

# NELHA Water Quality Laboratory

## Transect 5

July 2025 - June 2026

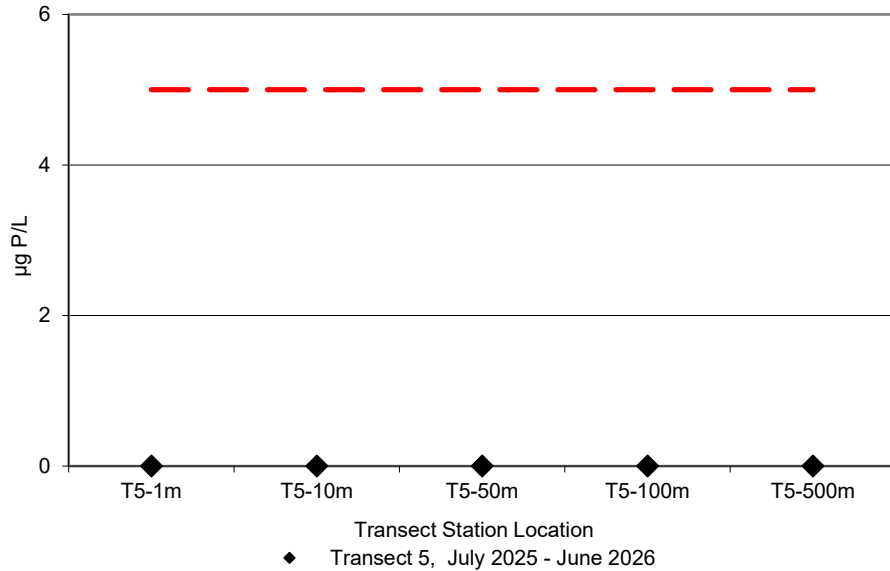
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP   |          | TDN   |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  | ORP   |
|-----------------------|----------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|-------|----------|-------|----------|-----------|----------|-------|------|-------|--------|-------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM)  | (μg P/L) | (μM)  | (μg N/L) | (NTU)     | (PSU)    | (°C)  |      | (ppm) | (μg/L) | (mV)  |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40  | 12.5     | 7.1   | 100      | 0.10      |          |       |      |       | 0.3    |       |
| T5-1m                 | 9/5/25   | 1124   | 1.6  | Flood   | 0.00                          | 0.1      | 0.32                                                        | 4.5      | 0.19                                           | 2.7      | -0.2 | -5        | 0.19  | 5.9      | 4.9   | 69       | 0.19      | 34.99    | 27.2  | 8.11 | 6.98  | 0.17   | 247.2 |
| T5-1m                 | 12/11/25 | 1011   | 1.7  | High    | 0.00                          | 0.0      | 0.00                                                        | 0.0      | 0.13                                           | 1.9      | 1.1  | 32        | 0.17  | 5.1      | 3.2   | 45       | 0.16      | 35.17    | 25.9  | 8.04 | 6.83  | 0.19   | 232.8 |
| T5-1m                 | 2/1/26   |        |      |         | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| T5-1m                 | 5/1/26   |        |      |         | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| <b>Geomear FY '26</b> |          |        |      |         | #NUM!                         | #NUM!    | #NUM!                                                       | #NUM!    | #NUM!                                          | 2.3      |      |           | #NUM! | 5.5      | #NUM! | 56       | 0.17      |          |       |      |       | 0.18   |       |
| T5-10m                | 9/5/25   | 1128   | 1.6  | Flood   | 0.02                          | 0.7      | 0.34                                                        | 4.8      | 0.26                                           | 3.6      | -0.2 | -4        | 0.21  | 6.5      | 6.8   | 96       | 0.20      | 34.99    | 27.2  | 8.10 | 6.95  | 0.24   | 247.1 |
| T5-10m                | 12/11/25 | 1014   | 1.7  | High    | 0.00                          | 0.0      | 0.00                                                        | 0.0      | 0.13                                           | 1.8      | 1.0  | 29        | 0.15  | 4.6      | 2.6   | 36       | 0.19      | 35.17    | 25.9  | 8.04 | 6.81  | 0.19   | 237.3 |
| T5-10m                | 2/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| T5-10m                | 5/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| <b>Geomear FY '26</b> |          |        |      |         | #NUM!                         | #NUM!    | #NUM!                                                       | #NUM!    | #NUM!                                          | 2.5      |      |           | #NUM! | 5.5      | #NUM! | 58       | 0.20      |          |       |      |       | 0.21   |       |
| T5-50m                | 9/5/25   | 1133   | 1.6  | Flood   | 0.02                          | 0.5      | 0.19                                                        | 2.7      | 0.19                                           | 2.7      | -1.1 | -31       | 0.19  | 6        | 5.7   | 79       | 0.19      | 35.02    | 27.2  | 8.09 | 6.86  | 0.17   | 248.7 |
| T5-50m                | 12/11/25 | 1018   | 1.7  | High    | 0.00                          | 0.0      | 0.00                                                        | 0.0      | 0.03                                           | 0.4      | 0.9  | 24        | 0.15  | 4.7      | 2.6   | 36       | 0.20      | 35.17    | 25.9  | 8.04 | 6.73  | 0.20   | 241.4 |
| T5-50m                | 2/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| T5-50m                | 5/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| <b>Geomear FY '26</b> |          |        |      |         | #NUM!                         | #NUM!    | #NUM!                                                       | #NUM!    | #NUM!                                          | 1.1      |      |           | #NUM! | 5.3      | #NUM! | 54       | 0.19      |          |       |      |       | 0.18   |       |
| T5-100m               | 9/5/25   | 1139   | 1.6  | Flood   | 0.00                          | 0.1      | 0.13                                                        | 1.8      | 0.17                                           | 2.4      | -1.5 | -42       | 0.18  | 5.6      | 5.3   | 75       | 0.17      | 35.04    | 27.2  | 8.09 | 6.78  | 0.13   | 251.2 |
| T5-100m               | 12/11/25 | 1023   | 1.7  | High    | 0.00                          | 0.0      | 0.00                                                        | 0.0      | 0.06                                           | 0.9      | 0.3  | 8         | 0.15  | 4.58     | 0.0   | 31       | 0.11      | 35.18    | 25.8  | 8.04 | 6.65  | 0.26   | 244.7 |
| T5-100m               | 2/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| T5-100m               | 5/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| <b>Geomear FY '26</b> |          |        |      |         | #NUM!                         | #NUM!    | #NUM!                                                       | #NUM!    | #NUM!                                          | 1.4      |      |           | #NUM! | 5.1      | #NUM! | 48       | 0.14      |          |       |      |       | 0.18   |       |
| T5-500m               | 9/5/25   | 1148   | 1.6  | Flood   | -0.02                         | -0.5     | 0.08                                                        | 1.1      | 0.08                                           | 1.1      | -1.6 | -46       | 0.18  | 5.7      | 5.1   | 72       | 0.16      | 35.04    | 27.0  | 8.09 | 6.69  | 0.16   | 254.6 |
| T5-500m               | 12/11/25 | 1031   | 1.7  | High    | 0.00                          | 0.0      | 0.00                                                        | 0.0      | 0.07                                           | 1.0      | 0.4  | 11        | 0.74  | 23       | 2.2   | 31       | 0.13      | 35.18    | 26.1  | 8.05 | 6.65  | 0.20   | 247.6 |
| T5-500m               | 2/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| T5-500m               | 5/1/26   |        | 0.0  | 0.0     | 0.00                          |          | 0.00                                                        |          | 0.00                                           |          | 0.0  |           | 0.00  |          | 0.0   |          |           |          |       |      |       |        |       |
| <b>Geomear FY '26</b> |          |        |      |         | #NUM!                         | #NUM!    | #NUM!                                                       | #NUM!    | #NUM!                                          | 1.0      |      |           | #NUM! | 11.4     | #NUM! | 47       | 0.14      |          |       |      |       | 0.18   |       |

# NELHA Water Quality Laboratory

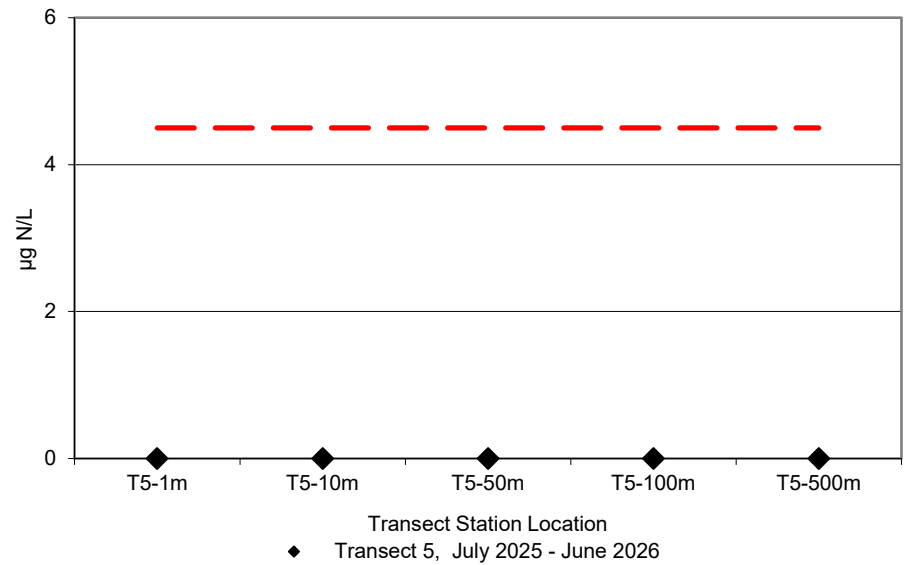
## Transect 5

July 2025 - June 2026

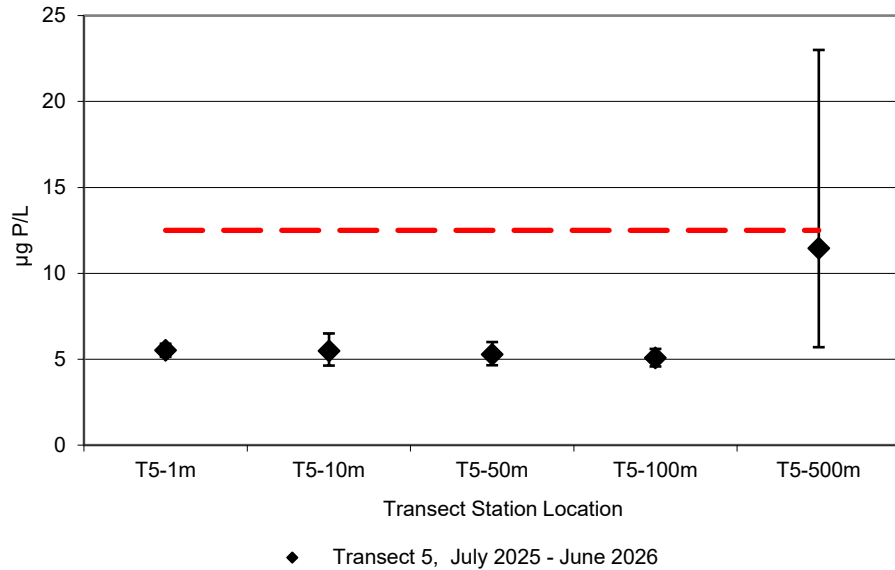
Ortho-Phosphate  
Geometric Mean



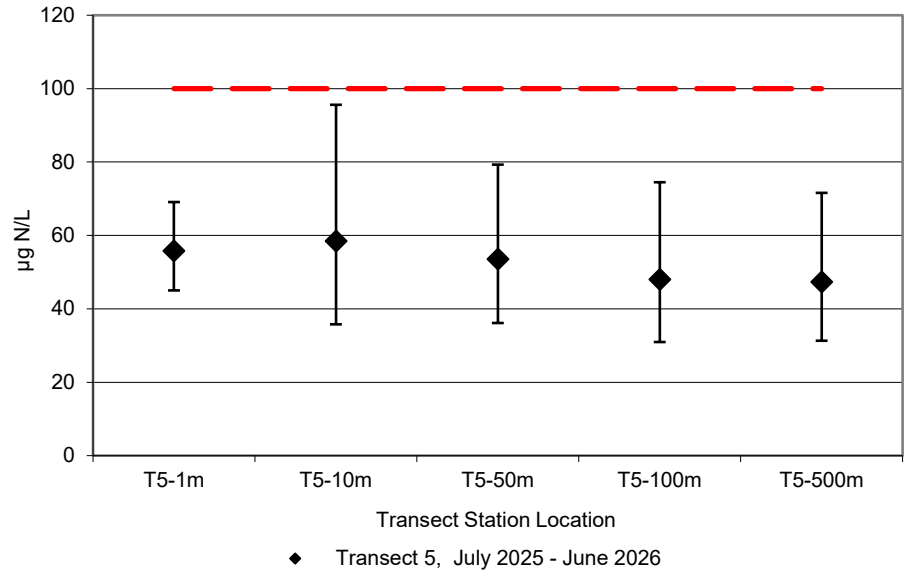
Nitrate + Nitrite  
Geometric Mean



Total Dissolved Phosphorous  
Geometric Mean



Total Dissolved Nitrogen  
Geometric Mean

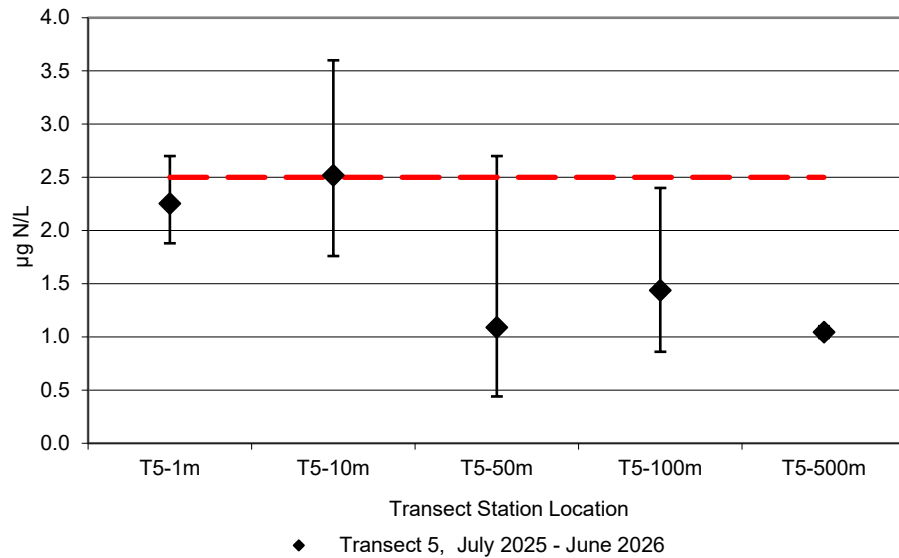


# NELHA Water Quality Laboratory

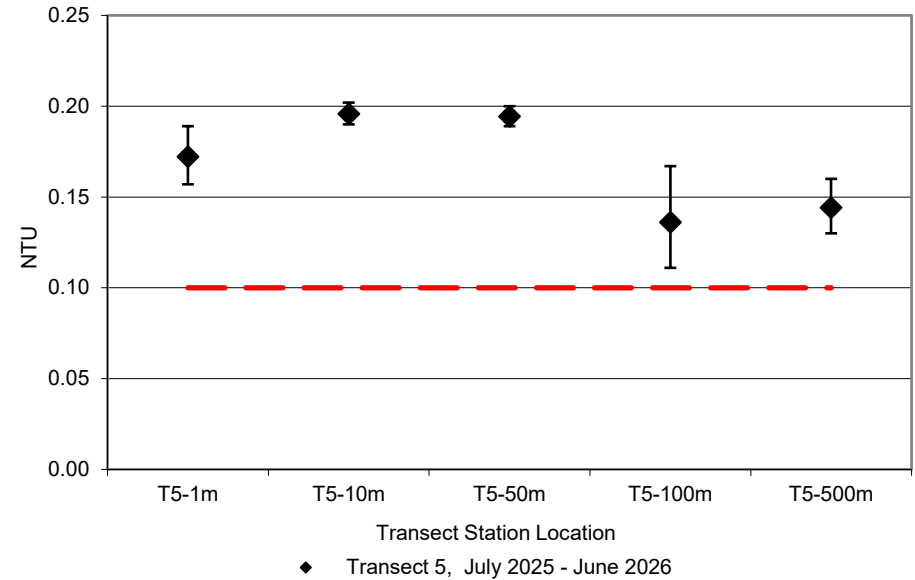
## Transect 5

July 2025 - June 2026

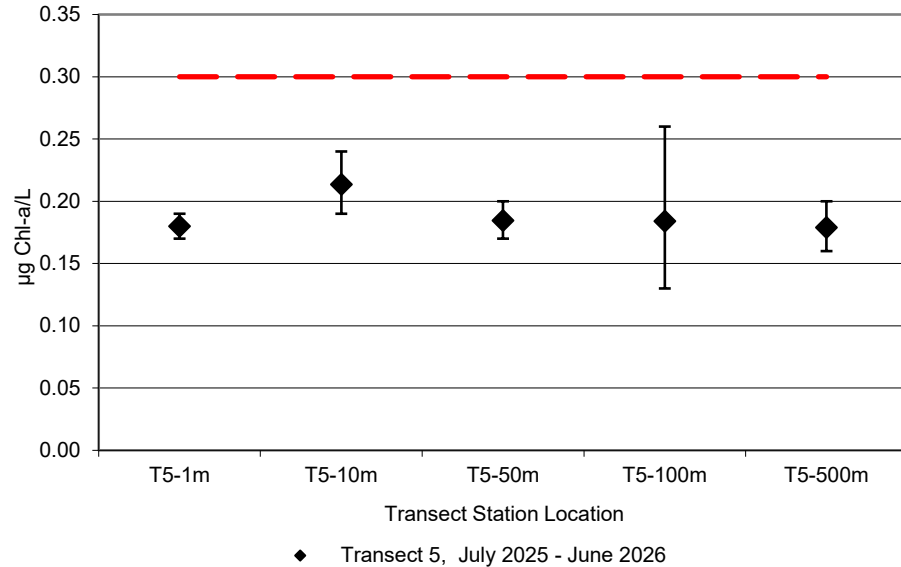
Total Ammonia  
Geometric Mean



Turbidity  
Geometric Mean



Chlorophyll-a  
Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2024 - June 2025

