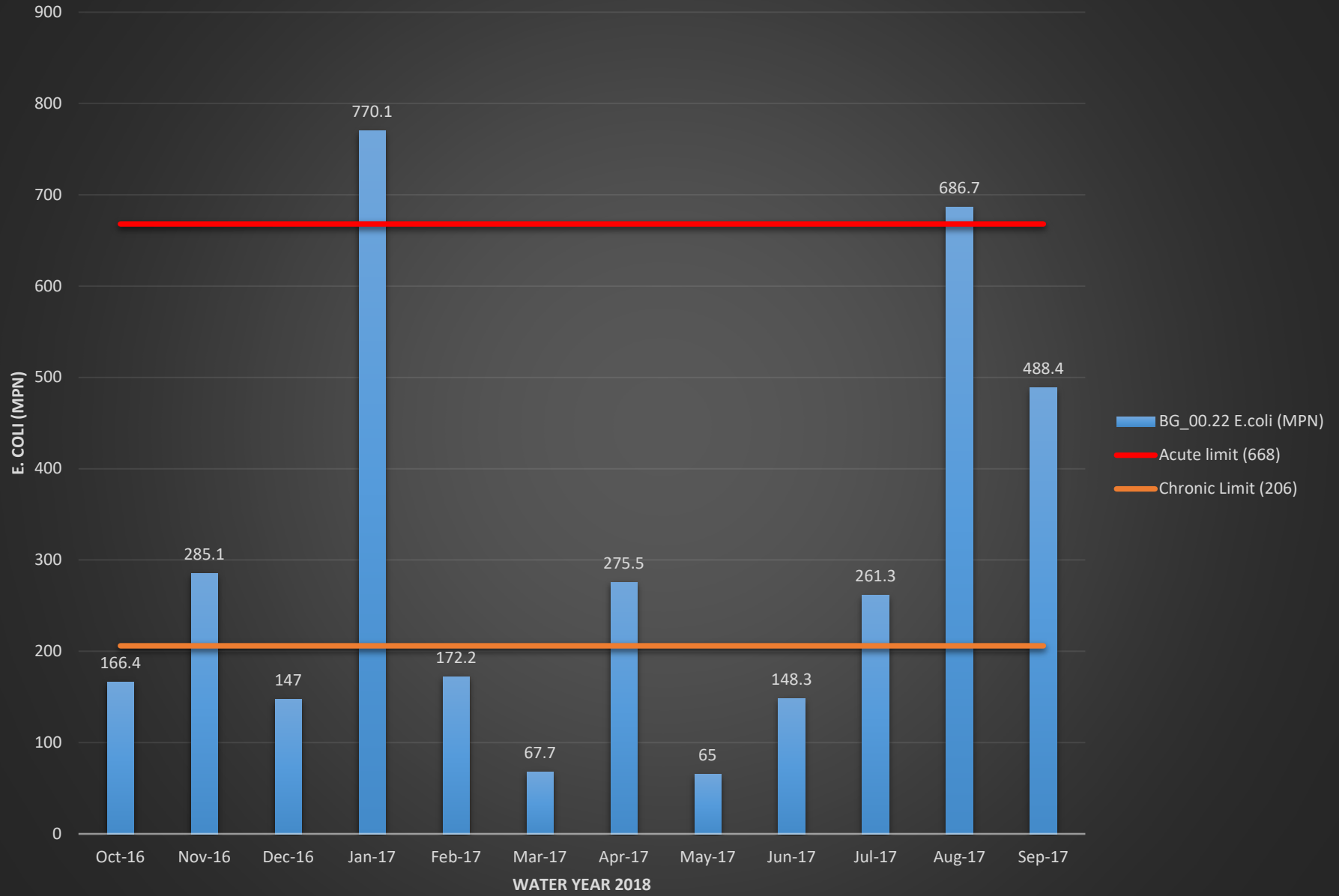


Data Sources: Salt Lake County; Salt Lake City; Utah AGRC; USGS

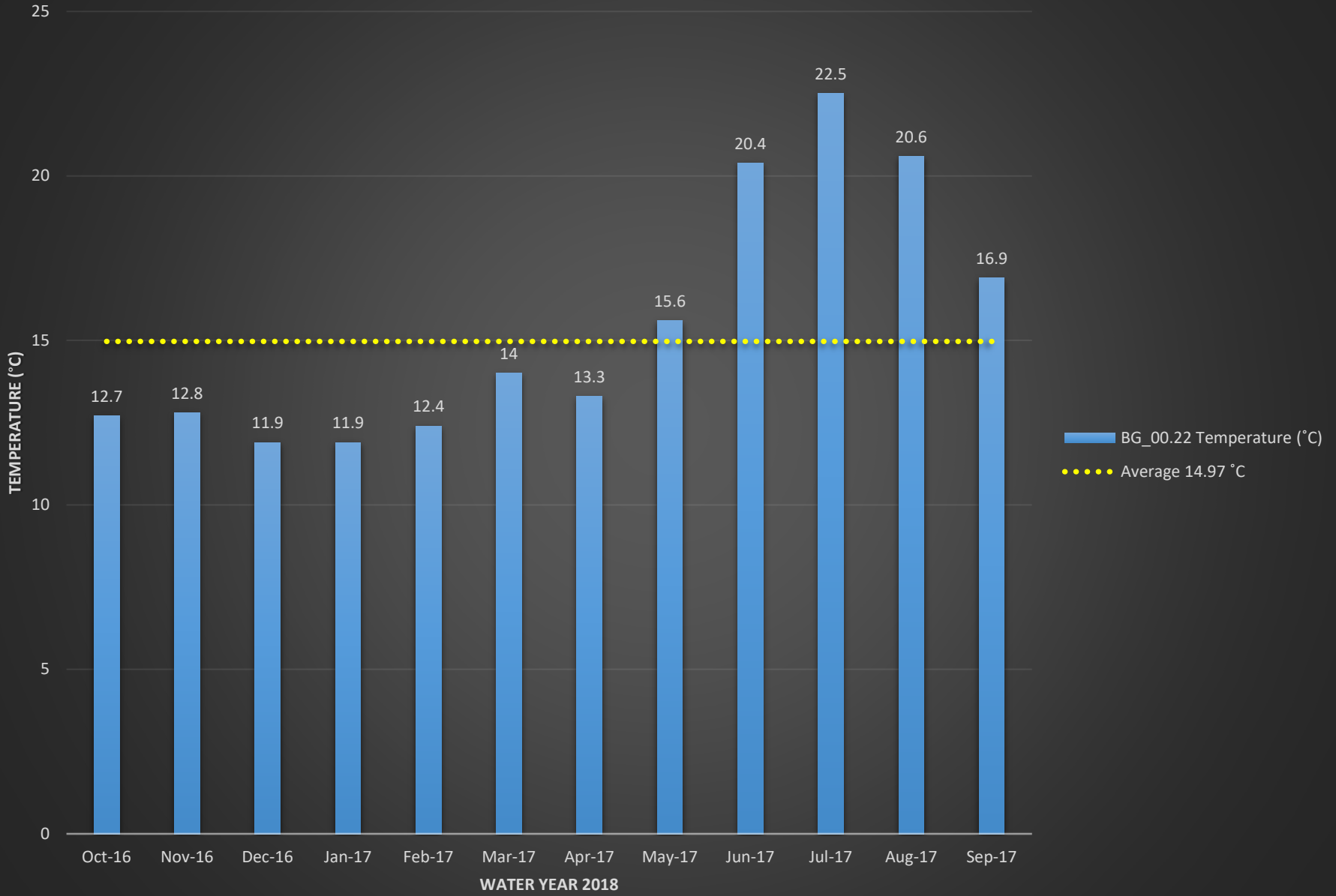
## *E. coli* & Field Parameter Graphs

Graphs begin on next page...

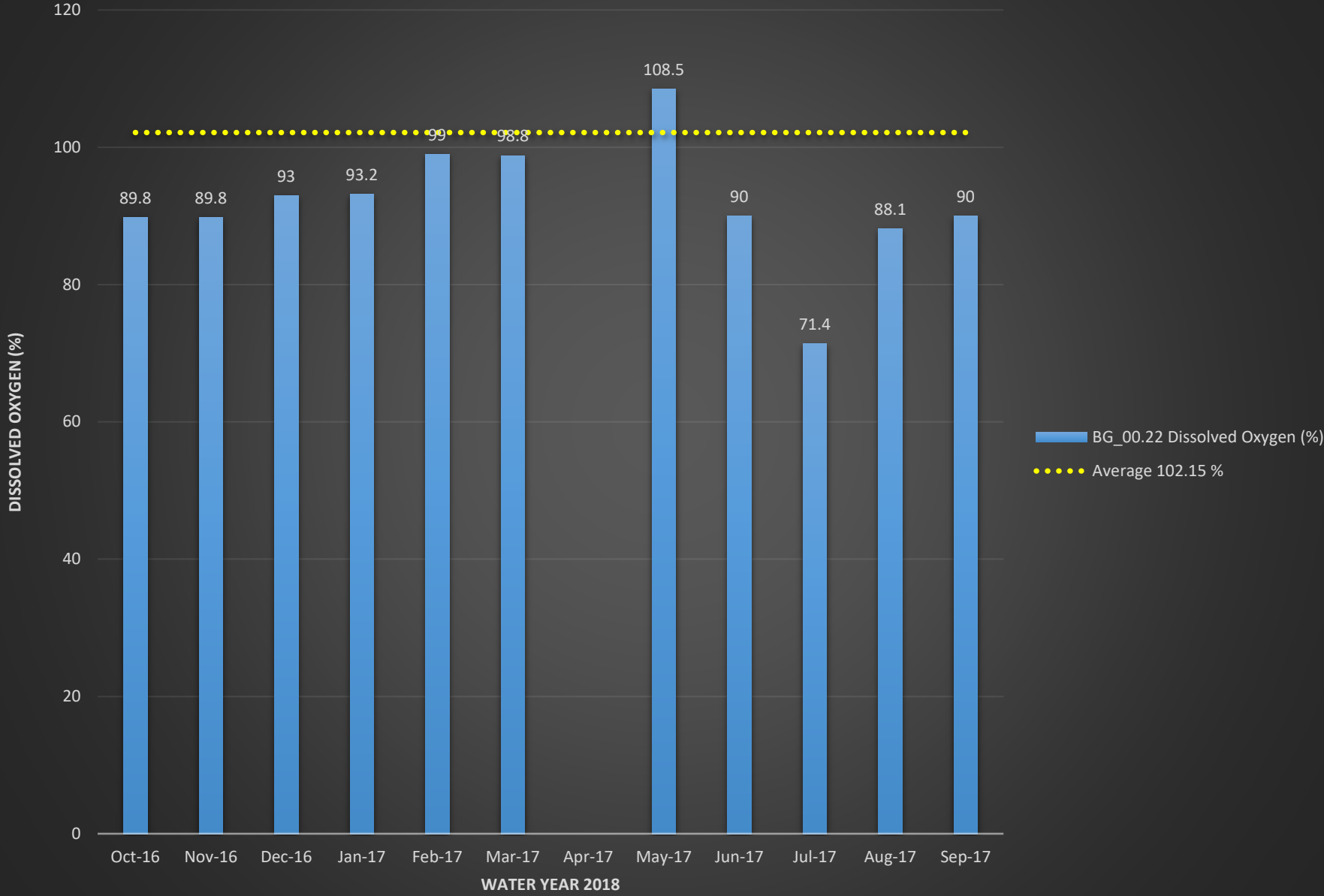
# BG\_00.22 E.coli (MPN)



# BG\_00.22 Temperature (°C)

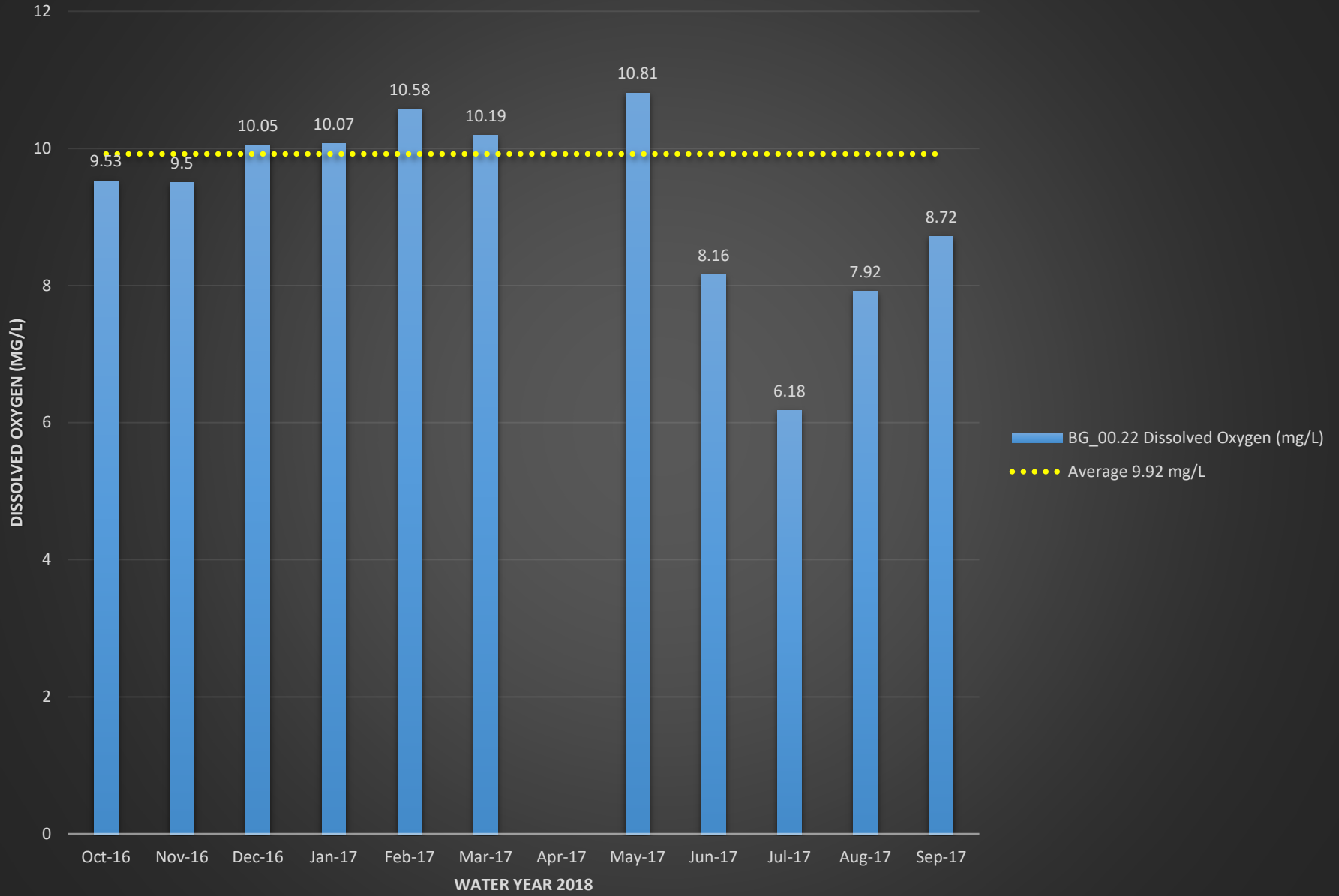


# BG\_00.22 Dissolved Oxygen (%)

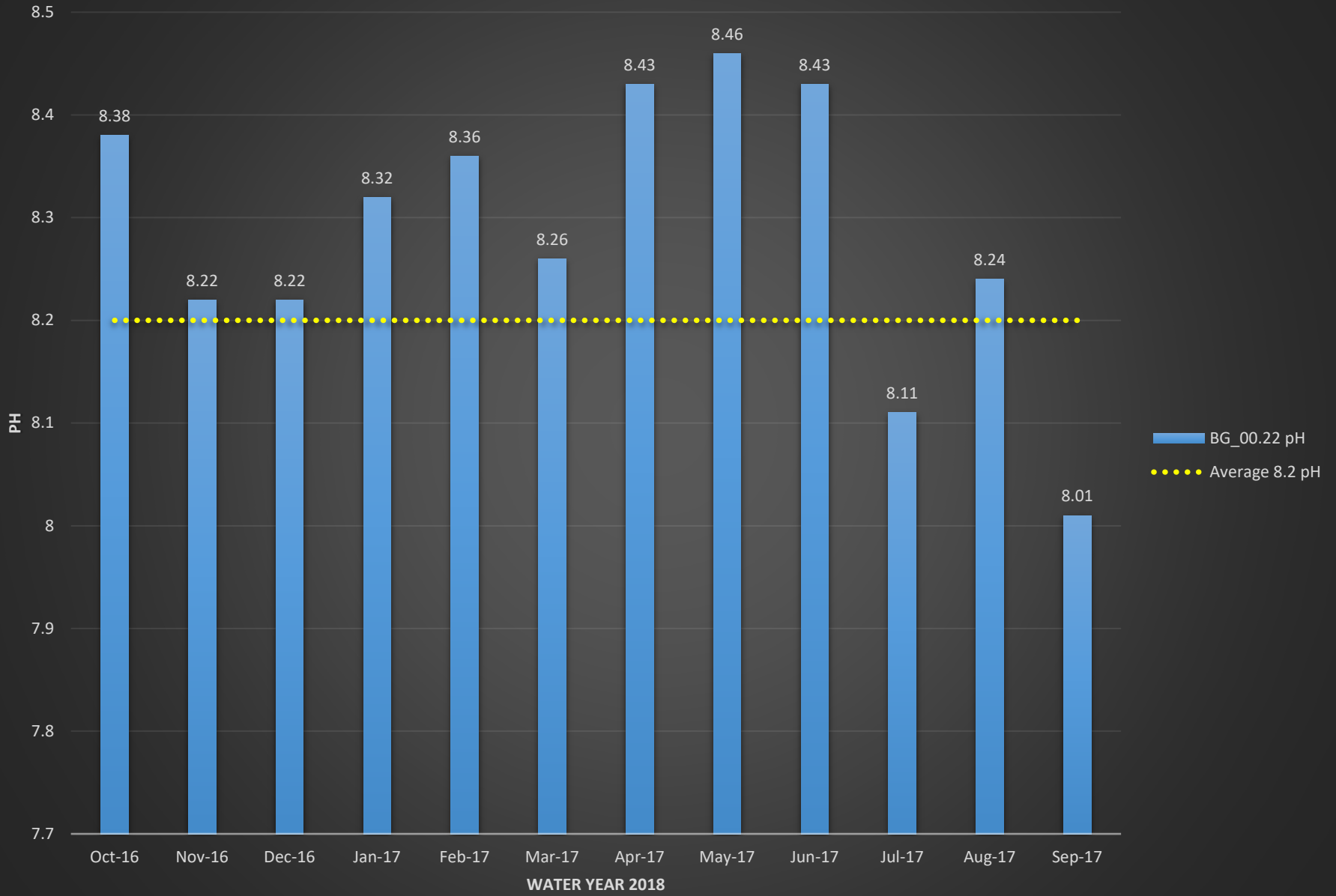




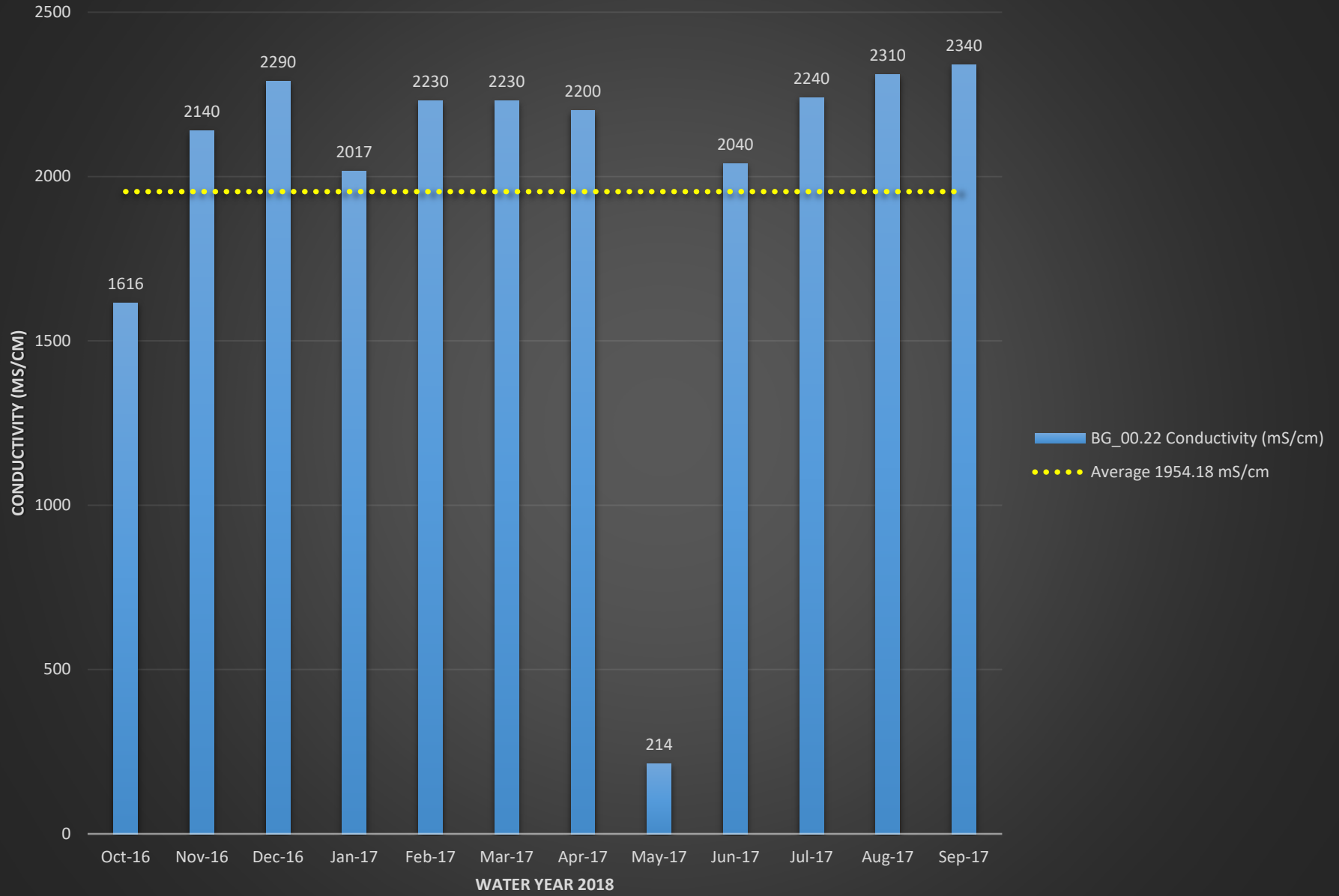
# BG\_00.22 Dissolved Oxygen (mg/L)



