Figure 1
Sampling Times Compared to Flow at USGS Washburn Gage
Summer 2001

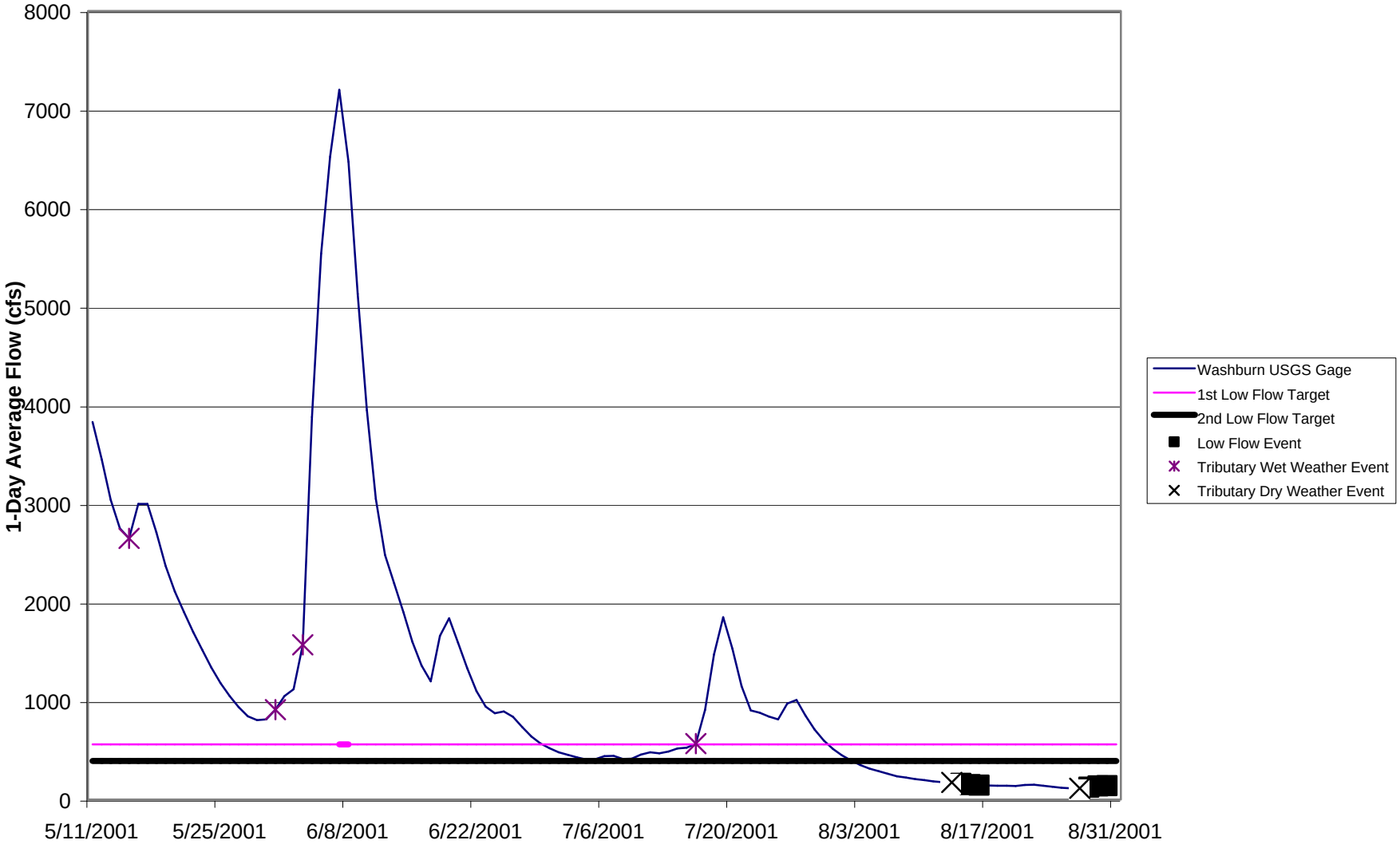


Figure 2
River Flow at Washburn USGS Gage Compared to 7Q10
Summer 2001

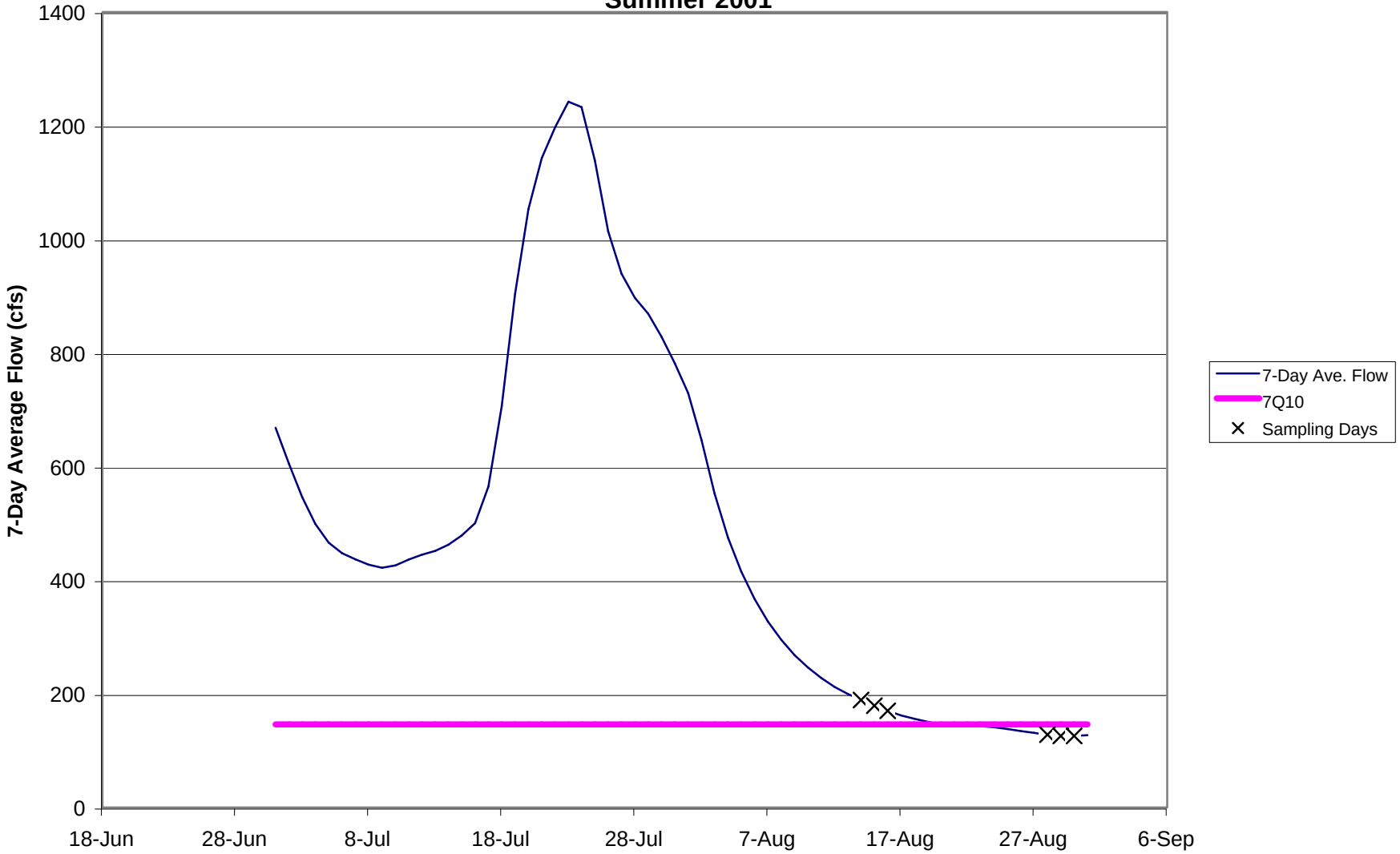
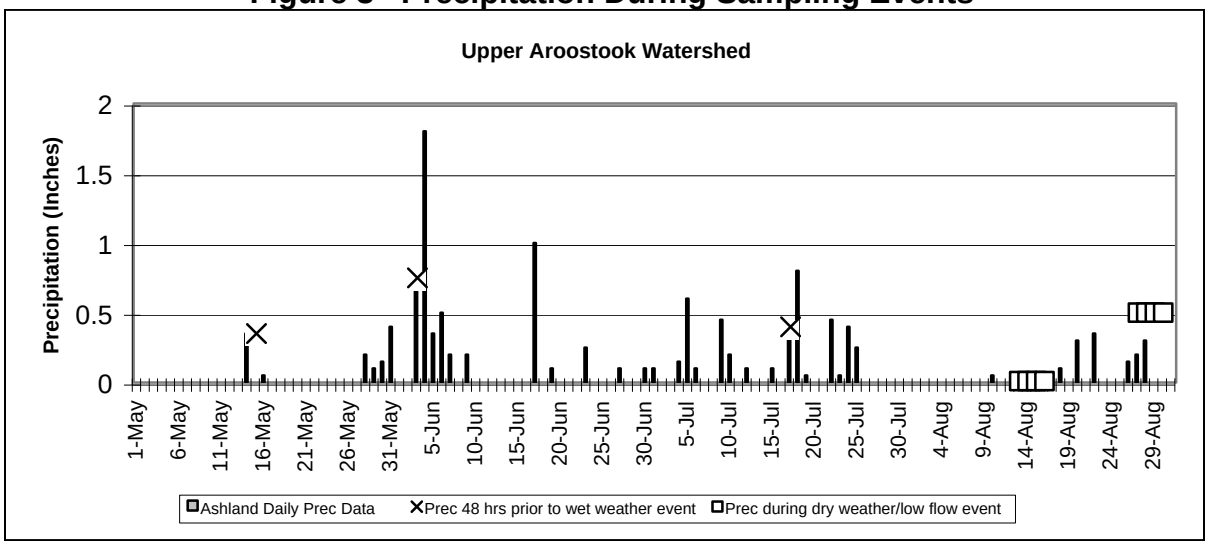
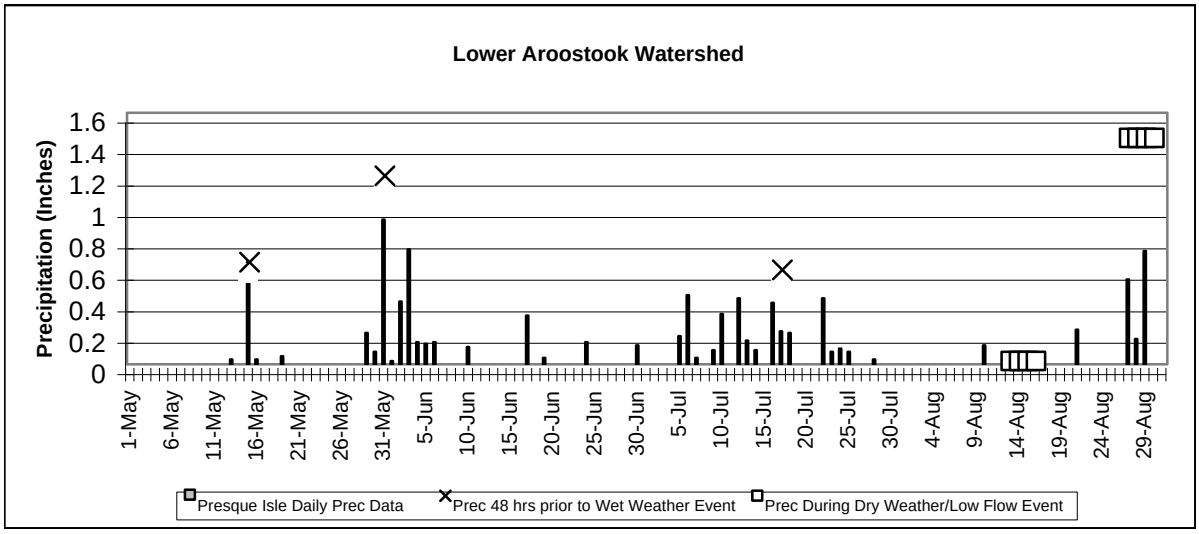