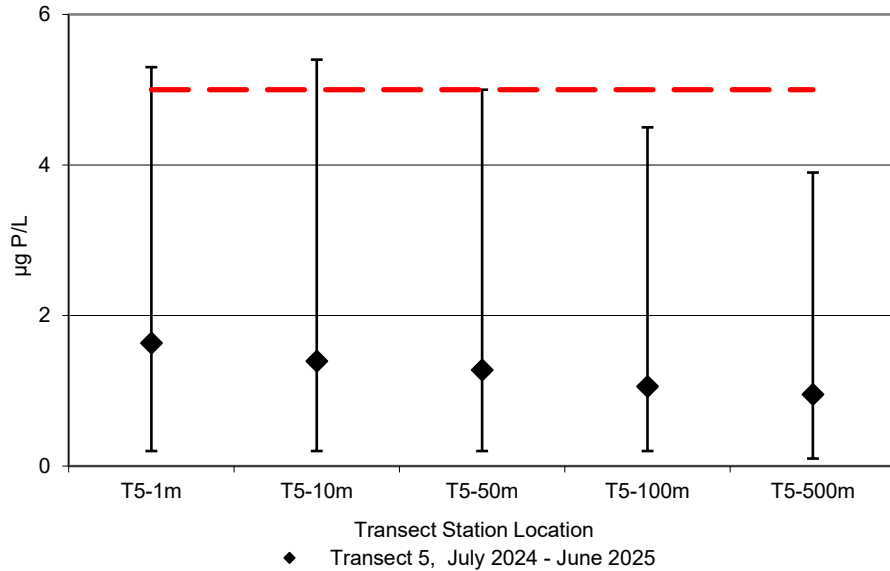
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  | ORP   |
|-----------------------|----------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|-------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (PSU)    | (°C)  |      | (ppm) | (μg/L) | (mV)  |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |       |
| T5-1m                 | 8/8/24   | 1152   | 0.3  | Low     | 0.17                          | 5.3      | 0.90                                                        | 12.6     | 0.06                                           | 0.9      | 5.0  | 140       | 0.27 | 8.4      | 5.3  | 75       | 0.12      | 34.61    | 27.3  | 8.15 | 7.06  | 0.17   | 168.5 |
| T5-1m                 | 12/18/24 | 1150   | 0.5  | Low     | 0.15                          | 4.8      | 0.54                                                        | 7.6      | 0.21                                           | 3.0      | 2.7  | 75        | 0.28 | 8.7      | 5.0  | 70       | 0.17      | 34.81    | 25.9  | 8.16 | 7.03  | 0.18   | 265.1 |
| T5-1m                 | 3/6/25   | 1002   | 0.3  | Ebb     | 0.05                          | 1.4      | 0.82                                                        | 11.5     | 0.14                                           | 2.0      | 3.9  | 110       | 0.17 | 5.3      | 6.5  | 92       | 0.09      | 34.88    | 25.5  | 8.13 | 7.08  | 0.28   | 244.3 |
| T5-1m                 | 6/19/25  | 1320   | 1.3  | High    | 0.01                          | 0.2      | 0.08                                                        | 1.1      | 0.28                                           | 3.9      | 0.0  | 0         | 0.15 | 4.5      | 5.4  | 76       | 0.09      | 34.87    | 26.9  | 8.17 | 6.93  | 0.20   | 206.7 |
| <b>Geomear FY '25</b> |          |        |      |         | 0.05                          | 1.6      | 0.42                                                        | 5.9      | 0.2                                            | 2.1      |      |           | 0.2  | 6.5      | 5.6  | 78       | 0.11      |          |       |      |       | 0.20   |       |
| T5-10m                | 8/8/24   | 1157   | 0.3  | Low     | 0.16                          | 5.0      | 0.96                                                        | 13.4     | 0.21                                           | 3.0      | 5.1  | 144       | 0.26 | 7.9      | 5.2  | 73       | 0.14      | 34.62    | 27.3  | 8.14 | 7.06  | 0.17   | 176.7 |
| T5-10m                | 12/18/24 | 1155   | 0.5  | Low     | 0.17                          | 5.4      | 0.59                                                        | 8.3      | 0.24                                           | 3.3      | 2.8  | 77        | 0.29 | 9        | 5.2  | 72       | 0.11      | 34.78    | 25.9  | 8.16 | 7.03  | 0.20   | 264.0 |
| T5-10m                | 3/6/25   | 1007   | 0.3  | Ebb     | 0.02                          | 0.7      | 0.56                                                        | 7.8      | 0.03                                           | 0.4      | 2.8  | 79        | 0.17 | 5.4      | 5.6  | 79       | 0.11      | 34.90    | 25.5  | 8.13 | 7.05  | 0.27   | 249.8 |
| T5-10m                | 6/19/25  | 1324   | 1.3  | High    | 0.01                          | 0.2      | 0.07                                                        | 1.0      | 0.31                                           | 4.3      | 0.0  | 0         | 0.15 | 4.8      | 5.4  | 76       | 0.09      | 34.88    | 26.9  | 8.17 | 6.89  | 0.19   | 209.5 |
| <b>Geomear FY '25</b> |          |        |      |         | 0.05                          | 1.4      | 0.39                                                        | 5.4      | 0.1                                            | 2.0      |      |           | 0.2  | 6.6      | 5.4  | 75       | 0.11      |          |       |      |       | 0.20   |       |
| T5-50m                | 8/8/24   | 1203   | 0.3  | Low     | 0.11                          | 3.3      | 0.14                                                        | 2.0      | 0.04                                           | 0.5      | 2.1  | 59        | 0.23 | 7.2      | 4.6  | 65       | 0.19      | 34.71    | 27.5  | 8.12 | 6.76  | 0.19   | 185.6 |
| T5-50m                | 12/18/24 | 1159   | 0.5  | Low     | 0.16                          | 5.0      | 0.42                                                        | 5.9      | 0.09                                           | 1.2      | 2.1  | 58        | 0.26 | 8        | 5.1  | 72       | 0.15      | 34.85    | 25.9  | 8.16 | 6.94  | 0.15   | 264.5 |
| T5-50m                | 3/6/25   | 1013   | 0.3  | Ebb     | 0.03                          | 0.8      | 0.09                                                        | 1.2      | 0.01                                           | 0.2      | 0.0  | -1        | 0.16 | 5.1      | 4.9  | 68       | 0.10      | 35.01    | 25.8  | 8.12 | 6.83  | 0.18   | 251.6 |
| T5-50m                | 6/19/25  | 1329   | 1.3  | High    | 0.01                          | 0.2      | 0.03                                                        | 0.4      | 0.17                                           | 2.4      | 0.0  | 0         | 0.15 | 4.8      | 5.3  | 75       | 0.08      | 34.88    | 26.8  | 8.16 | 6.77  | 0.15   | 210.8 |
| <b>Geomear FY '25</b> |          |        |      |         | 0.04                          | 1.3      | 0.11                                                        | 1.5      | 0.1                                            | 0.7      |      |           | 0.2  | 6.1      | 5.0  | 70       | 0.13      |          |       |      |       | 0.17   |       |
| T5-100m               | 8/8/24   | 1210   | 0.3  | Low     | 0.11                          | 3.5      | 0.10                                                        | 1.4      | 0.02                                           | 0.3      | 1.5  | 42        | 0.25 | 7.6      | 4.8  | 68       | 0.12      | 34.74    | 27.3  | 8.11 | 6.70  | 0.17   | 193.4 |
| T5-100m               | 12/18/24 | 1206   | 0.5  | Low     | 0.15                          | 4.5      | 0.19                                                        | 2.7      | 0.22                                           | 3.1      | 1.0  | 28        | 0.26 | 8.1      | 4.7  | 66       | 0.08      | 34.89    | 26.2  | 8.15 | 6.81  | 0.11   | 263.0 |
| T5-100m               | 3/6/25   | 1019   | 0.3  | Ebb     | 0.01                          | 0.2      | 0.03                                                        | 0.4      | 0.12                                           | 1.7      | 0.0  | 0         | 0.17 | 5.3      | 6.0  | 84       | 0.27      | 35.01    | 25.8  | 8.12 | 6.81  | 0.20   | 254.1 |
| T5-100m               | 6/19/25  | 1333   | 1.3  | High    | 0.01                          | 0.4      | 0.05                                                        | 0.7      | 0.31                                           | 4.3      | -0.1 | -2        | 0.16 | 5.1      | 5.0  | 71       | 0.09      | 34.88    | 26.9  | 8.16 | 6.76  | 0.19   | 211.6 |
| <b>Geomear FY '25</b> |          |        |      |         | 0.03                          | 1.1      | 0.07                                                        | 1.0      | 0.1                                            | 1.6      |      |           | 0.2  | 6.4      | 5.1  | 72       | 0.12      |          |       |      |       | 0.16   |       |
| T5-500m               | 8/8/24   | 1220   | 0.3  | Low     | 0.10                          | 3.0      | 0.03                                                        | 0.4      | 0.04                                           | 0.5      | 1.4  | 40        | 0.23 | 7.1      | 4.3  | 61       | 0.12      | 34.74    | 27.4  | 8.11 | 6.67  | 0.19   | 196.8 |
| T5-500m               | 12/18/24 | 1212   | 0.5  | Low     | 0.13                          | 3.9      | 0.01                                                        | 0.1      | 0.16                                           | 2.2      | 0.4  | 10        | 0.27 | 8.3      | 4.2  | 59       | 0.06      | 34.88    | 26.0  | 8.15 | 6.71  | 0.10   | 265.9 |
| T5-500m               | 3/6/25   | 1029   | 0.3  | Ebb     | 0.00                          | 0.1      | 0.04                                                        | 0.5      | 0.06                                           | 0.9      | 0.1  | 2         | 0.15 | 4.7      | 5.3  | 74       | 0.11      | 35.01    | 25.9  | 8.12 | 6.83  | 0.22   | 252.5 |
| T5-500m               | 6/19/25  | 1341   | 1.3  | High    | 0.02                          | 0.7      | 0.01                                                        | 0.2      | 0.31                                           | 4.4      | 0.0  | -1        | 0.17 | 5.3      | 4.9  | 69       | 0.12      | 34.88    | 26.9  | 8.16 | 6.75  | 0.18   | 208.6 |
| <b>Geomear FY '25</b> |          |        |      |         | 0.03                          | 1.0      | 0.02                                                        | 0.3      | 0.1                                            | 1.4      |      |           | 0.2  | 6.2      | 4.7  | 65       | 0.10      |          |       |      |       | 0.17   |       |