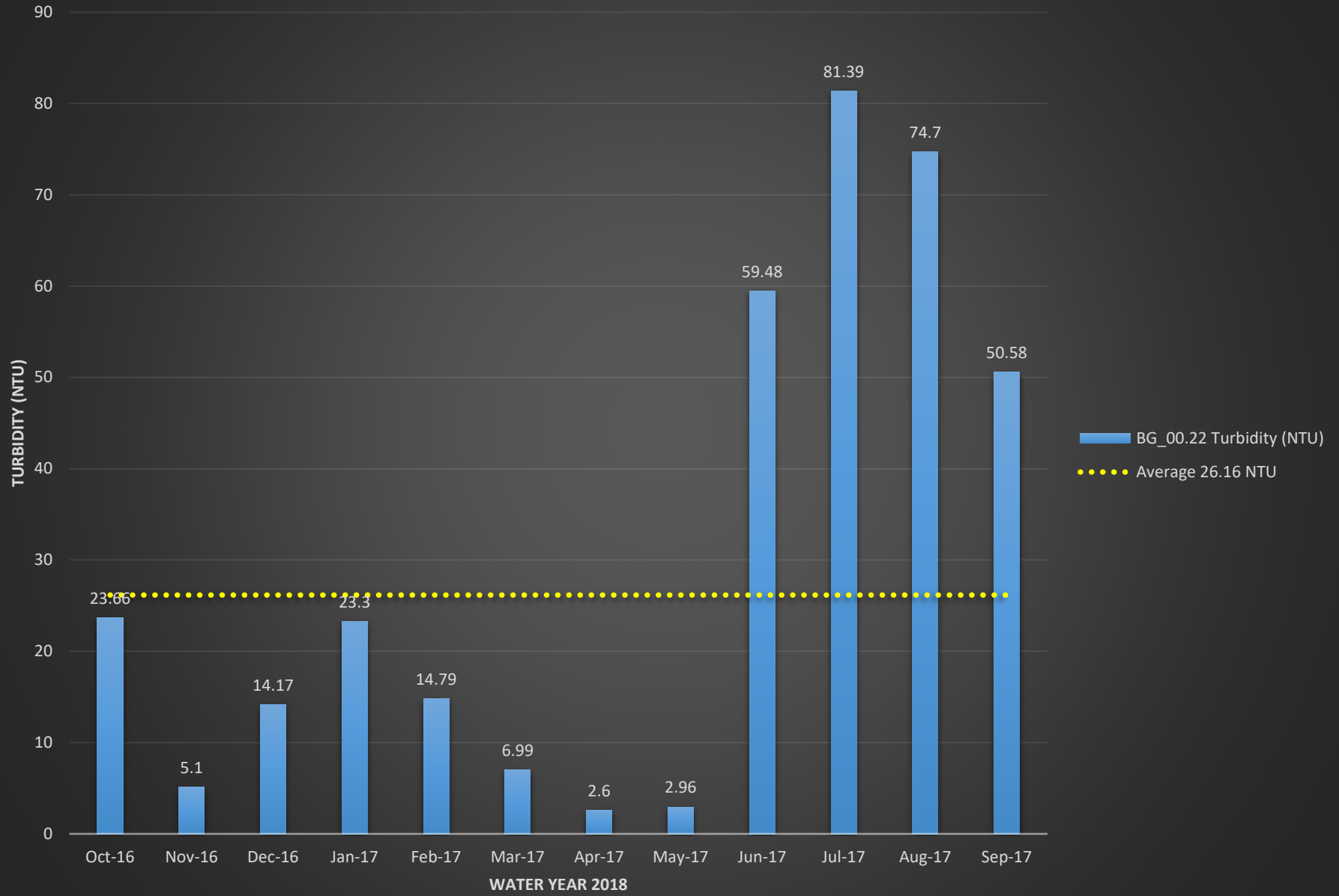
# BG\_00.22 pH



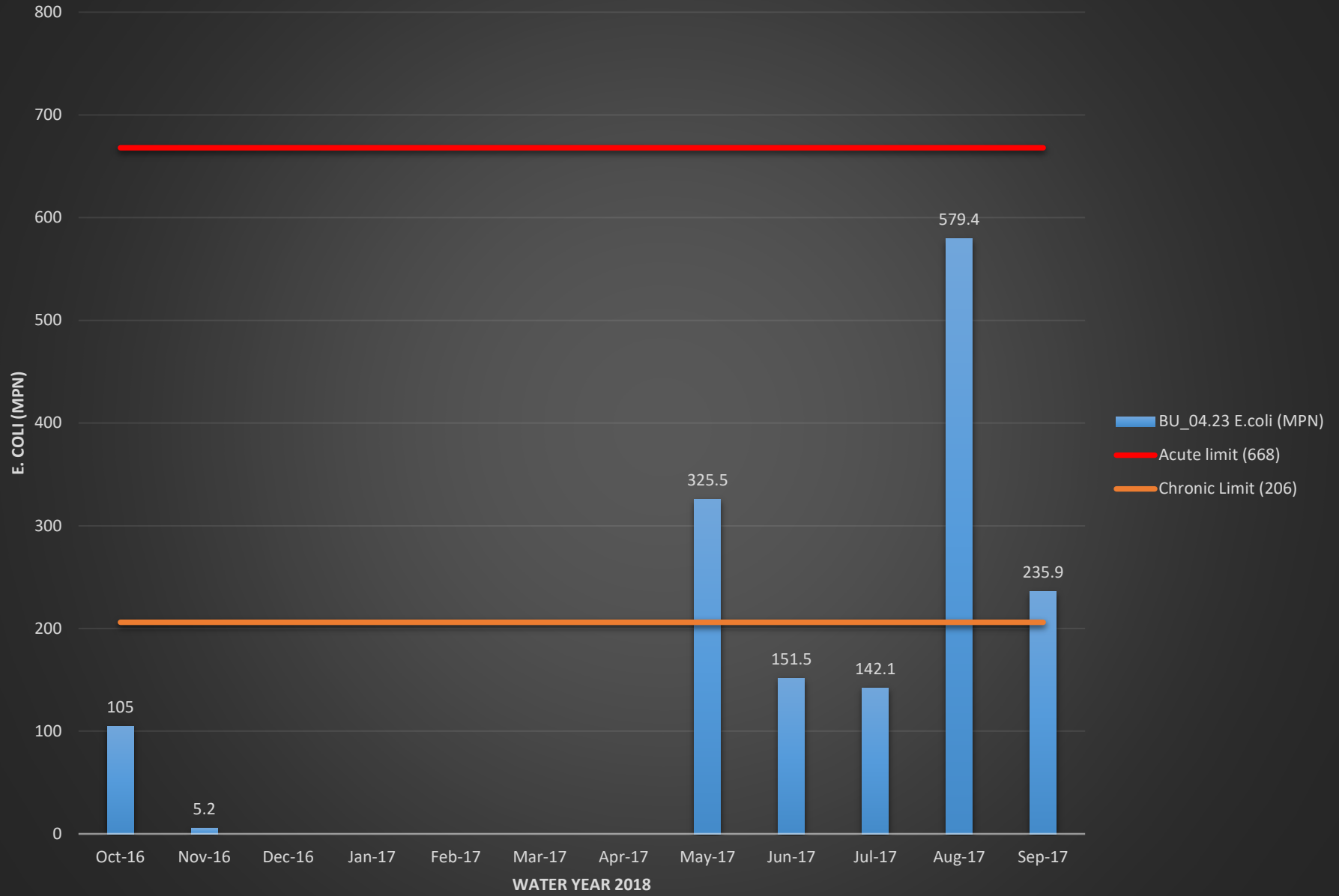
# BG\_00.22 Conductivity (mS/cm)



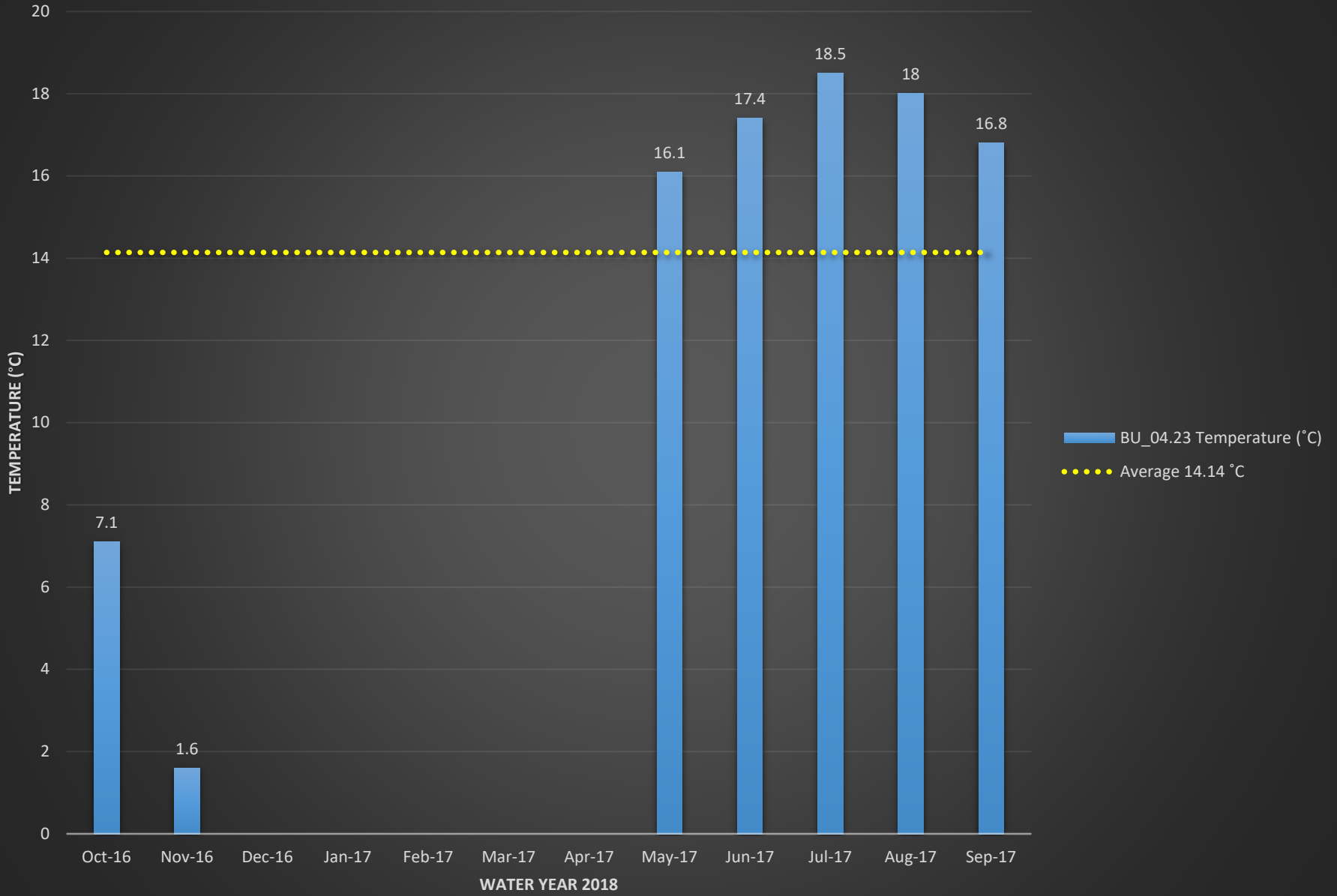
# BG\_00.22 Turbidity (NTU)



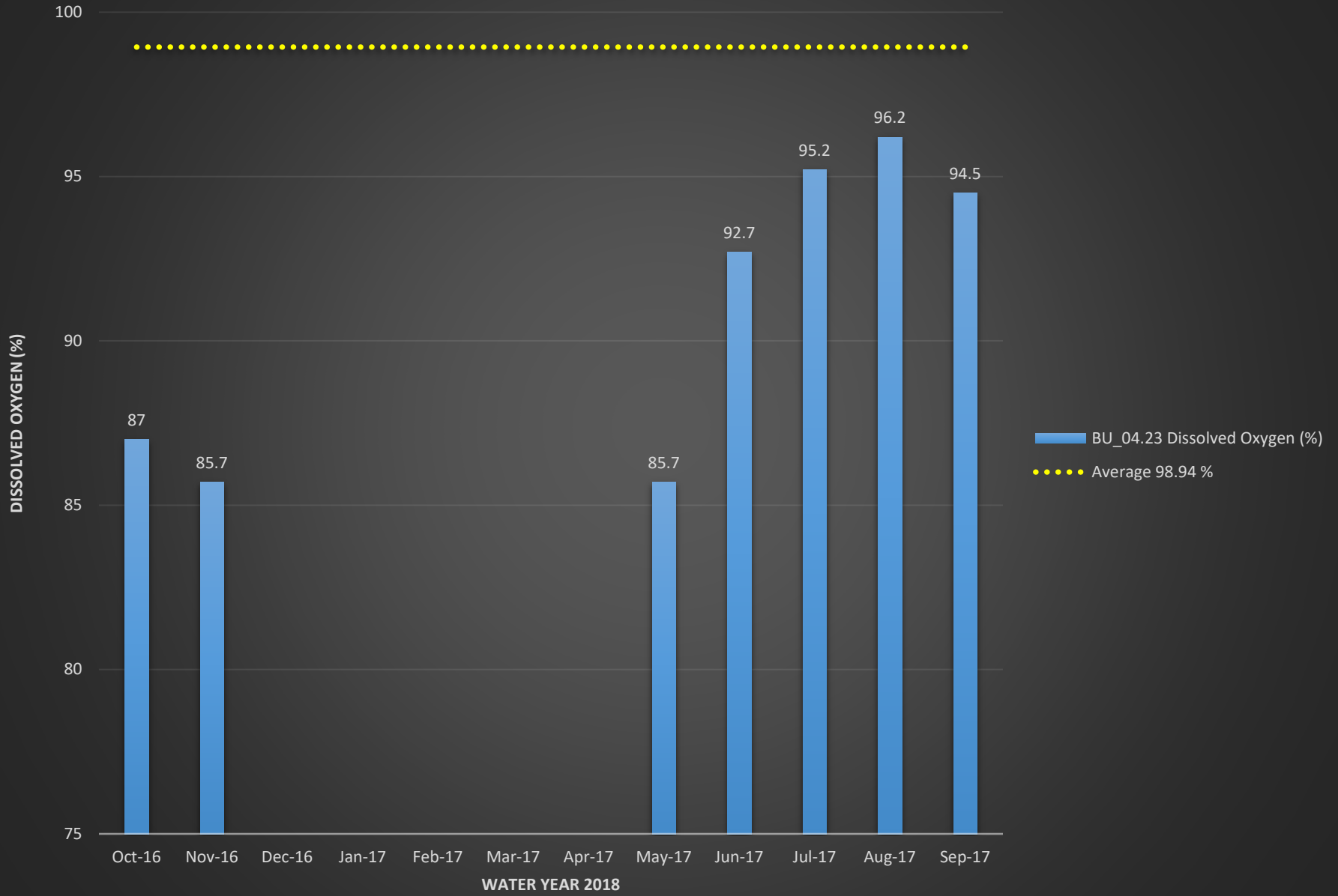
# BU\_04.23 E.coli (MPN)



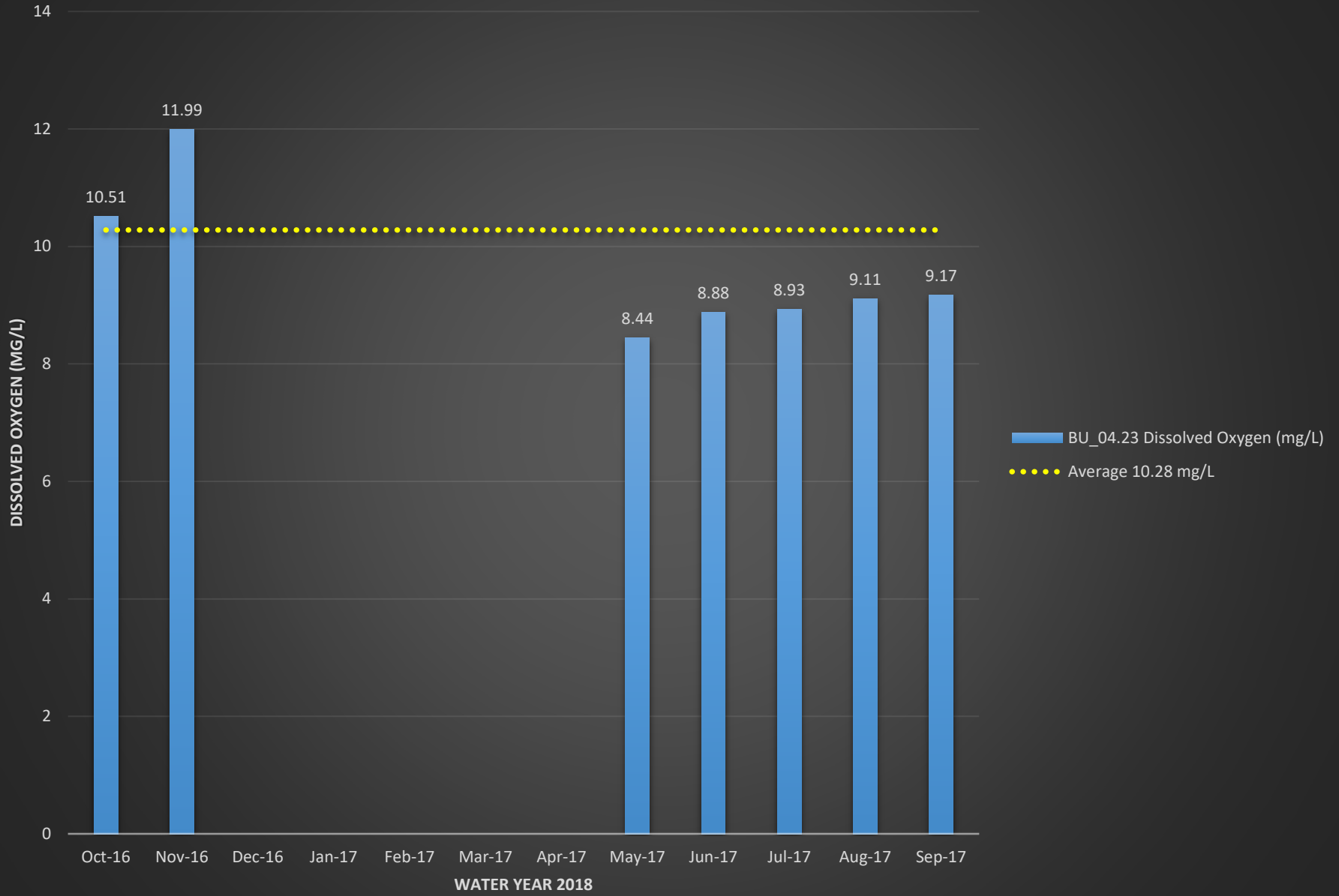
# BU\_04.23 Temperature (°C)