Figure 3 Precipitation During Sampling Events





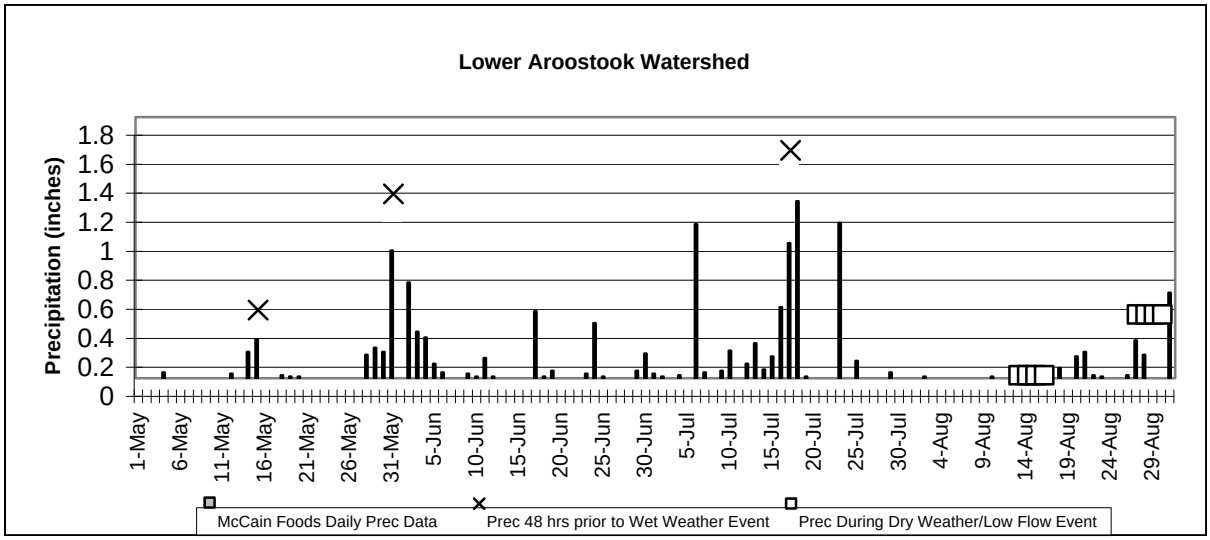


Figure 4
Average Temperature

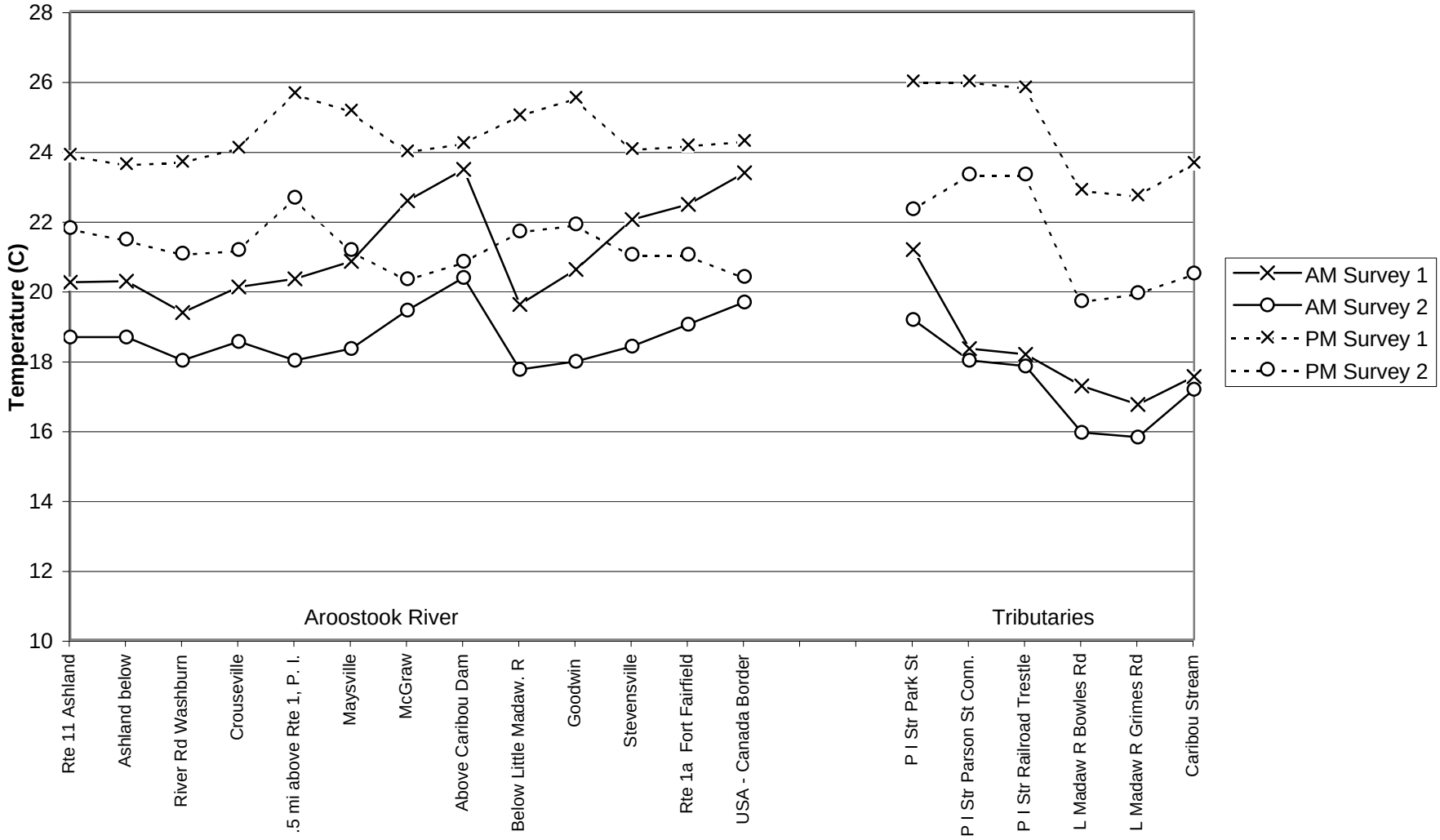


Figure 5
Diurnal Temperature

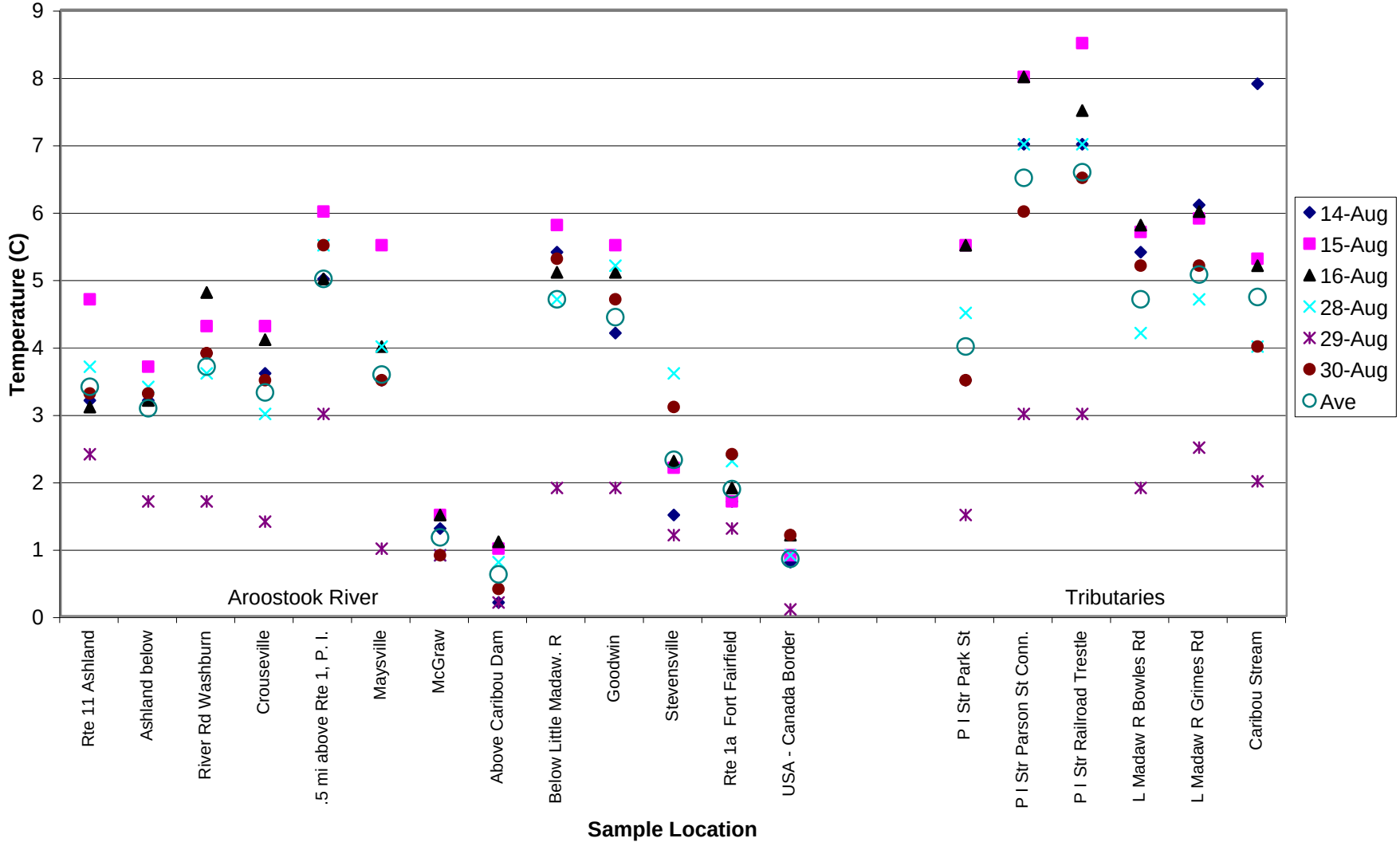


Figure 6
Diurnal Dissolved Oxygen

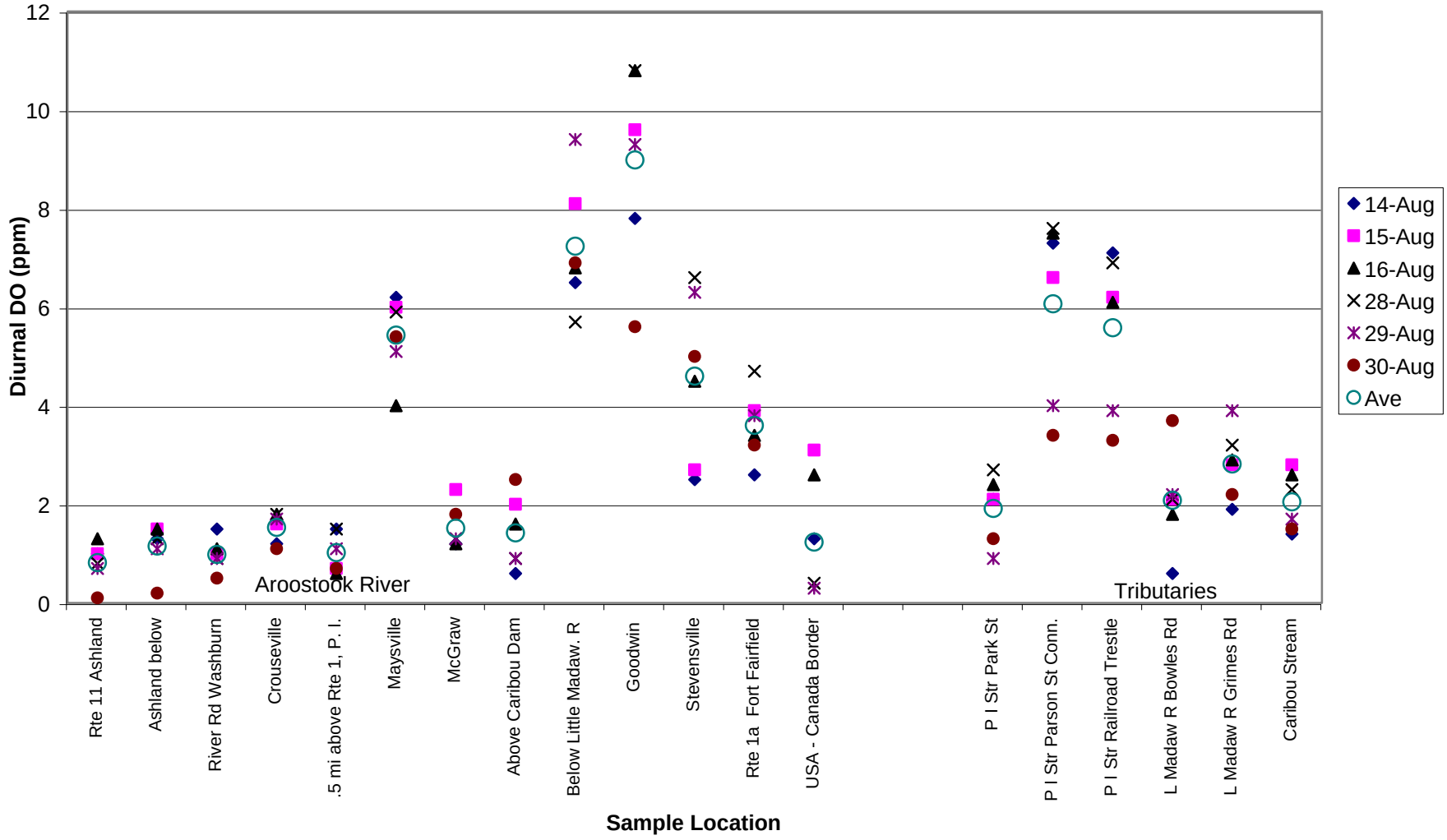


Figure 7
Summary of Minimum Dissolved Oxygen

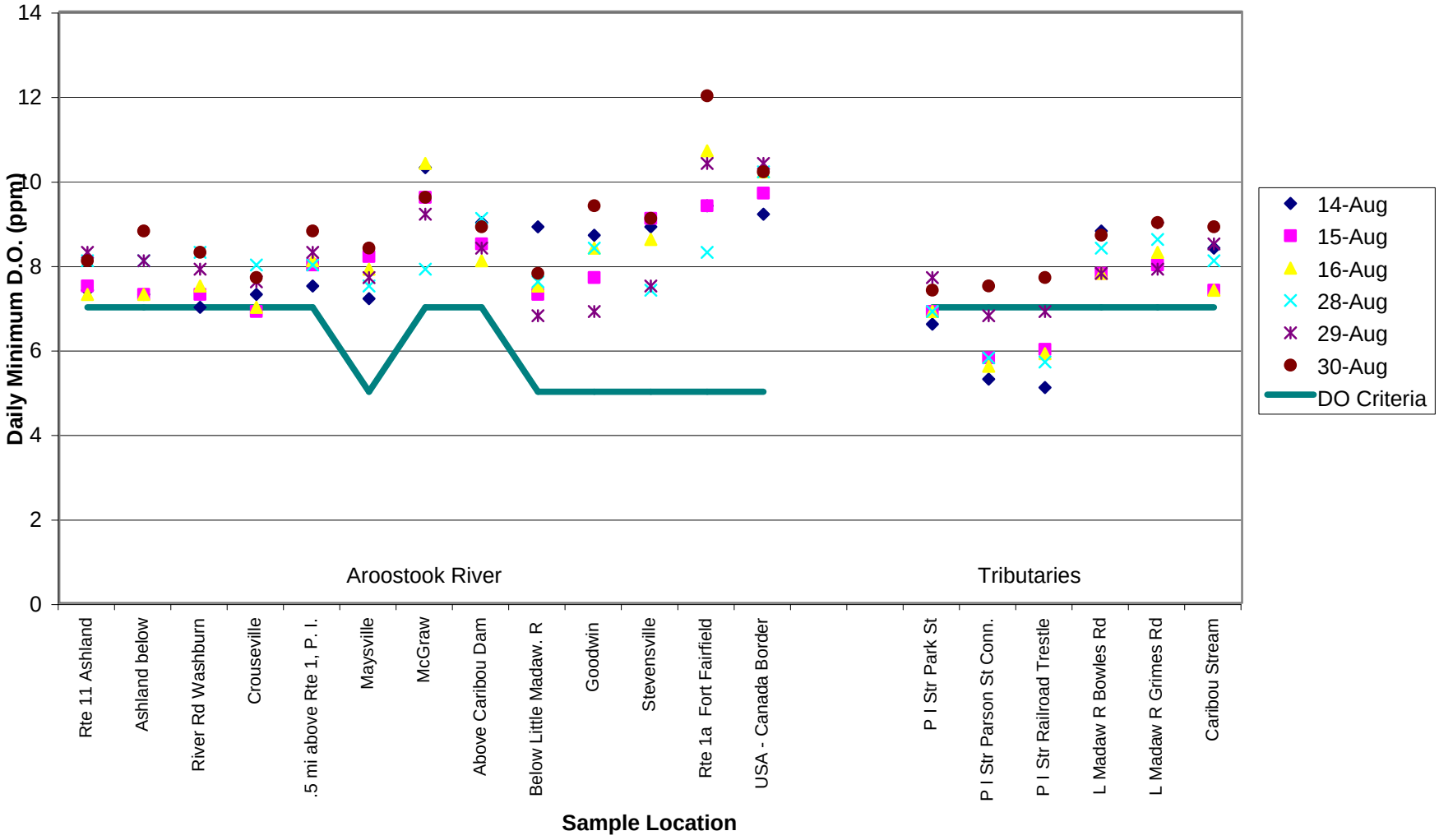
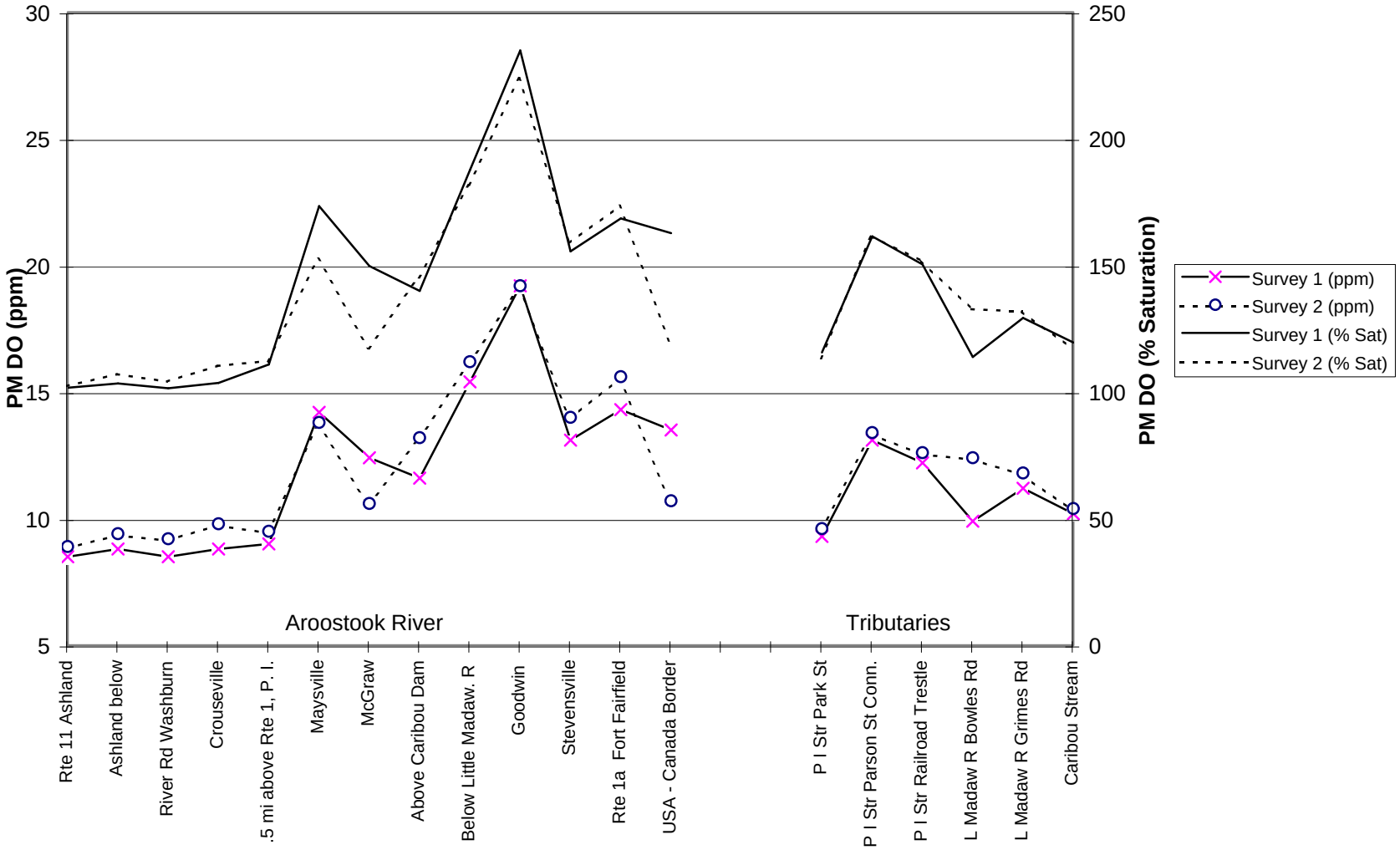