# NELHA Water Quality Laboratory

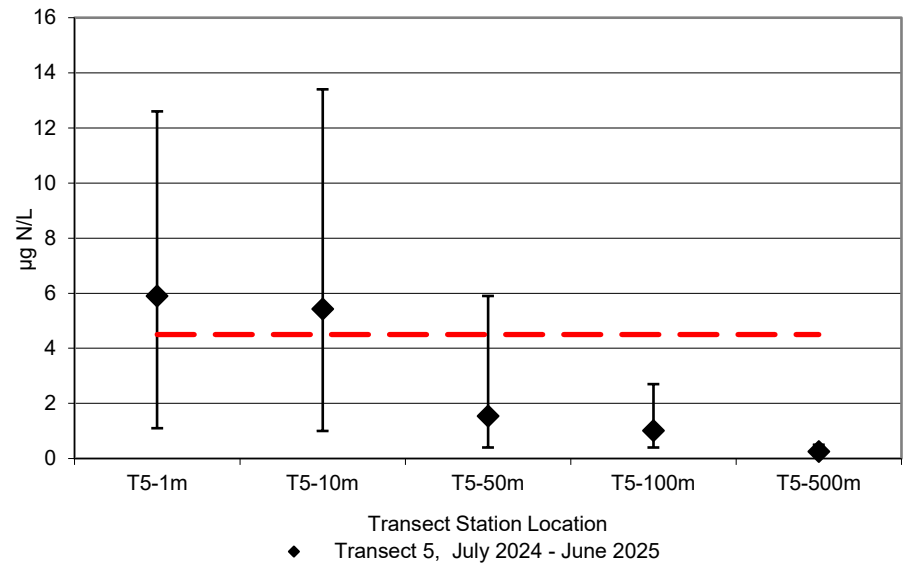
## Transect 5

July 2024 - June 2025

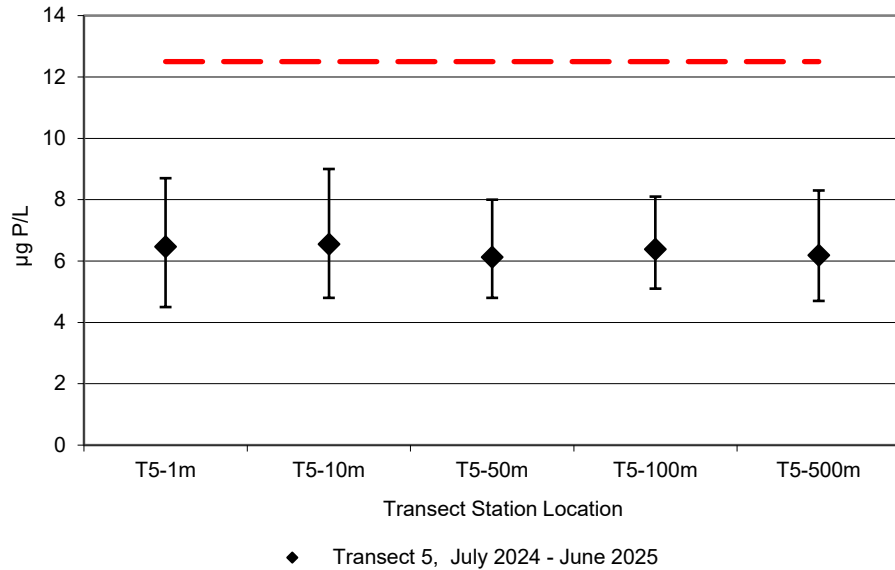
Ortho-Phosphate  
Geometric Mean



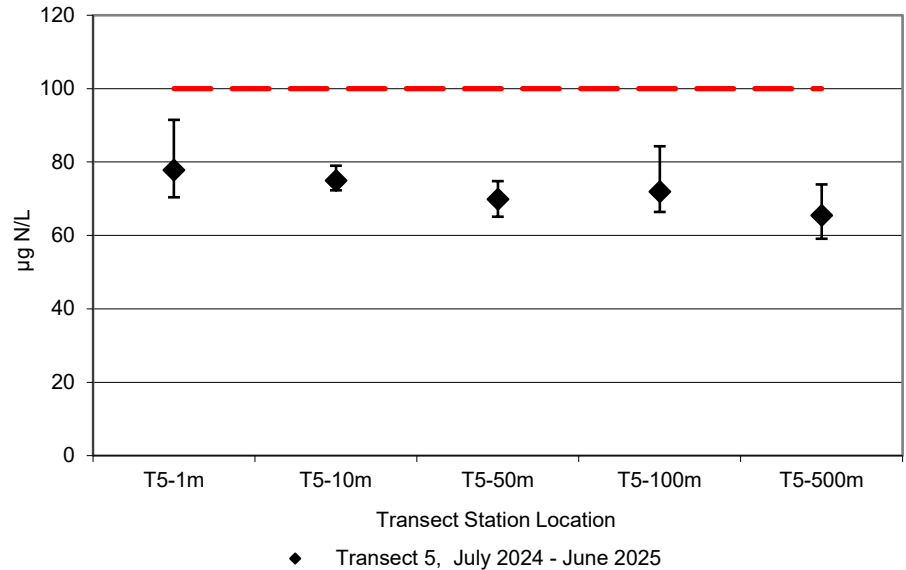
Nitrate + Nitrite  
Geometric Mean



Total Dissolved Phosphorous  
Geometric Mean



Total Dissolved Nitrogen  
Geometric Mean

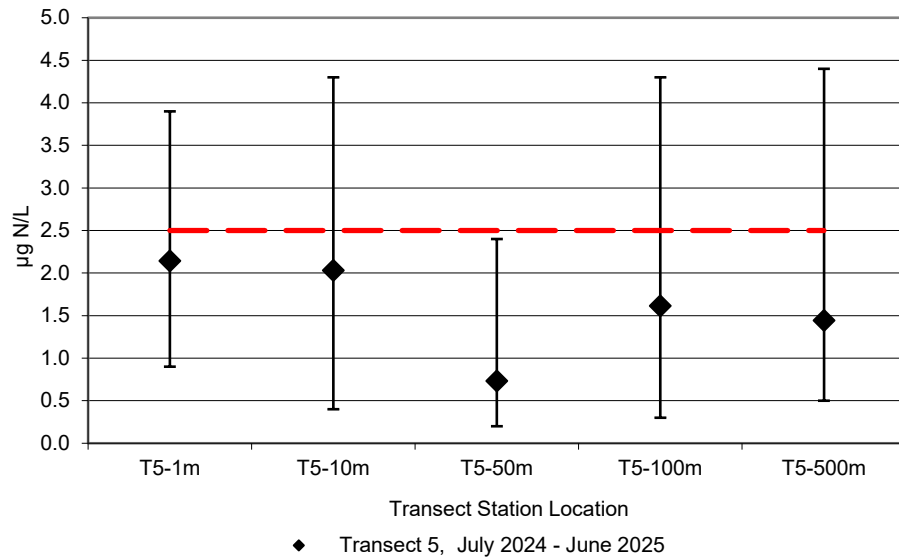


# NELHA Water Quality Laboratory

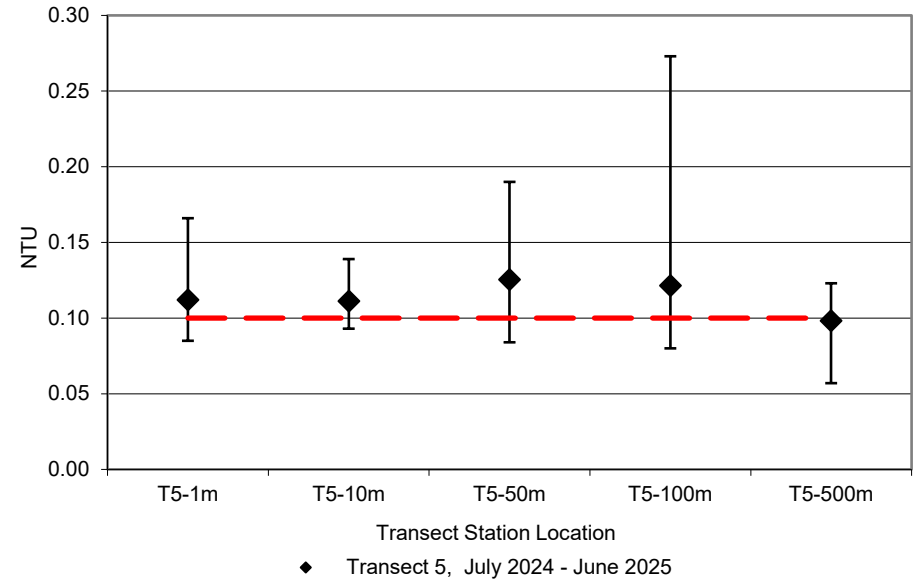
## Transect 5

July 2024 - June 2025

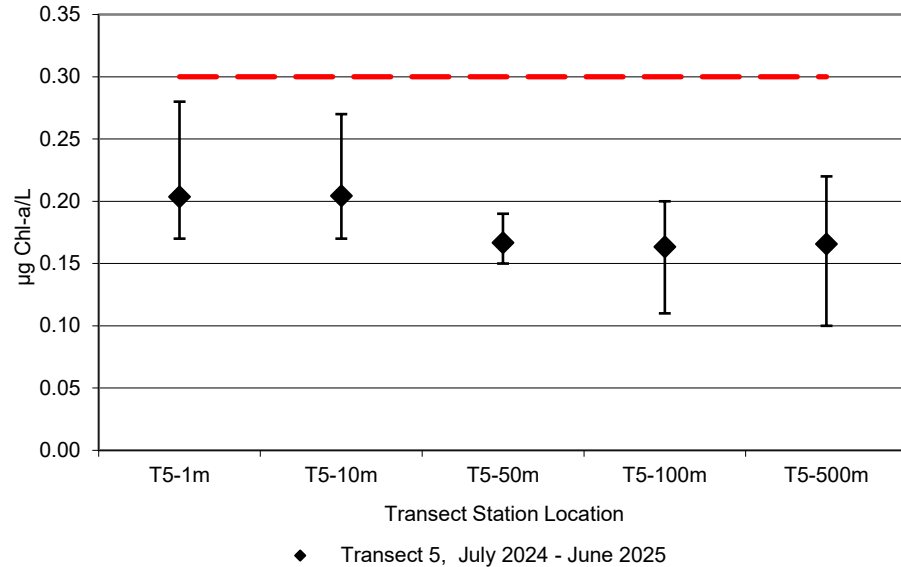
Total Ammonia  
Geometric Mean



Turbidity  
Geometric Mean



Chlorophyll-a  
Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2023 - June 2024

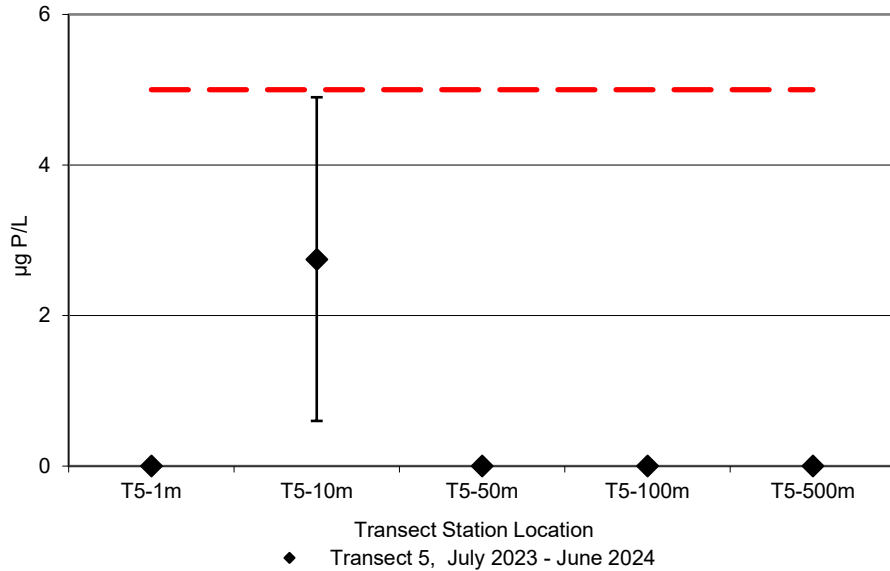
| SITE ID               | DATE    | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  | ORP   |
|-----------------------|---------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|-------|
|                       | M/D/Y   | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (o/oo)   | (°C)  |      | (ppm) | (μg/L) | (mV)  |
| <b>DOH LIMIT</b>      |         |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |       |
| T5-1m                 | 9/14/23 | 939    | 0.2  | Low     | 0.19                          | 5.9      | 1.15                                                        | 16.1     | 0.23                                           | 3.2      | 5.9  | 166       | 0.24 | 7.3      | 6.3  | 89       | 0.14      | 34.64    | 26.9  | 8.10 | 6.92  | 0.15   | 232.9 |
| T5-1m                 | 12/8/23 | 1007   | 1.3  | High    | 0.14                          | 4.4      | 0.31                                                        | 4.3      | 0.31                                           | 4.4      | 0.6  | 17        | 0.42 | 13.1     | 4.5  | 64       | 0.10      | 34.98    | 26.3  | 8.09 | 6.68  | 0.13   | 177.7 |
| T5-1m                 | 2/22/24 | 935    | 0.2  | Low     | -0.06                         | -1.8     | 0.66                                                        | 9.3      | 0.15                                           | 2.1      | 2.0  | 56        | 0.09 | 2.7      | 5.8  | 81       | 0.14      | 34.97    | 25.0  | 8.12 | 7.08  | 0.22   | 203.2 |
| T5-1m                 | 6/19/24 | 1039   | 0.7  | Flood   | 0.17                          | 5.3      | 0.25                                                        | 3.5      | 0.29                                           | 4.0      | 2.4  | 67        | 0.29 | 9.0      | 5.0  | 70       | 0.19      | 34.85    | 26.6  | 8.06 | 7.08  | 0.15   | 242.5 |
| <b>Geomear FY '24</b> |         |        |      |         | #NUM!                         | #NUM!    | 0.49                                                        | 6.9      | 0.2                                            | 3.3      |      |           | 0.2  | 6.9      | 5.4  | 75       | 0.14      |          |       |      |       | 0.16   |       |
| T5-10m                | 9/14/23 | 943    | 0.2  | Low     | 0.14                          | 4.2      | 1.04                                                        | 14.6     | 0.24                                           | 3.4      | 5.7  | 160       | 0.26 | 7.9      | 5.9  | 83       | 0.17      | 34.66    | 26.9  | 8.10 | 6.92  | 0.26   | 236.5 |
| T5-10m                | 12/8/23 | 1012   | 1.3  | High    | 0.16                          | 4.9      | 0.31                                                        | 4.3      | 0.47                                           | 6.6      | 0.5  | 13        | 0.30 | 9.4      | 5.2  | 73       | 0.17      | 34.99    | 26.3  | 8.09 | 6.67  | 0.12   | 183.4 |
| T5-10m                | 2/22/24 | 940    | 0.2  | Low     | 0.02                          | 0.6      | 0.46                                                        | 6.4      | 0.21                                           | 2.9      | 0.9  | 26        | 0.05 | 1.4      | 5.2  | 73       | 0.14      | 35.02    | 25.0  | 8.12 | 7.00  | 0.20   | 202.8 |
| T5-10m                | 6/19/24 | 1045   | 0.7  | Flood   | 0.15                          | 4.6      | 0.25                                                        | 3.5      | 0.39                                           | 5.5      | 1.9  | 53        | 0.29 | 9.1      | 4.3  | 61       | 0.13      | 34.89    | 26.4  | 8.04 | 6.94  | 0.14   | 245.0 |
| <b>Geomear FY '24</b> |         |        |      |         | 0.09                          | 2.7      | 0.44                                                        | 6.1      | 0.3                                            | 4.3      |      |           | 0.2  | 5.5      | 5.1  | 72       | 0.15      |          |       |      |       | 0.17   |       |
| T5-50m                | 9/14/23 | 949    | 0.2  | Low     | 0.10                          | 3.1      | 0.14                                                        | 2.0      | 0.09                                           | 1.3      | 0.5  | 15        | 0.23 | 7.2      | 4.9  | 68       | 0.13      | 34.83    | 27.1  | 8.09 | 6.67  | 0.20   | 234.7 |
| T5-50m                | 12/8/23 | 1022   | 1.3  | High    | 0.14                          | 4.2      | 0.38                                                        | 5.3      | 0.49                                           | 6.8      | 0.8  | 23        | 0.41 | 12.6     | 4.6  | 65       | 0.13      | 34.98    | 26.3  | 8.10 | 6.70  | 0.12   | 186.8 |
| T5-50m                | 2/22/24 | 946    | 0.2  | Low     | -0.07                         | -2.1     | 0.53                                                        | 7.4      | 0.29                                           | 4.0      | 0.9  | 26        | 0.10 | 3.1      | 5.4  | 76       | 0.18      | 35.05    | 25.0  | 8.12 | 6.95  | 0.20   | 202.8 |
| T5-50m                | 6/19/24 | 1053   | 0.7  | Flood   | 0.16                          | 5.0      | 0.07                                                        | 1.0      | 0.26                                           | 3.7      | 1.4  | 40        | 0.27 | 8.4      | 4.6  | 64       | 0.14      | 34.88    | 26.4  | 8.04 | 6.90  | 0.12   | 248.2 |
| <b>Geomear FY '24</b> |         |        |      |         | #NUM!                         | #NUM!    | 0.21                                                        | 3.0      | 0.2                                            | 3.4      |      |           | 0.2  | 7.0      | 4.9  | 68       | 0.14      |          |       |      |       | 0.15   |       |
| T5-100m               | 9/14/23 | 955    | 0.2  | Low     | 0.12                          | 3.7      | 0.11                                                        | 1.5      | 0.06                                           | 0.8      | 0.3  | 8         | 0.25 | 7.8      | 4.9  | 69       | 0.12      | 34.84    | 27.1  | 8.09 | 6.66  | 0.20   | 240.6 |
| T5-100m               | 12/8/23 | 1029   | 1.3  | High    | 0.10                          | 3.1      | 0.46                                                        | 6.5      | 0.56                                           | 7.8      | 1.2  | 34        | 0.41 | 12.8     | 4.8  | 67       | 0.12      | 34.96    | 26.3  | 8.09 | 6.66  | 0.14   | 188.4 |
| T5-100m               | 2/22/24 | 952    | 0.2  | Low     | -0.04                         | -1.2     | 0.33                                                        | 4.6      | 0.36                                           | 5.1      | 1.0  | 28        | 0.08 | 2.5      | 4.8  | 67       | 0.13      | 35.05    | 25.0  | 8.12 | 6.89  | 0.21   | 202.5 |
| T5-100m               | 6/19/24 | 1101   | 0.7  | Flood   | 0.15                          | 4.8      | 0.13                                                        | 1.8      | 0.21                                           | 3.0      | 1.8  | 51        | 0.28 | 8.6      | 4.1  | 57       | 0.14      | 34.87    | 26.7  | 8.02 | 6.74  | 0.14   | 248.8 |
| <b>Geomear FY '24</b> |         |        |      |         | #NUM!                         | #NUM!    | 0.21                                                        | 3.0      | 0.2                                            | 3.1      |      |           | 0.2  | 6.8      | 4.6  | 65       | 0.13      |          |       |      |       | 0.17   |       |
| T5-500m               | 9/14/23 | 1004   | 0.2  | Low     | 0.09                          | 2.8      | 0.10                                                        | 1.4      | 0.07                                           | 1.0      | 0.1  | 4         | 0.26 | 8        | 5.2  | 72       | 0.16      | 34.86    | 27.3  | 8.09 | 6.65  | 0.18   | 223.6 |
| T5-500m               | 12/8/23 | 1037   | 1.3  | High    | 0.08                          | 2.5      | 0.79                                                        | 11.0     | 0.54                                           | 7.6      | 3.3  | 94        | 0.43 | 13.2     | 5.2  | 73       | 0.13      | 34.94    | 26.2  | 8.09 | 6.52  | 0.16   | 189.6 |
| T5-500m               | 2/22/24 | 959    | 0.2  | Low     | -0.13                         | -3.9     | 0.17                                                        | 2.4      | 0.10                                           | 1.4      | -0.5 | -13       | 0.08 | 2.6      | 4.9  | 68       | 0.15      | 35.05    | 25.0  | 8.12 | 6.84  | 0.25   | 202.0 |
| T5-500m               | 6/19/24 | 1111   | 0.7  | Flood   | 0.13                          | 3.9      | 0.12                                                        | 1.7      | 0.26                                           | 3.6      | 2.0  | 57        | 0.28 | 8.7      | 4.8  | 67       | 0.14      | 34.88    | 26.4  | 8.03 | 6.75  | 0.21   | 234.8 |
| <b>Geomear FY '24</b> |         |        |      |         | #NUM!                         | #NUM!    | 0.20                                                        | 2.8      | 0.2                                            | 2.5      |      |           | 0.2  | 7.0      | 5.0  | 70       | 0.14      |          |       |      |       | 0.20   |       |