# BU\_04.23 Dissolved Oxygen (%)

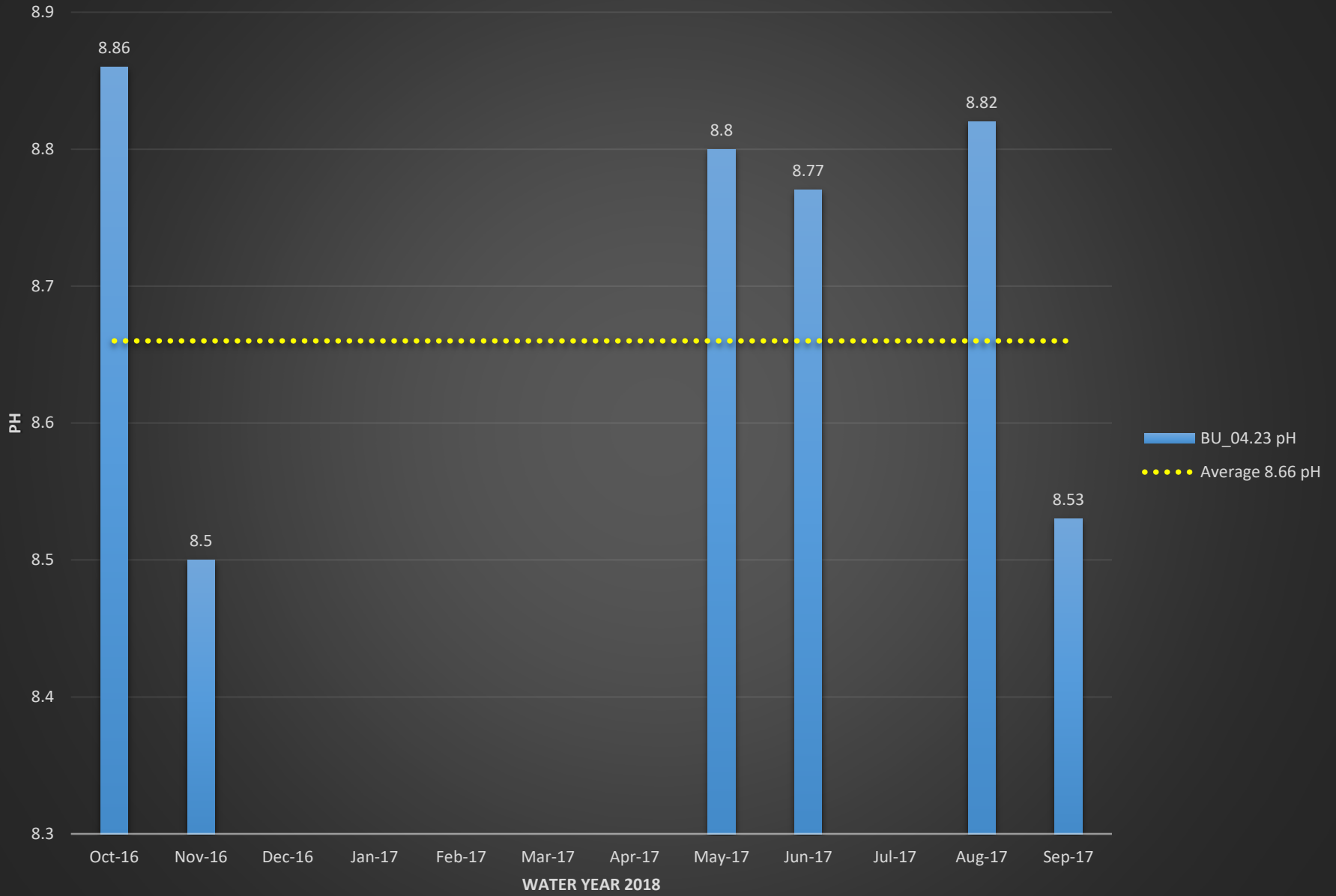


# BU\_04.23 Dissolved Oxygen (mg/L)

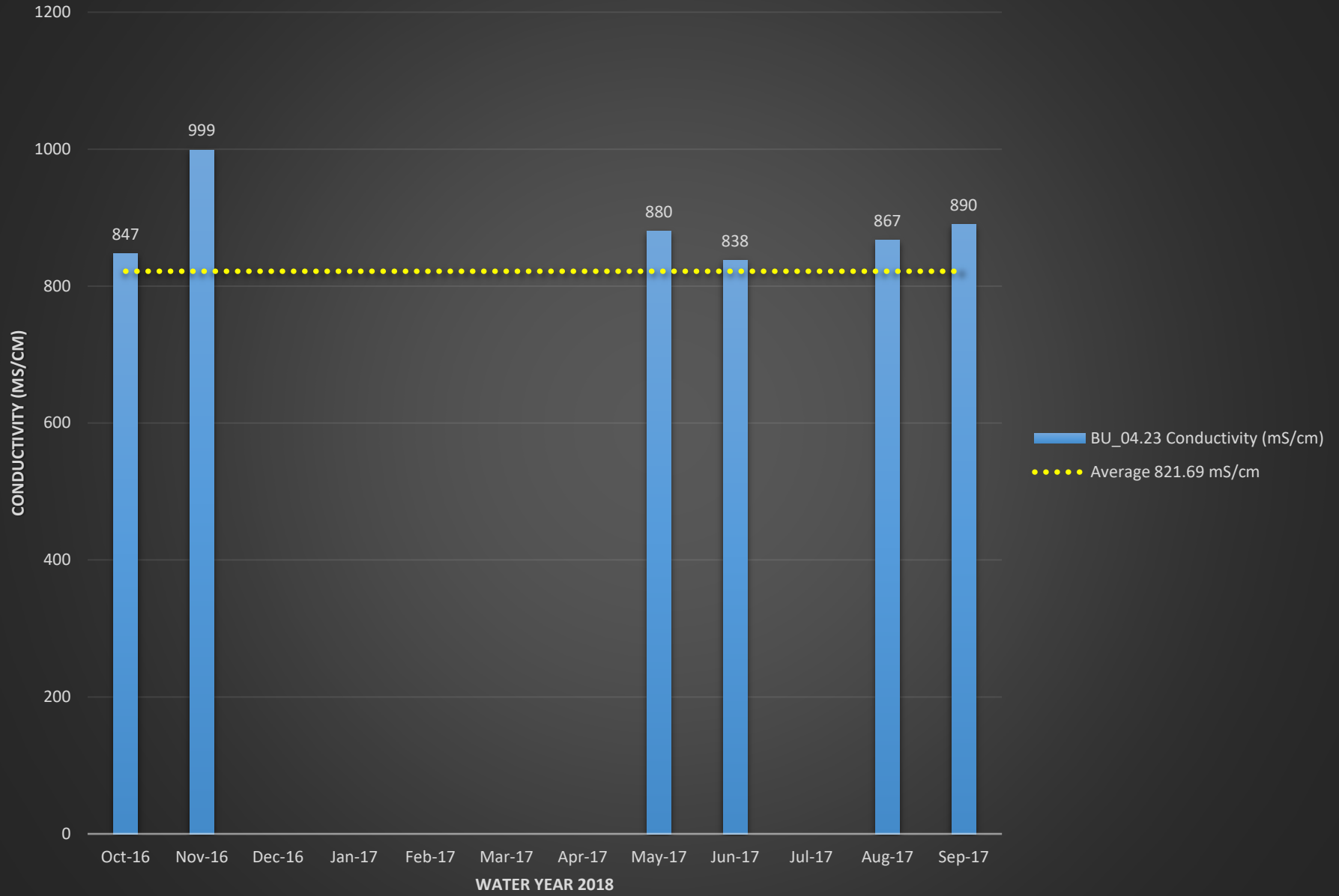




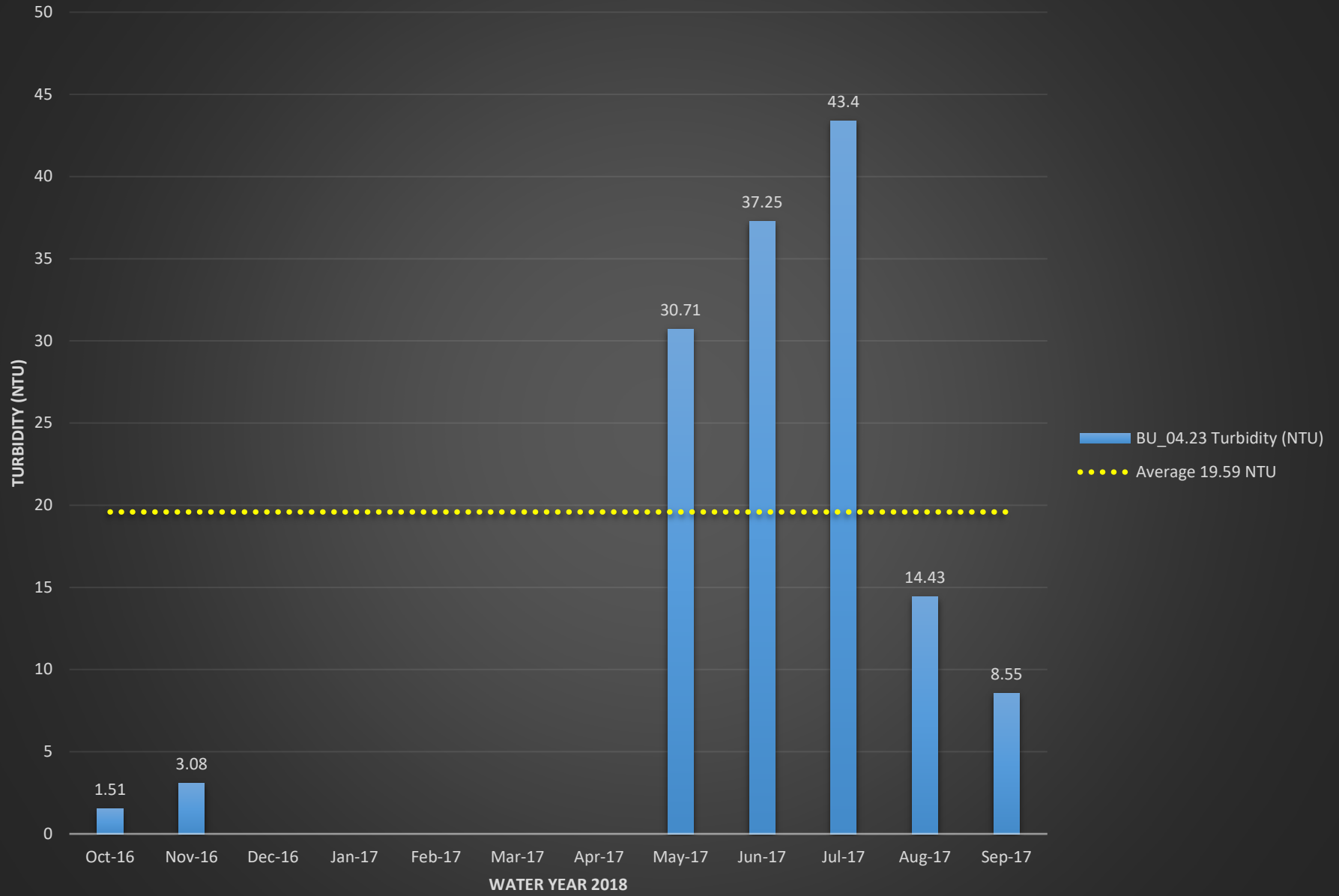
# BU\_04.23 pH



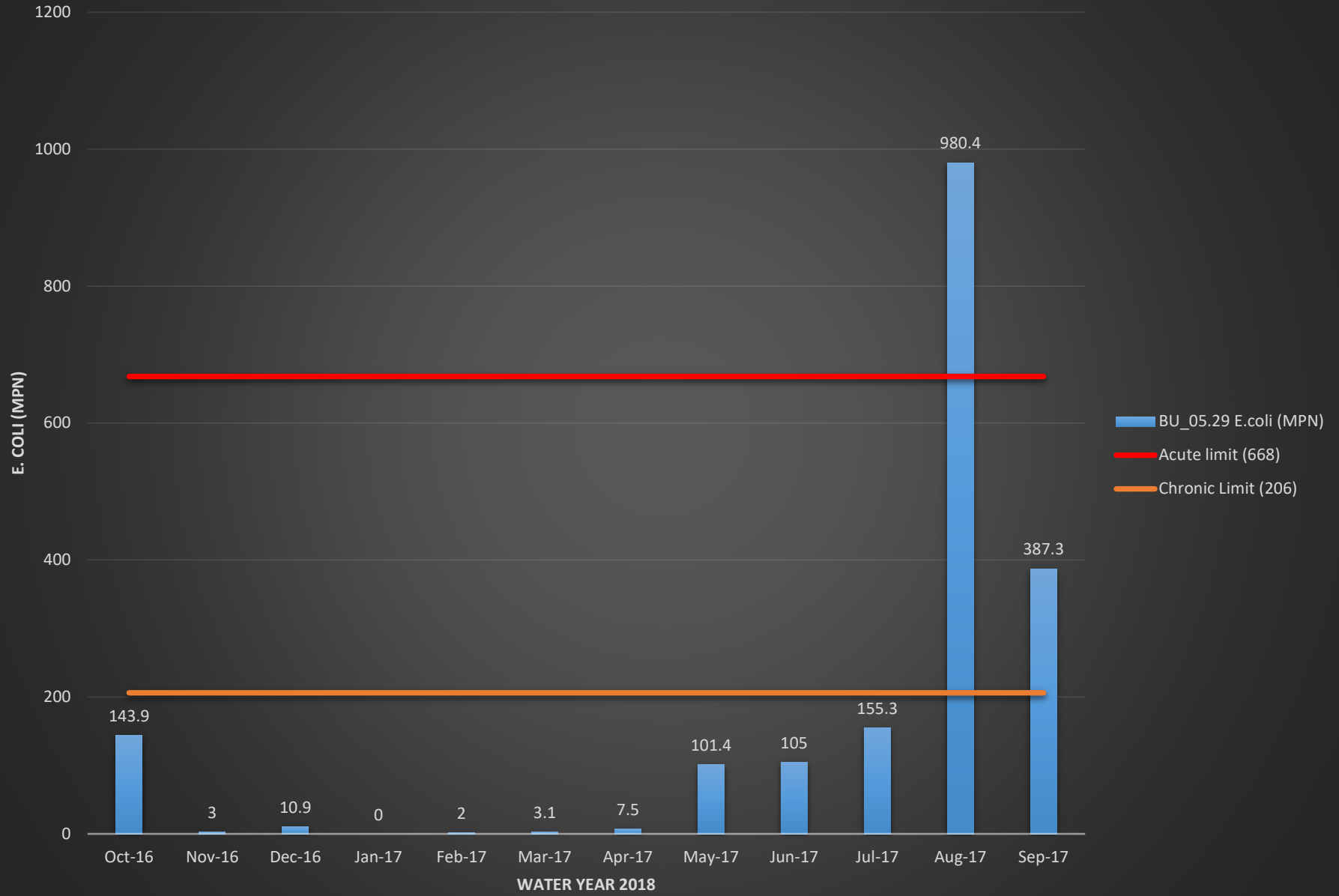
# BU\_04.23 Conductivity (mS/cm)



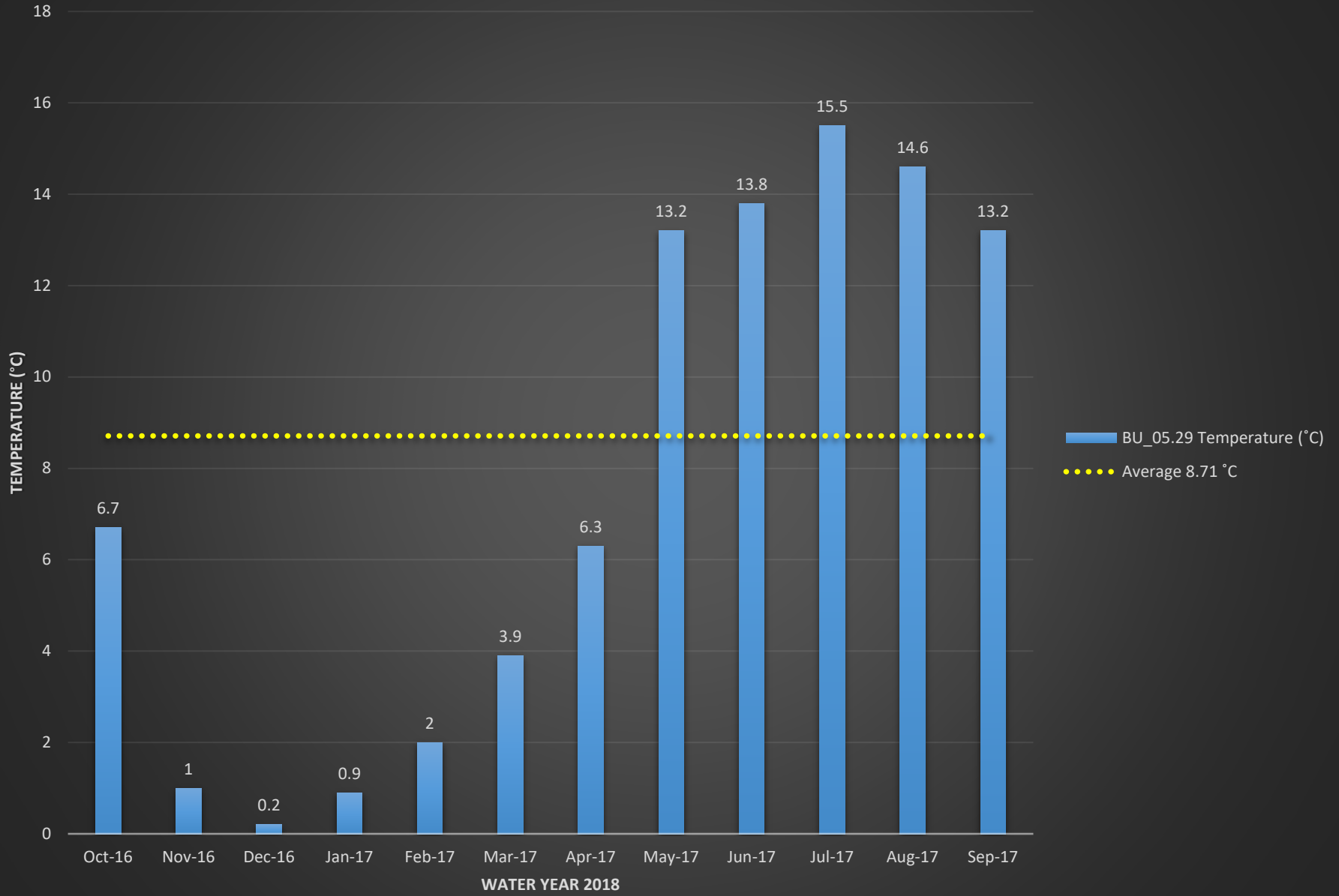
# BU\_04.23 Turbidity (NTU)



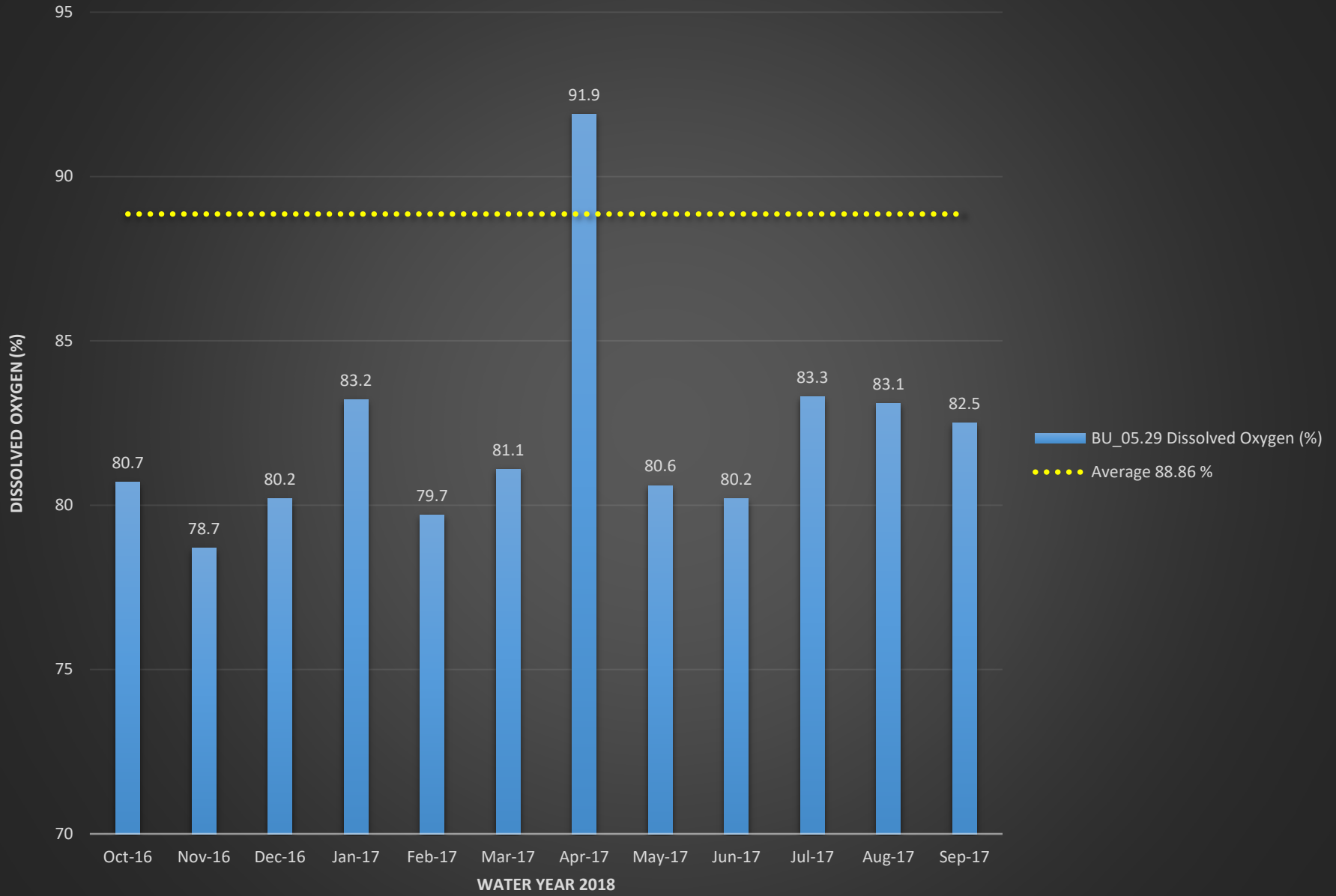
# BU\_05.29 E.coli (MPN)



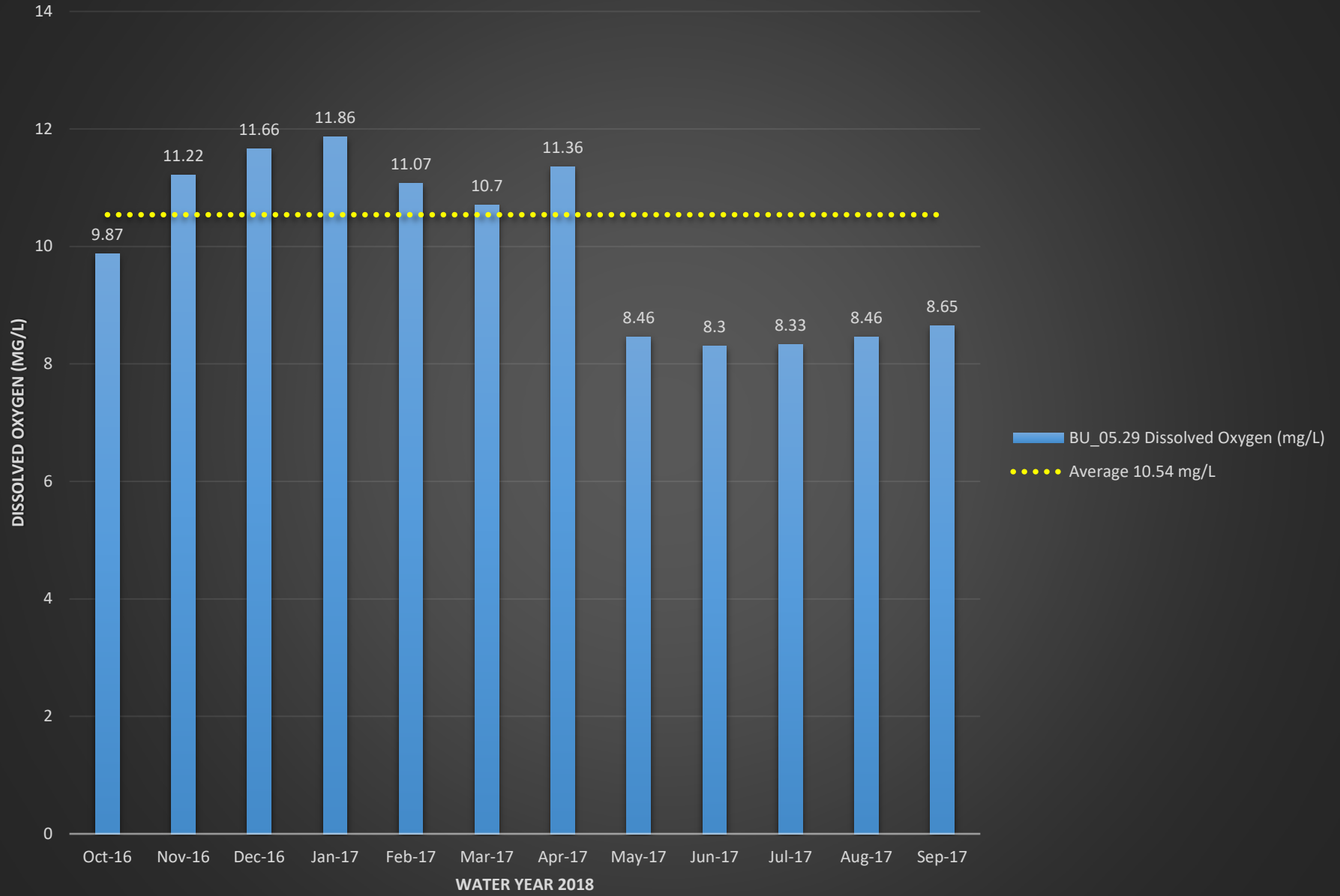
# BU\_05.29 Temperature (°C)