Figure 8
Afternoon Maximum Dissolved Oxygen



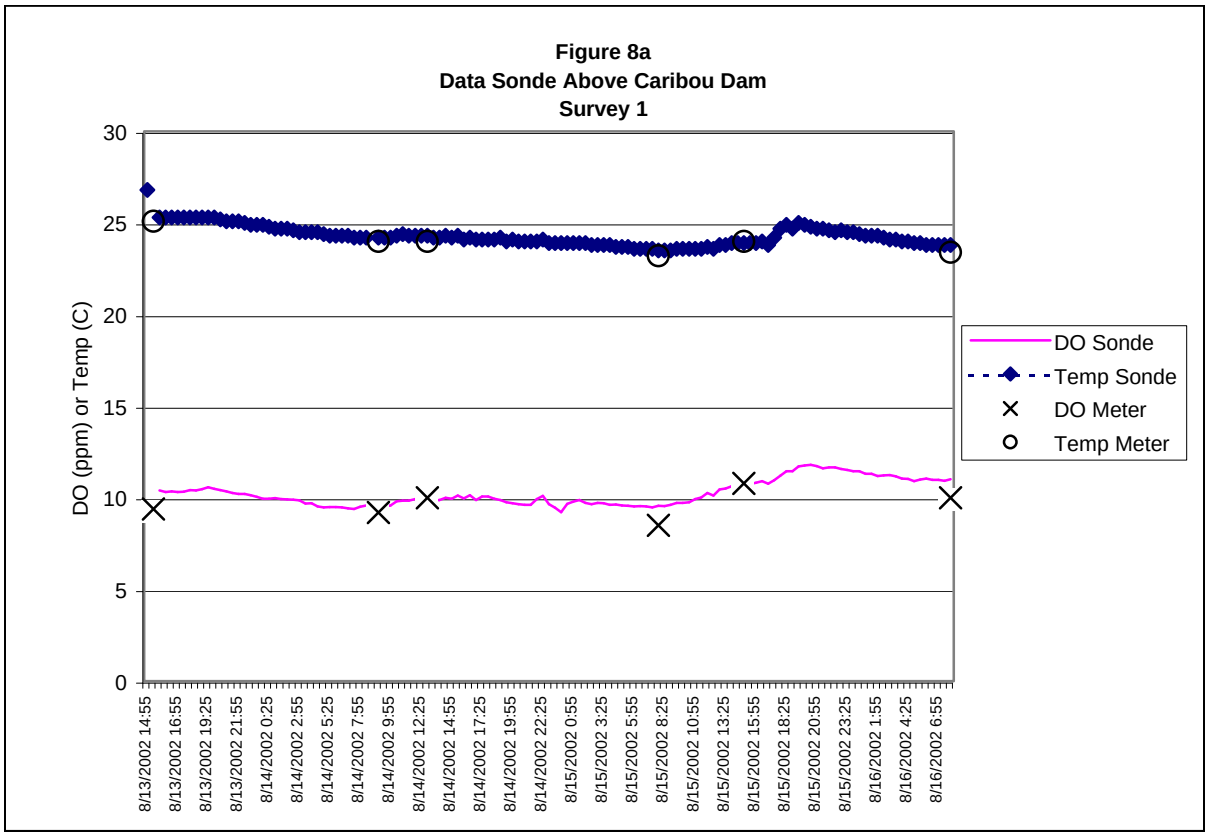


Figure 8a
Data Sonde Above Caribou Dam
Survey 1
DO (ppm) or Temp (C)
30
25
20
15
10
5
0
8/13/2002 14:55
8/13/2002 16:55
8/13/2002 19:25
8/13/2002 21:55
8/14/2002 0:25
8/14/2002 2:55
8/14/2002 5:25
8/14/2002 7:55
8/14/2002 9:55
8/14/2002 12:25
8/14/2002 14:55
8/14/2002 17:25
8/14/2002 19:55
8/14/2002 22:25
8/15/2002 0:55
8/15/2002 3:25
8/15/2002 5:55
8/15/2002 8:25
8/15/2002 10:55
8/15/2002 13:25
8/15/2002 15:55
8/15/2002 18:25
8/15/2002 20:55
8/15/2002 23:25
8/16/2002 1:55
8/16/2002 4:25
8/16/2002 6:55
DO Sonde
Temp Sonde
DO Meter
Temp Meter

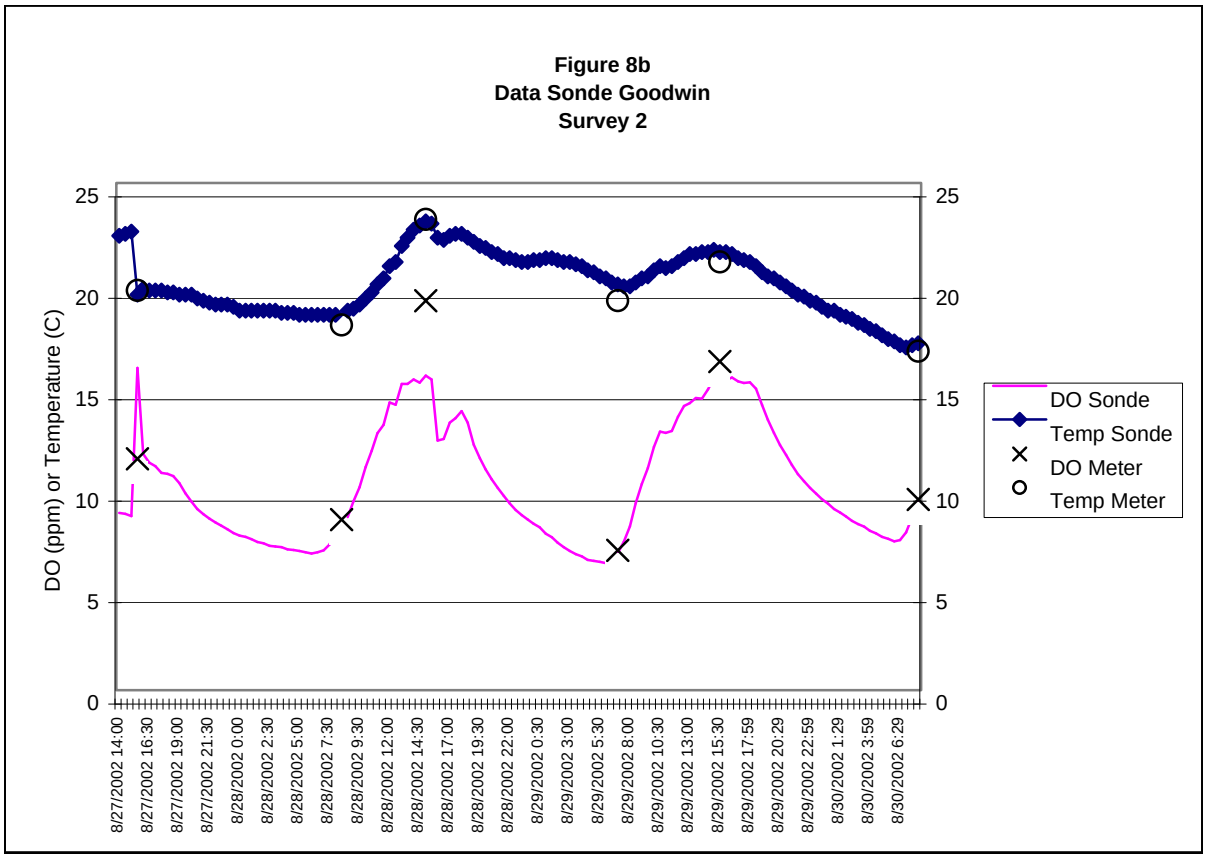


Figure 8b
Data Sonde Goodwin
Survey 2
DO (ppm) or Temperature (C)
25
20
15
10
5
0
8/27/2002 14:00
8/27/2002 16:30
8/27/2002 19:00
8/27/2002 21:30
8/28/2002 0:00
8/28/2002 2:30
8/28/2002 5:00
8/28/2002 7:30
8/28/2002 9:30
8/28/2002 12:00
8/28/2002 14:30
8/28/2002 17:00
8/28/2002 19:30
8/28/2002 22:00
8/29/2002 0:30
8/29/2002 3:00
8/29/2002 5:30
8/29/2002 8:00
8/29/2002 10:30
8/29/2002 13:00
8/29/2002 15:30
8/29/2002 17:59
8/29/2002 20:29
8/29/2002 22:59
8/30/2002 1:29
8/30/2002 3:59
8/30/2002 6:29
DO Sonde
Temp Sonde
DO Meter
Temp Meter