# NELHA Water Quality Laboratory

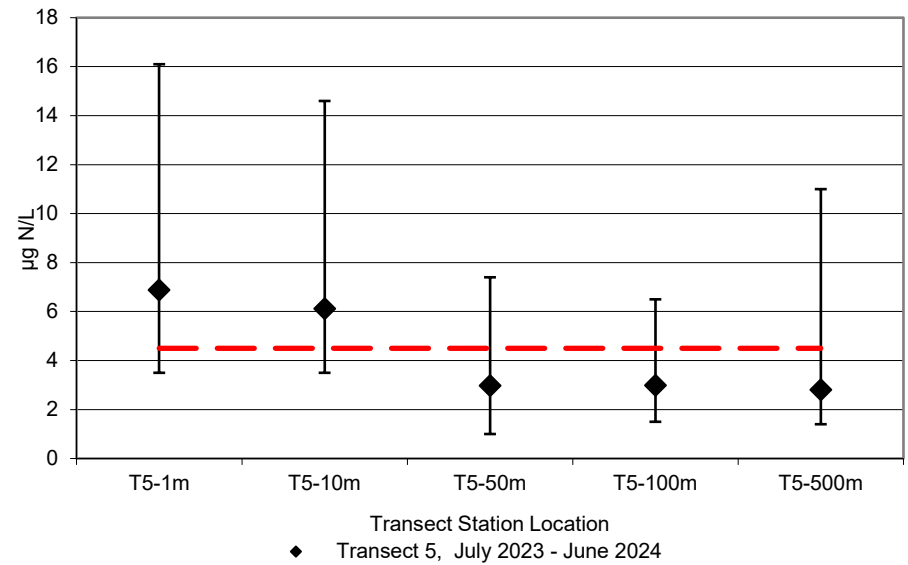
## Transect 5

July 2023 - June 2024

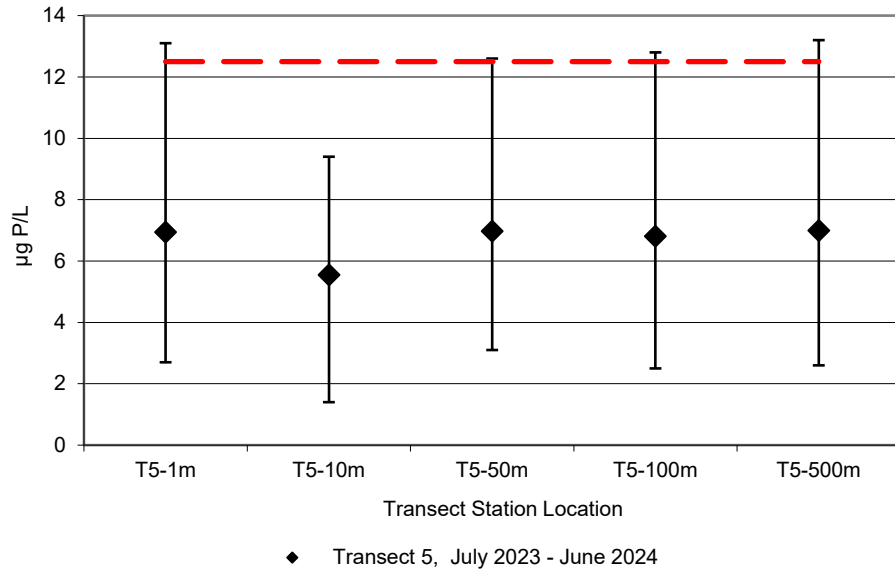
Ortho-Phosphate  
Geometric Mean



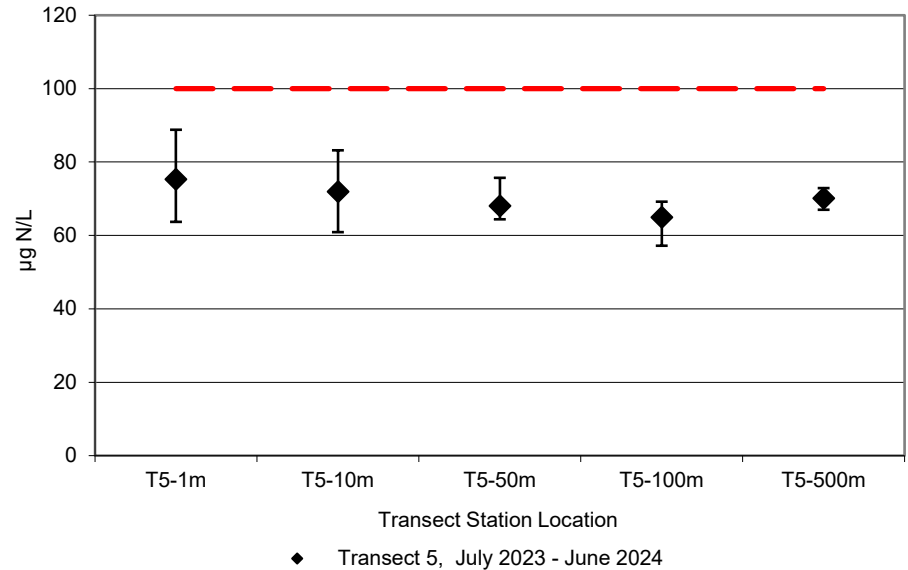
Nitrate + Nitrite  
Geometric Mean



Total Dissolved Phosphorous  
Geometric Mean



Total Dissolved Nitrogen  
Geometric Mean

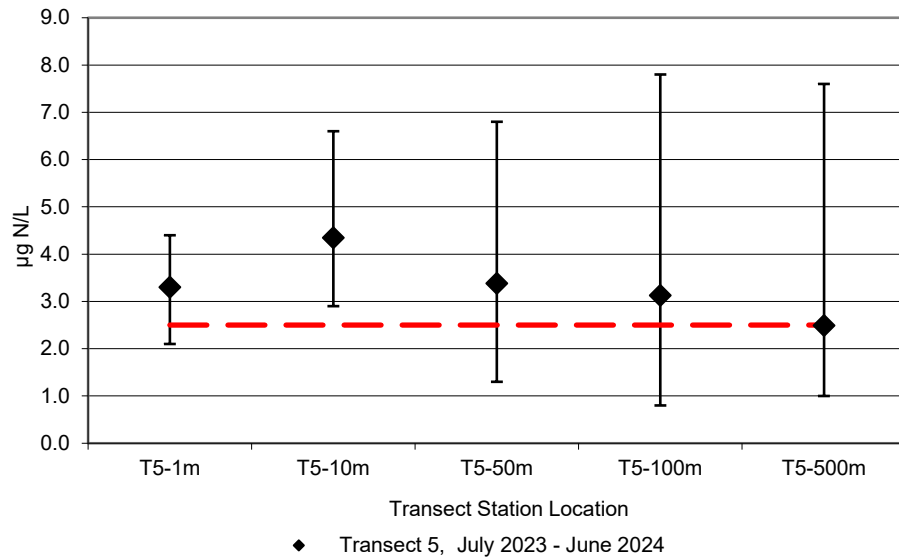


# NELHA Water Quality Laboratory

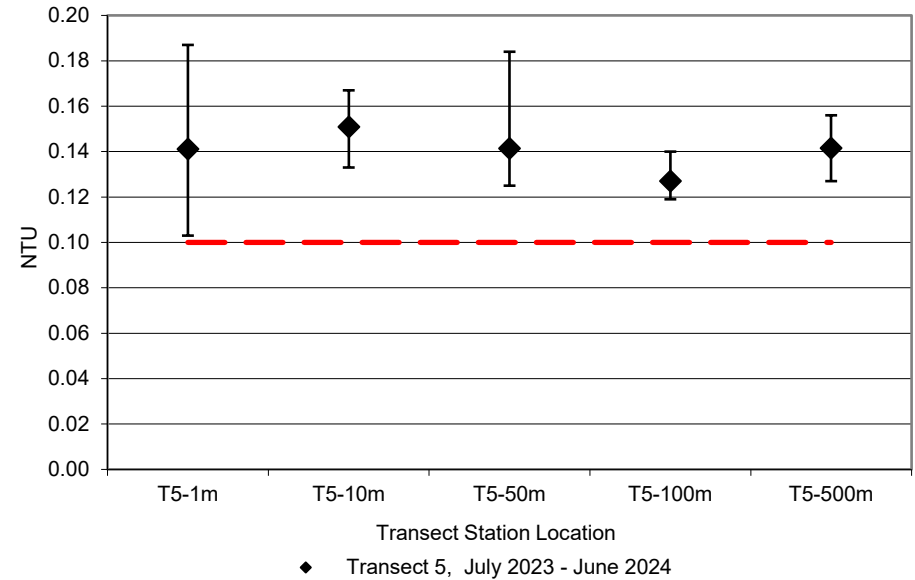
## Transect 5

July 2023 - June 2024

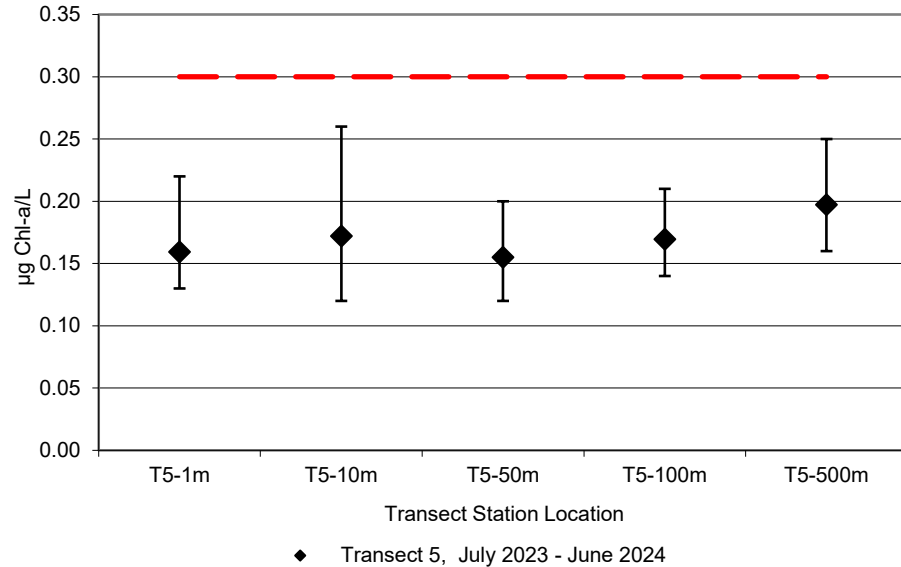
Total Ammonia  
Geometric Mean



Turbidity  
Geometric Mean



Chlorophyll-a  
Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2022 - June 2023

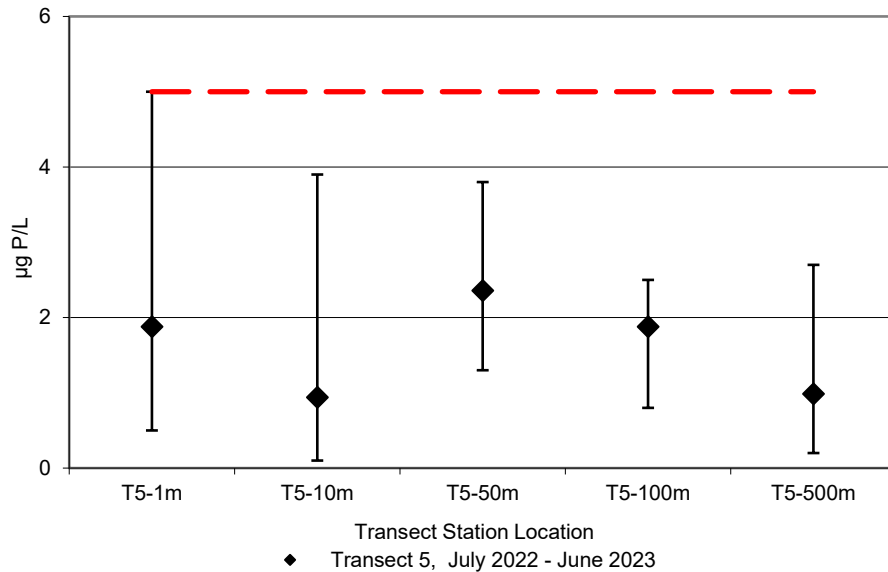
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  |
|-----------------------|----------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (o/oo)   | (°C)  |      | (ppm) | (μg/L) |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |
| T5-1m                 | 9/22/22  | 936    | 0.5  | Flood   | 0.08                          | 2.5      | 0.27                                                        | 3.8      | 0.17                                           | 2.4      | 1.3  | 35        | 0.16 | 4.9      | 4.5  | 64       | 0.17      | 34.87    | 27.1  | 8.09 | 6.83  | 0.19   |
| T5-1m                 | 12/27/22 | 1122   | 0.4  | Low     | 0.06                          | 2.0      | 0.77                                                        | 10.8     | 0.19                                           | 2.7      | 3.3  | 91        | 0.16 | 4.9      | 5.8  | 81       | 0.10      | 34.85    | 25.7  | 8.16 | 7.12  | 0.19   |
| T5-1m                 | 3/16/23  | 838    | 0.4  | Low     | 0.16                          | 5.0      | 0.72                                                        | 10.1     | 0.24                                           | 3.3      | 3.8  | 106       | 0.25 | 7.7      | 5.9  | 83       | 0.13      | 34.63    | 24.7  | 7.98 | 6.95  | 0.31   |
| T5-1m                 | 6/1/23   | 941    | 0.4  | Flood   | 0.02                          | 0.5      | 0.36                                                        | 5.1      | 0.13                                           | 1.8      | 1.2  | 33        | 0.19 | 5.9      | 4.4  | 62       | 0.23      | 34.72    | 25.8  | 8.09 | 6.93  | 0.21   |
| <b>Geomear FY '23</b> |          |        |      |         | 0.06                          | 1.9      | 0.48                                                        | 6.8      | 0.2                                            | 2.5      |      |           | 0.2  | 5.7      | 5.1  | 72       | 0.15      |          |       |      |       | 0.22   |
| T5-10m                | 9/22/22  | 940    | 0.5  | Flood   | 0.08                          | 2.5      | 0.19                                                        | 2.6      | 0.15                                           | 2.1      | 0.7  | 21        | 0.18 | 5.7      | 8.6  | 120      | 0.19      | 34.89    | 27.1  | 8.09 | 6.79  | 0.24   |
| T5-10m                | 12/27/22 | 1126   | 0.4  | Low     | 0.00                          | 0.1      | 0.65                                                        | 9.1      | 0.19                                           | 2.7      | 2.7  | 76        | 0.21 | 6.6      | 6.5  | 91       | 0.10      | 34.90    | 25.8  | 8.15 | 7.03  | 0.21   |
| T5-10m                | 3/16/23  | 942    | 0.4  | Low     | 0.13                          | 3.9      | 0.59                                                        | 8.2      | 0.29                                           | 4.0      | 3.2  | 91        | 0.24 | 7.5      | 5.5  | 77       | 0.10      | 34.64    | 24.7  | 8.00 | 6.94  | 0.23   |
| T5-10m                | 6/1/23   | 948    | 0.4  | Flood   | 0.03                          | 0.8      | 0.25                                                        | 3.5      | 0.11                                           | 1.5      | 0.9  | 24        | 0.18 | 5.7      | 4.1  | 58       | 0.14      | 34.74    | 25.8  | 8.09 | 6.92  | 0.18   |
| <b>Geomear FY '23</b> |          |        |      |         | 0.03                          | 0.9      | 0.36                                                        | 5.1      | 0.2                                            | 2.4      |      |           | 0.2  | 6.3      | 6.0  | 84       | 0.13      |          |       |      |       | 0.21   |
| T5-50m                | 9/22/22  | 945    | 0.5  | Flood   | 0.08                          | 2.5      | 0.14                                                        | 2.0      | 0.06                                           | 0.9      | 0.4  | 12        | 0.23 | 7.2      | 8.3  | 116      | 0.15      | 34.90    | 27.2  | 8.09 | 6.75  | 0.20   |
| T5-50m                | 12/27/22 | 1130   | 0.4  | Low     | 0.08                          | 2.5      | 0.34                                                        | 4.8      | 0.11                                           | 1.5      | 1.3  | 36        | 0.16 | 4.9      | 5.4  | 75       | 0.11      | 34.94    | 25.9  | 8.14 | 6.86  | 0.24   |
| T5-50m                | 3/16/23  | 947    | 0.4  | Low     | 0.12                          | 3.8      | 0.43                                                        | 6.0      | 0.17                                           | 2.4      | 3.1  | 86        | 0.22 | 6.7      | 4.5  | 64       | 0.09      | 34.65    | 24.7  | 8.02 | 6.89  | 0.32   |
| T5-50m                | 6/1/23   | 954    | 0.4  | Flood   | 0.04                          | 1.3      | 0.40                                                        | 5.6      | 0.14                                           | 1.9      | 1.8  | 51        | 0.19 | 5.8      | 4.2  | 59       | 0.14      | 34.73    | 25.8  | 8.09 | 6.84  | 0.18   |
| <b>Geomear FY '23</b> |          |        |      |         | 0.08                          | 2.4      | 0.30                                                        | 4.2      | 0.1                                            | 1.6      |      |           | 0.2  | 6.1      | 5.4  | 76       | 0.12      |          |       |      |       | 0.23   |
| T5-100m               | 9/22/22  | 952    | 0.5  | Flood   | 0.08                          | 2.5      | 0.06                                                        | 0.9      | 0.05                                           | 0.7      | 0.0  | 0         | 0.18 | 5.5      | 3.9  | 54       | 0.19      | 34.91    | 27.2  | 8.09 | 6.70  | 0.22   |
| T5-100m               | 12/27/22 | 1144   | 0.4  | Low     | 0.08                          | 2.5      | 0.32                                                        | 4.5      | 0.08                                           | 1.1      | 1.2  | 33        | 0.14 | 4.3      | 5.1  | 71       | 0.06      | 34.94    | 25.9  | 8.14 | 6.86  | 0.27   |
| T5-100m               | 3/16/23  | 852    | 0.4  | Low     | 0.08                          | 2.5      | 0.20                                                        | 2.8      | 0.09                                           | 1.2      | 2.1  | 60        | 0.23 | 7.2      | 4.6  | 65       | 0.10      | 34.68    | 24.8  | 8.04 | 6.91  | 0.29   |
| T5-100m               | 6/1/23   | 1003   | 0.4  | Flood   | 0.03                          | 0.8      | 0.82                                                        | 11.5     | 0.11                                           | 1.5      | 4.6  | 130       | 0.19 | 5.9      | 4.9  | 69       | 0.17      | 34.62    | 25.9  | 8.07 | 6.63  | 0.21   |
| <b>Geomear FY '23</b> |          |        |      |         | 0.06                          | 1.9      | 0.24                                                        | 3.4      | 0.1                                            | 1.1      |      |           | 0.2  | 5.6      | 4.6  | 65       | 0.12      |          |       |      |       | 0.25   |
| T5-500m               | 9/22/22  | 1000   | 0.5  | Flood   | 0.01                          | 0.2      | 0.04                                                        | 0.5      | 0.14                                           | 2.0      | -0.1 | -2        | 0.13 | 4.1      | 4.2  | 58       | 0.14      | 34.91    | 27.3  | 8.09 | 6.65  | 0.20   |
| T5-500m               | 12/27/22 | 1137   | 0.4  | Low     | 0.08                          | 2.5      | 0.08                                                        | 1.1      | 0.09                                           | 1.3      | 0.6  | 17        | 0.18 | 5.5      | 4.8  | 67       | 0.04      | 34.95    | 26.0  | 8.15 | 6.73  | 0.25   |
| T5-500m               | 3/16/23  | 859    | 0.4  | Low     | 0.09                          | 2.7      | 0.15                                                        | 2.1      | 0.10                                           | 1.4      | 2.7  | 75        | 0.23 | 7.2      | 5.4  | 75       | 0.14      | 34.66    | 24.9  | 8.05 | 6.93  | 0.35   |
| T5-500m               | 6/1/23   | 1011   | 0.4  | Flood   | 0.02                          | 0.7      | 0.22                                                        | 3.1      | 0.01                                           | 0.2      | 1.9  | 52        | 0.20 | 6.1      | 4.9  | 68       | 0.11      | 34.69    | 25.9  | 8.07 | 6.63  | 0.20   |
| <b>Geomear FY '23</b> |          |        |      |         | 0.03                          | 1.0      | 0.10                                                        | 1.4      | 0.1                                            | 0.9      |      |           | 0.2  | 5.6      | 4.8  | 67       | 0.10      |          |       |      |       | 0.24   |