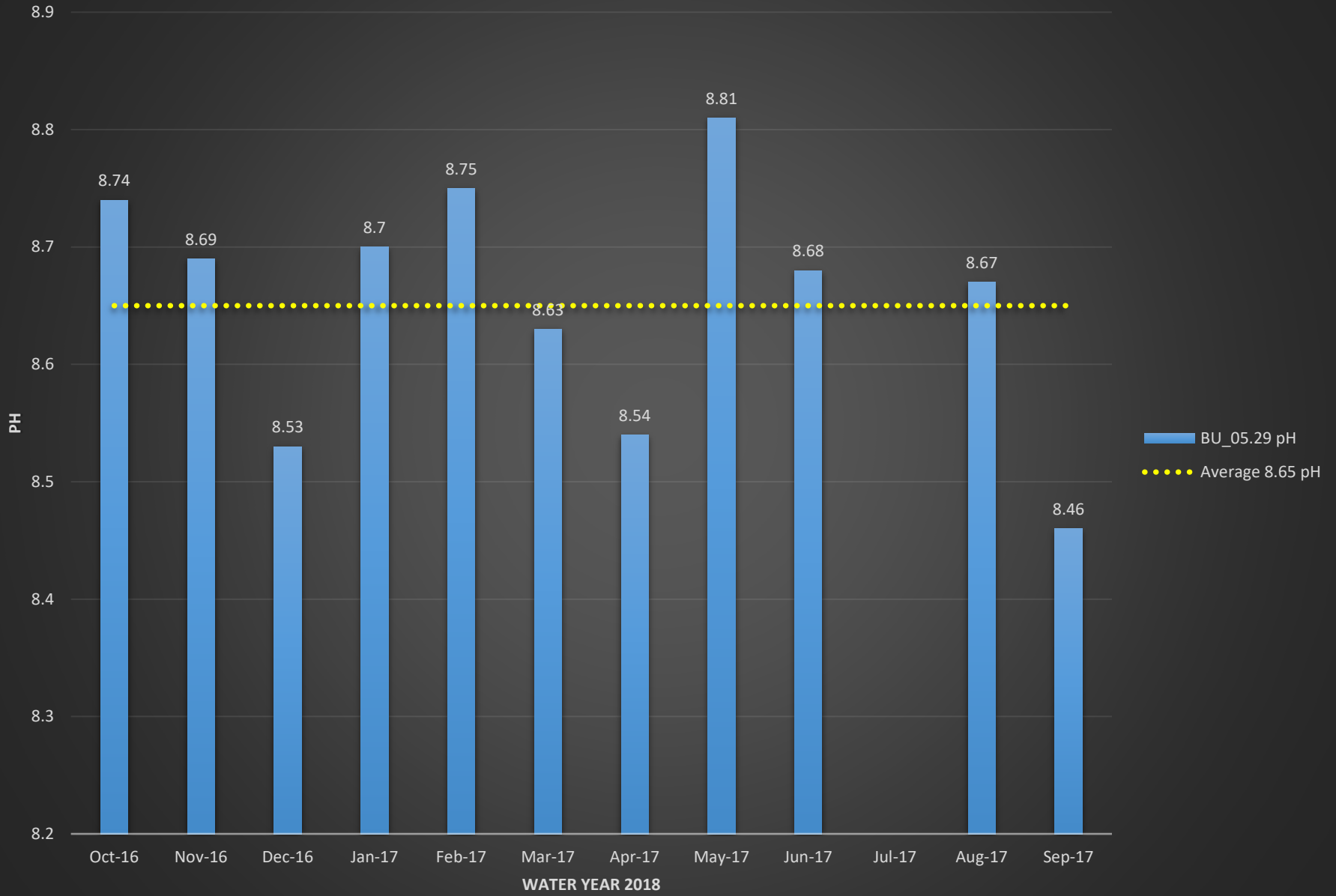
# BU\_05.29 Dissolved Oxygen (%)



# BU\_05.29 Dissolved Oxygen (mg/L)

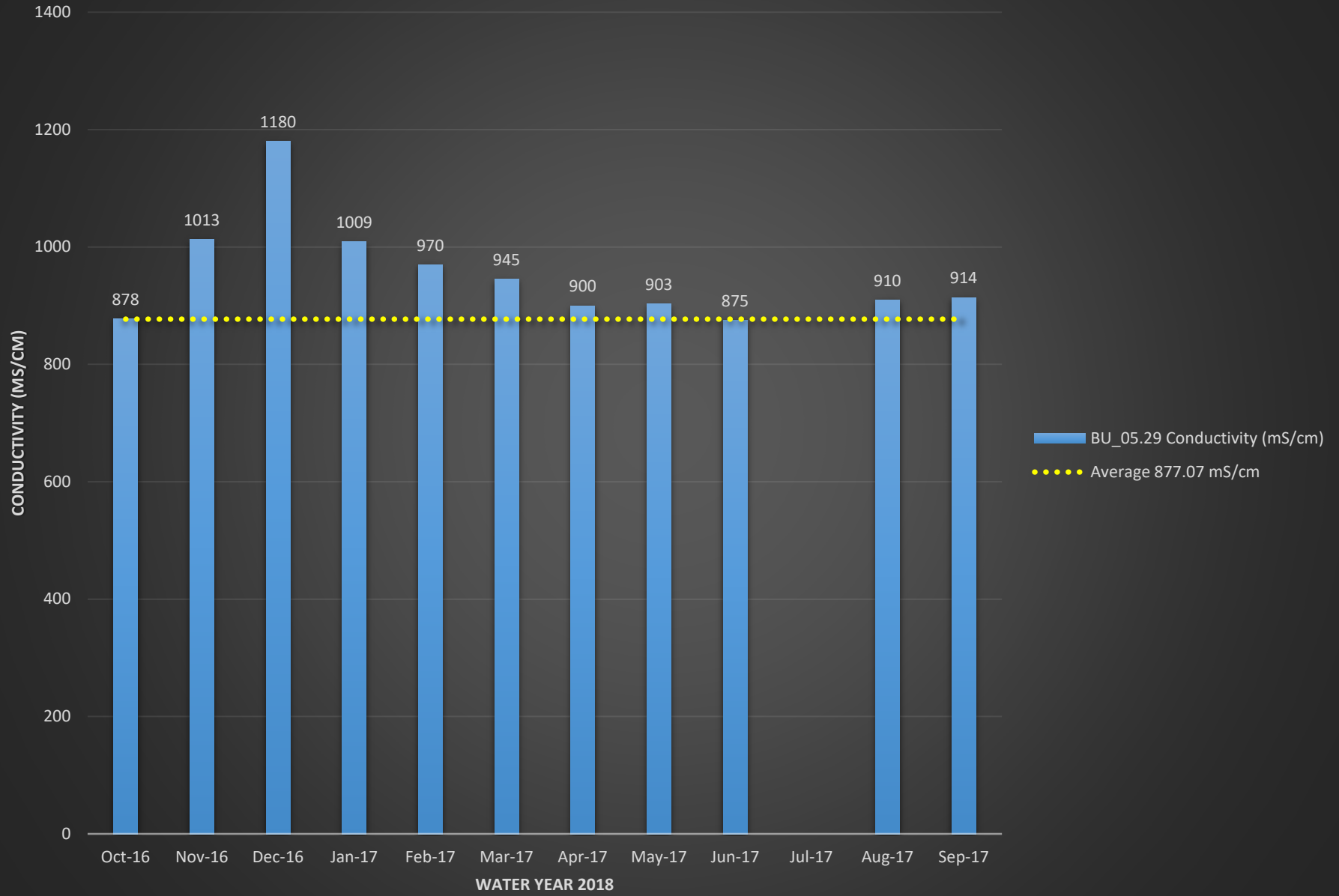


# BU\_05.29 pH

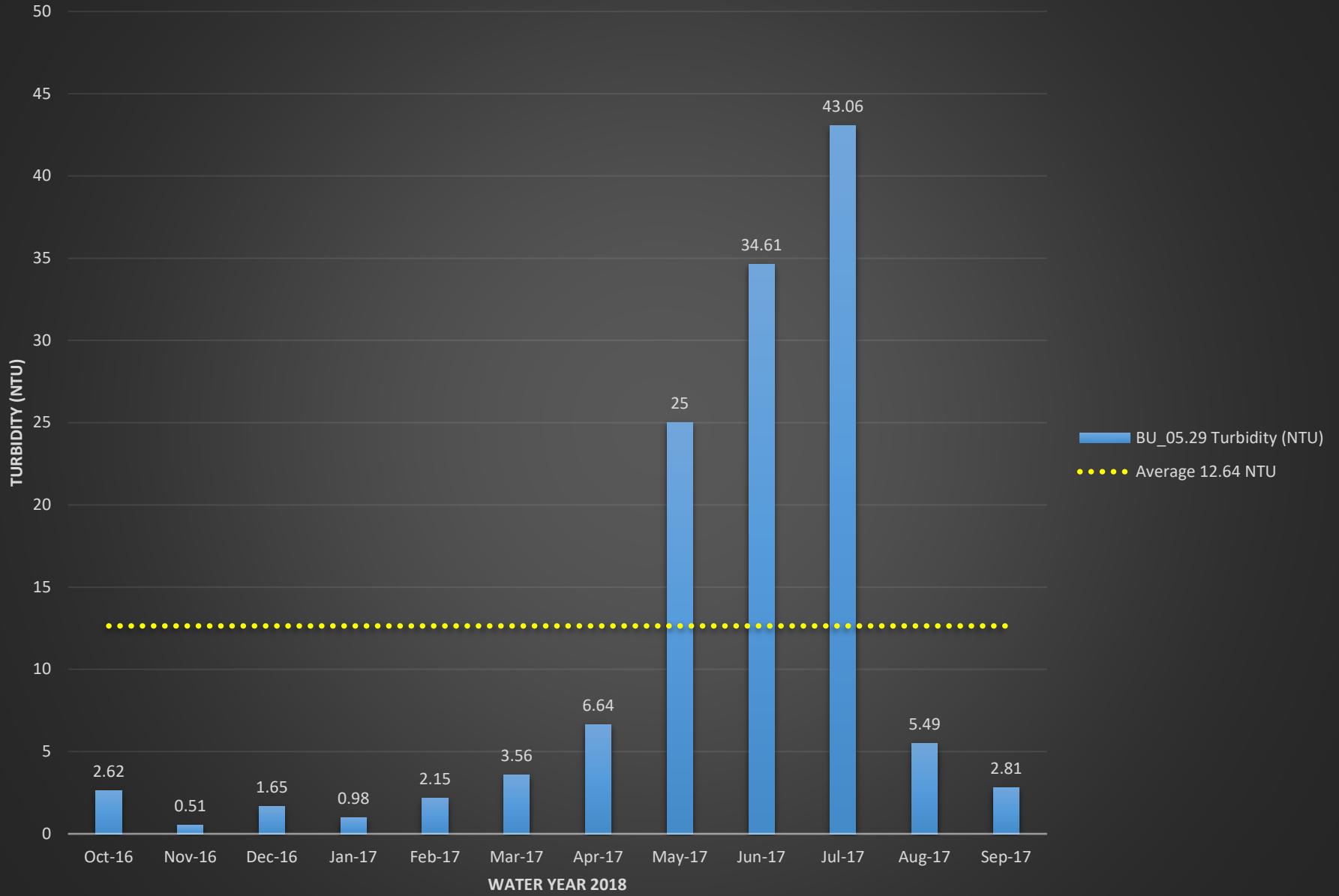




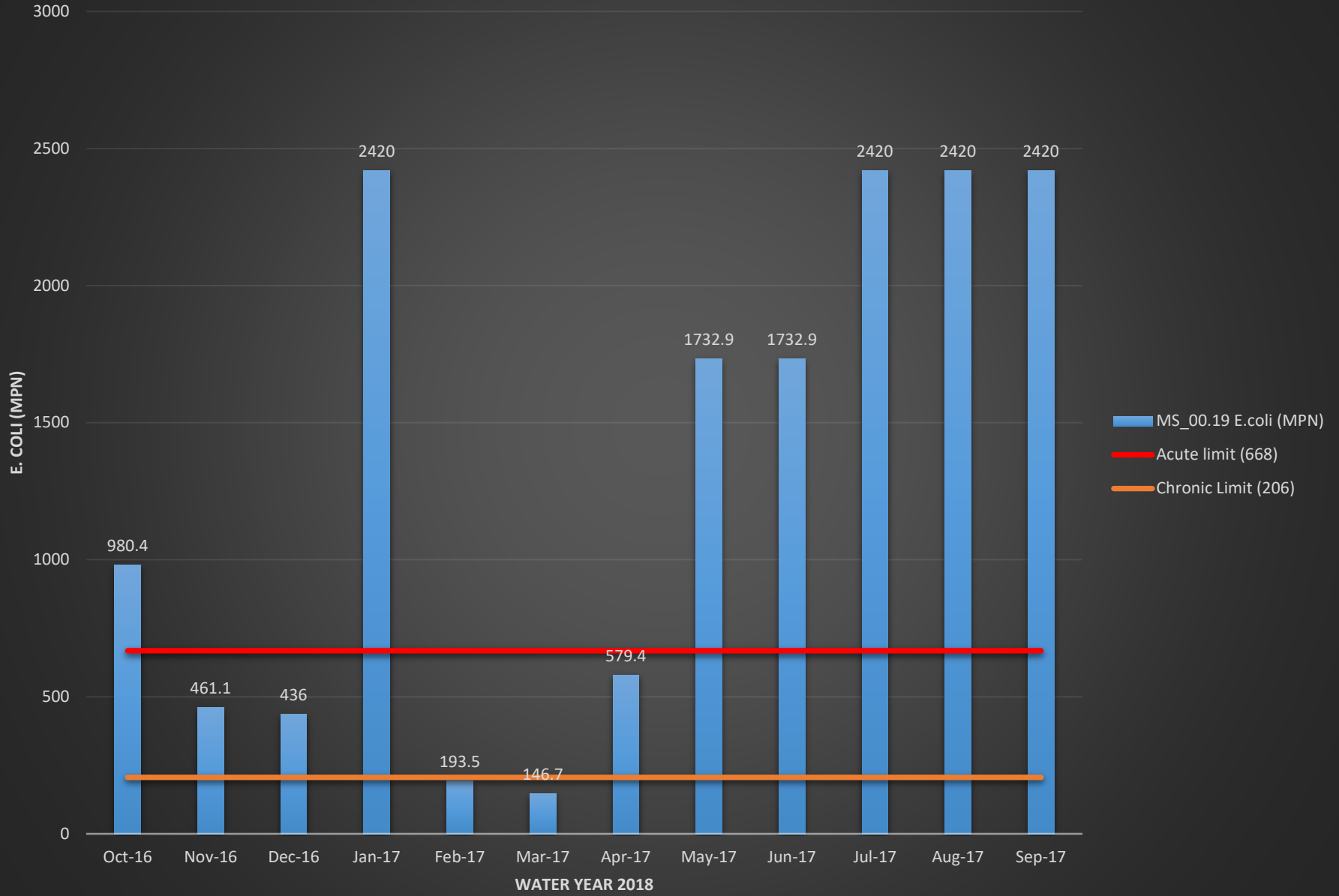
# BU\_05.29 Conductivity (mS/cm)



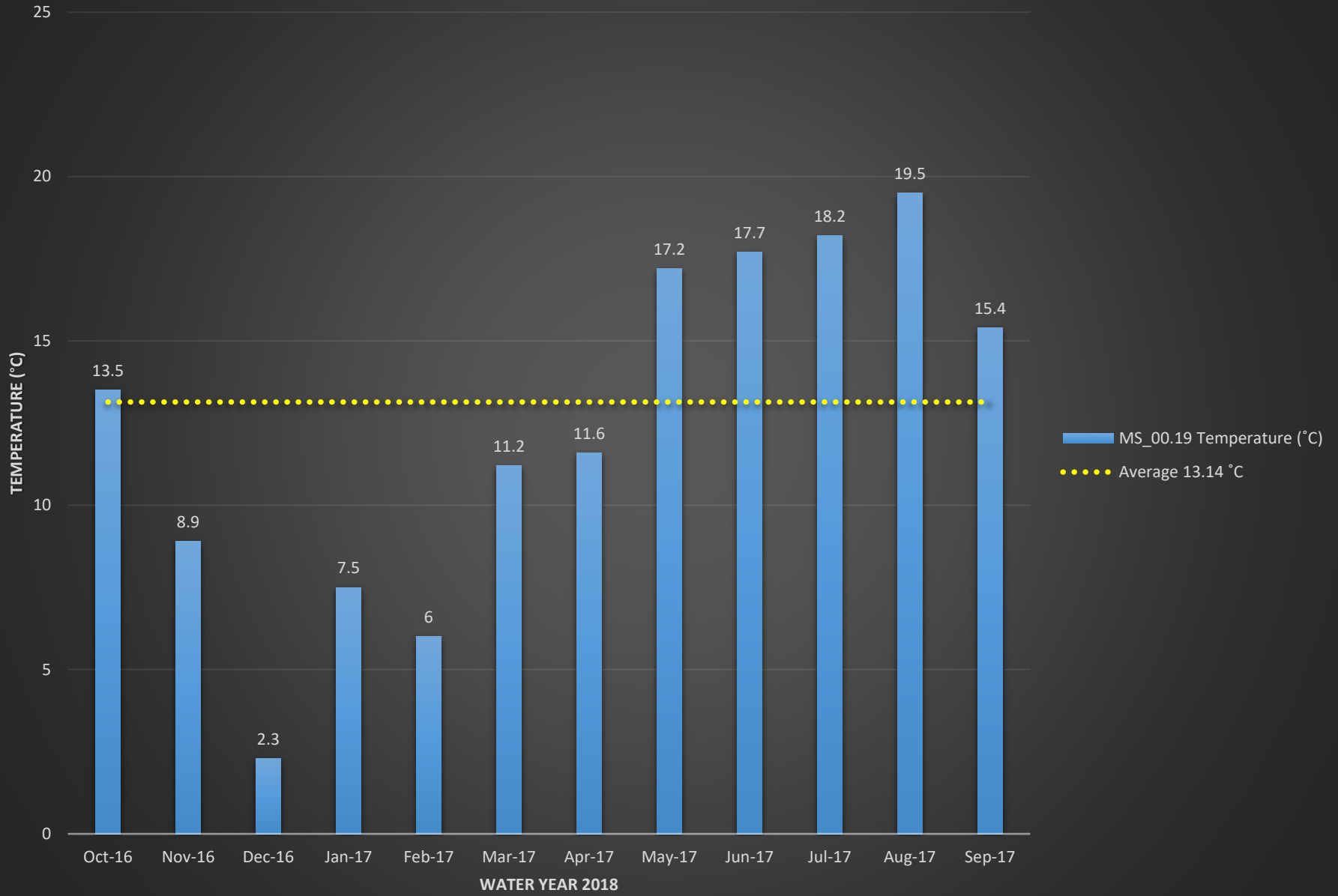
# BU\_05.29 Turbidity (NTU)



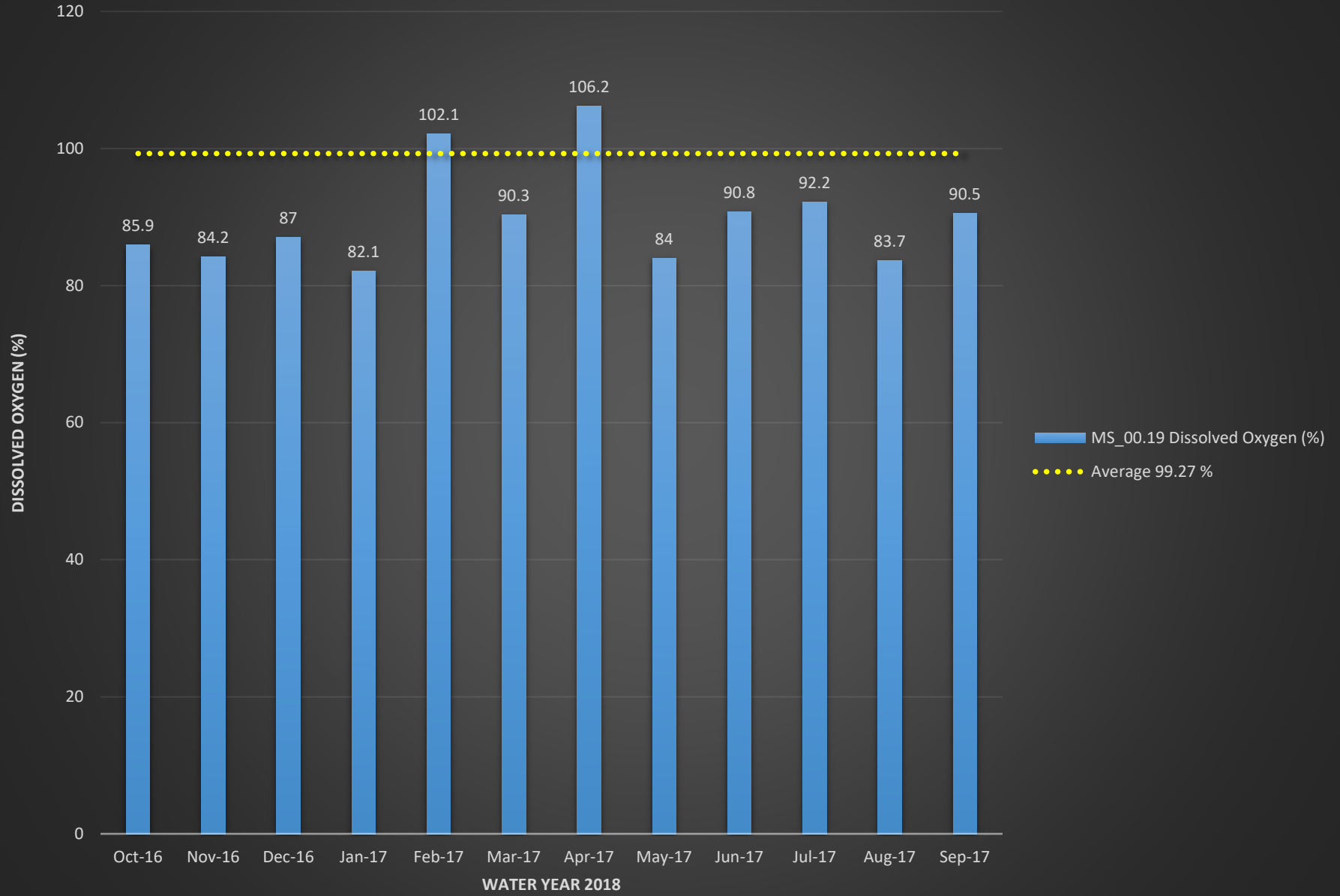
# MS\_00.19 E.coli (MPN)



