

FLOW Plankton Monitoring Program Report

| | |
|-----------------|----------------|
| Time | 14:15 |
| Date | 2-Oct-15 |
| Collectors | Jim & Terri |
| Location | Inlet |
| Tide | Outgoing |
| Weather/Wind | Sunny, 5-10 km |
| Water T (deg C) | 22 |
| Salinity | 36 |
| pH | 8 |
| Ammonia | 0.25 |
| Phosphates | 0 |
| Nitrates | 0 |
| CDPH Bottle # | 04736 |

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|-----------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | H |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | L |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | Rhizosolenia | |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Proto-peridinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

Yes

FLOW Plankton Monitoring Program Report

Time 2:10 PM
Date 2-Oct-15
Collectors Terry, Jerry
Location Footbridge
Tide High
Weather/Wind Sunny, 10 mph, West
Water T (deg C) 25
Salinity 35
pH 8.1
Ammonia 0.25
Phosphates 0
Nitrates 0
CDPH Bottle #

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|------------------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | L |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | Rhizosolenia | |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Protooperidinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Yes/No

Other:

Relatively Sterile sample

Yes

FLOW Plankton Monitoring Program Report

Time 1:50 PM
Date 9-Oct-15
Collectors Jerry
Location Inlet
Tide Outgoing
Weather/Wind Sunny, 8 mph West
Water T (deg C) 20
Salinity 36
pH 8.2
Ammonia 0.25
Phosphates 0
Nitrates 0
CDPH Bottle #

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|------------------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | L |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | L |
| | Nitzschia | L |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | H |
| | Rhizosolenia | L ? |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

| | |
|---------------------|---|
| Gonyalax | L |
| Lingoludinium | |
| Noctiluca | |
| Oxytoxum | |
| Prorocentrum micans | L |
| Protoperdinium | L |
| Scrippsiella | |

Silicaflagellate **Dictyocha**

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

Yes

FLOW Plankton Monitoring Program Report

| | |
|-----------------|---------------------------|
| Time | 10:20 |
| Date | 16-Oct-15 |
| Collectors | Jerry, et al |
| Location | Inlet |
| Tide | Incoming, High |
| Weather/Wind | Overcast, On-shore breeze |
| Water T (deg C) | 18 |
| Salinity | 35 |
| pH | 8 |
| Ammonia | 0.25 |
| Phosphates | 0 |
| Nitrates | 0 |
| CDPH Bottle # | 4980 |

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|-----------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | L |
| | Rhizosolenia | |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | L |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| Dinophysis | L | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans L
Protooperidinium L
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Yes/No

Yes

Other:

FLOW Plankton Monitoring Program Report

| | |
|-----------------|-----------------------|
| Time | 10:40 |
| Date | 16-Oct-15 |
| Collectors | Melanie |
| Location | Wetlands |
| Tide | High |
| Weather/Wind | Overcast, 1 mph South |
| Water T (deg C) | 22 |
| Salinity | 35 |
| pH | 8 |
| Ammonia | 0 |
| Phosphates | 0.1 |
| Nitrates | 0 |
| CDPH Bottle # | |

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|-----------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | Rhizosolenia | |
| | Skeletonema | |
| | Thalassiosira | |
| | Thalassionema | |
| | Thalassionthrix | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Proto-peridinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Copepods

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Yes/No

Yes

Other:

FLOW Plankton Monitoring Program Report

Time 10:10 AM
Date 23-Oct-15
Collectors Melody, Geneve, Jerry
Location Inlet
Tide Outgoing
Weather/Wind Clear, Sunny, slightly Windy
Water T (deg C) 18
Salinity 36
pH 8
Ammonia 0.5
Phosphates 0.25
Nitrates 0
CDPH Bottle # 05037

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|------------------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | L |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | L |
| | Nitzschia | L |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | L |
| | Rhizosolenia | L |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | L |
| | Cochlodinium | |
| | Dinophysis | L |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Protooperidinium
Scrippsiella

L

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

Yes

FLOW Plankton Monitoring Program Report

Time 10:45
Date 23-Oct-15
Collectors Angelica, Loie, Abby, Terry
Location Footbridge
Tide High, Outgoing
Weather/Wind Sunny. Light Breeze
Water T (deg C) 21
Salinity 36
pH 8
Ammonia 0.25
Phosphates 0.25
Nitrates 0
CDPH Bottle #

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|------------------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | L |
| | Pseudonitzschia | L |
| | Rhizosolenia | |
| Skeletonema | | |
| Thalassiosira | | |
| Thalassionema | | |
| Thalassionthrix | | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Protoperidinium
Scrippsiella

Silicaflagellate **Dictyocha**

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

FLOW Plankton Monitoring Program Report

| | |
|-----------------|---------------------------|
| Time | 14:10 |
| Date | 30-Oct-15 |
| Collectors | Jim, Brian, Megan, Jasmin |
| Location | Inlet |
| Tide | |
| Weather/Wind | |
| Water T (deg C) | 18 |
| Salinity | 36 |
| pH | 8.2 |
| Ammonia | 0.25 |
| Phosphates | 0 |
| Nitrates | 0 |
| CDPH Bottle # | 05091 |

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|-----------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | Rhizosolenia | |
| | Skeletonema | |
| | Thalassiosira | |
| | Thalassionema | |
| | Thalassionthrix | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Protooperidinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

Yes

FLOW Plankton Monitoring Program Report

| | |
|-----------------|-------------------------|
| Time | 14:05 |
| Date | 30-Oct-15 |
| Collectors | Melanie, Abby, Angelica |
| Location | Footbridge |
| Tide | High |
| Weather/Wind | 8 mph |
| Water T (deg C) | 20 |
| Salinity | 35 |
| pH | 8 |
| Ammonia | 0.25 |
| Phosphates | 0.25 |
| Nitrates | 0 |
| CDPH Bottle # | |

Plankton Observed in Sample

| | <u>Species/genera/groups</u> | <u>Est. Relative Abundance (Low, High)</u> |
|-----------------|------------------------------|--|
| Diatoms | Asterionella | |
| | Astemphalus | |
| | Bacteriastrum | |
| | Chaetoceros | |
| | Coscinodiscus | |
| | Ditylum | |
| | Eucampia | |
| | Ginardia striata | |
| | Hemiaulus | |
| | Lauderia | |
| | Leptocylindrus | |
| | Licmophora | |
| | Lithodesmium | |
| | Melosira | |
| | Navicula | |
| | Nitzschia | |
| | Odontella | |
| | Pleurosigma | |
| | Pseudonitzschia | |
| | Rhizosolenia | |
| | Skeletonema | |
| | Thalassiosira | |
| | Thalassionema | |
| | Thalassionthrix | |
| Dinoflagellates | Akashiwo | |
| | Alexandrium | |
| | Ceratium furca | |
| | Ceratium fusus | |
| | Ceratium lineatum | |
| | Ceratium macroceros | |
| | Cochlodinium | |
| | Dinophysis | |

Gonyalax
Lingoludinium
Noctiluca
Oxytoxum
Prorocentrum micans
Proto-peridinium
Scrippsiella

Silicaflagellate Dictyocha

Other

Summary

Water Conditions (T, S, pH and nutrients) were within expected ranges?

Other:

Yes/No

Yes