# NELHA Water Quality Laboratory

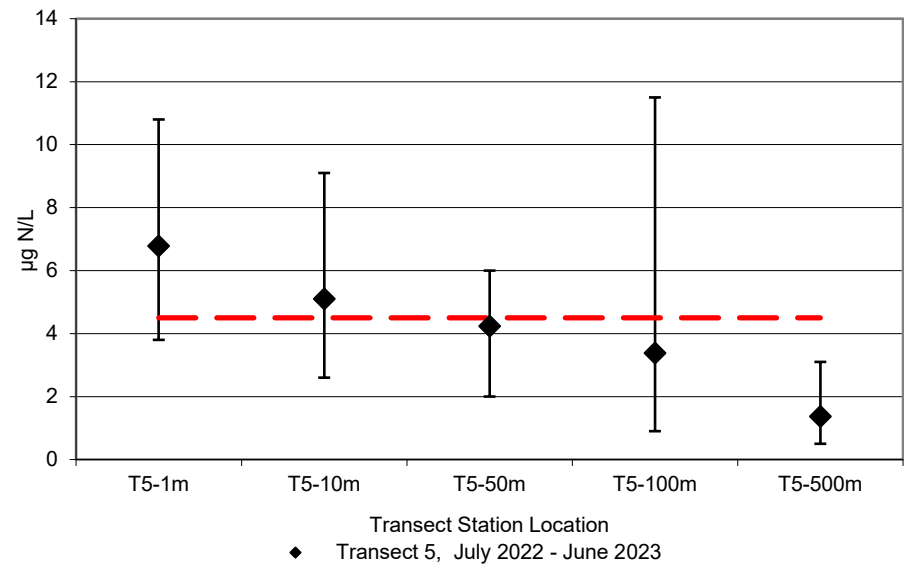
## Transect 5

July 2022 - June 2023

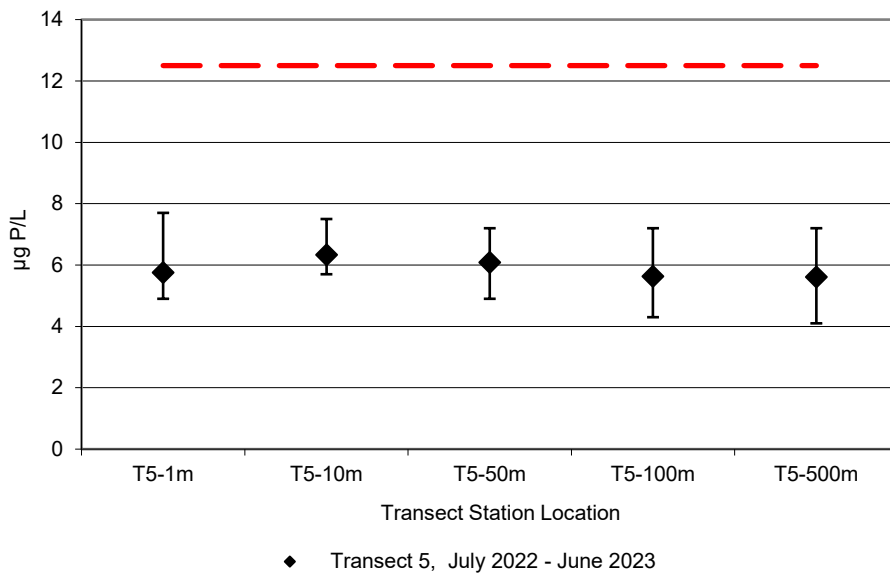
Ortho-Phosphate  
Geometric Mean



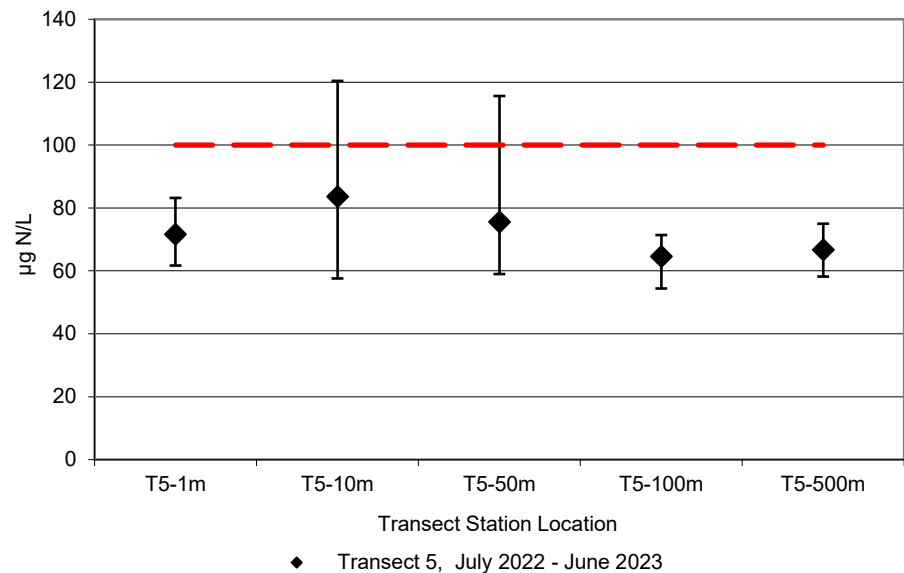
Nitrate + Nitrite  
Geometric Mean



Total Dissolved Phosphorous  
Geometric Mean



Total Dissolved Nitrogen  
Geometric Mean

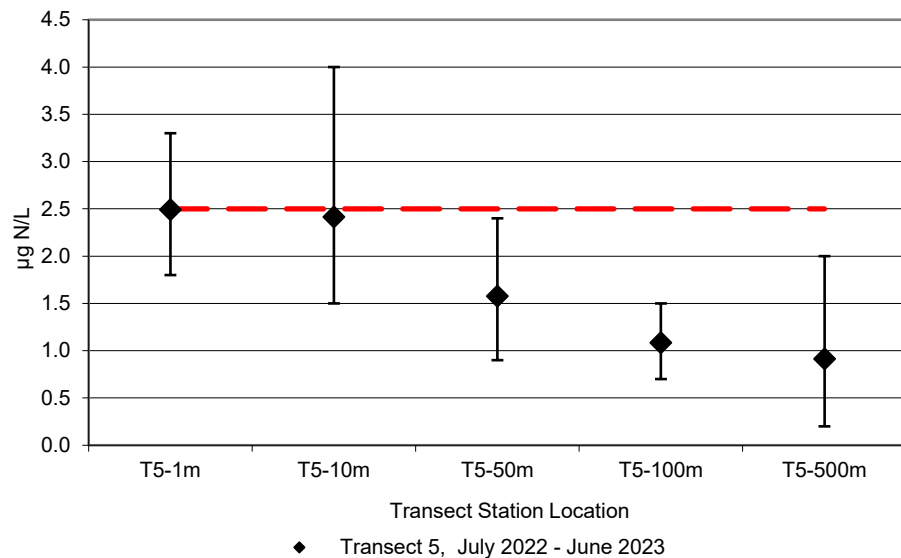


# NELHA Water Quality Laboratory

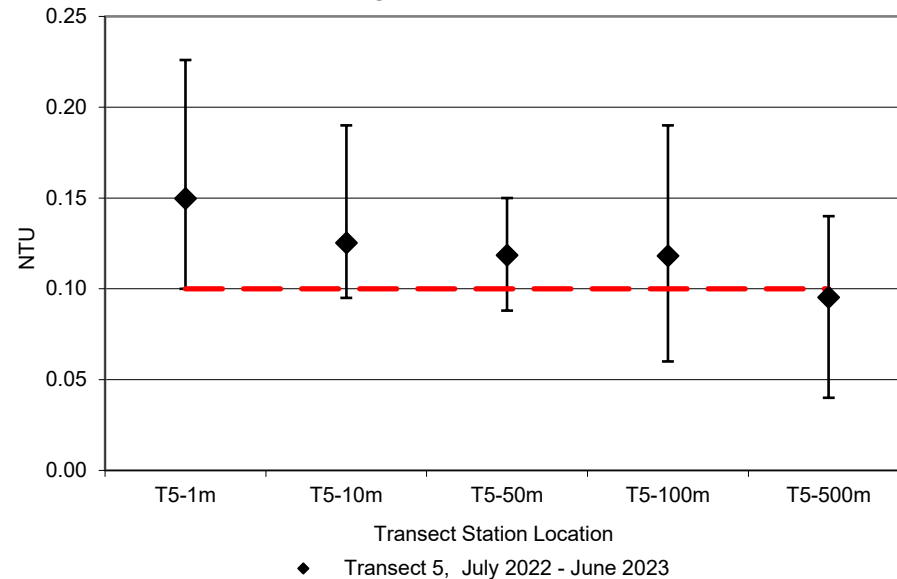
## Transect 5

July 2022 - June 2023

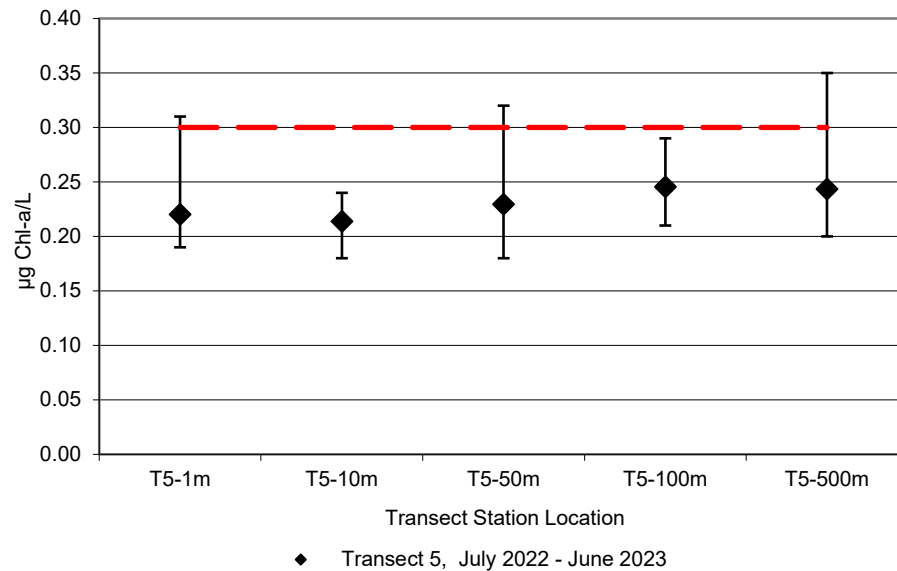
Total Ammonia  
Geometric Mean



Turbidity  
Geometric Mean



Chlorophyll-a  
Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2021 - June 2022