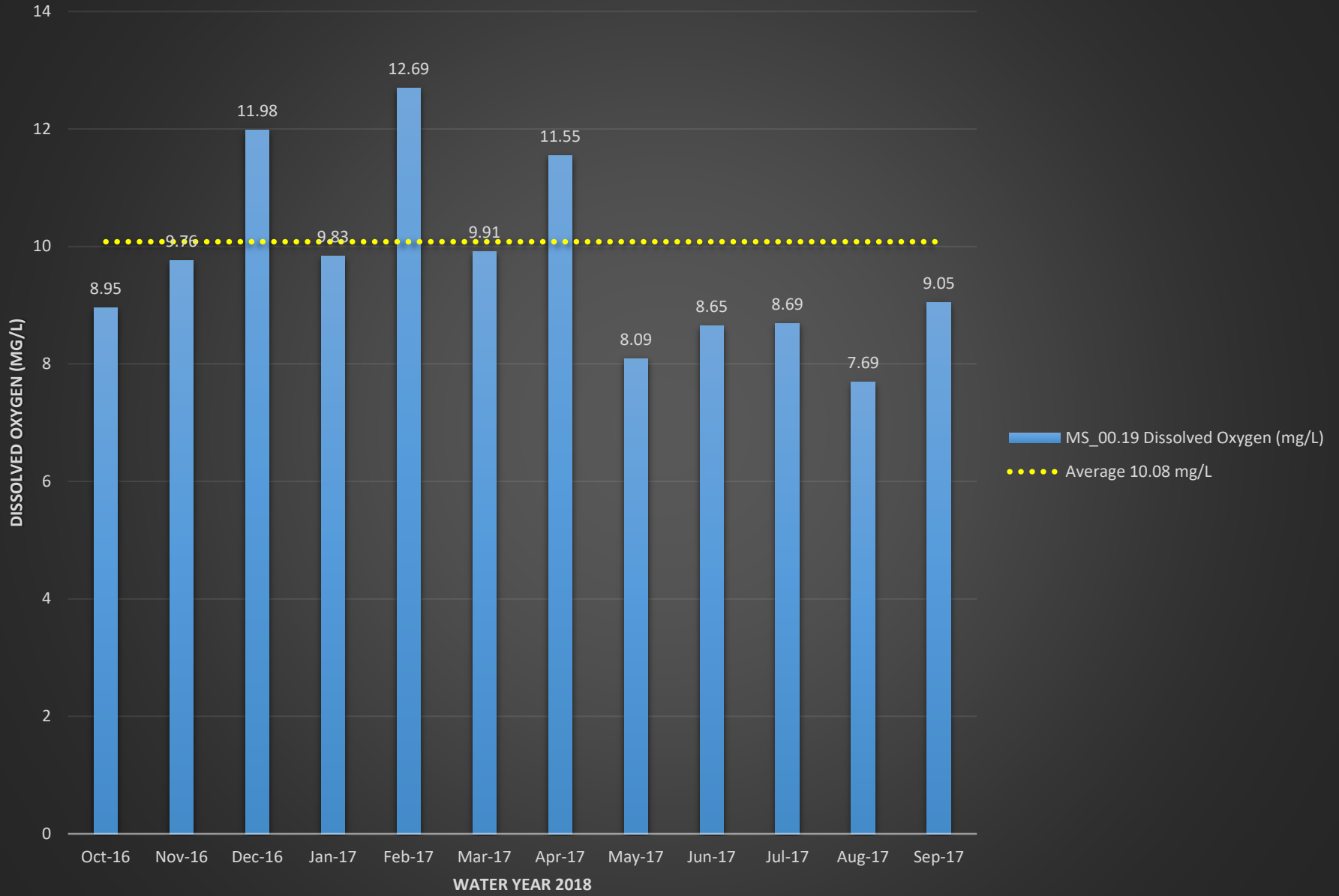
# MS\_00.19 Temperature (°C)



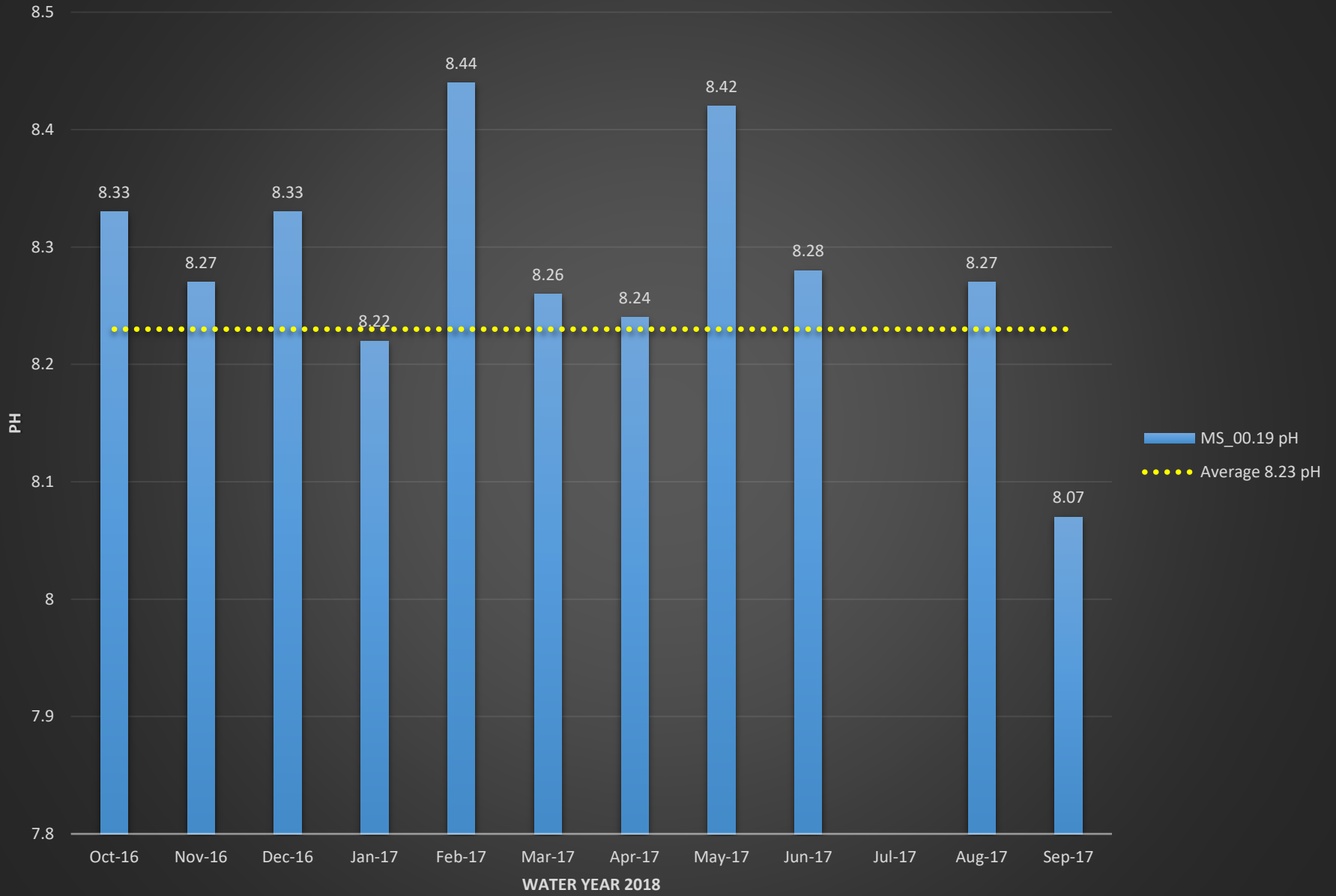
# MS\_00.19 Dissolved Oxygen (%)



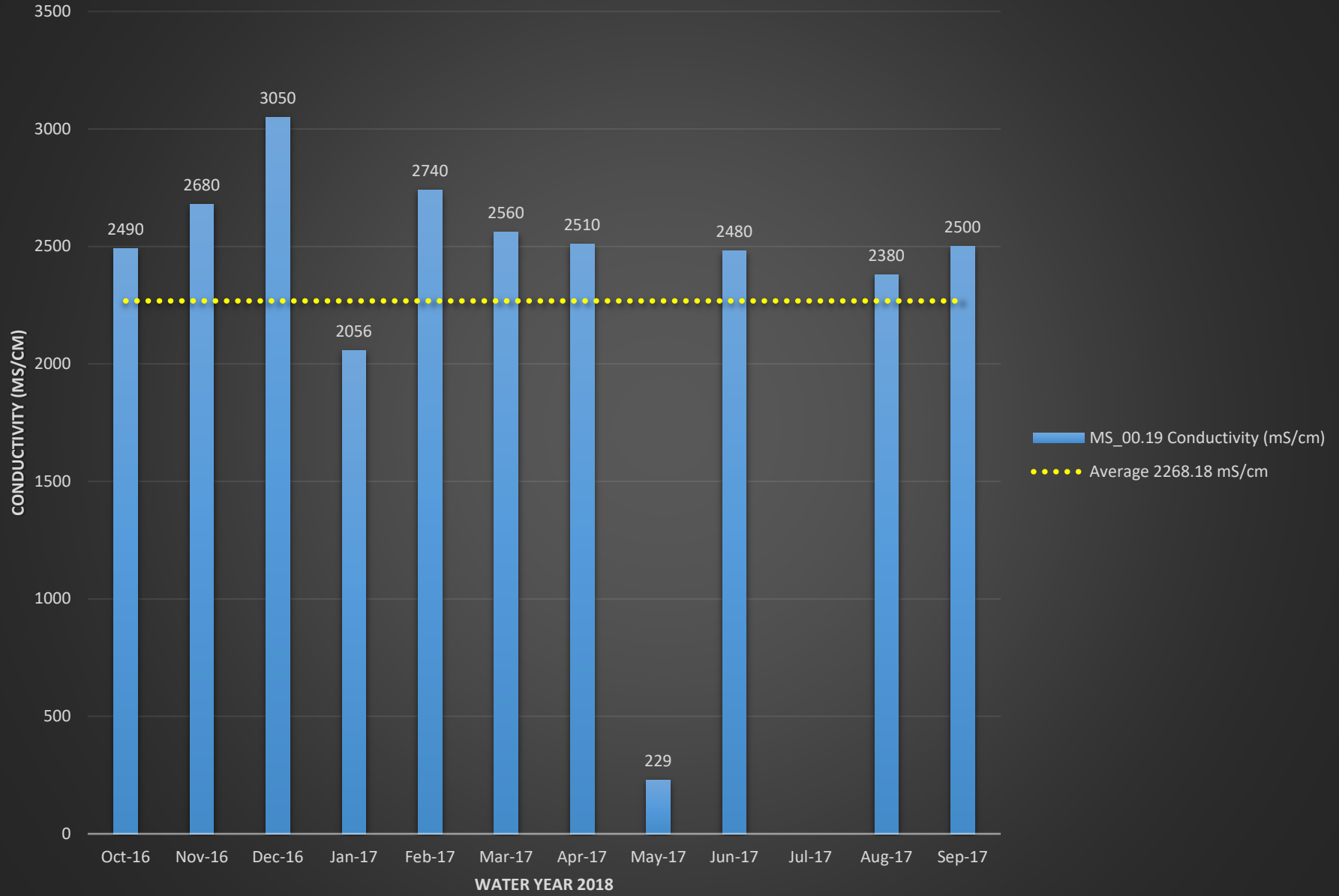
# MS\_00.19 Dissolved Oxygen (mg/L)



# MS\_00.19 pH

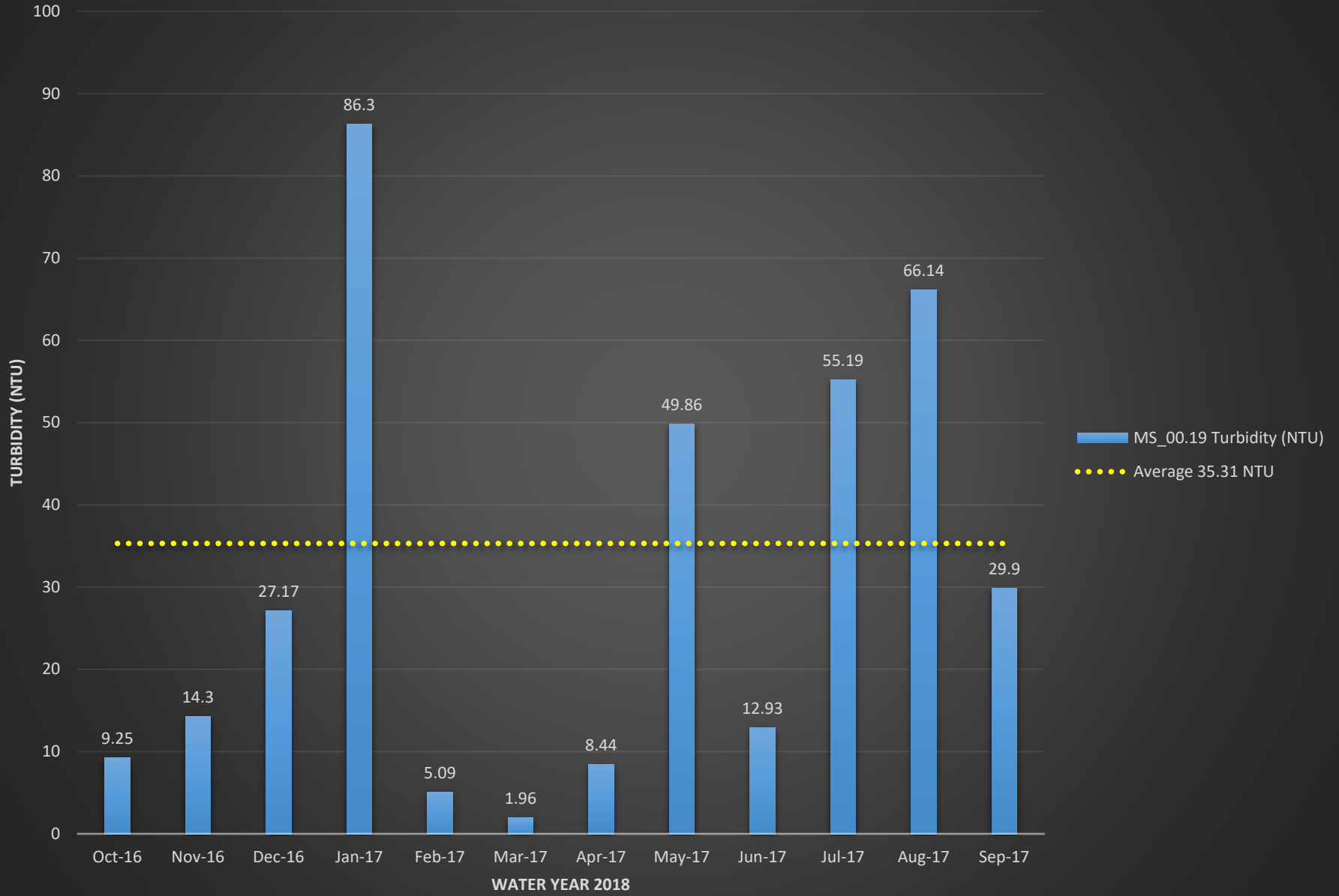


# MS\_00.19 Conductivity (mS/cm)

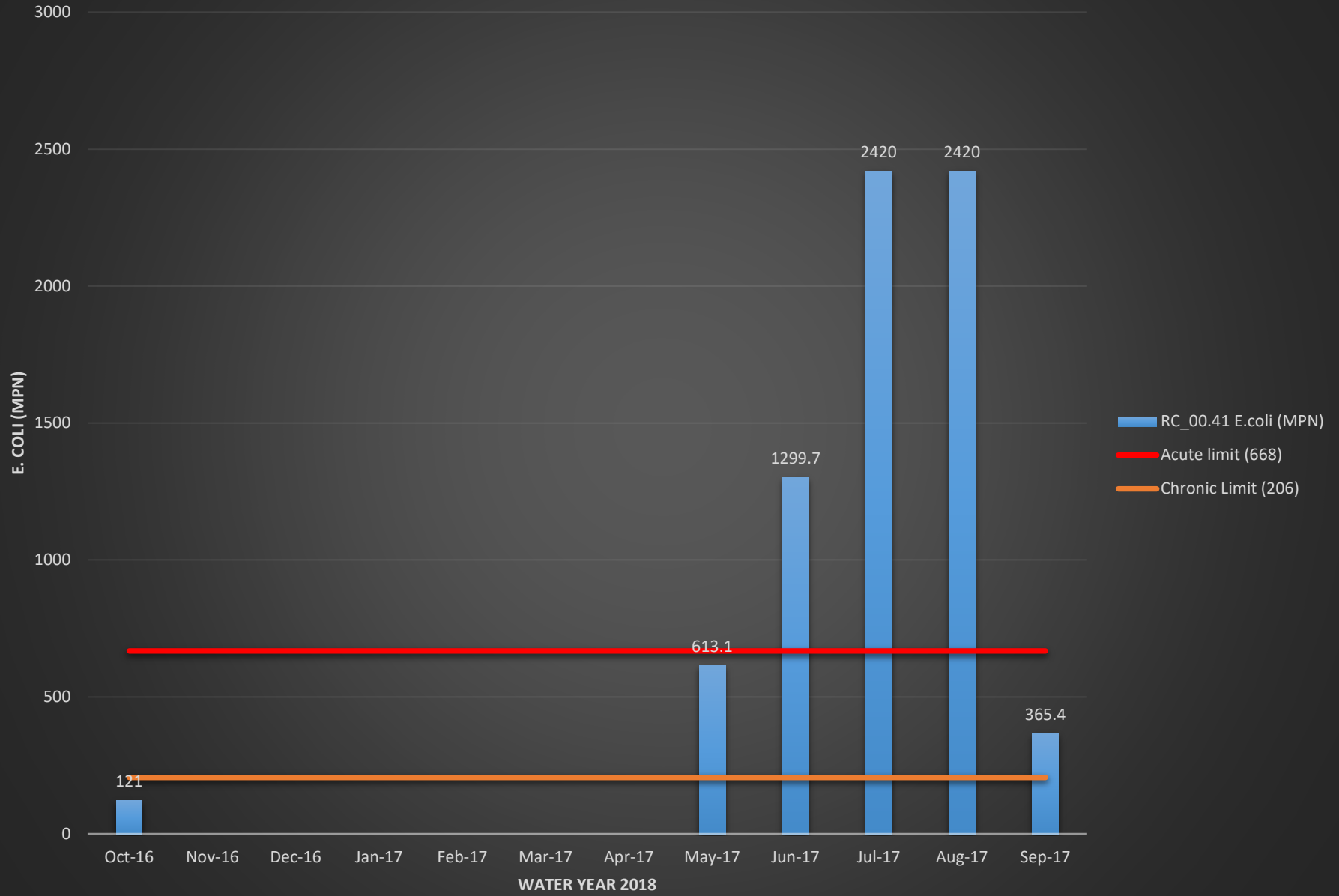




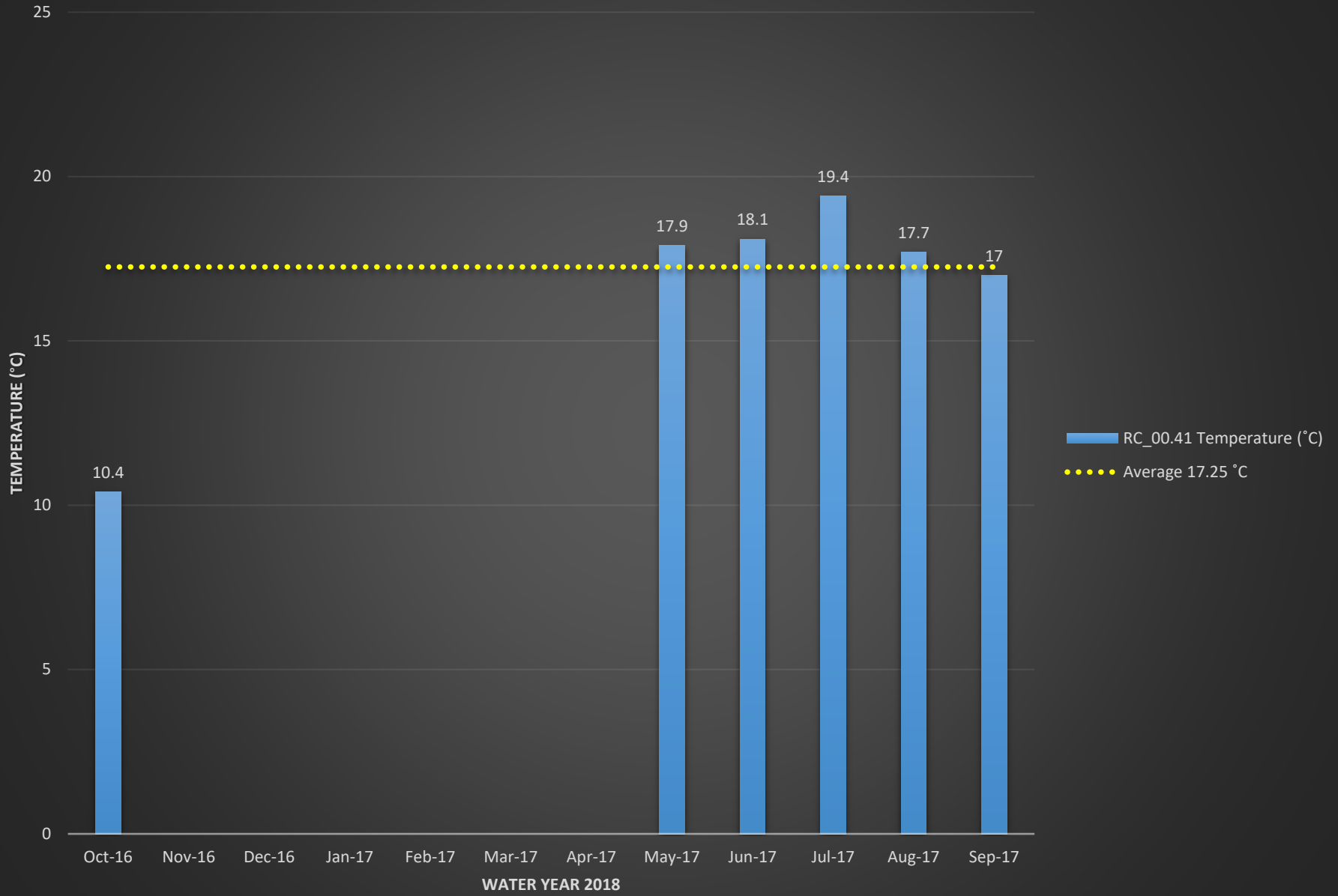
# MS\_00.19 Turbidity (NTU)