Figure 9
Total Phosphorus

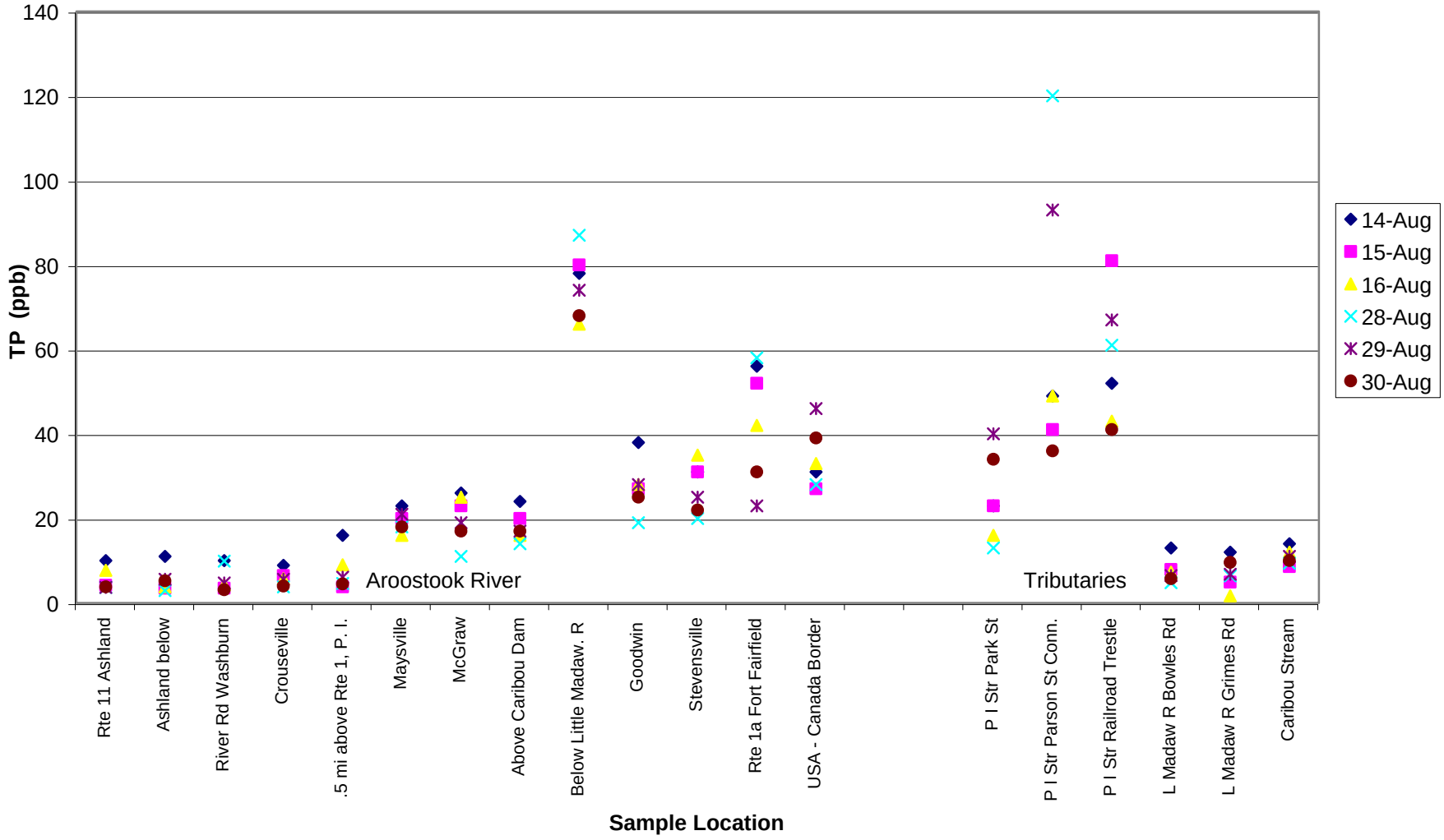


Figure 10
Total Nitrogen

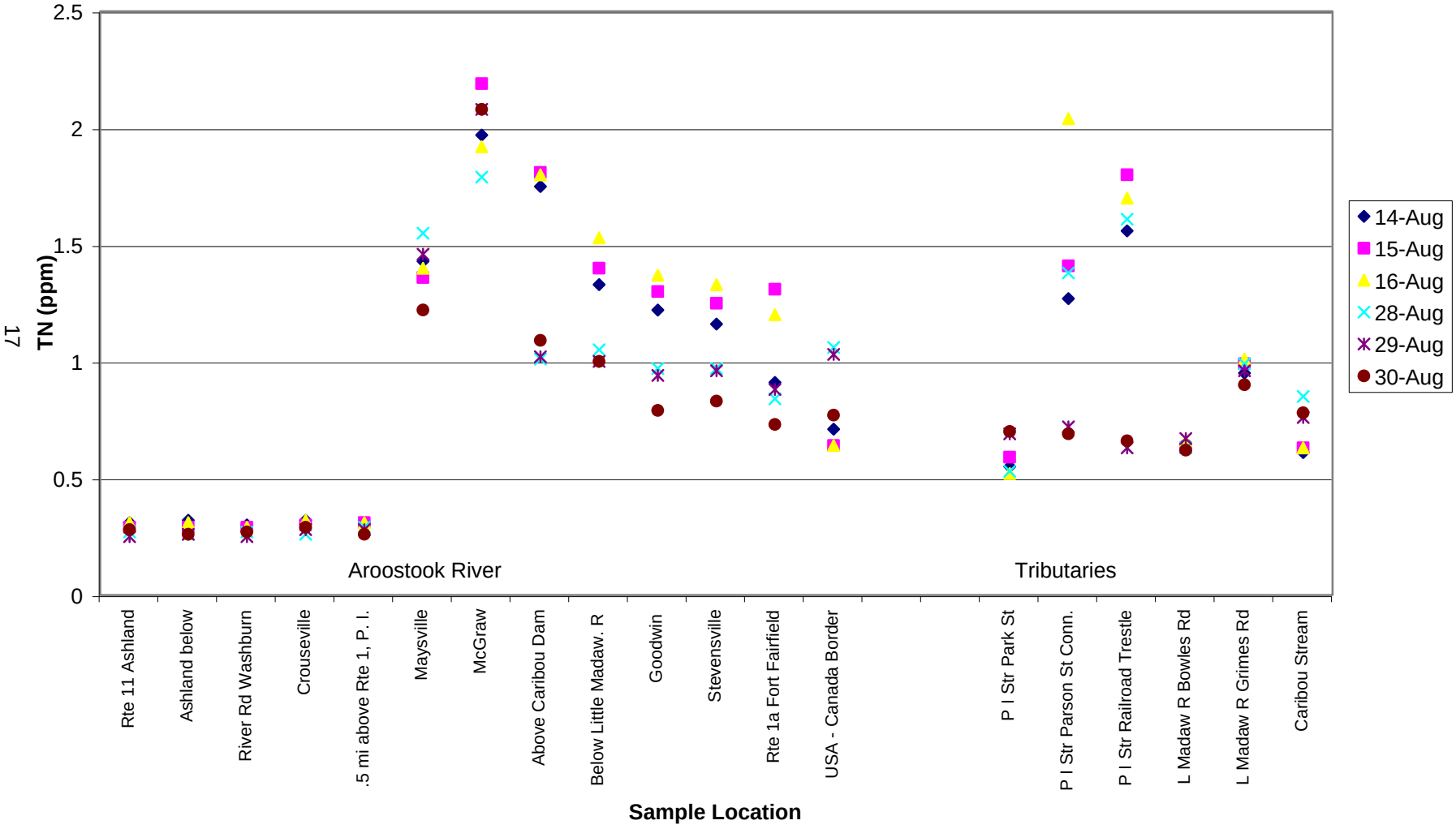


Figure 11
Chlorophyll A

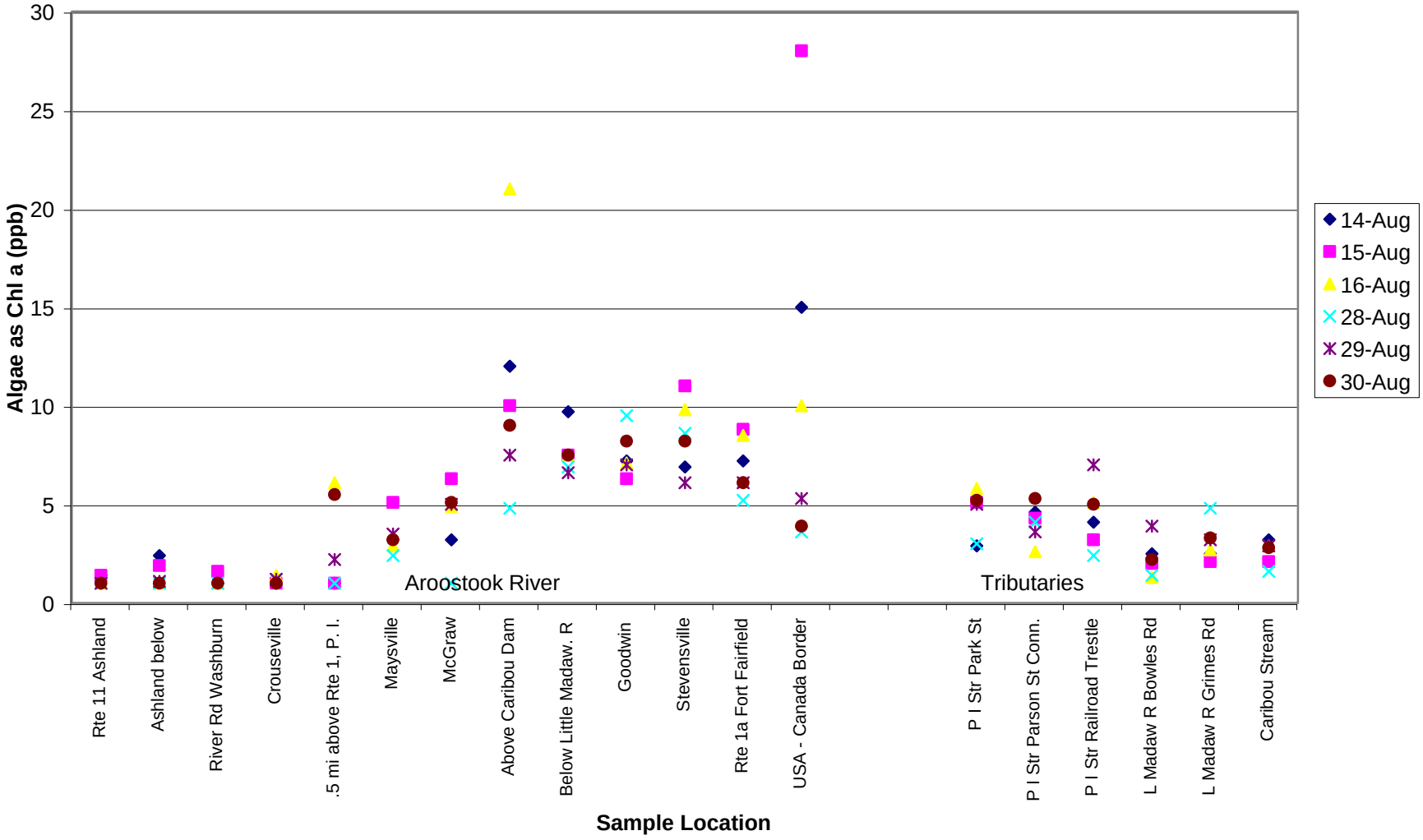


Figure 12
Total Ultimate BOD

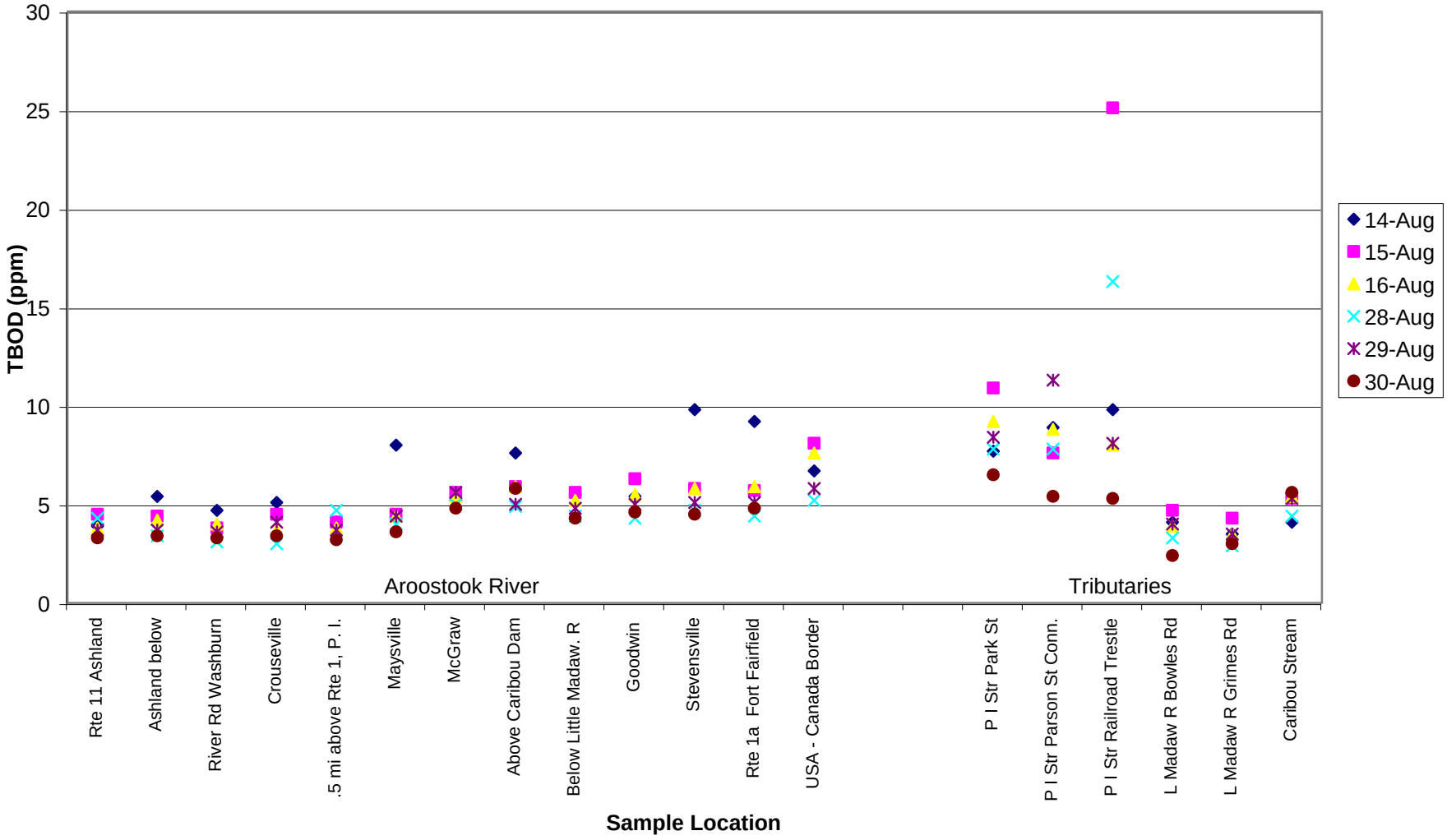


Figure 13
Effluent Total Phosphorus Discharged
8/13 to 8/15 and 8/27 to 8/29

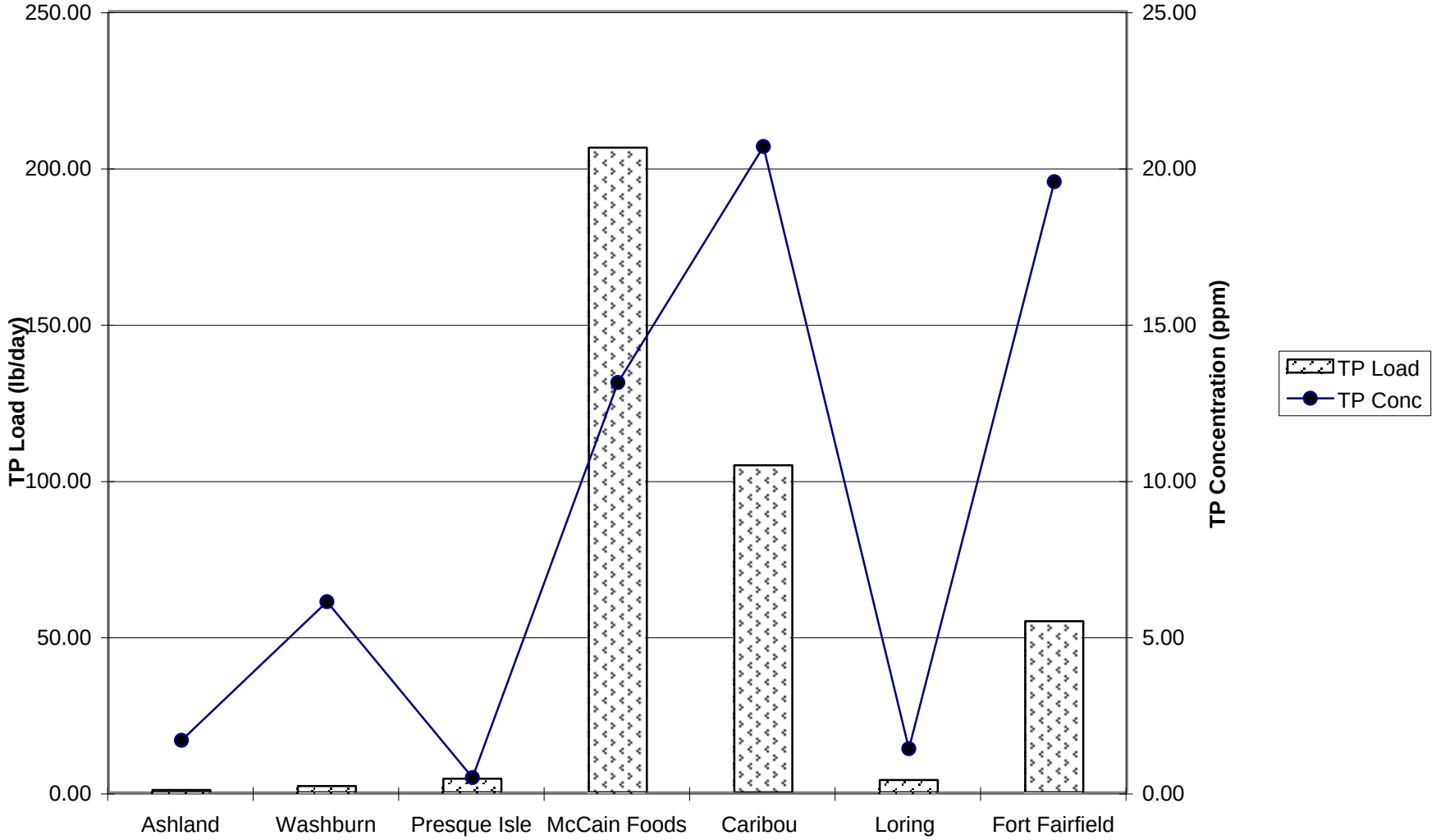


Figure 14
Effluent Total Nitrogen Discharged
8/13 to 8/15 and 8/27 to 8/29