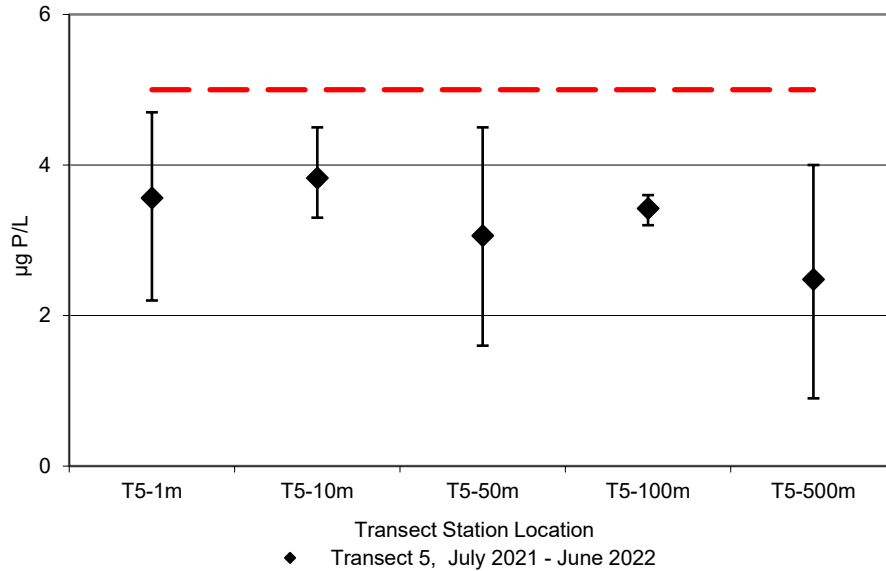
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  |
|-----------------------|----------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (o/oo)   | (°C)  |      | (ppm) | (μg/L) |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |
| T5-1m                 | 9/24/21  | 1035   | 0.6  | Ebb     | 0.07                          | 2.2      | 0.56                                                        | 7.9      | 0.31                                           | 4.4      | 1.8  | 51        | 0.21 | 6.4      | 5.7  | 80       | 0.09      | 35.50    | 26.7  | 8.02 | 6.89  | 0.16   |
| T5-1m                 | 12/16/21 | 949    | 0.6  | Low     | 0.15                          | 4.7      | 0.67                                                        | 9.4      | 0.31                                           | 4.3      | 3.3  | 93        | 0.27 | 8.5      | 5.4  | 75       | 0.07      | 35.04    | 25.9  | 8.11 | 6.80  | 0.18   |
| T5-1m                 | 3/16/22  | 1032   | 0.3  | Flood   | 0.13                          | 3.9      | 0.25                                                        | 3.5      | 0.20                                           | 2.8      | 1.1  | 32        | 0.31 | 9.6      | 4.8  | 67       | 0.06      | 34.91    | 25.5  | 8.08 | 7.03  | 0.16   |
| T5-1m                 | 6/9/22   | 930    | 0.7  | Flood   | 0.13                          | 4.0      | 0.37                                                        | 5.2      | 0.50                                           | 7.0      | 2.9  | 83        | 0.30 | 9.2      | 4.7  | 66       | 0.08      | 34.40    | 26.3  | 8.03 | 6.96  | 0.22   |
| <b>Geomear FY '22</b> |          |        |      |         | 0.12                          | 3.6      | 0.43                                                        | 6.1      | 0.3                                            | 4.4      |      |           | 0.3  | 8.3      | 5.1  | 72       | 0.07      |          |       |      |       | 0.18   |
| T5-10m                | 9/24/21  | 1039   | 0.6  | Ebb     | 0.11                          | 3.3      | 0.49                                                        | 6.8      | 0.29                                           | 4.1      | 1.5  | 42        | 0.18 | 5.6      | 5.1  | 72       | 0.09      | 35.46    | 26.7  | 8.02 | 6.89  | 0.14   |
| T5-10m                | 12/16/21 | 953    | 0.6  | Low     | 0.12                          | 3.7      | 0.43                                                        | 6.0      | 0.24                                           | 3.3      | 2.0  | 56        | 0.26 | 7.9      | 4.9  | 69       | 0.08      | 35.07    | 26.0  | 8.11 | 6.77  | 0.17   |
| T5-10m                | 3/16/22  | 1037   | 0.3  | Flood   | 0.13                          | 3.9      | 0.45                                                        | 6.3      | 0.20                                           | 2.8      | 3.4  | 96        | 0.32 | 9.8      | 4.6  | 64       | 0.06      | 34.84    | 25.5  | 8.08 | 7.10  | 0.20   |
| T5-10m                | 6/9/22   | 935    | 0.7  | Flood   | 0.15                          | 4.5      | 0.57                                                        | 8.0      | 0.42                                           | 5.9      | 4.4  | 123       | 0.28 | 8.8      | 4.5  | 64       | 0.10      | 34.38    | 26.3  | 8.02 | 6.85  | 0.21   |
| <b>Geomear FY '22</b> |          |        |      |         | 0.12                          | 3.8      | 0.48                                                        | 6.7      | 0.3                                            | 3.9      |      |           | 0.3  | 7.9      | 4.8  | 67       | 0.08      |          |       |      |       | 0.18   |
| T5-50m                | 9/24/21  | 1043   | 0.6  | Ebb     | 0.05                          | 1.6      | 0.41                                                        | 5.8      | 0.20                                           | 2.8      | 1.5  | 41        | 0.18 | 5.6      | 4.9  | 69       | 0.10      | 35.50    | 26.8  | 8.00 | 6.73  | 0.14   |
| T5-50m                | 12/16/21 | 959    | 0.6  | Low     | 0.12                          | 3.8      | 0.27                                                        | 3.8      | 0.19                                           | 2.6      | 1.4  | 39        | 0.27 | 8.5      | 4.6  | 65       | 0.05      | 35.09    | 26.0  | 8.11 | 6.71  | 0.18   |
| T5-50m                | 3/16/22  | 1042   | 0.3  | Flood   | 0.10                          | 3.2      | 0.20                                                        | 2.8      | 0.12                                           | 1.7      | 1.0  | 29        | 0.31 | 9.7      | 4.3  | 60       | 0.07      | 34.91    | 25.5  | 8.07 | 6.91  | 0.19   |
| T5-50m                | 6/9/22   | 941    | 0.7  | Flood   | 0.15                          | 4.5      | 1.26                                                        | 17.7     | 0.51                                           | 7.2      | 8.9  | 249       | 0.30 | 9.2      | 5.4  | 76       | 0.09      | 34.24    | 26.3  | 8.00 | 6.61  | 0.34   |
| <b>Geomear FY '22</b> |          |        |      |         | 0.10                          | 3.1      | 0.41                                                        | 5.7      | 0.2                                            | 3.1      |      |           | 0.3  | 8.1      | 4.8  | 67       | 0.07      |          |       |      |       | 0.20   |
| T5-100m               | 9/24/21  | 1050   | 0.6  | Ebb     | 0.10                          | 3.2      | 0.47                                                        | 6.6      | 0.30                                           | 4.2      | 2.0  | 57        | 0.19 | 6        | 4.9  | 69       | 0.10      | 35.52    | 26.8  | 8.00 | 6.66  | 0.14   |
| T5-100m               | 12/16/21 | 1005   | 0.6  | Low     | 0.12                          | 3.6      | 0.19                                                        | 2.7      | 0.14                                           | 2.0      | 1.6  | 46        | 0.25 | 7.8      | 4.3  | 61       | 0.08      | 35.09    | 26.0  | 8.11 | 6.69  | 0.22   |
| T5-100m               | 3/16/22  | 1049   | 0.3  | Flood   | 0.11                          | 3.4      | 0.02                                                        | 0.3      | 0.10                                           | 1.4      | -0.2 | -4        | 0.31 | 9.7      | 4.3  | 60       | 0.03      | 34.93    | 25.5  | 8.07 | 6.84  | 0.18   |
| T5-100m               | 6/9/22   | 947    | 0.7  | Flood   | 0.11                          | 3.5      | 0.54                                                        | 7.6      | 0.44                                           | 6.2      | 6.0  | 170       | 0.28 | 8.7      | 4.5  | 64       | 0.13      | 34.32    | 26.3  | 8.00 | 6.57  | 0.27   |
| <b>Geomear FY '22</b> |          |        |      |         | 0.11                          | 3.4      | 0.18                                                        | 2.5      | 0.2                                            | 2.9      |      |           | 0.3  | 7.9      | 4.5  | 63       | 0.07      |          |       |      |       | 0.20   |
| T5-500m               | 9/24/21  | 1057   | 0.6  | Ebb     | 0.03                          | 0.9      | 0.04                                                        | 0.6      | 0.36                                           | 5.1      | -0.3 | -8        | 0.18 | 5.7      | 4.6  | 64       | 0.06      | 35.55    | 26.9  | 8.02 | 6.65  | 0.24   |
| T5-500m               | 12/16/21 | 1018   | 0.6  | Low     | 0.13                          | 4.0      | 0.30                                                        | 4.2      | 0.12                                           | 1.7      | 2.3  | 65        | 0.27 | 8.3      | 4.7  | 65       | 0.06      | 35.06    | 25.9  | 8.11 | 6.64  | 0.23   |
| T5-500m               | 3/16/22  | 1055   | 0.3  | Flood   | 0.11                          | 3.4      | 0.01                                                        | 0.1      | 0.05                                           | 0.7      | -0.1 | -2        | 0.30 | 9.4      | 4.1  | 58       | 0.08      | 34.91    | 25.6  | 8.07 | 6.83  | 0.20   |
| T5-500m               | 6/9/22   | 954    | 0.7  | Flood   | 0.10                          | 3.1      | 0.21                                                        | 2.9      | 0.29                                           | 4.1      | 1.7  | 49        | 0.26 | 8.1      | 4.5  | 63       | 0.06      | 34.45    | 26.4  | 8.02 | 6.70  | 0.21   |
| <b>Geomear FY '22</b> |          |        |      |         | 0.08                          | 2.5      | 0.07                                                        | 0.9      | 0.2                                            | 2.2      |      |           | 0.3  | 7.7      | 4.5  | 63       | 0.06      |          |       |      |       | 0.22   |