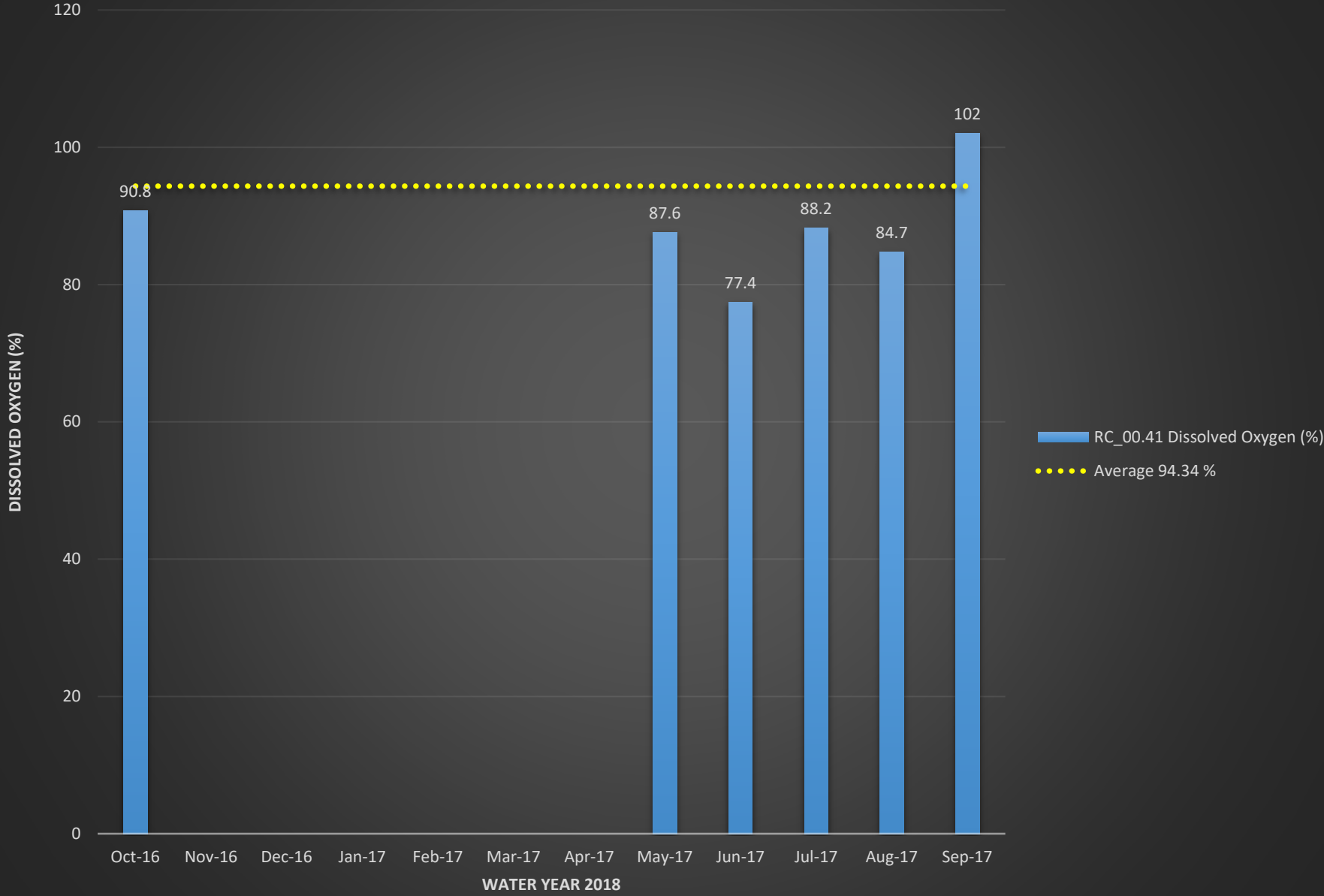
# RC\_00.41 E.coli (MPN)



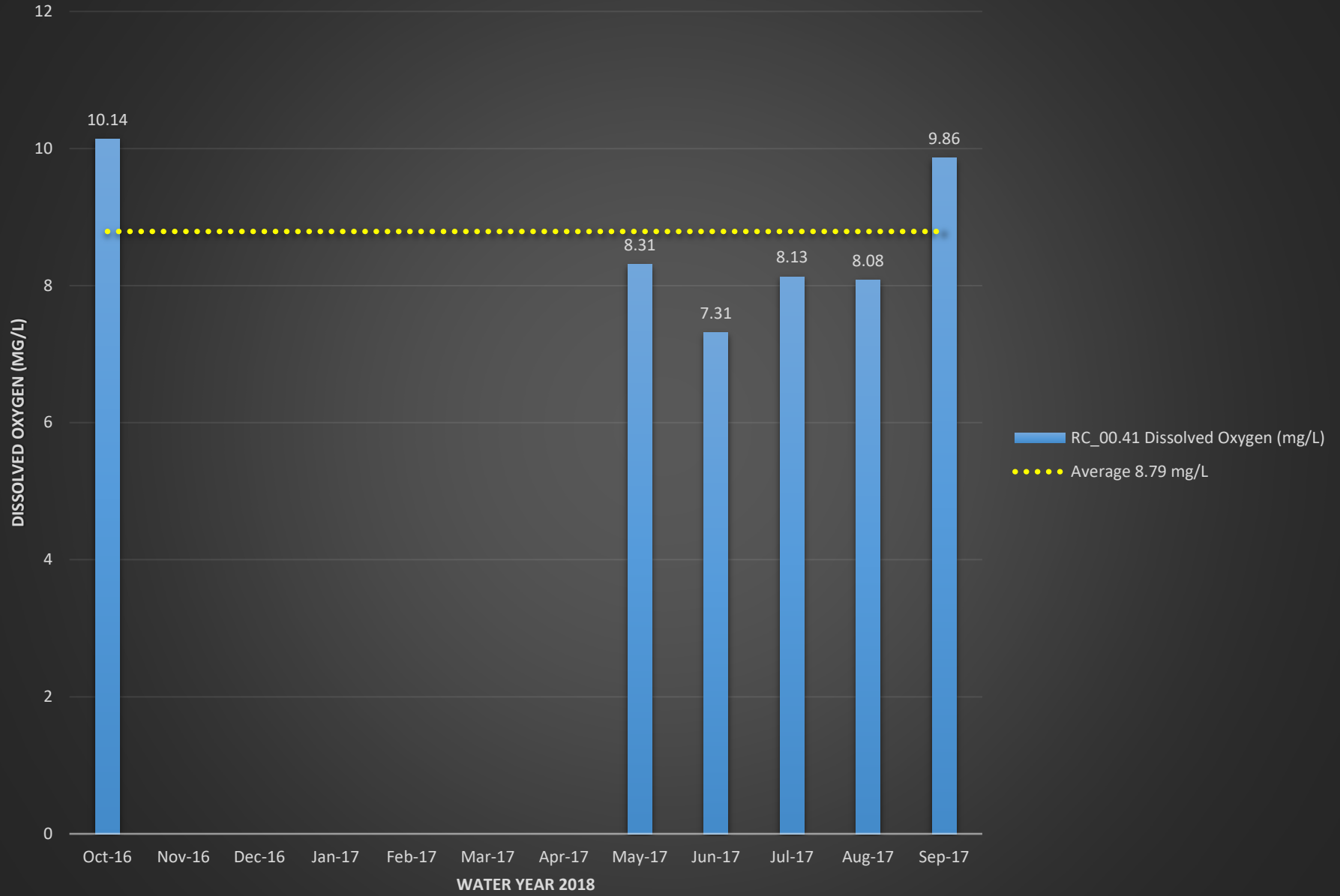
# RC\_00.41 Temperature (°C)



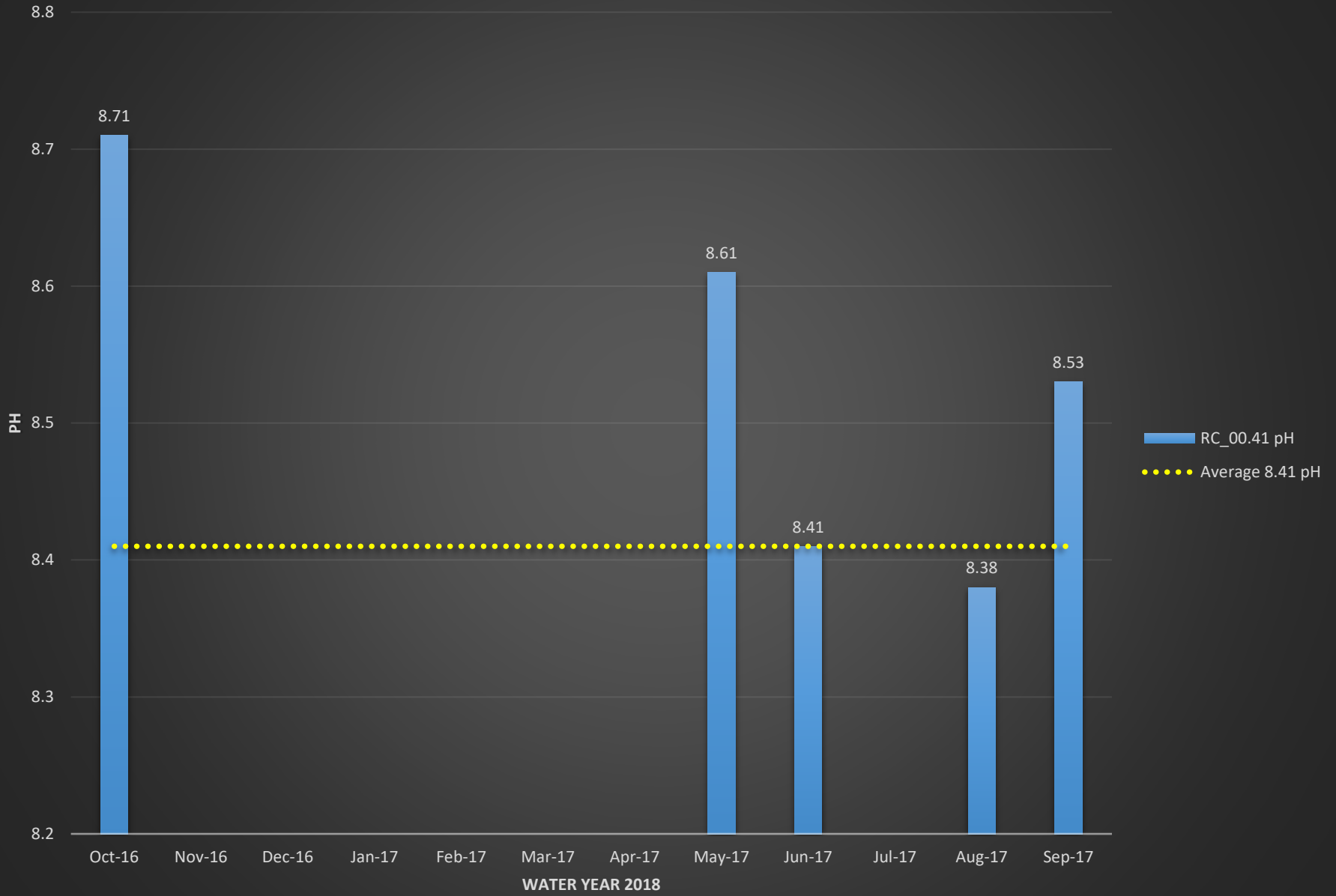
# RC\_00.41 Dissolved Oxygen (%)



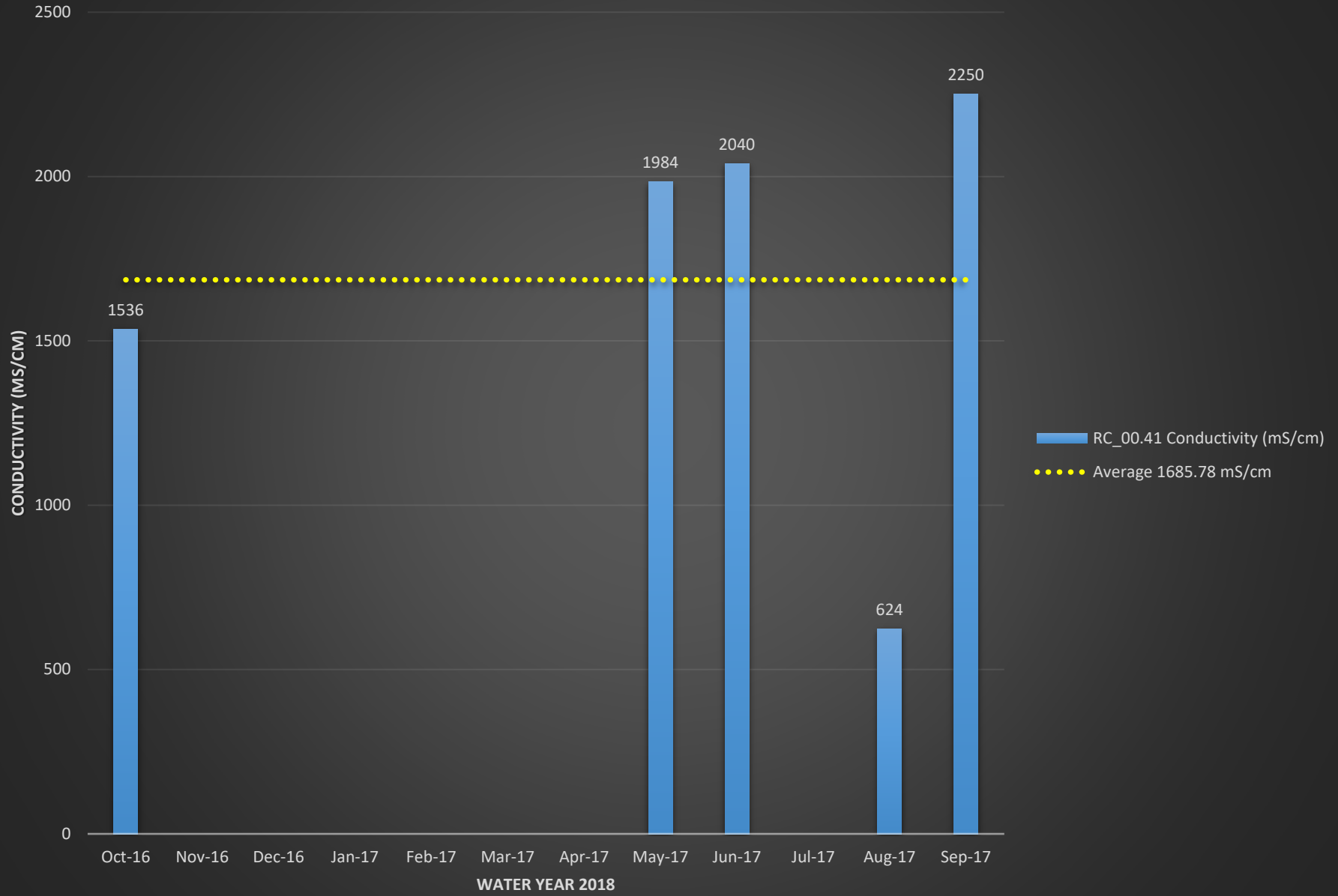
# RC\_00.41 Dissolved Oxygen (mg/L)