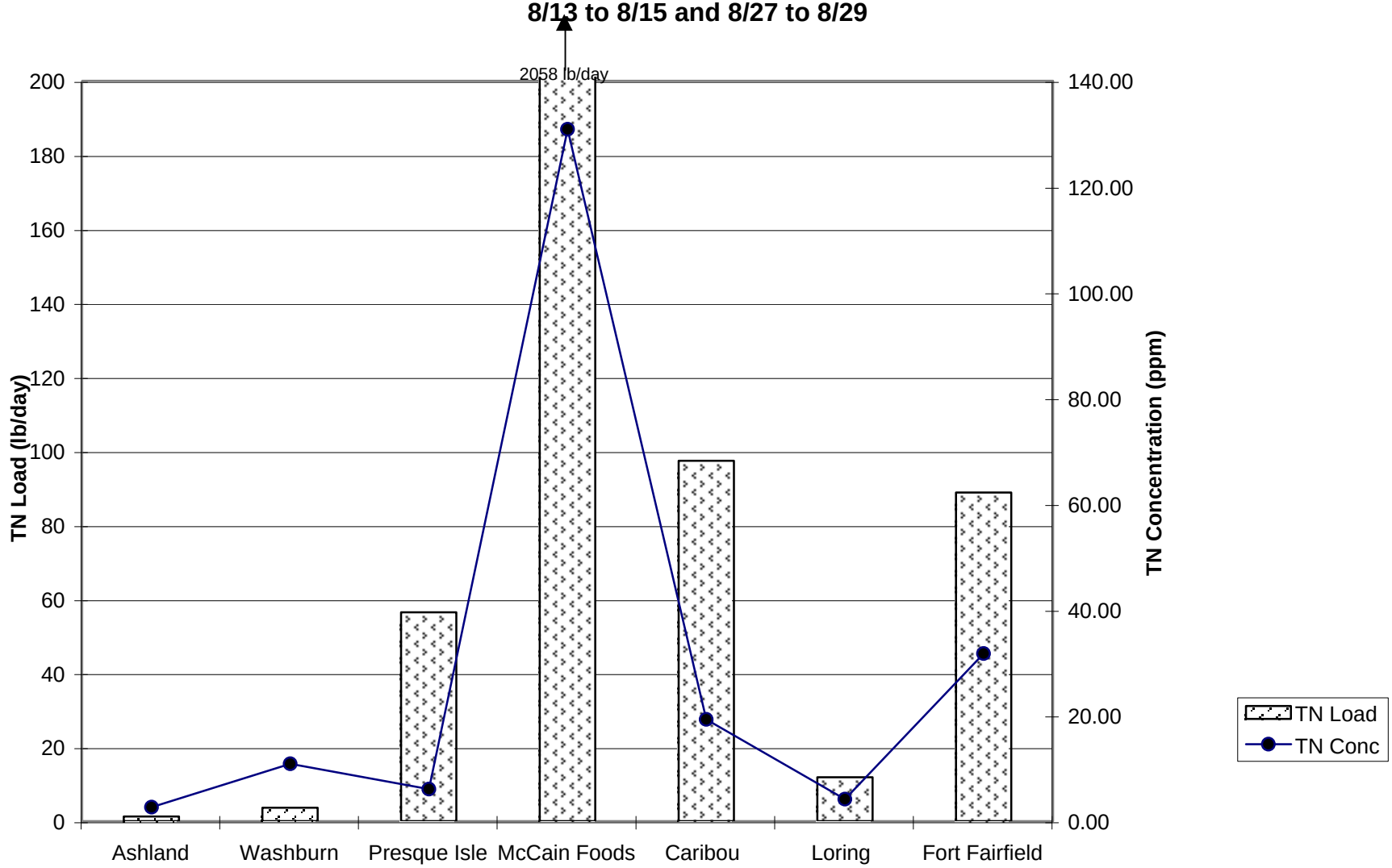


Figure 15
Effluent Total Ultimate BOD Discharged
8/13 to 8/15 and 8/27 to 8/29

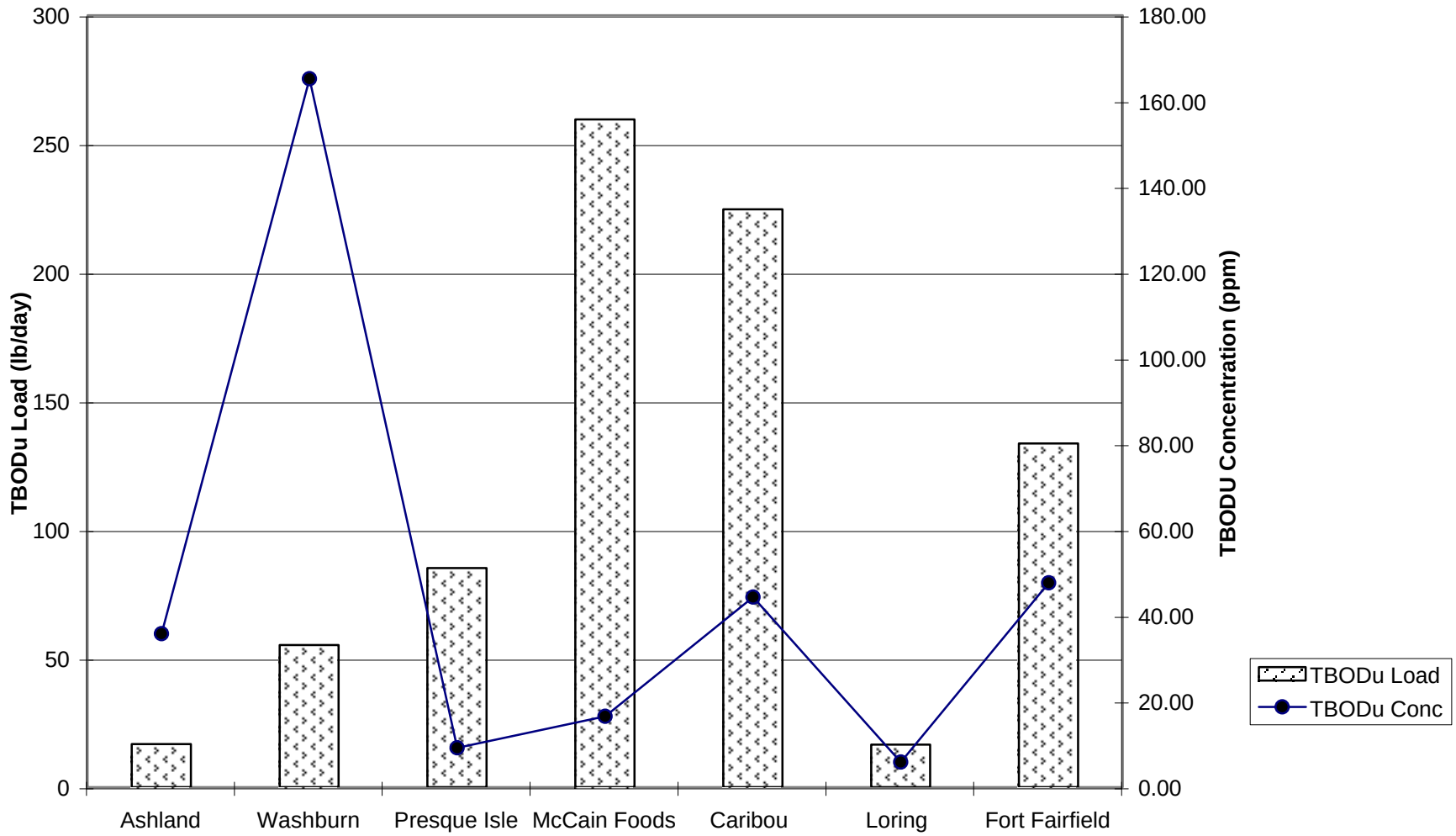


Figure 16
Effluent BOD5 Discharged Compared to Licensed BOD5

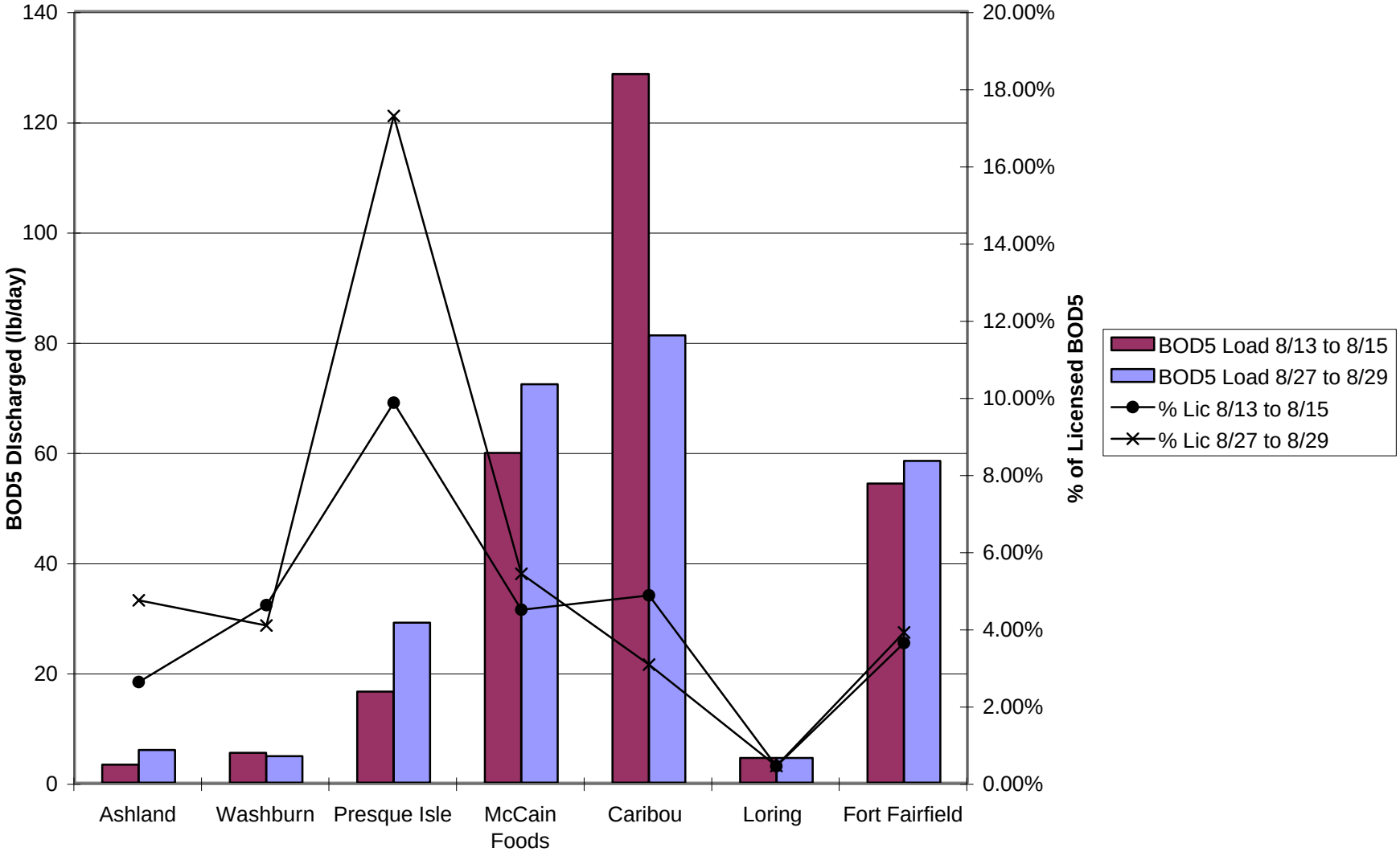


Figure 17
Tributary Sampling TSS

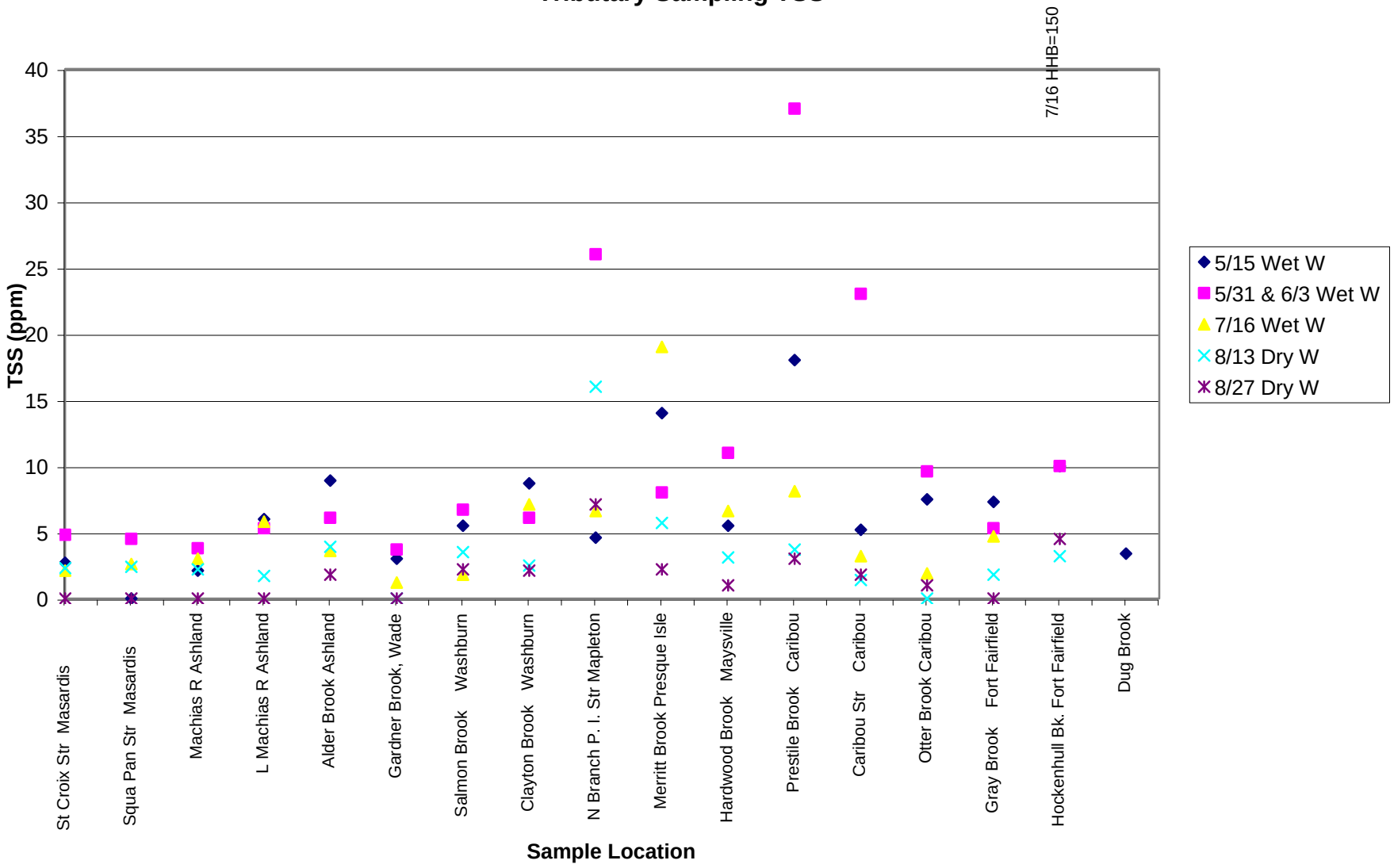


Figure 18
Tributary Sampling TP

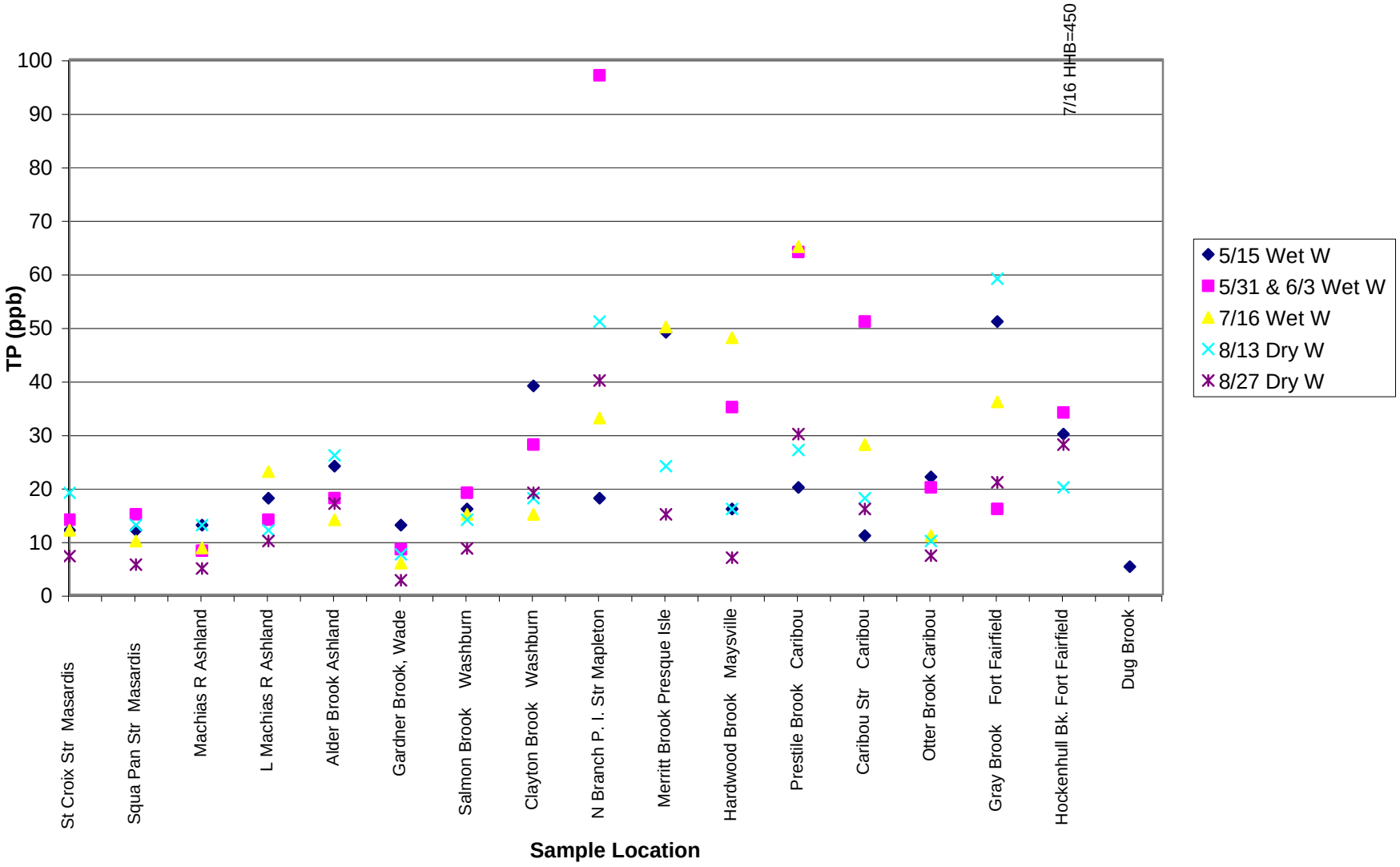
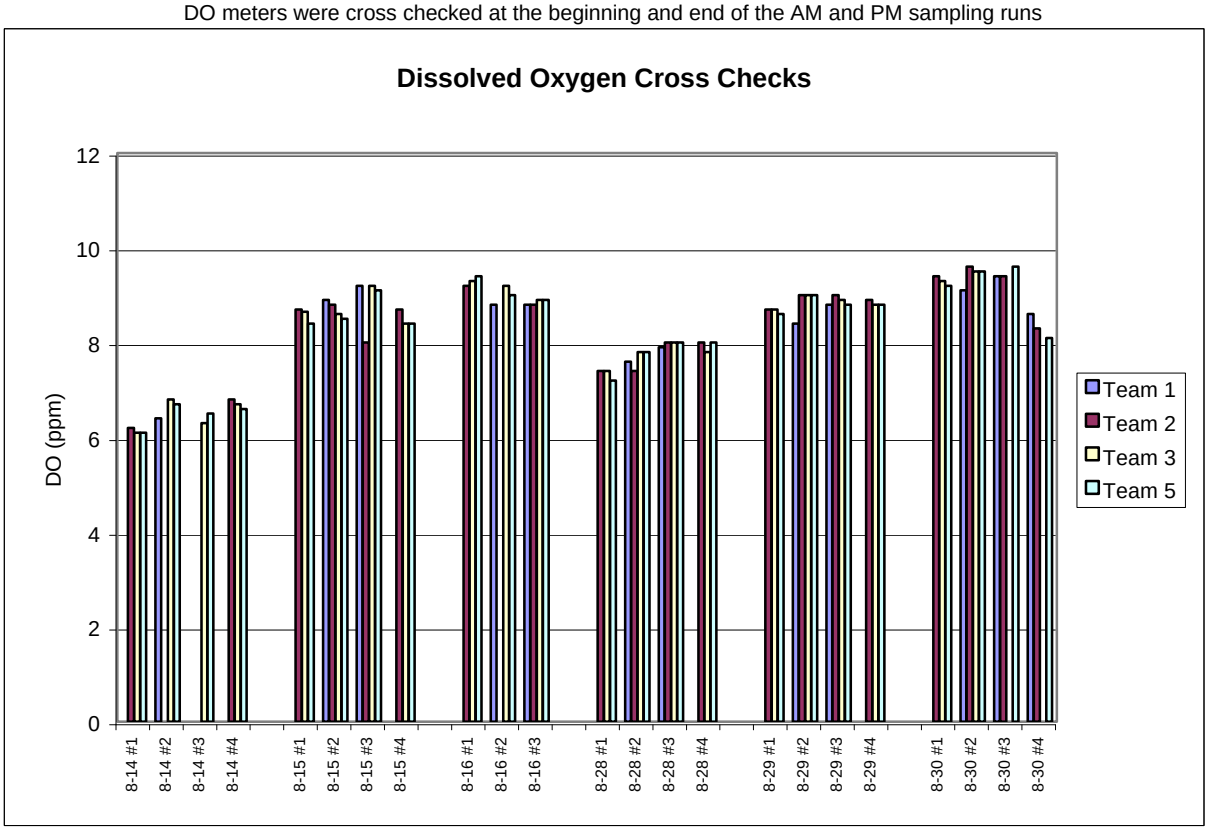