# NELHA Water Quality Laboratory

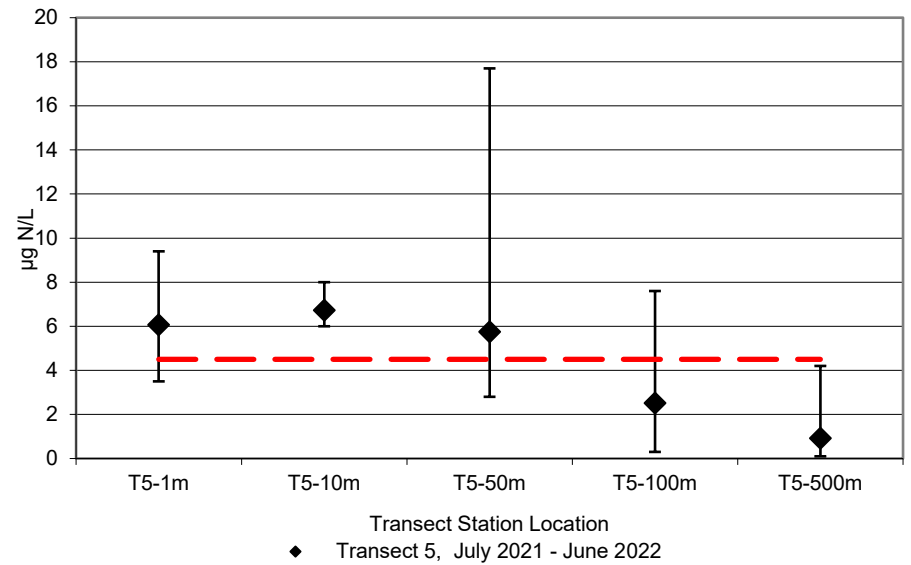
## Transect 5

July 2021 - June 2022

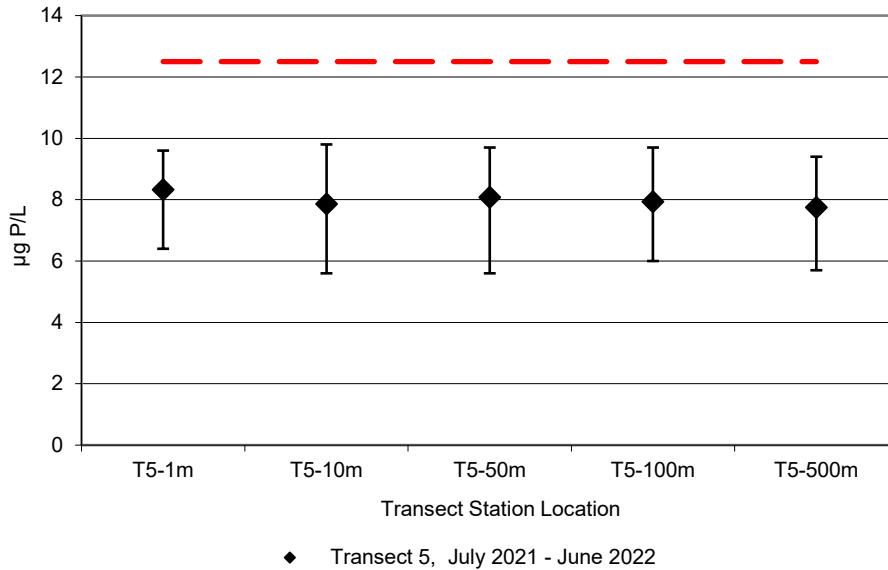
Ortho-Phosphate  
Geometric Mean



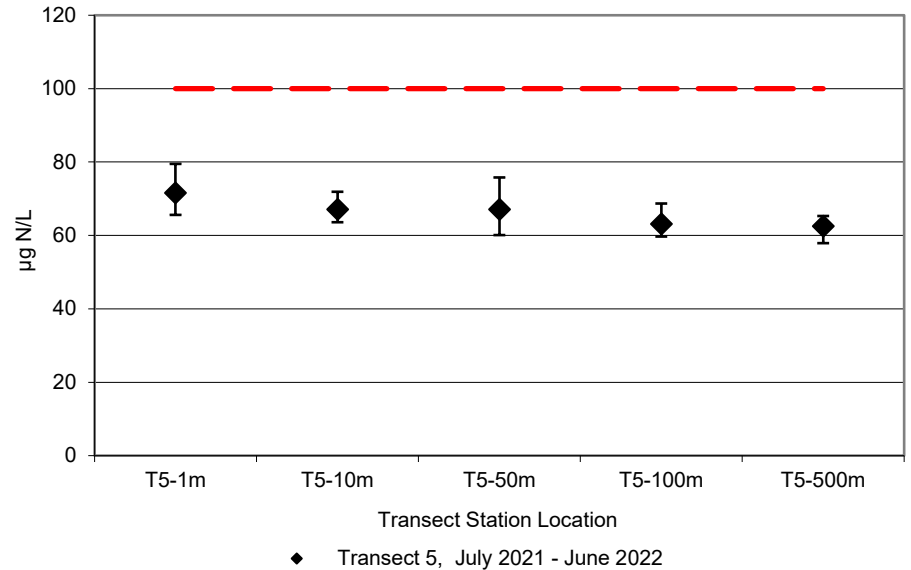
Nitrate + Nitrite  
Geometric Mean



Total Dissolved Phosphorous  
Geometric Mean



Total Dissolved Nitrogen  
Geometric Mean

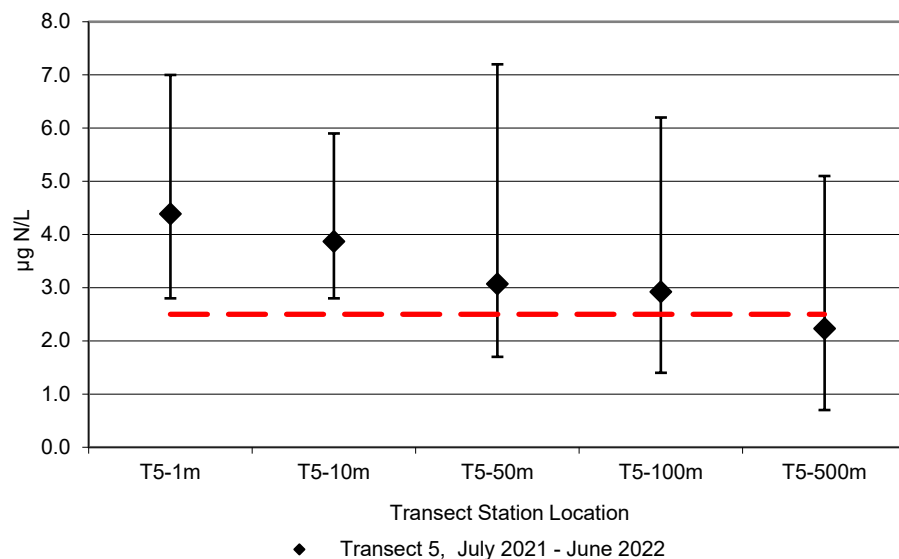


# NELHA Water Quality Laboratory

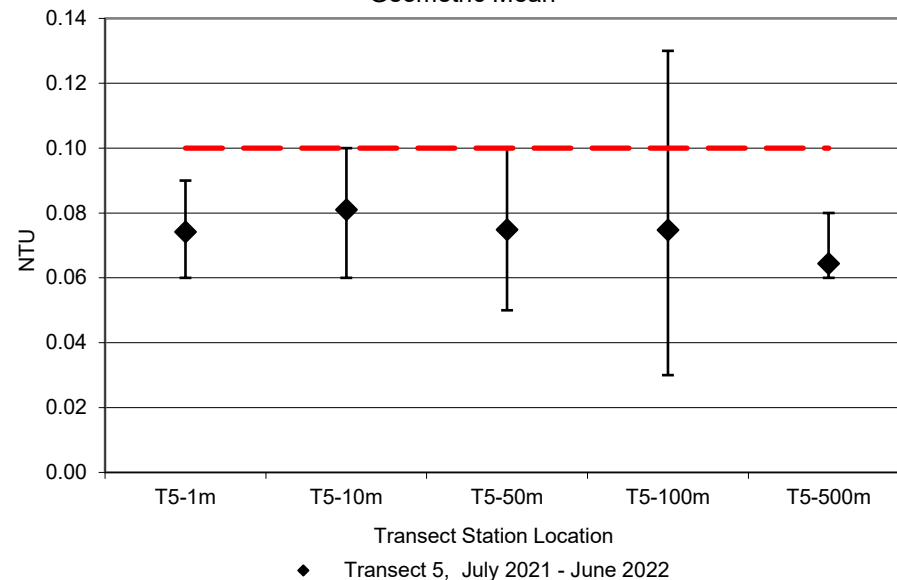
## Transect 5

July 2021 - June 2022

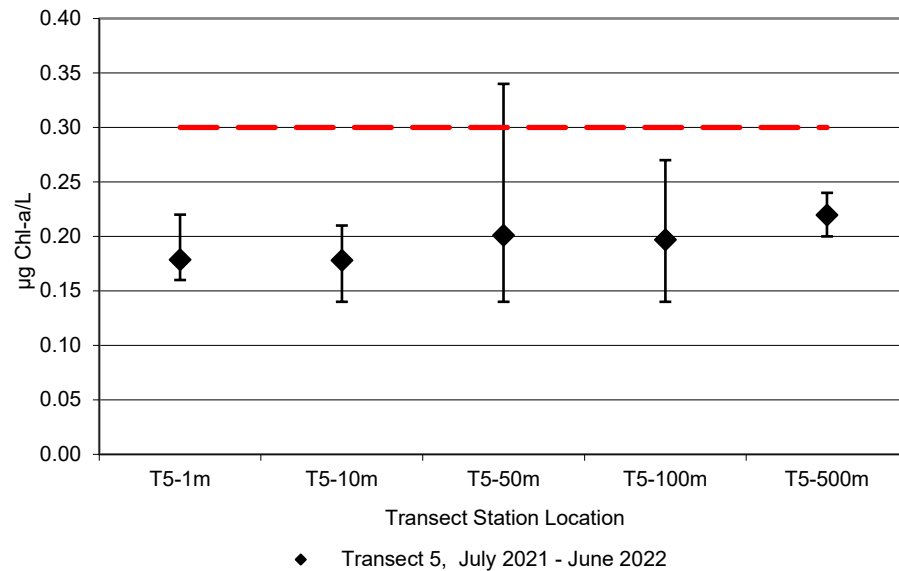
Total Ammonia  
Geometric Mean



Turbidity  
Geometric Mean



Chlorophyll-a  
Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2020 - June 2021

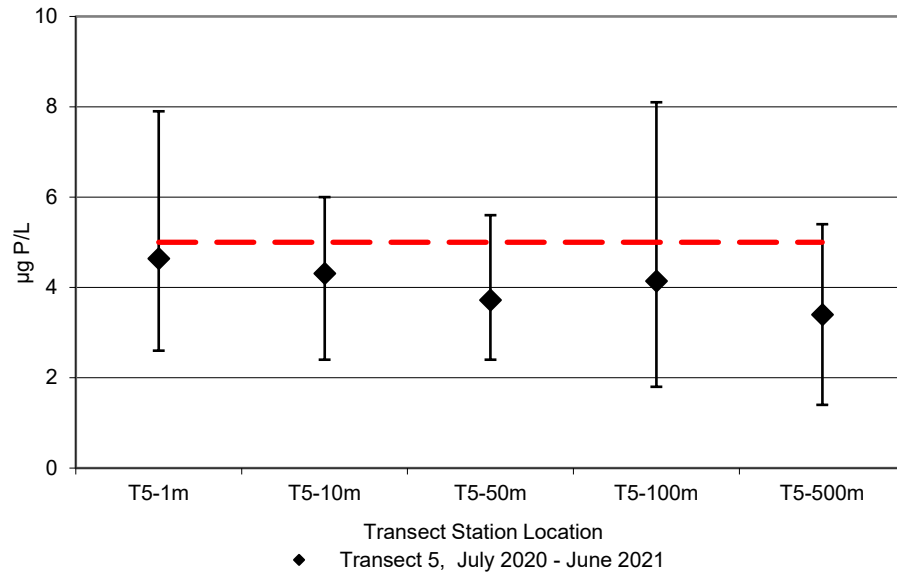
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  |
|-----------------------|----------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (o/oo)   | (°C)  |      | (ppm) | (μg/L) |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |
| T5-1m                 | 9/23/20  | 955    | 1.9  | High    | 0.13                          | 4.1      | 0.20                                                        | 2.8      | 0.63                                           | 8.8      | 1.0  | 28        | 0.37 | 11.4     | 7.7  | 108      | 0.02      | 36.09    | 26.2  | 8.17 | 5.83  | 0.19   |
| T5-1m                 | 12/16/20 | 956    | 0.8  | Ebb     | 0.18                          | 5.5      | 0.71                                                        | 9.9      | 0.42                                           | 5.9      | 3.2  | 91        | 0.30 | 9.3      | 6.2  | 87       | 0.11      | 35.53    | 26.5  | 8.11 | 6.89  | 0.18   |
| T5-1m                 | 3/10/21  | 1008   | 0.3  | Low     | 0.26                          | 7.9      | 0.66                                                        | 9.3      | 0.19                                           | 2.6      | 3.8  | 106       | 0.34 | 10.5     | 4.6  | 64       | 0.06      | 35.59    | 24.7  | 8.08 | 6.94  | 0.17   |
| T5-1m                 | 5/26/21  | 1006   | -0.2 | Low     | 0.08                          | 2.6      | 0.57                                                        | 8.0      | 0.09                                           | 1.3      | 4.2  | 119       | 0.16 | 4.9      | 5.0  | 70       | 0.09      | 35.50    | 25.6  | 8.01 | 7.13  | 0.24   |
| <b>Geomear FY '21</b> |          |        |      |         | 0.15                          | 4.6      | 0.48                                                        | 6.7      | 0.3                                            | 3.6      |      |           | 0.3  | 8.6      | 5.7  | 80       | 0.06      |          |       |      |       | 0.19   |
| T5-10m                | 9/23/20  | 1000   | 1.9  | High    | 0.15                          | 4.8      | 0.20                                                        | 2.8      | 0.47                                           | 6.6      | 0.8  | 23        | 0.32 | 9.9      | 5.6  | 79       | 0.04      | 36.10    | 26.2  | 8.20 | 5.84  | 0.14   |
| T5-10m                | 12/16/20 | 1003   | 0.8  | Ebb     | 0.16                          | 5.0      | 0.68                                                        | 9.5      | 0.38                                           | 5.3      | 3.1  | 88        | 0.30 | 9.2      | 6.1  | 85       | 0.08      | 35.51    | 26.5  | 8.11 | 6.89  | 0.16   |
| T5-10m                | 3/10/21  | 1013   | 0.3  | Low     | 0.19                          | 6.0      | 0.56                                                        | 7.9      | 0.33                                           | 4.6      | 4.1  | 115       | 0.32 | 10.0     | 4.1  | 57       | 0.09      | 35.58    | 24.7  | 8.08 | 6.95  | 0.16   |
| T5-10m                | 5/26/21  | 1003   | -0.2 | Low     | 0.08                          | 2.4      | 0.60                                                        | 8.4      | 0.19                                           | 2.6      | 6.4  | 179       | 0.13 | 4.1      | 6.7  | 94       | 0.11      | 35.52    | 25.6  | 8.01 | 7.12  | 0.23   |
| <b>Geomear FY '21</b> |          |        |      |         | 0.14                          | 4.3      | 0.46                                                        | 6.5      | 0.3                                            | 4.5      |      |           | 0.3  | 7.8      | 5.5  | 77       | 0.08      |          |       |      |       | 0.17   |
| T5-50m                | 9/23/20  | 1006   | 1.9  | High    | 0.16                          | 4.9      | 0.19                                                        | 2.6      | 0.30                                           | 4.2      | 1.3  | 35        | 0.36 | 11.1     | 6.8  | 95       | 0.04      | 36.10    | 26.2  | 8.19 | 5.80  | 0.21   |
| T5-50m                | 12/16/20 | 1009   | 0.8  | Ebb     | 0.18                          | 5.6      | 0.71                                                        | 9.9      | 0.45                                           | 6.3      | 3.4  | 95        | 0.31 | 9.6      | 6.5  | 91       | 0.08      | 35.52    | 26.5  | 8.11 | 6.85  | 0.18   |
| T5-50m                | 3/10/21  | 1018   | 0.3  | Low     | 0.09                          | 2.9      | 0.79                                                        | 11.0     | 0.28                                           | 3.9      | 6.1  | 172       | 0.36 | 11.3     | 5.1  | 71       | 0.07      | 35.57    | 24.7  | 8.08 | 6.92  | 0.16   |
| T5-50m                | 5/26/21  | 959    | -0.2 | Low     | 0.08                          | 2.4      | 0.65                                                        | 9.1      | 0.14                                           | 1.9      | 4.2  | 119       | 0.08 | 2.6      | 6.1  | 85       | 0.07      | 35.53    | 25.6  | 8.01 | 7.03  | 0.21   |
| <b>Geomear FY '21</b> |          |        |      |         | 0.12                          | 3.7      | 0.51                                                        | 7.1      | 0.3                                            | 3.7      |      |           | 0.2  | 7.5      | 6.1  | 85       | 0.06      |          |       |      |       | 0.19   |
| T5-100m               | 9/23/20  | 1011   | 1.9  | High    | 0.17                          | 5.3      | 0.09                                                        | 1.2      | 0.16                                           | 2.3      | 1.1  | 32        | 0.33 | 10.3     | 6.2  | 87       | 0.02      | 36.10    | 26.2  | 8.19 | 5.57  | 0.24   |
| T5-100m               | 12/16/20 | 1015   | 0.8  | Ebb     | 0.12                          | 3.8      | 0.01                                                        | 0.1      | 0.29                                           | 4.0      | 0.0  | -1        | 0.27 | 8.3      | 5.3  | 75       | 0.05      | 35.59    | 26.6  | 8.11 | 6.63  | 0.13   |
| T5-100m               | 3/10/21  | 1024   | 0.3  | Low     | 0.26                          | 8.1      | 1.16                                                        | 16.2     | 0.35                                           | 4.9      | 6.5  | 182       | 0.38 | 11.7     | 5.4  | 75       | 0.09      | 35.52    | 24.7  | 8.08 | 6.98  | 0.18   |
| T5-100m               | 5/26/21  | 953    | -0.2 | Low     | 0.06                          | 1.8      | 0.59                                                        | 8.2      | 0.19                                           | 2.7      | 4.2  | 117       | 0.12 | 3.8      | 5.7  | 79       | 0.07      | 35.44    | 25.6  | 8.00 | 6.88  | 0.17   |
| <b>Geomear FY '21</b> |          |        |      |         | 0.13                          | 4.1      | 0.14                                                        | 2.0      | 0.2                                            | 3.3      |      |           | 0.3  | 7.9      | 5.6  | 79       | 0.05      |          |       |      |       | 0.18   |
| T5-500m               | 9/23/20  | 1020   | 1.9  | High    | 0.17                          | 5.4      | 0.04                                                        | 0.5      | 0.11                                           | 1.6      | 1.2  | 35        | 0.35 | 10.8     | 6.3  | 89       | 0.02      | 36.11    | 26.2  | 8.19 | 5.51  | 0.21   |
| T5-500m               | 12/16/20 | 1024   | 0.8  | Ebb     | 0.14                          | 4.4      | 0.16                                                        | 2.3      | 0.21                                           | 2.9      | 0.1  | 3         | 0.28 | 8.8      | 5.6  | 78       | 0.04      | 35.57    | 26.5  | 8.11 | 6.64  | 0.11   |
| T5-500m               | 3/10/21  | 1032   | 0.3  | Low     | 0.13                          | 4.0      | 0.24                                                        | 3.3      | 0.16                                           | 2.2      | 0.6  | 16        | 0.30 | 9.2      | 3.8  | 53       | 0.06      | 35.73    | 24.8  | 8.09 | 6.81  | 0.17   |
| T5-500m               | 5/26/21  | 947    | -0.2 | Low     | 0.05                          | 1.4      | 0.17                                                        | 2.4      | 0.09                                           | 1.2      | 1.3  | 37        | 0.13 | 3.9      | 4.4  | 62       | 0.05      | 35.64    | 25.6  | 8.01 | 6.81  | 0.13   |
| <b>Geomear FY '21</b> |          |        |      |         | 0.11                          | 3.4      | 0.12                                                        | 1.7      | 0.1                                            | 1.9      |      |           | 0.2  | 7.6      | 4.9  | 69       | 0.04      |          |       |      |       | 0.15   |