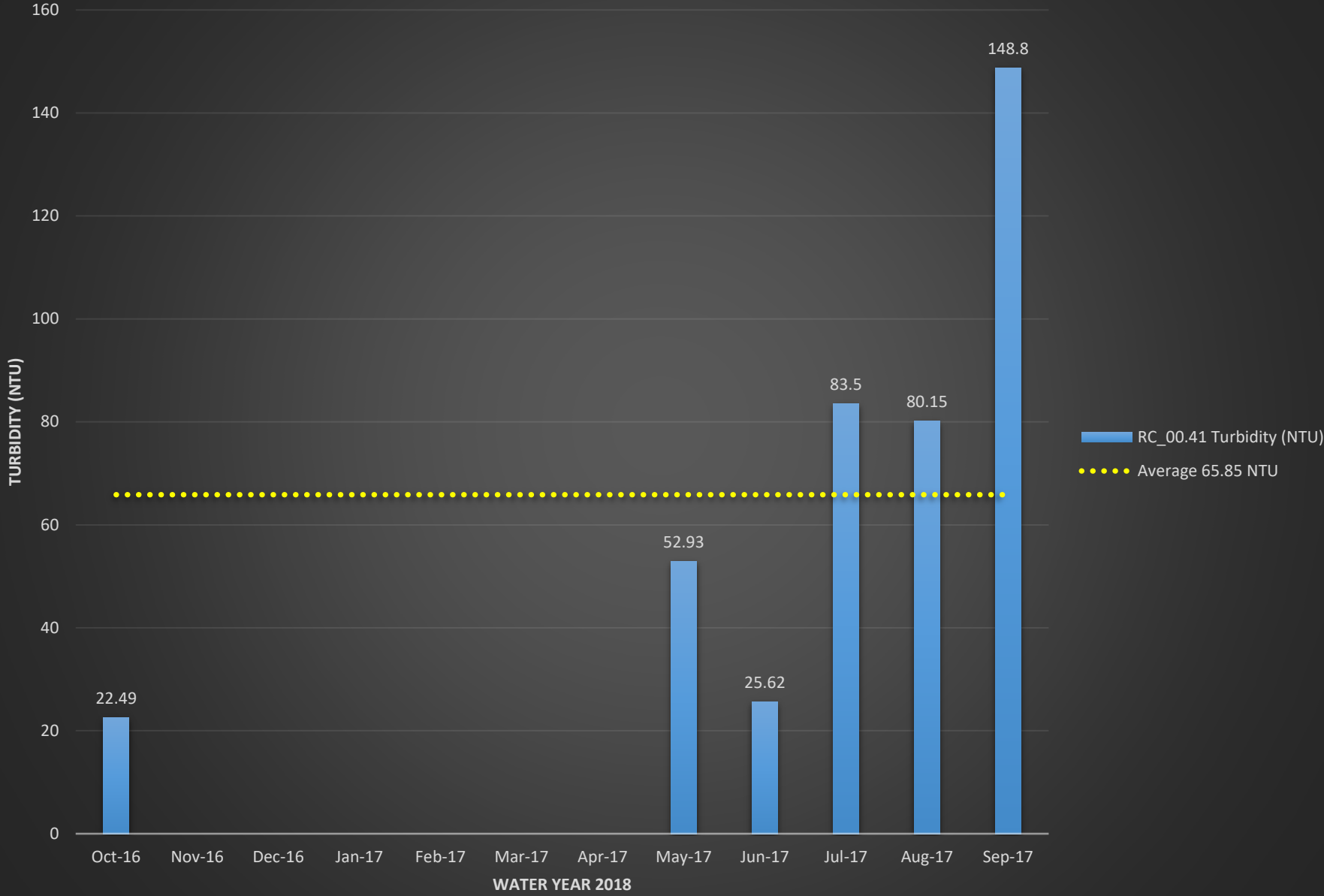
# RC\_00.41 pH



# RC\_00.41 Conductivity (mS/cm)

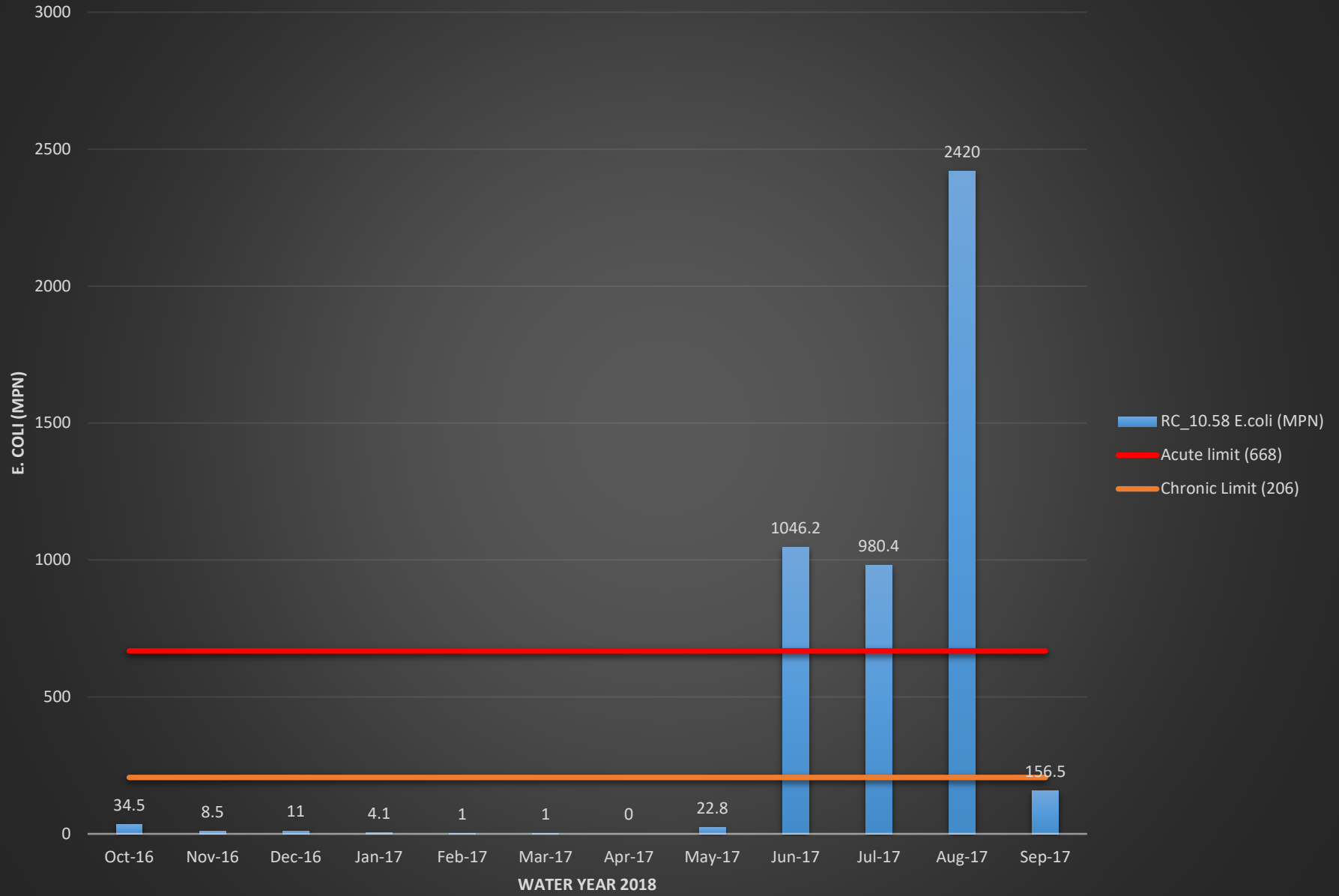


# RC\_00.41 Turbidity (NTU)

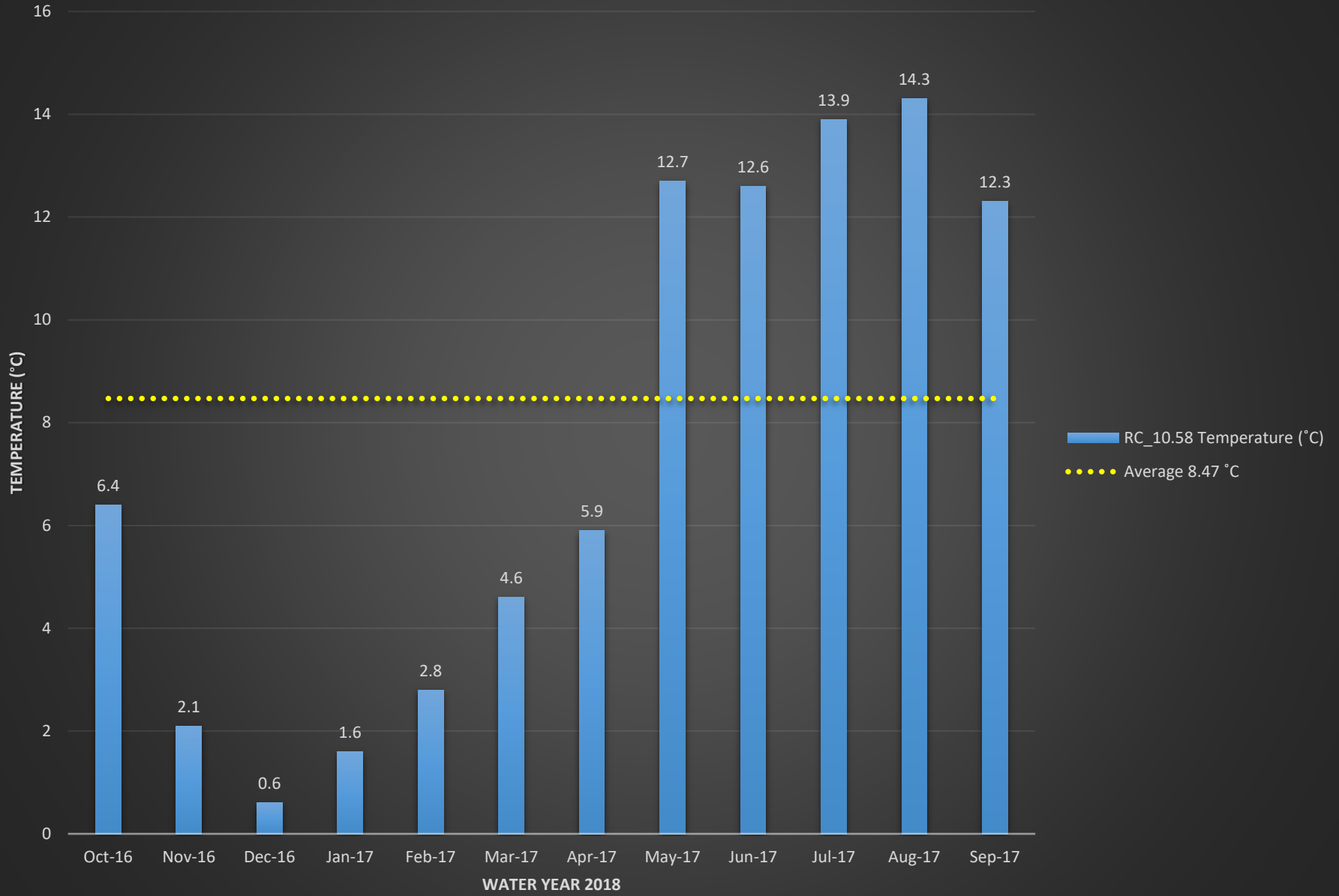




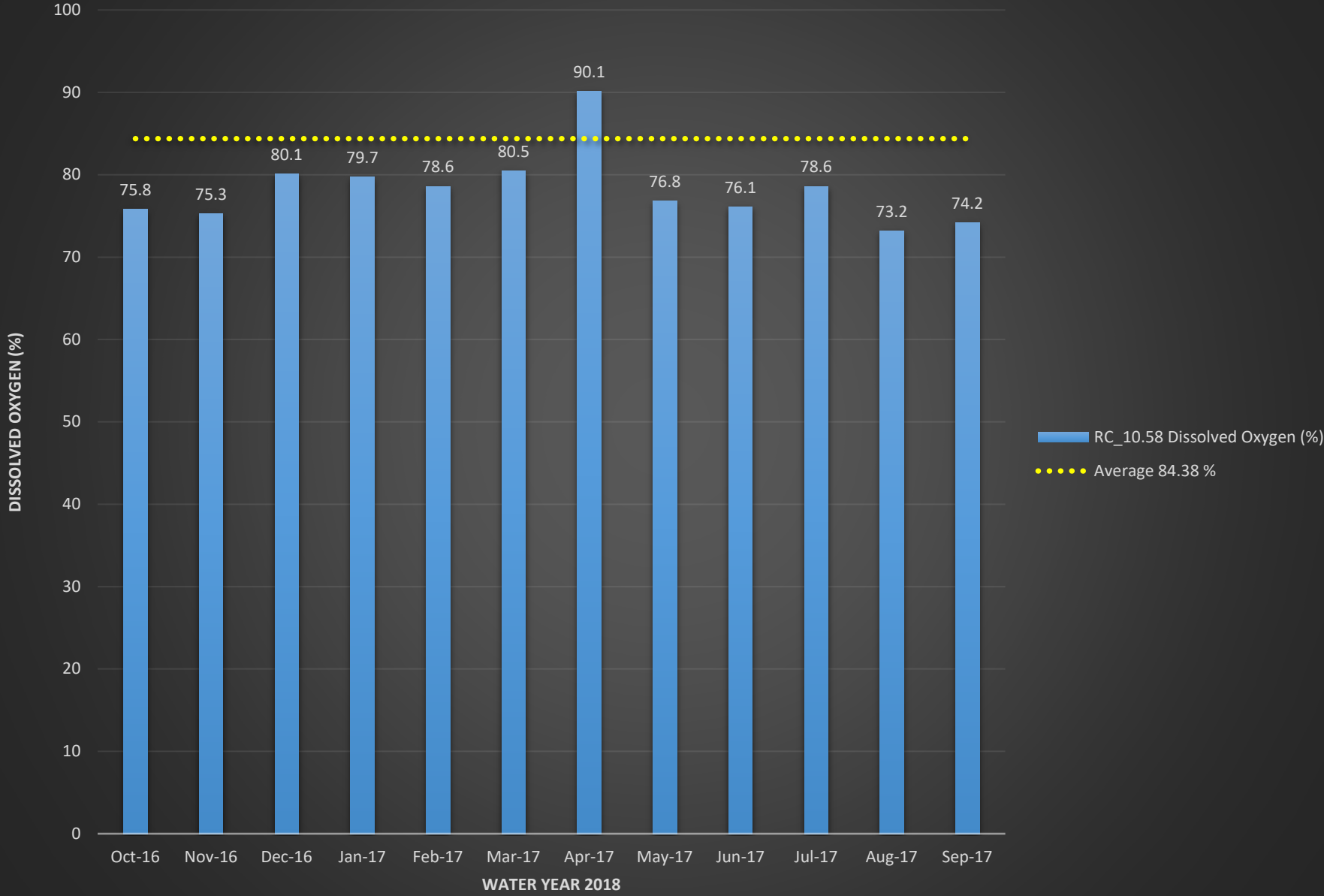
# RC\_10.58 E.coli (MPN)



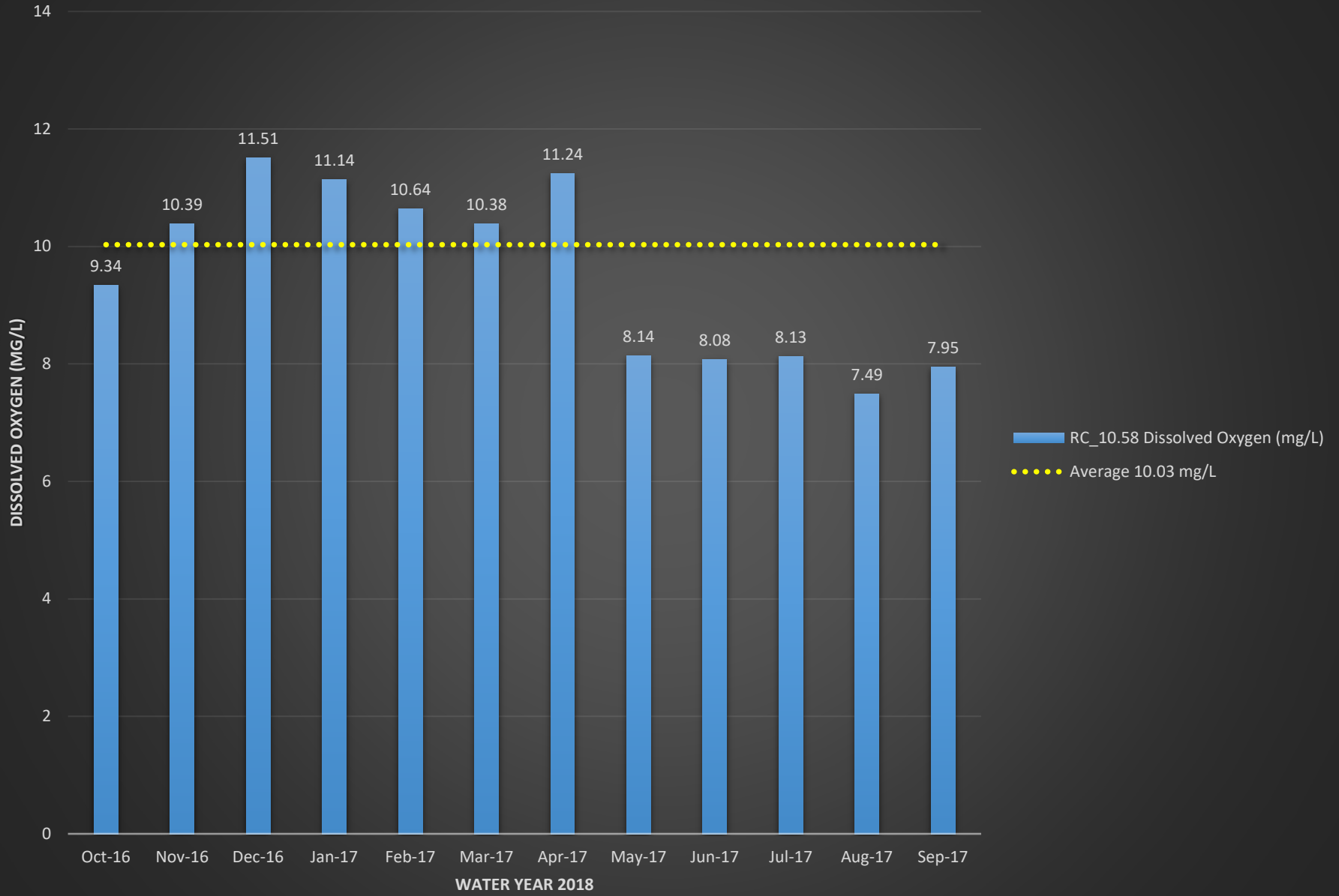
# RC\_10.58 Temperature (°C)



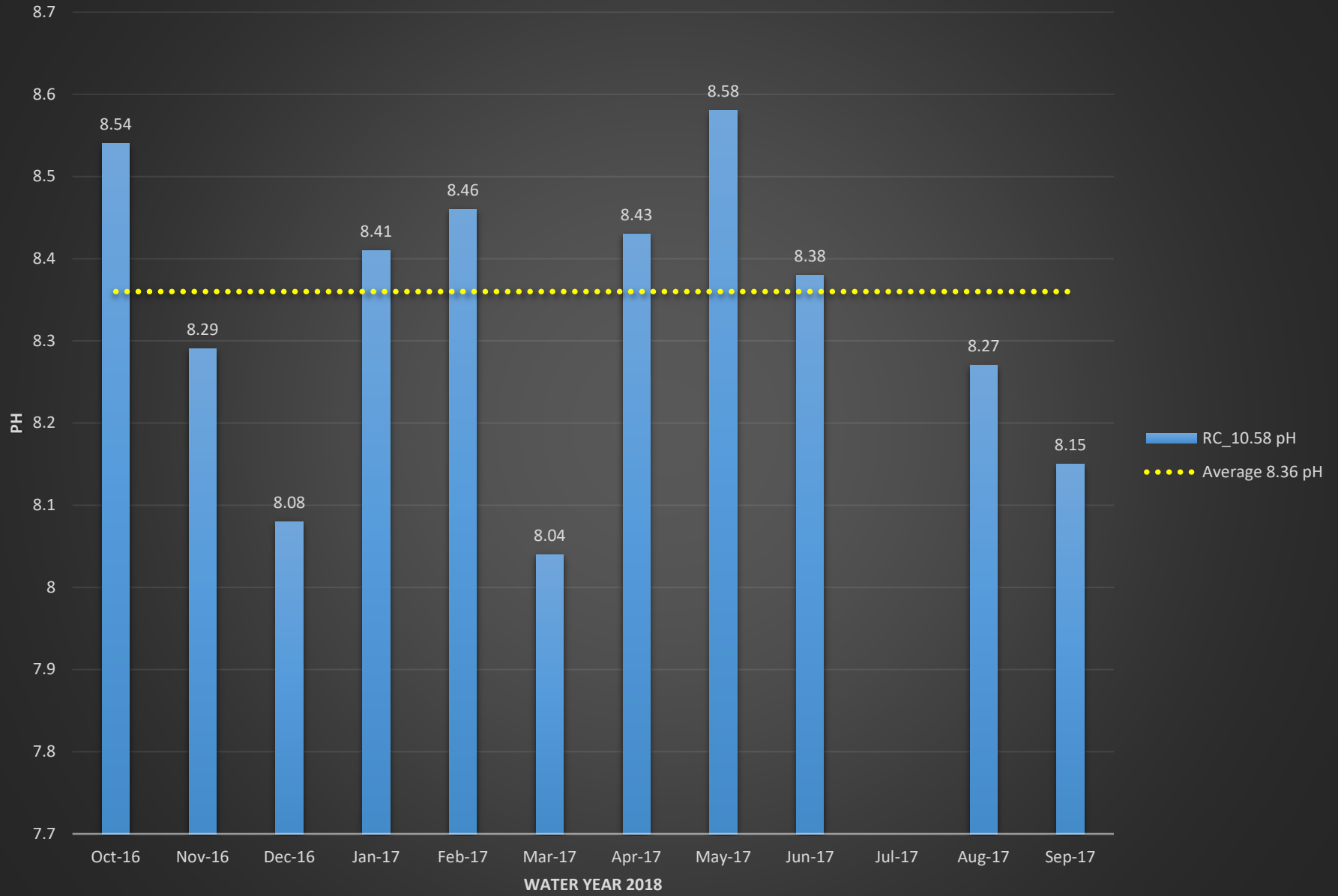
# RC\_10.58 Dissolved Oxygen (%)



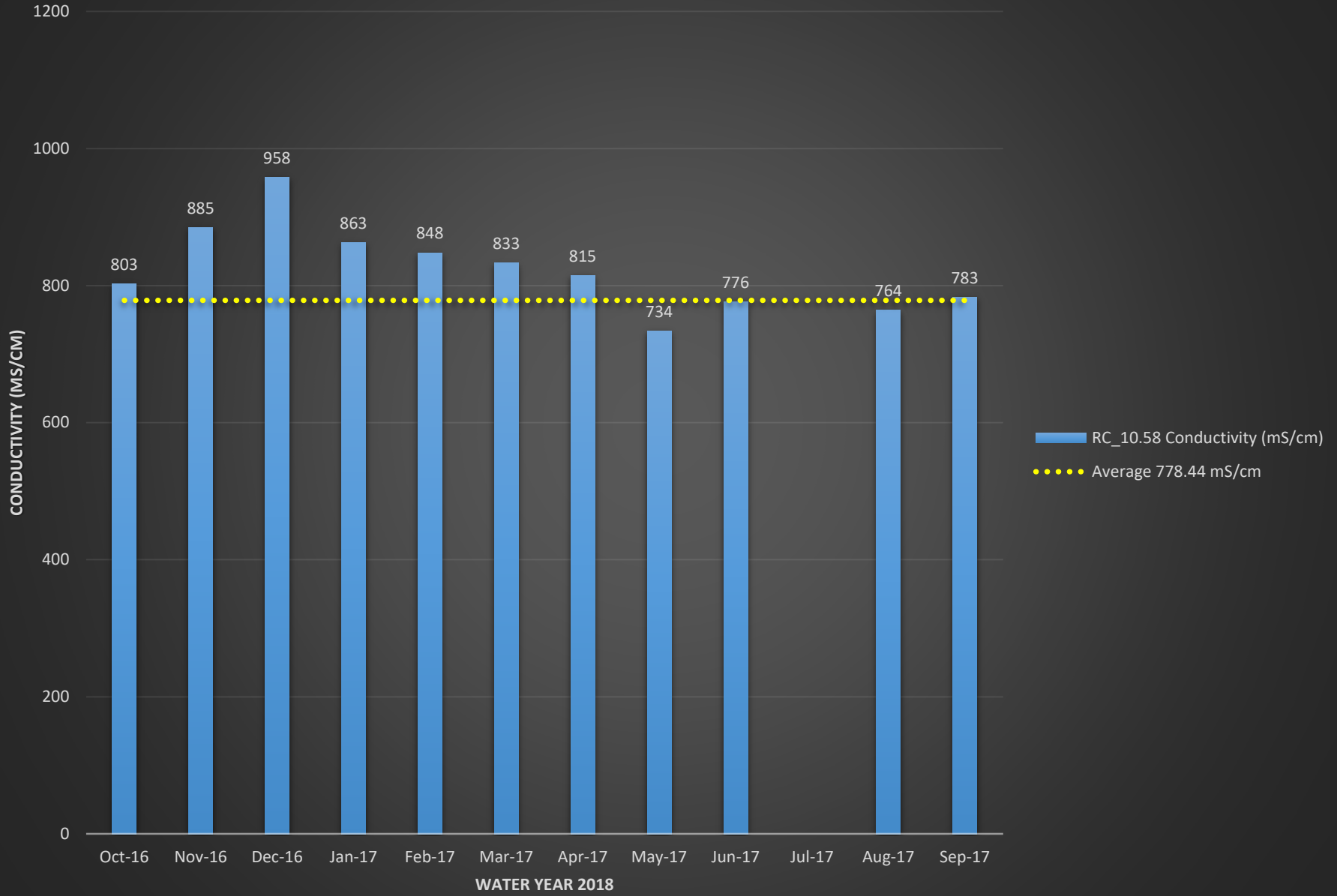
# RC\_10.58 Dissolved Oxygen (mg/L)