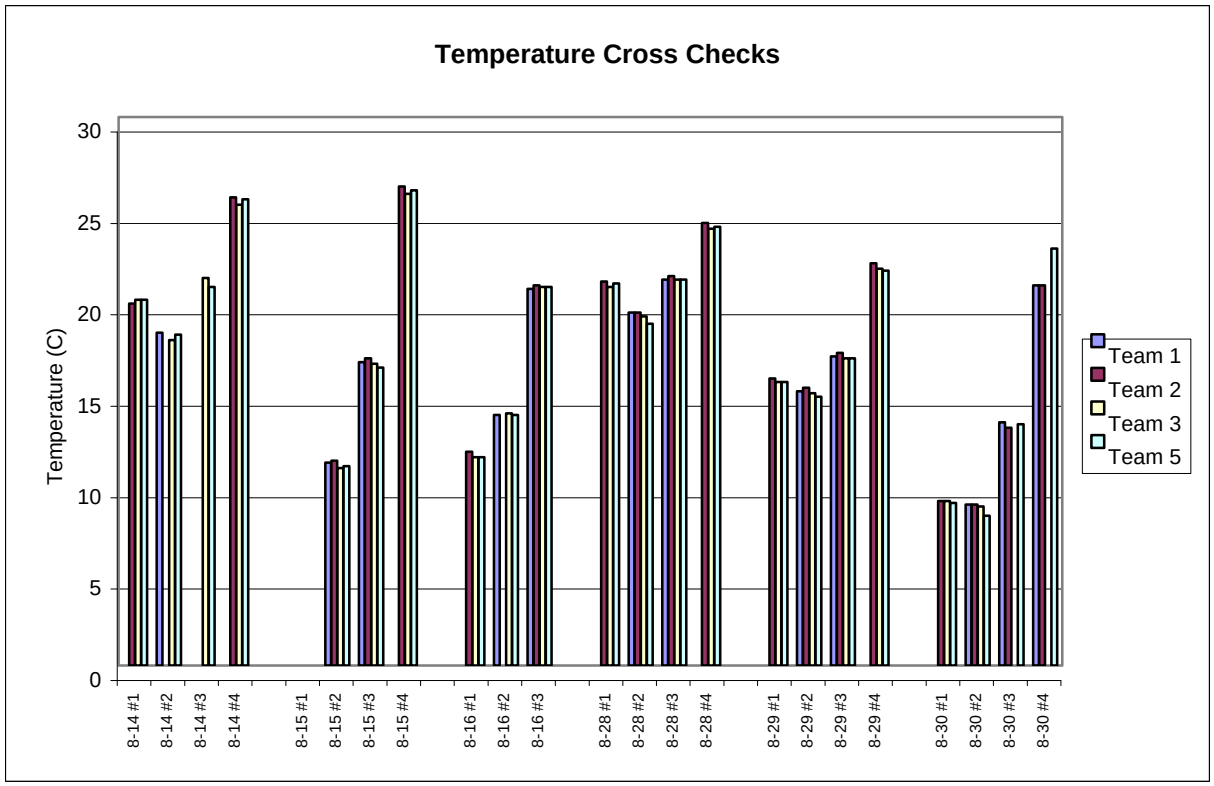


Figure 19 Dissolved Oxygen Meter Field Cross Checks

DO meters were cross checked at the beginning and end of the AM and PM sampling runs





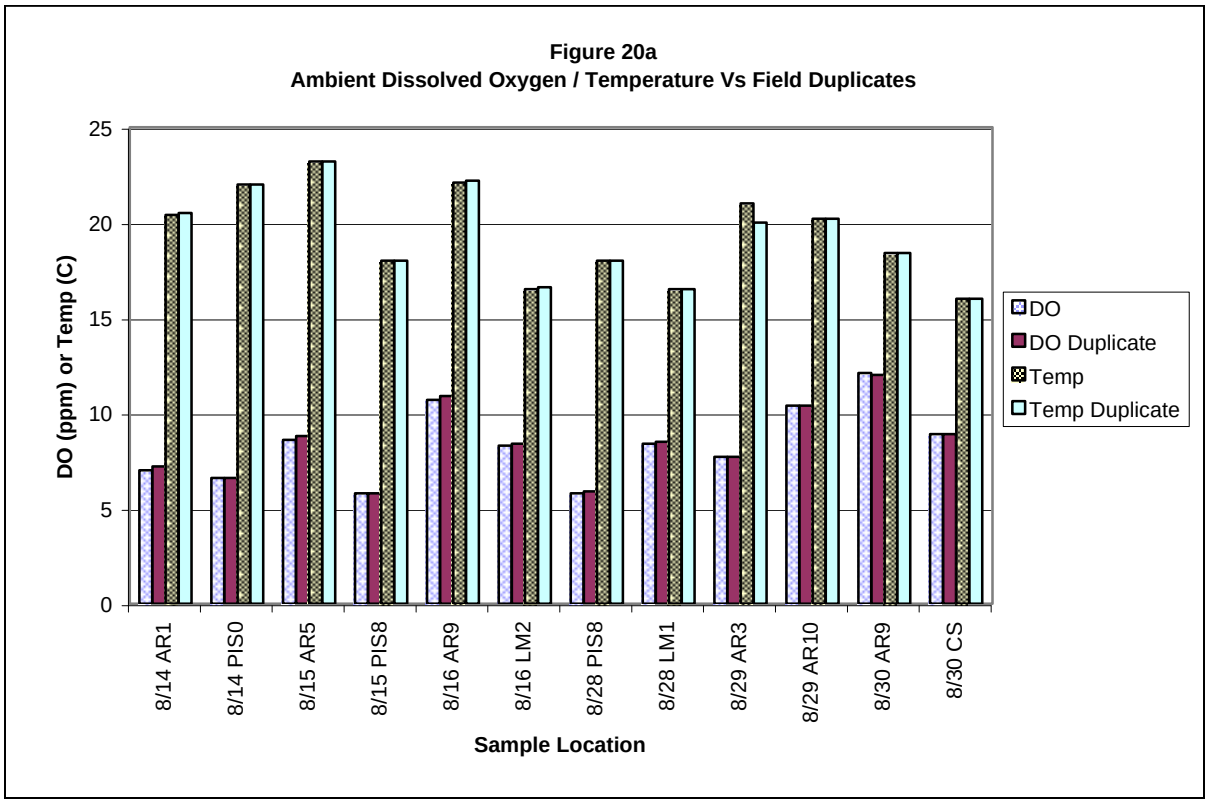


Figure 20a
Ambient Dissolved Oxygen / Temperature Vs Field Duplicates
DO (ppm) or Temp (C)
25
20
15
10
5
0
8/14 AR1
8/14 PIS0
8/15 AR5
8/15 PIS8
8/16 AR9
8/16 LM2
8/28 PIS8
8/28 LM1
8/29 AR3
8/29 AR10
8/30 AR9
8/30 CS
Sample Location
DO
DO Duplicate
Temp
Temp Duplicate

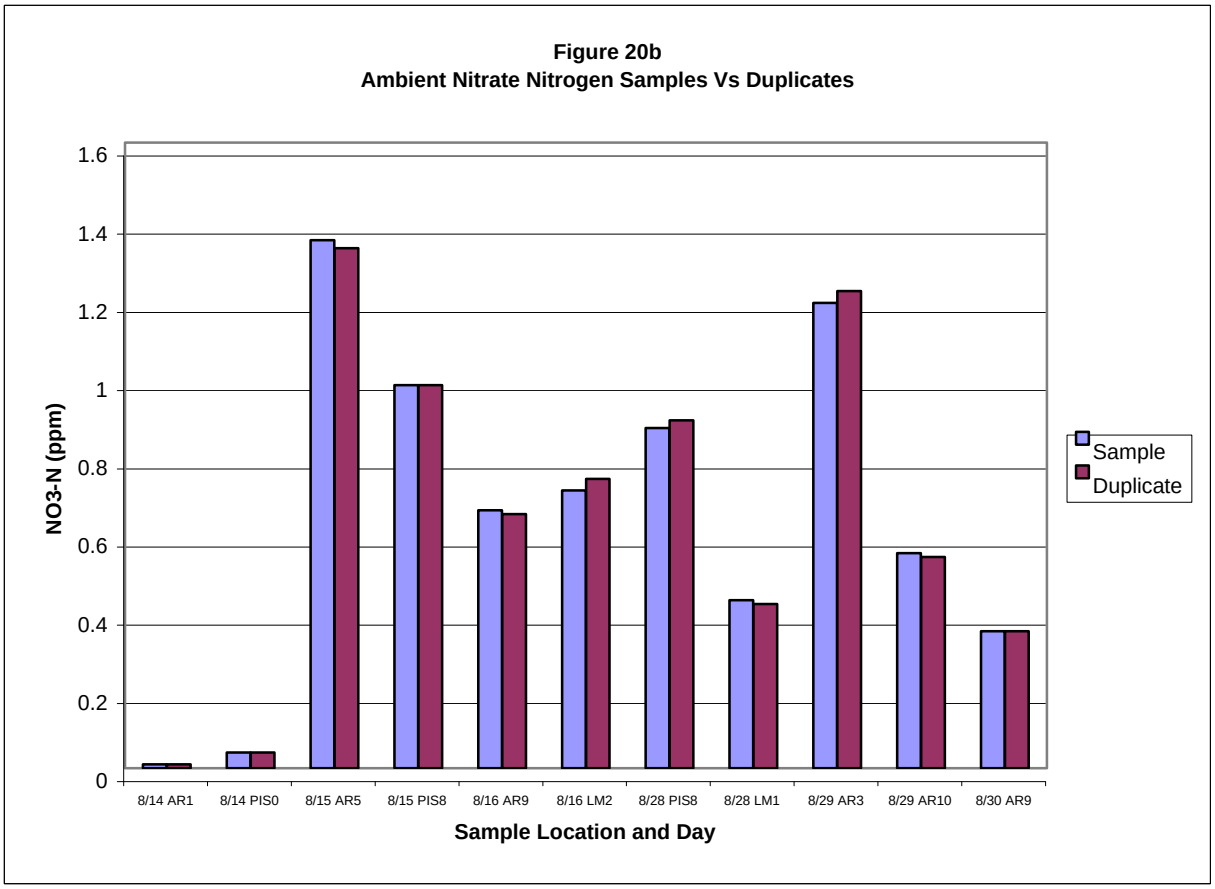


Figure 20b
Ambient Nitrate Nitrogen Samples Vs Duplicates
NO3-N (ppm)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
8/14 AR1
8/14 PIS0
8/15 AR5
8/15 PIS8
8/16 AR9
8/16 LM2
8/28 PIS8
8/28 LM1
8/29 AR3
8/29 AR10
8/30 AR9
Sample Location and Day
Sample
Duplicate

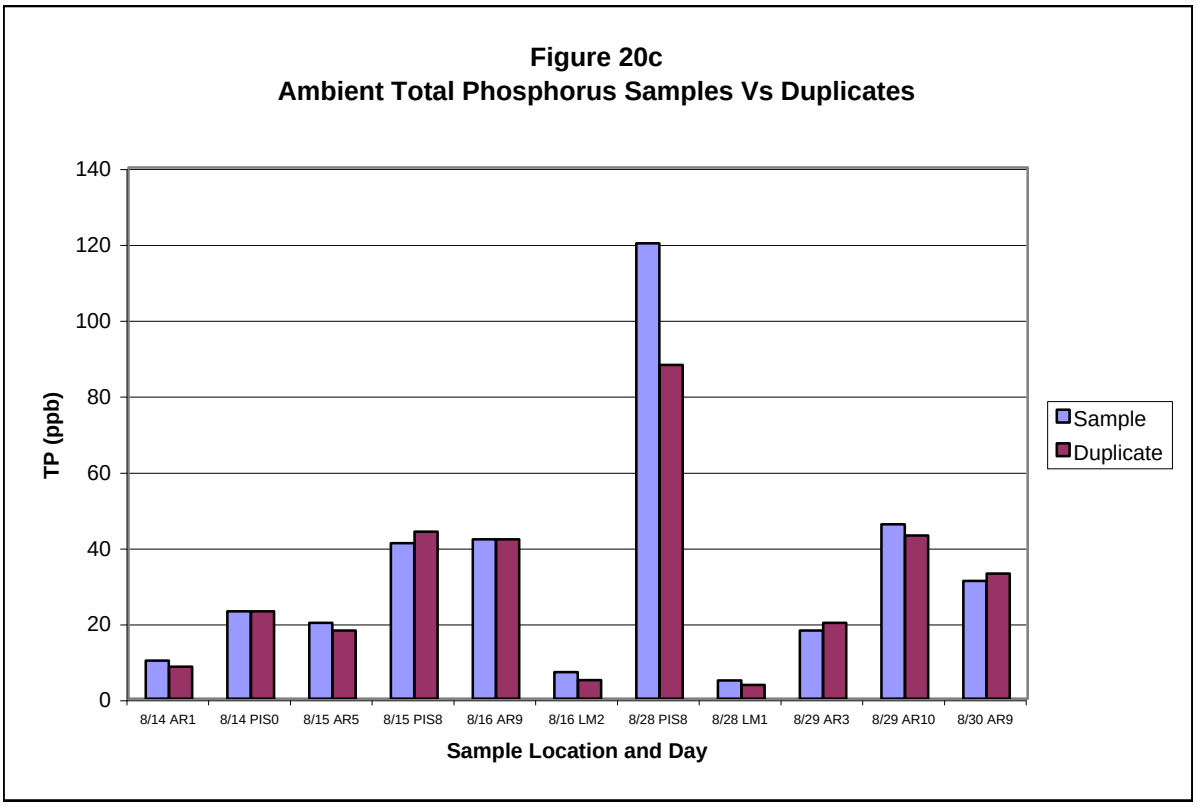


Figure 20c
Ambient Total Phosphorus Samples Vs Duplicates
TP (ppb)
140
120
100
80
60
40
20
0
8/14 AR1
8/14 PIS0
8/15 AR5
8/15 PIS8
8/16 AR9
8/16 LM2
8/28 PIS8
8/28 LM1
8/29 AR3
8/29 AR10
8/30 AR9
Sample Location and Day
Sample
Duplicate

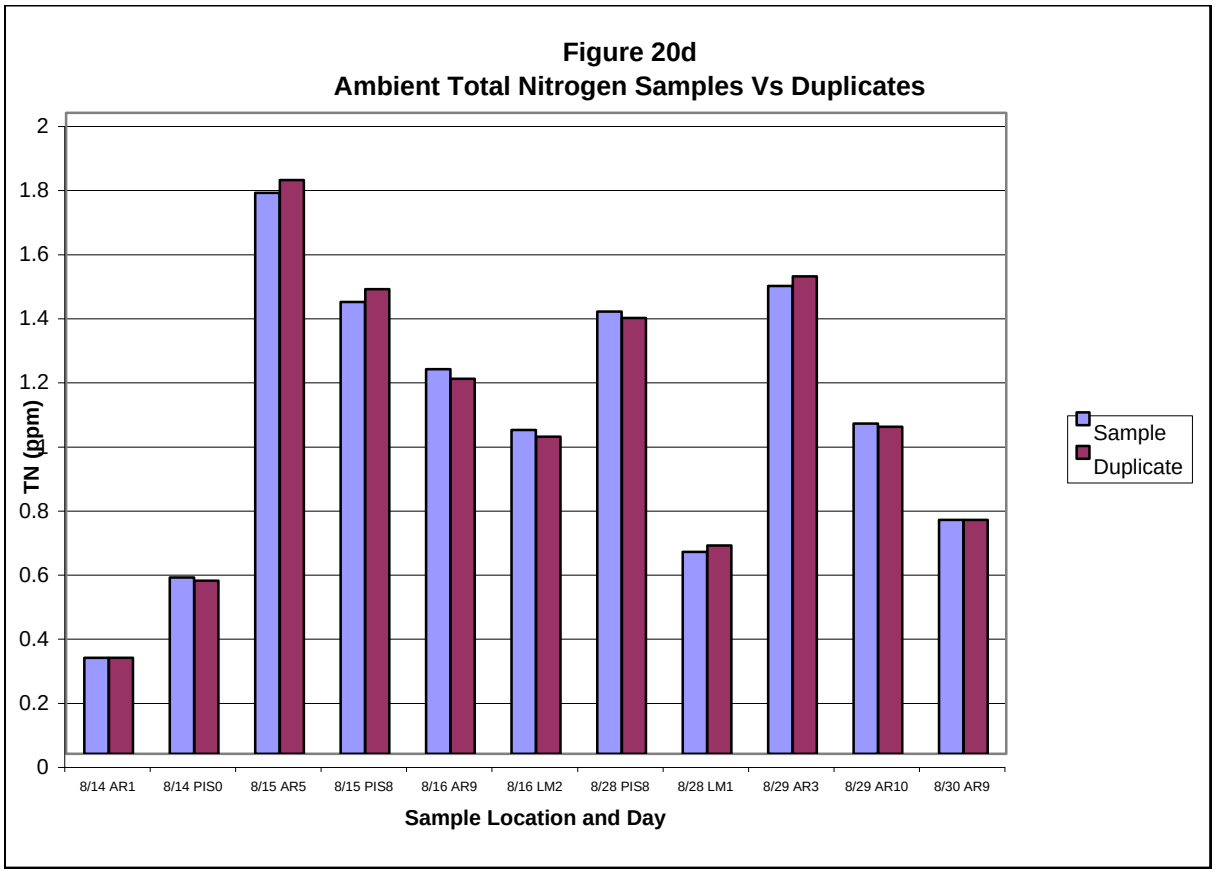


Figure 20d
Ambient Total Nitrogen Samples Vs Duplicates
TN (ppm)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
8/14 AR1
8/14 PIS0
8/15 AR5
8/15 PIS8
8/16 AR9
8/16 LM2
8/28 PIS8
8/28 LM1
8/29 AR3
8/29 AR10
8/30 AR9
Sample Location and Day
Sample
Duplicate