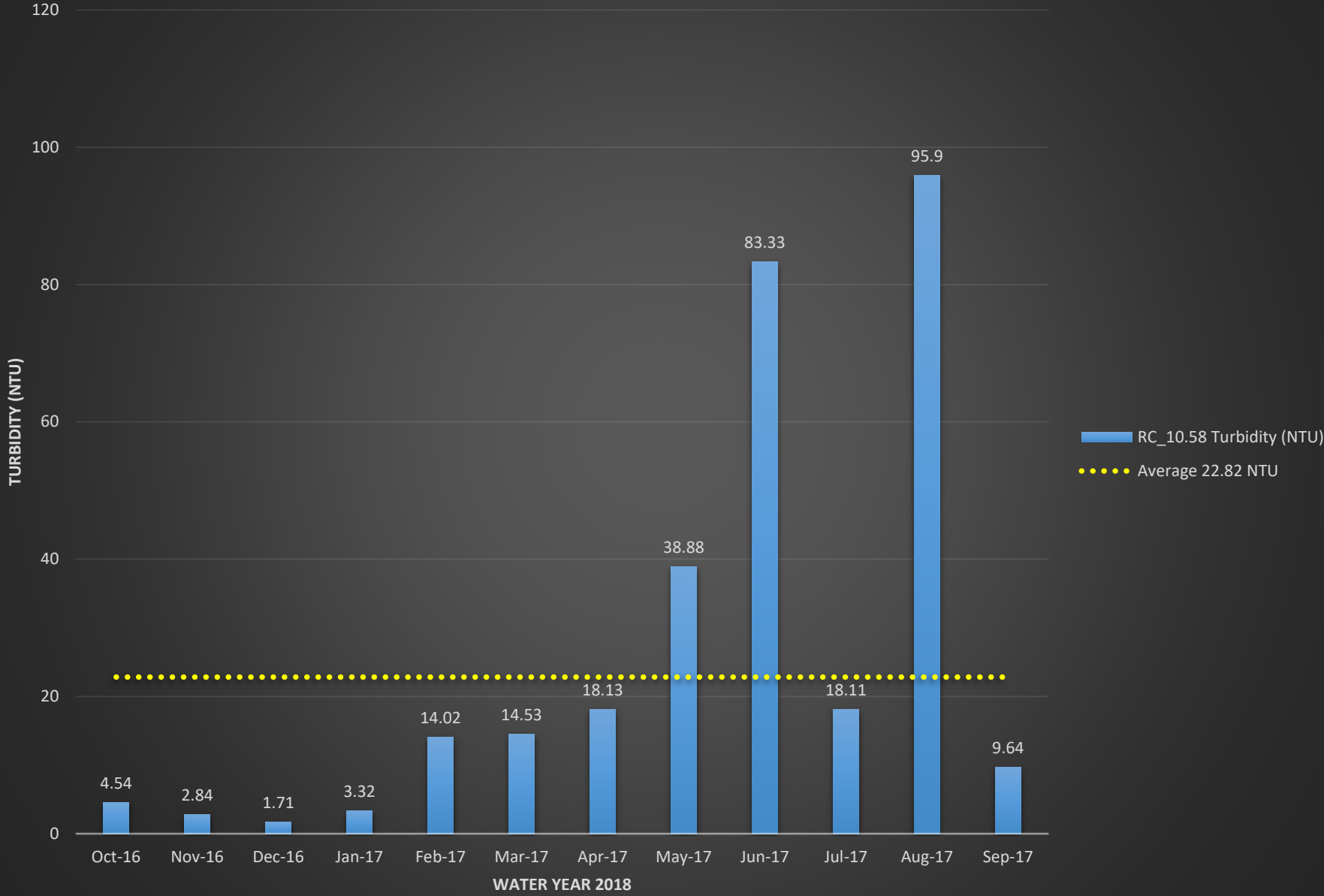
# RC\_10.58 pH



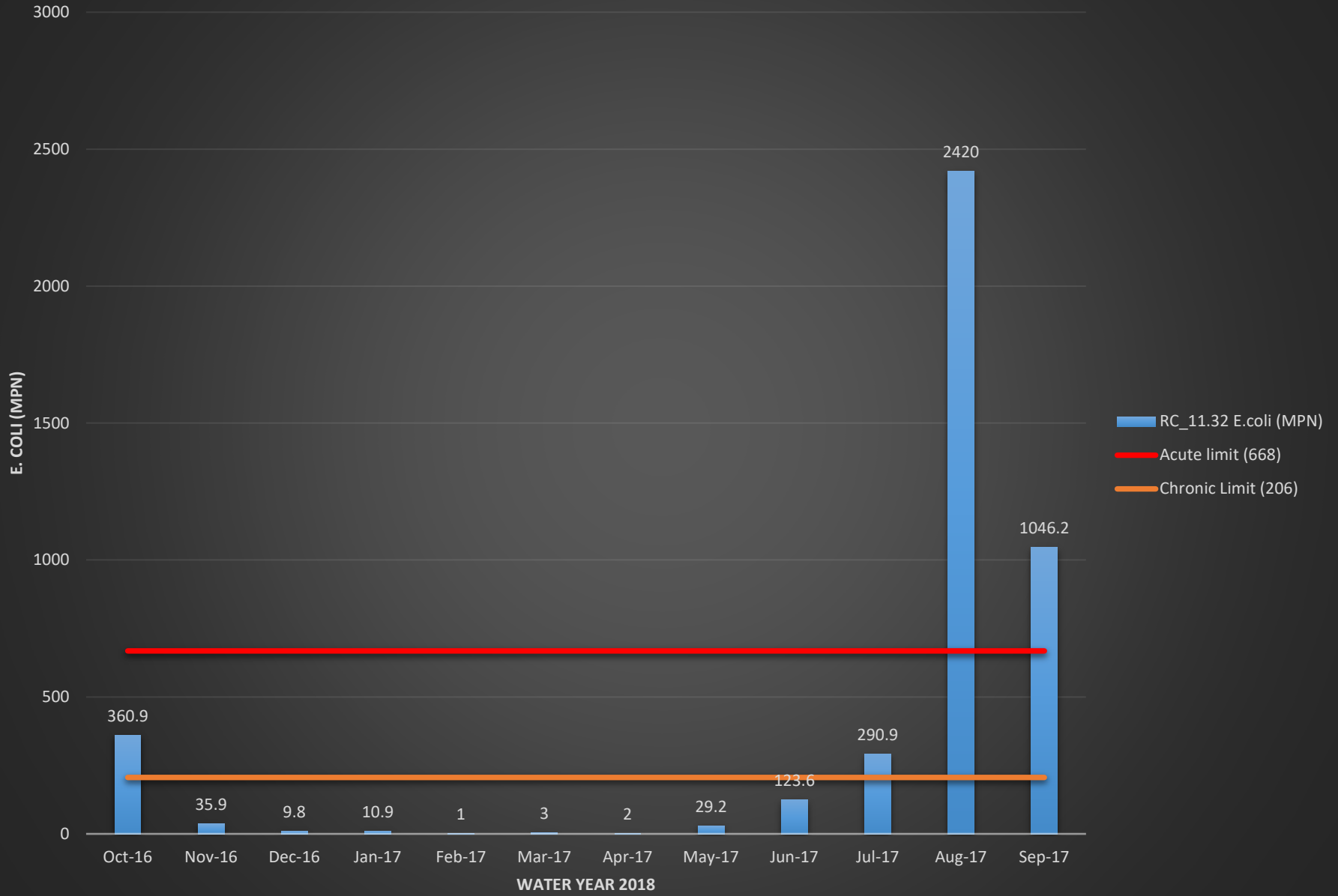
# RC\_10.58 Conductivity (mS/cm)



# RC\_10.58 Turbidity (NTU)

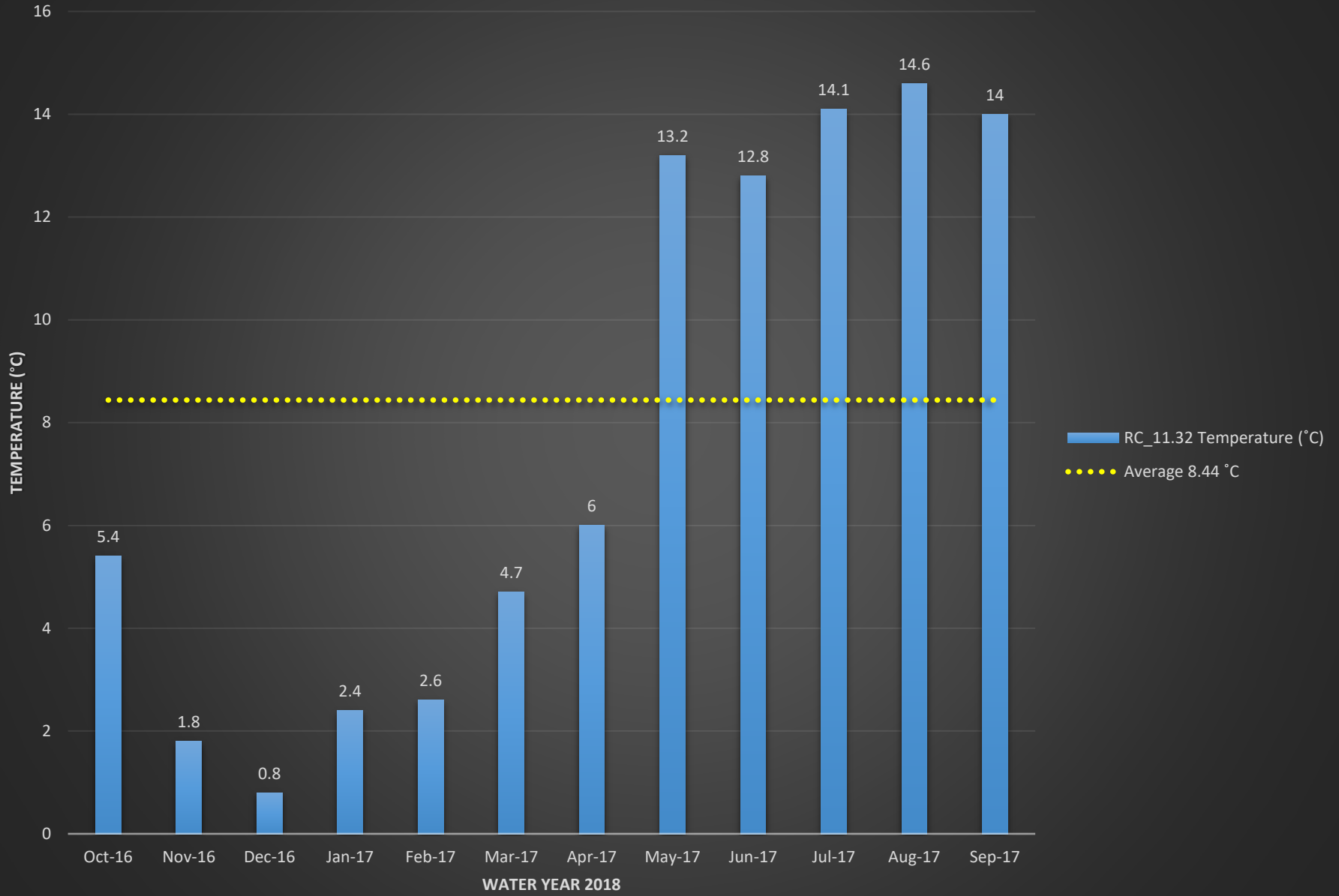


# RC\_11.32 E.coli (MPN)

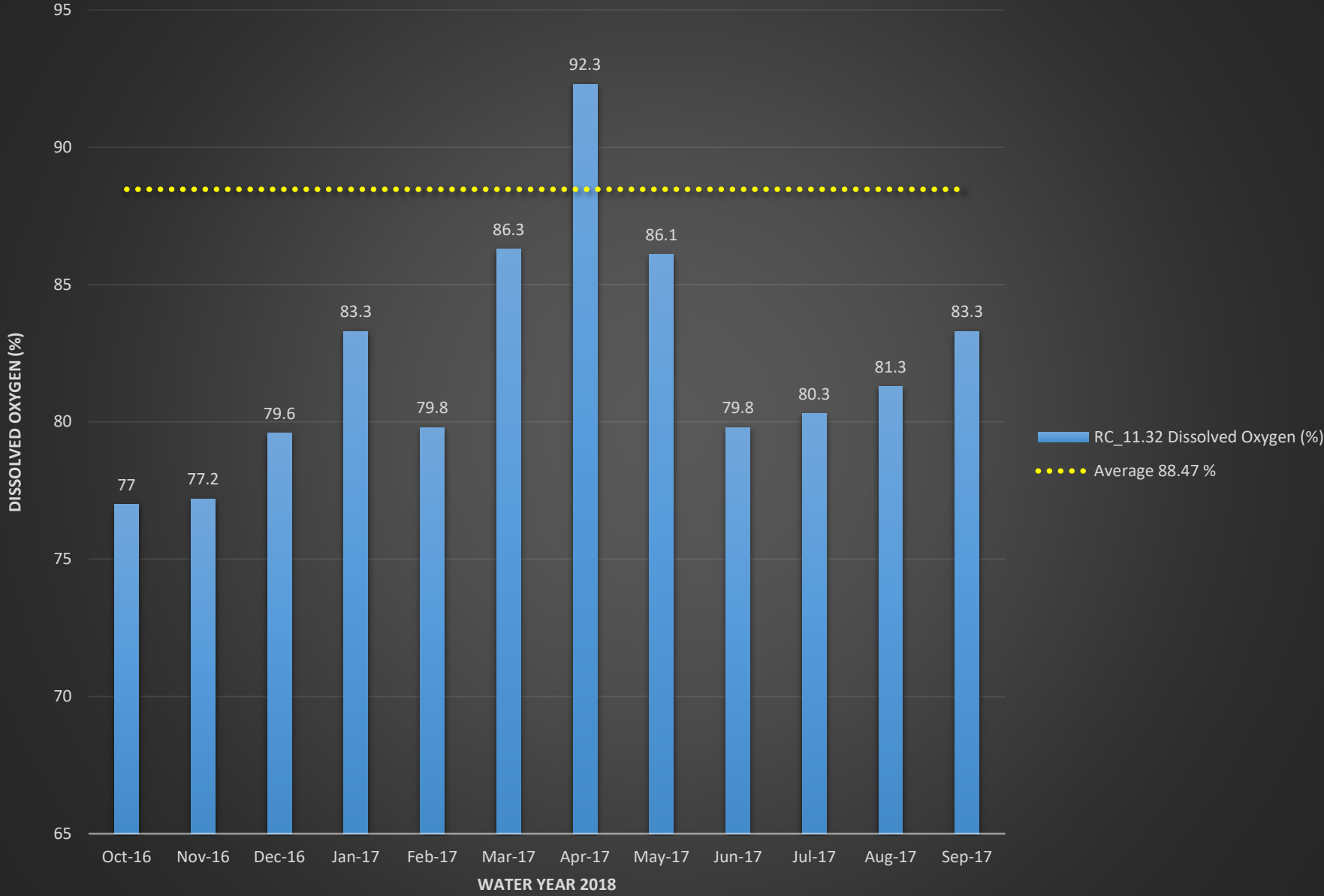




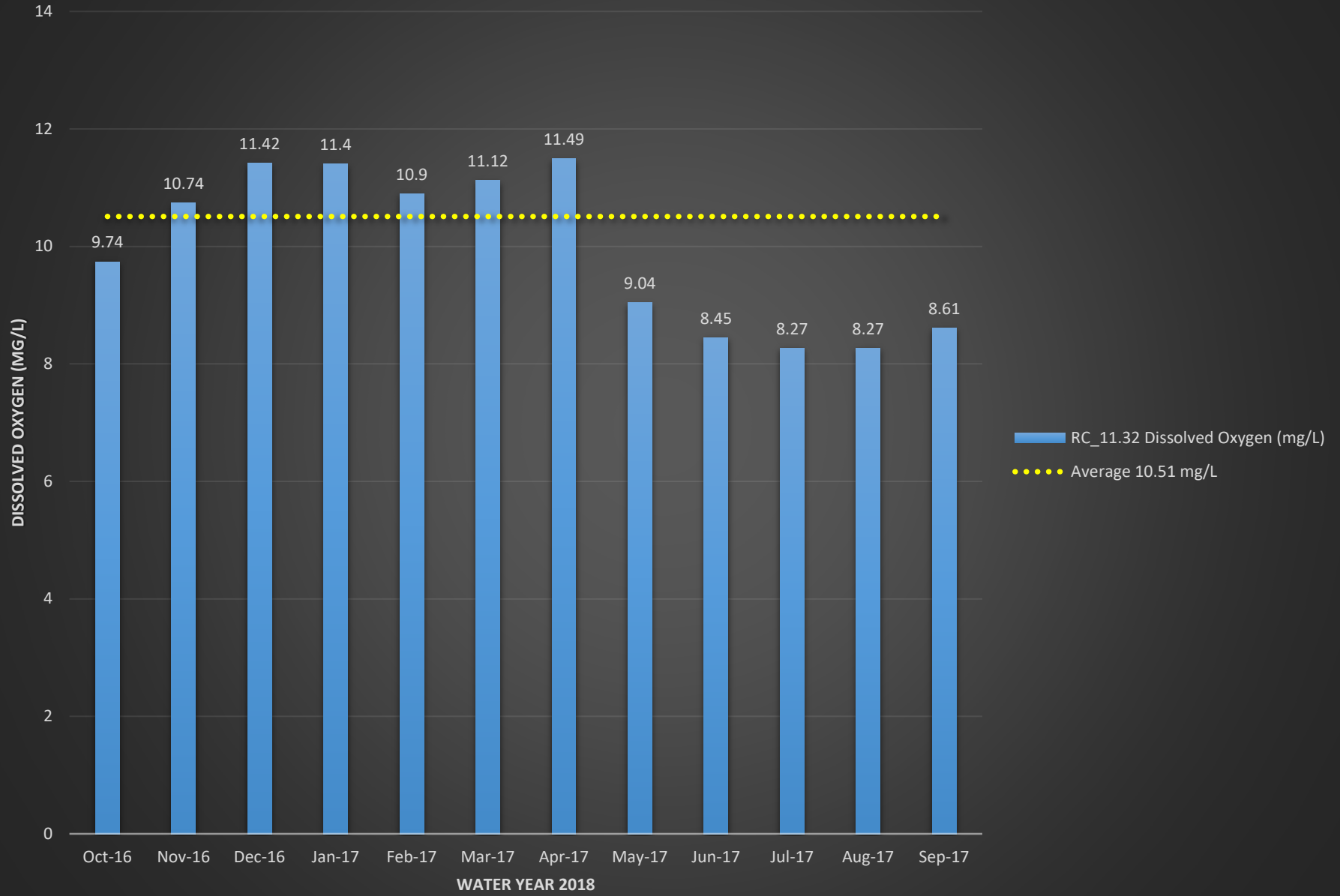
# RC\_11.32 Temperature (°C)



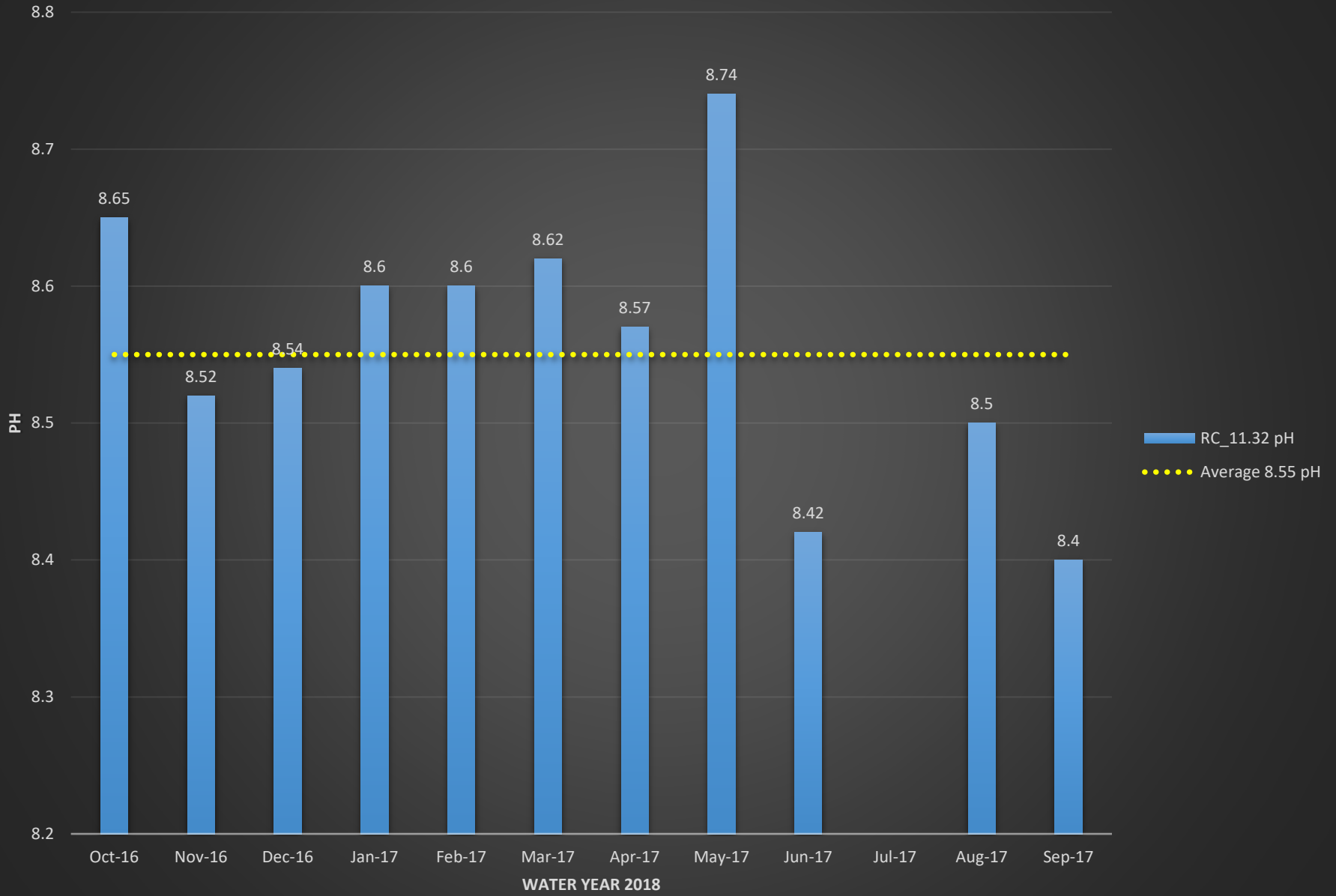
# RC\_11.32 Dissolved Oxygen (%)



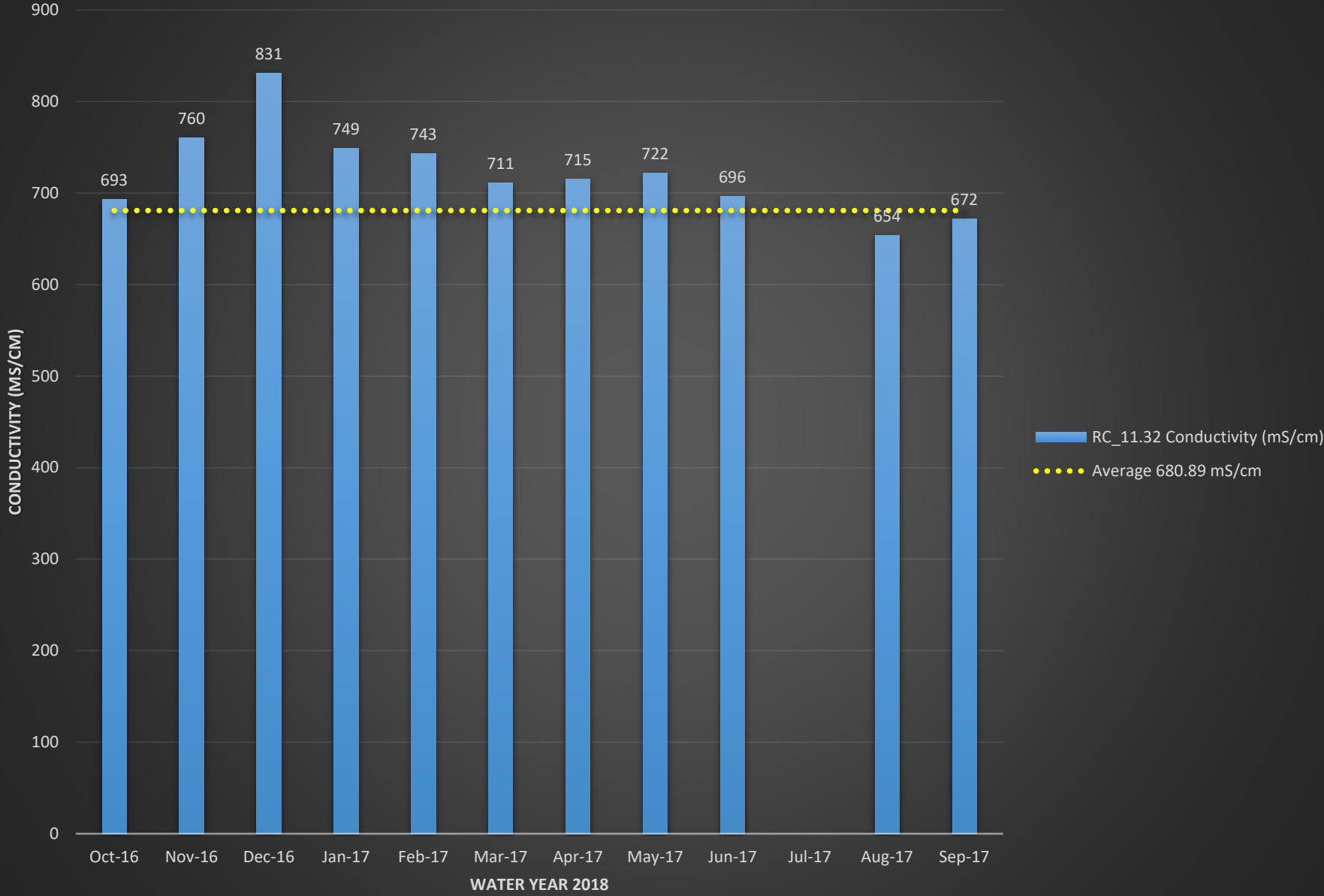
# RC\_11.32 Dissolved Oxygen (mg/L)



# RC\_11.32 pH



# RC\_11.32 Conductivity (mS/cm)



# RC\_11.32 Turbidity (NTU)