Figure 20e
Ambient Total BOD Samples Vs Duplicates

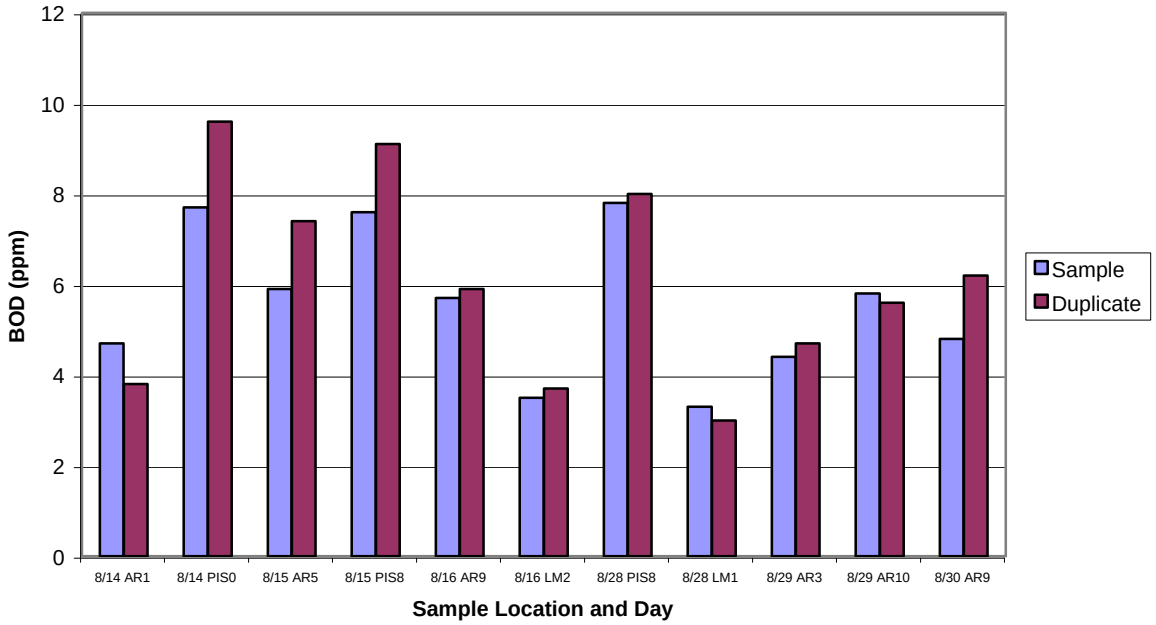
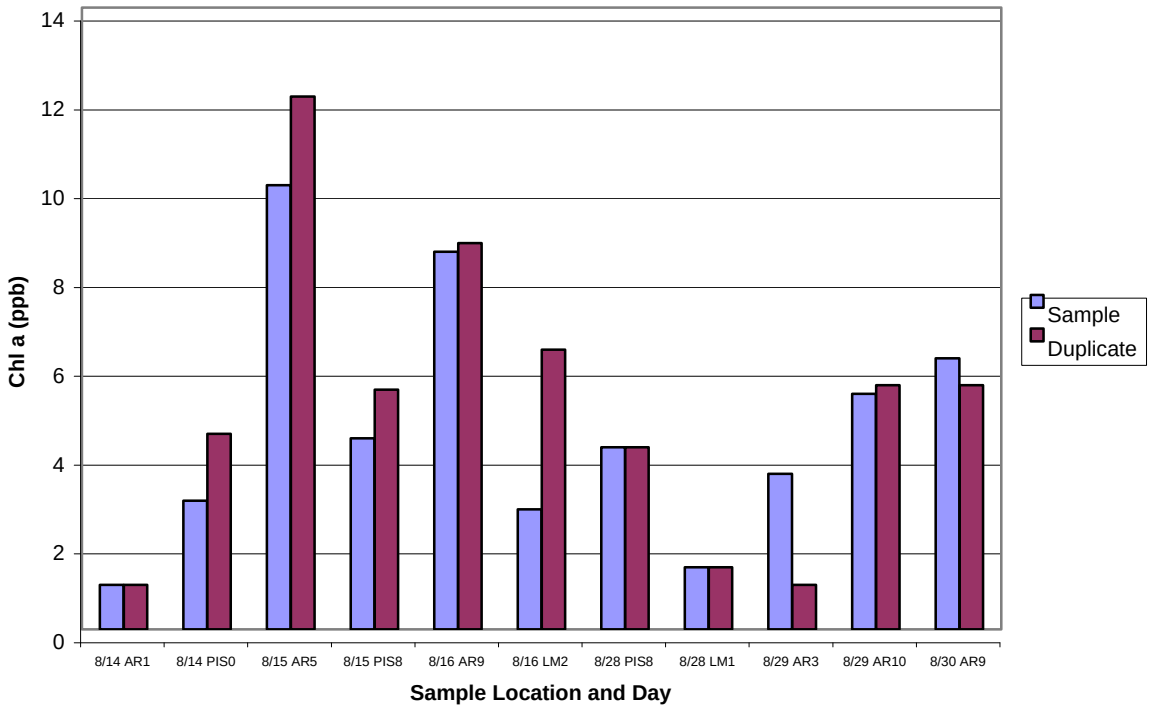
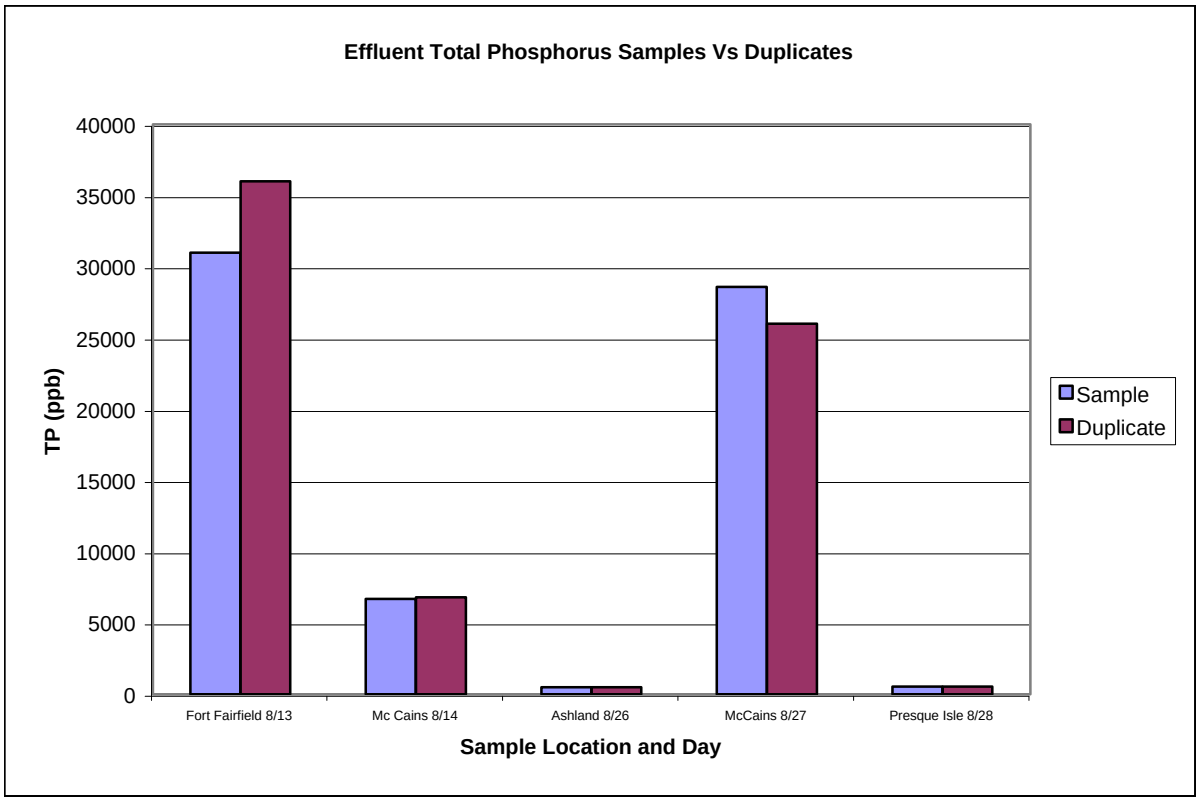


Figure 20f
Ambient Chlorophyll a Samples Vs Duplicates




Effluent Total Phosphorus Samples Vs Duplicates
TP (ppb)
40000
35000
30000
25000
20000
15000
10000
5000
0
Fort Fairfield 8/13
Mc Cains 8/14
Ashland 8/26
McCains 8/27
Presque Isle 8/28
Sample Location and Day
Sample
Duplicate

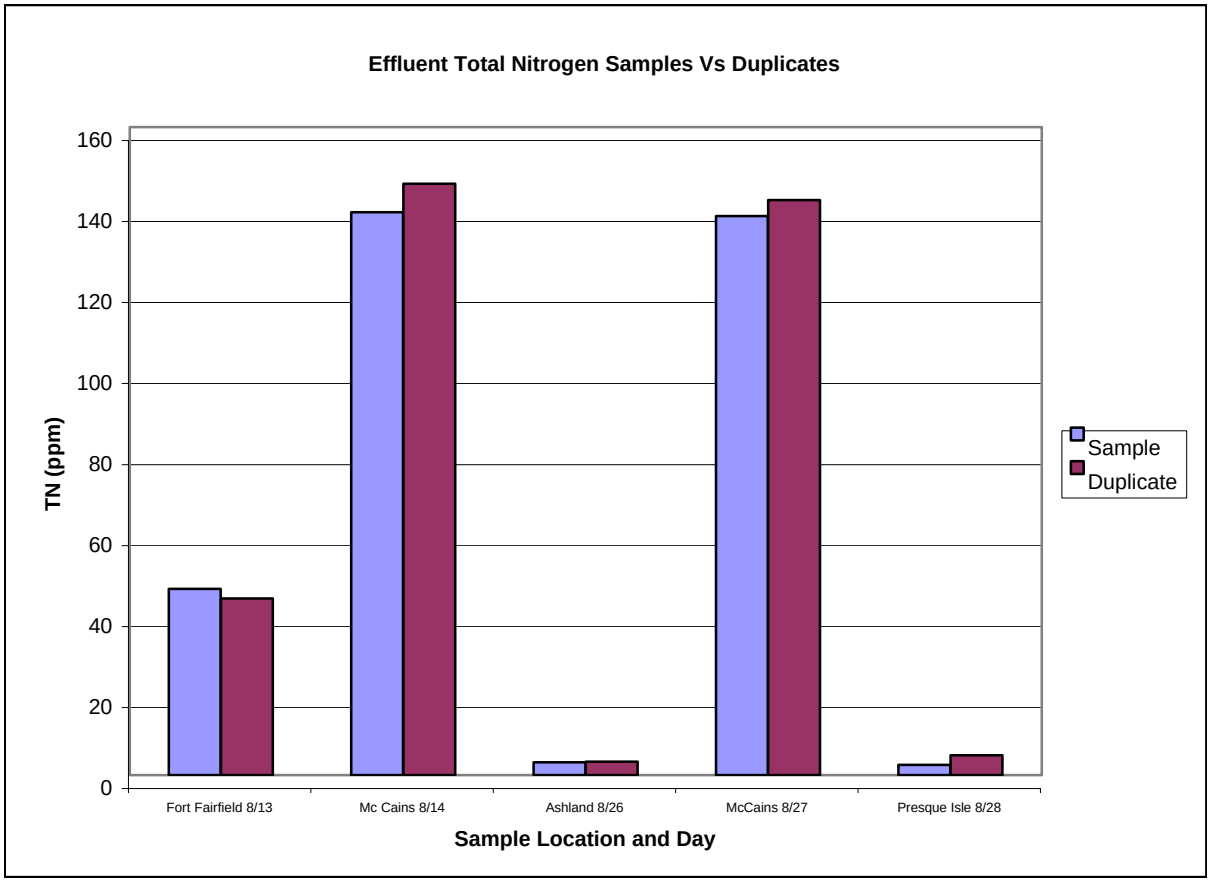

Effluent Total Nitrogen Samples Vs Duplicates
TN (ppm)
160
140
120
100
80
60
40
20
0
Fort Fairfield 8/13
Mc Cains 8/14
Ashland 8/26
McCains 8/27
Presque Isle 8/28
Sample Location and Day
Sample
Duplicate

Figure 21c
Effluent Total Ultimate BOD Samples Vs Duplicates

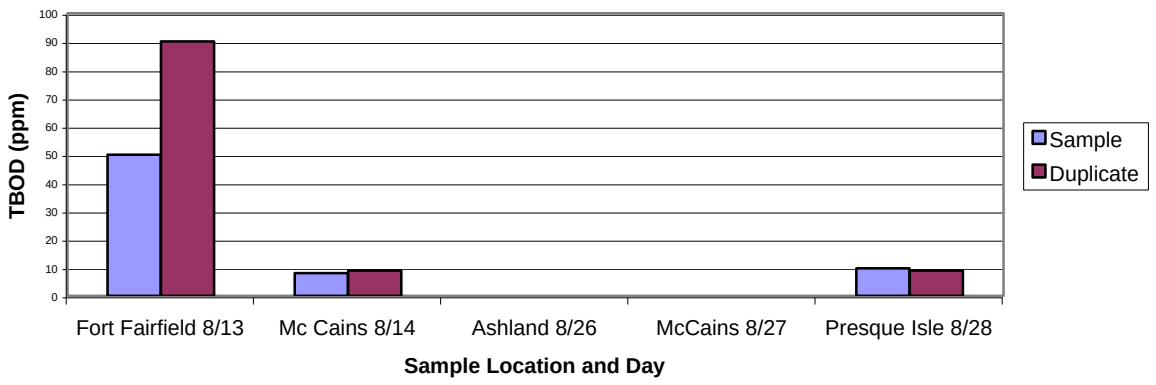


Figure 21d
Effluent Chlorophyll a Samples Vs Duplicates

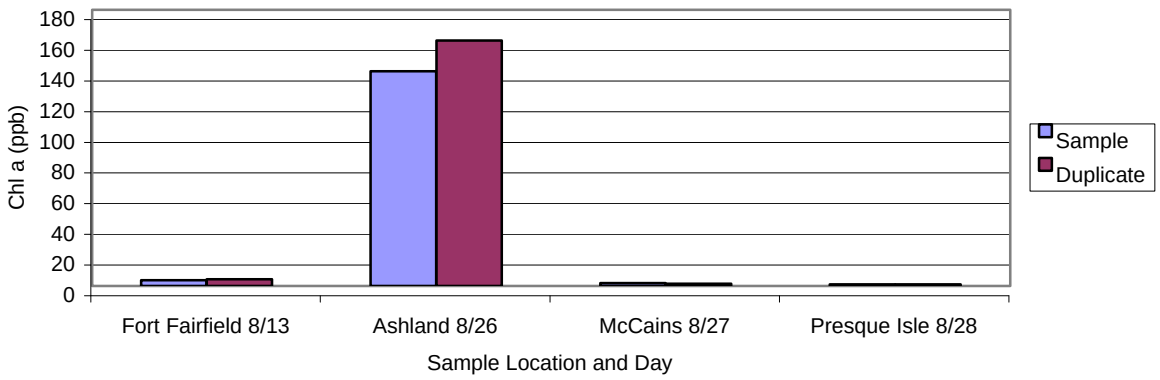
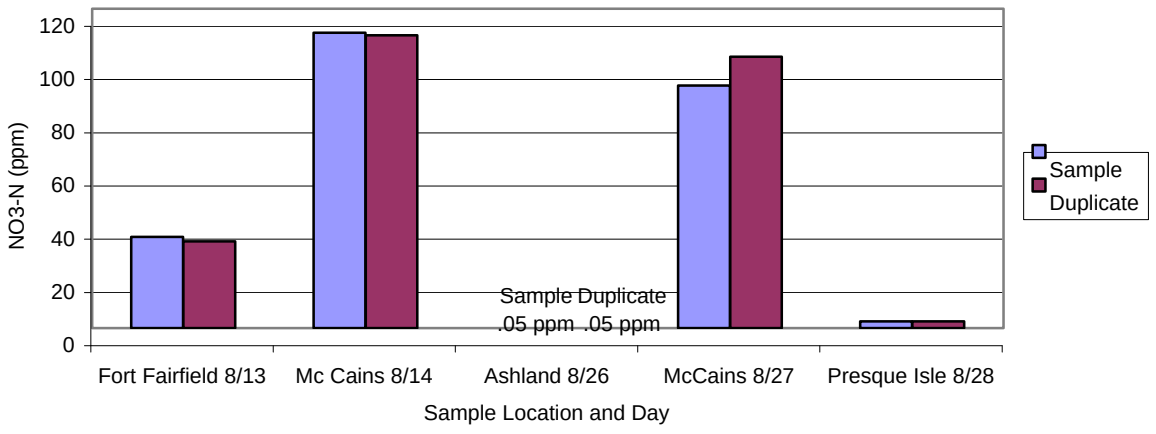



Figure 21e
Effluent NO3-N Samples Vs Duplicates