# NELHA Water Quality Laboratory

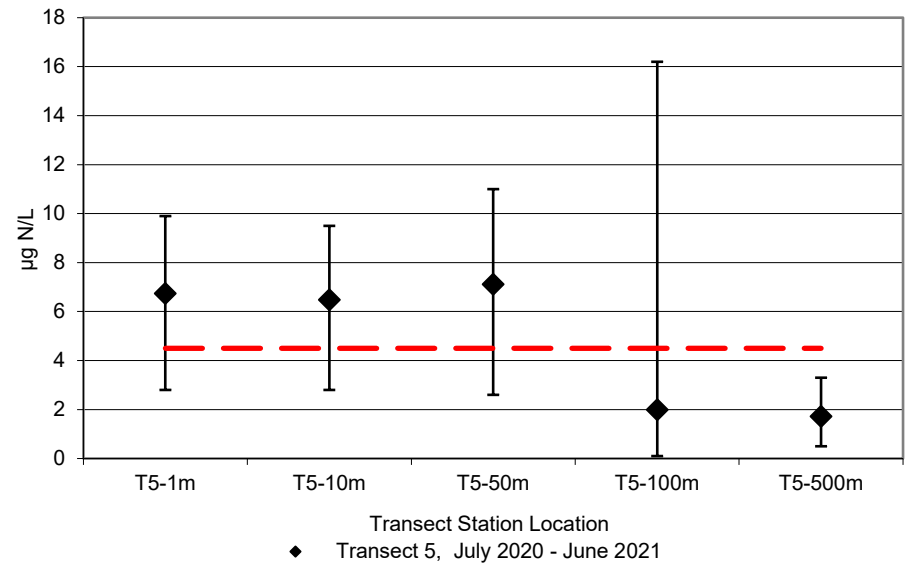
## Transect 5

July 2020 - June 2021

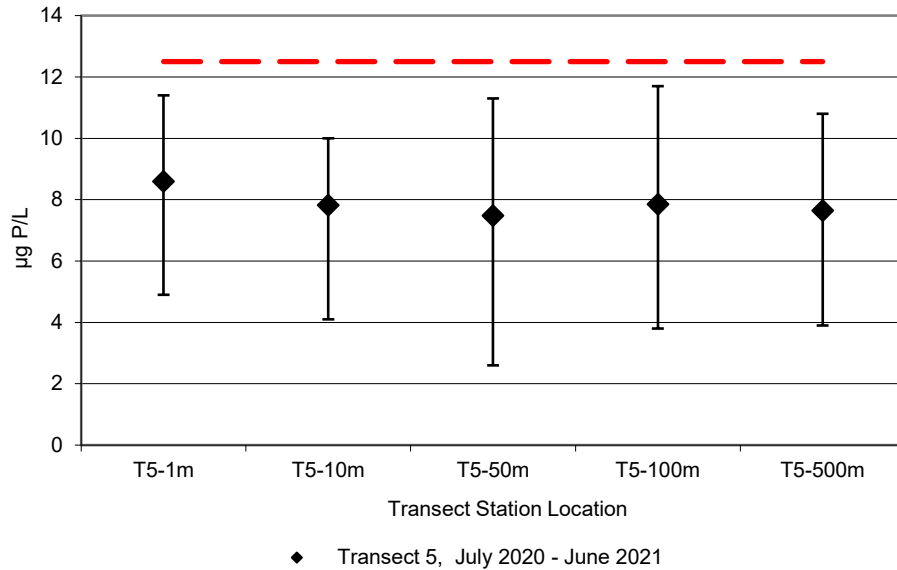
**Ortho-Phosphate  
Geometric Mean**



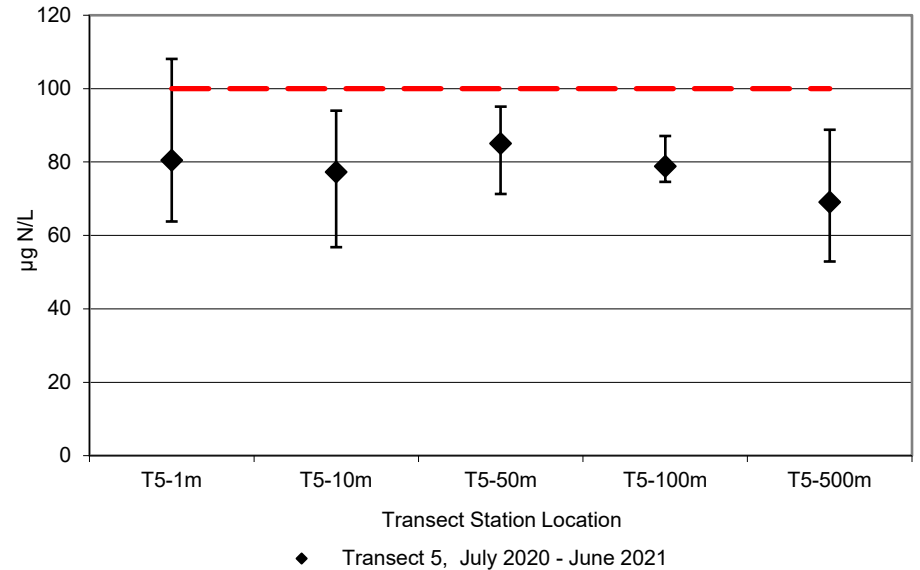
**Nitrate + Nitrite  
Geometric Mean**



**Total Dissolved Phosphorous  
Geometric Mean**



**Total Dissolved Nitrogen  
Geometric Mean**

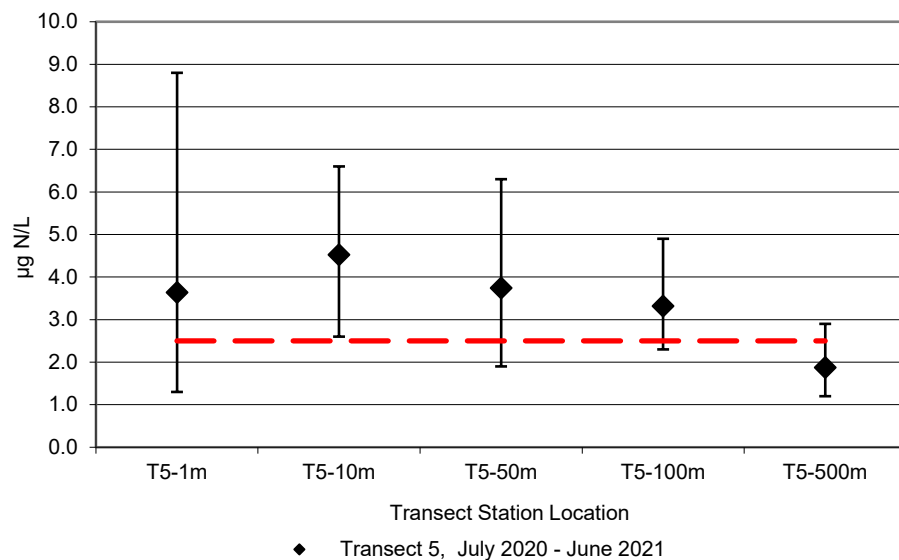


# NELHA Water Quality Laboratory

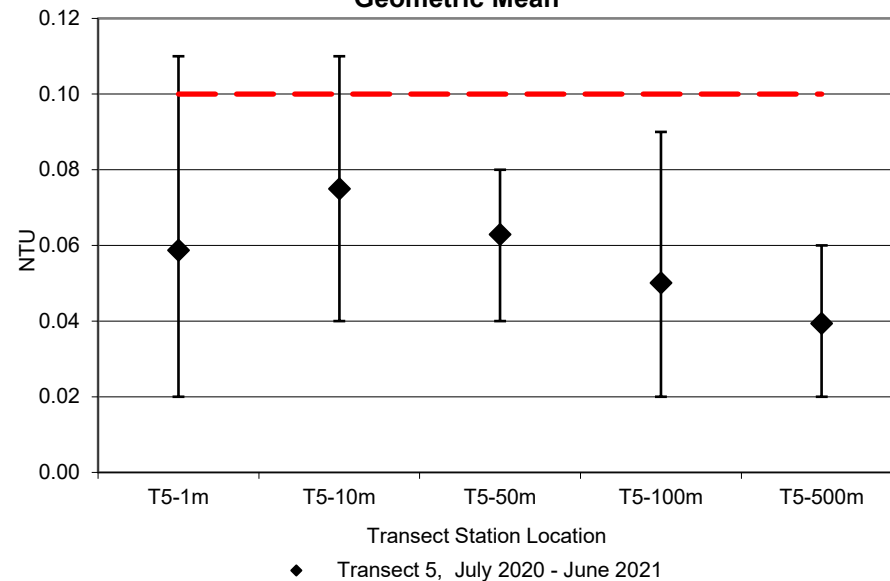
## Transect 5

July 2020 - June 2021

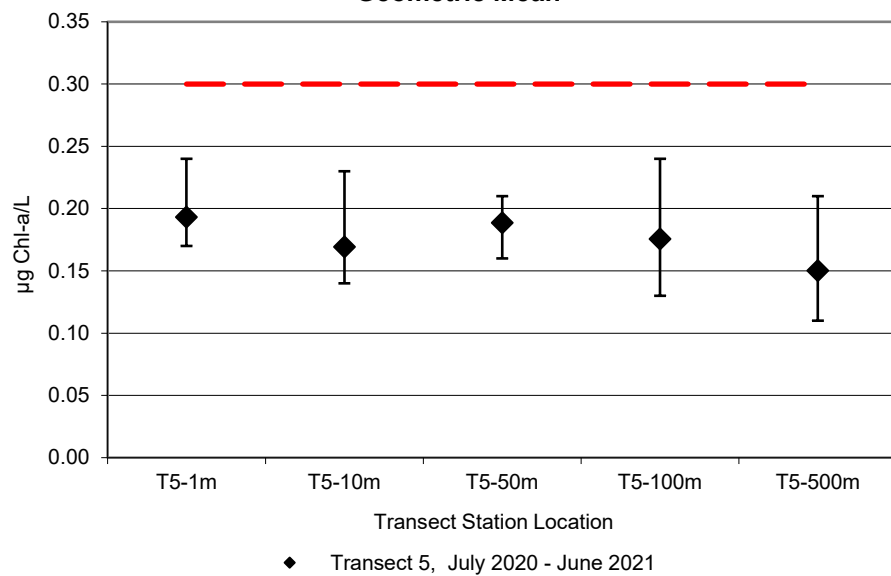
### Total Ammonia Geometric Mean



### Turbidity Geometric Mean



### Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2018 - June 2019

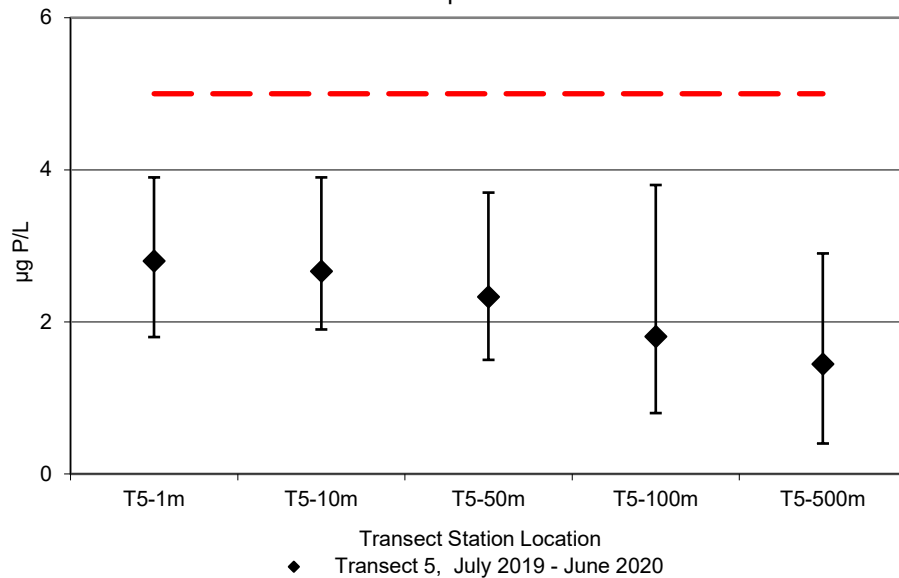
| SITE ID               | DATE     | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |            | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |            | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |            | Si   |           | TDP  |             | TDN  |            | Turbidity   | Salinity | Temp. | pH   | DO    | Chl a       |
|-----------------------|----------|--------|------|---------|-------------------------------|------------|-------------------------------------------------------------|------------|------------------------------------------------|------------|------|-----------|------|-------------|------|------------|-------------|----------|-------|------|-------|-------------|
|                       | M/D/Y    | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L)   | (μM)                                                        | (μg N/L)   | (μM)                                           | (μg N/L)   | (μM) | (μg Si/L) | (μM) | (μg P/L)    | (μM) | (μg N/L)   | (NTU)       | (o/oo)   | (°C)  |      | (ppm) | (μg/L)      |
| <b>DOH LIMIT</b>      |          |        |      |         | 0.16                          | <b>5</b>   | 0.32                                                        | <b>4.5</b> | 0.18                                           | <b>2.5</b> |      |           | 0.40 | <b>12.5</b> | 7.1  | <b>100</b> | <b>0.10</b> |          |       |      |       | <b>0.3</b>  |
| T5-1m                 | 8/15/19  | 1003   | 0.1  | Flood   | 0.06                          | 1.8        | 0.16                                                        | 2.3        | 0.41                                           | 5.8        | 3.1  | 86        | 0.30 | 9.4         | 2.3  | 32         | 0.10        | 35.24    | 28.2  | 8.26 | 6.77  | 0.14        |
| T5-1m                 | 11/20/19 | 1108   | 1.9  | High    | 0.13                          | 3.9        | 0.31                                                        | 4.3        | 0.17                                           | 2.4        | 0.8  | 24        | 0.44 | 13.7        | 3.2  | 45         | 0.09        | 35.20    | 27.5  | 8.22 | 6.88  | 0.13        |
| T5-1m                 | 1/23/20  | 1021   | 0.3  | Low     | 0.12                          | 3.8        | 0.16                                                        | 2.3        | 0.09                                           | 1.3        | 1.1  | 31        | 0.42 | 12.9        | 2.3  | 33         | 0.08        | 34.92    | 24.9  | 8.22 | 7.09  | 0.10        |
| T5-1m                 | 6/25/20  | 942    | 0.4  | Ebb     | 0.07                          | 2.3        | 0.01                                                        | 0.2        | 0.25                                           | 3.5        | 1.7  | 48        | 0.27 | 8.3         | 2.7  | 38         | 0.08        | 35.47    | 26.1  | 8.17 | 6.70  | 0.20        |
| <b>Geomear FY '20</b> |          |        |      |         | 0.09                          | <b>2.8</b> | 0.10                                                        | <b>1.4</b> | 0.2                                            | <b>2.8</b> |      |           | 0.3  | <b>10.8</b> | 2.6  | <b>37</b>  | <b>0.09</b> |          |       |      |       | <b>0.14</b> |
| T5-10m                | 8/15/19  | 1007   | 0.1  | Flood   | 0.06                          | 2.0        | 0.16                                                        | 2.3        | 0.31                                           | 4.3        | 3.5  | 100       | 0.30 | 9.2         | 1.8  | 25         | 0.08        | 35.24    | 28.2  | 8.26 | 6.75  | 0.17        |
| T5-10m                | 11/20/19 | 1113   | 1.9  | High    | 0.13                          | 3.9        | 0.31                                                        | 4.3        | 0.01                                           | 0.2        | 0.8  | 23        | 0.45 | 13.8        | 3.3  | 46         | 0.09        | 35.19    | 27.5  | 8.22 | 6.79  | 0.10        |
| T5-10m                | 1/23/20  | 1026   | 0.3  | Low     | 0.11                          | 3.4        | 0.16                                                        | 2.3        | 0.09                                           | 1.3        | 3.3  | 92        | 0.38 | 11.9        | 2.6  | 36         | 0.11        | 34.91    | 24.9  | 8.23 | 7.12  | 0.11        |
| T5-10m                | 6/25/20  | 946    | 0.4  | Ebb     | 0.06                          | 1.9        | 0.16                                                        | 2.3        | 0.06                                           | 0.8        | 1.6  | 46        | 0.28 | 8.7         | 1.5  | 21         | 0.07        | 35.48    | 26.1  | 8.18 | 6.73  | 0.22        |
| <b>Geomear FY '20</b> |          |        |      |         | 0.09                          | <b>2.7</b> | 0.19                                                        | <b>2.6</b> | 0.07                                           | <b>1.0</b> |      |           | 0.35 | <b>10.7</b> | 2.2  | <b>31</b>  | <b>0.09</b> |          |       |      |       | <b>0.14</b> |
| T5-50m                | 8/15/19  | 1011   | 0.1  | Flood   | 0.05                          | 1.5        | 0.16                                                        | 2.3        | 0.24                                           | 3.3        | 3.1  | 86        | 0.29 | 9.1         | 2.0  | 28         | 0.12        | 35.25    | 28.2  | 8.26 | 6.52  | 0.15        |
| T5-50m                | 11/20/19 | 1117   | 1.9  | High    | 0.12                          | 3.7        | 0.29                                                        | 4.0        | 0.07                                           | 1.0        | 0.9  | 24        | 0.43 | 13.4        | 3.3  | 46         | 0.09        | 35.20    | 27.5  | 8.21 | 6.71  | 0.10        |
| T5-50m                | 1/23/20  | 1030   | 0.3  | Low     | 0.11                          | 3.3        | 0.16                                                        | 2.3        | 0.09                                           | 1.3        | 0.8  | 24        | 0.41 | 12.8        | 3.0  | 42         | 0.07        | 34.94    | 25.0  | 8.22 | 6.98  | 0.10        |
| T5-50m                | 6/25/20  | 950    | 0.4  | Ebb     | 0.05                          | 1.6        | 0.16                                                        | 2.3        | 0.23                                           | 3.2        | 0.4  | 12        | 0.27 | 8.4         | 2.1  | 30         | 0.06        | 35.53    | 26.3  | 8.18 | 6.61  | 0.18        |
| <b>Geomear FY '20</b> |          |        |      |         | 0.08                          | <b>2.3</b> | 0.19                                                        | <b>2.6</b> | 0.14                                           | <b>1.9</b> |      |           | 0.35 | <b>10.7</b> | 2.5  | <b>35</b>  | <b>0.08</b> |          |       |      |       | <b>0.13</b> |
| T5-100m               | 8/15/19  | 1017   | 0.2  | Flood   | 0.04                          | 1.3        | 0.16                                                        | 2.3        | 0.51                                           | 7.1        | 3.9  | 108       | 0.29 | 9.1         | 2.6  | 37         | 0.09        | 35.25    | 28.2  | 8.26 | 6.46  | 0.17        |
| T5-100m               | 11/20/19 | 1122   | 1.9  | High    | 0.12                          | 3.8        | 0.21                                                        | 3.0        | 0.38                                           | 5.3        | 1.1  | 30        | 0.42 | 12.9        | 2.9  | 40         | 0.09        | 35.16    | 27.5  | 8.21 | 6.76  | 0.12        |
| T5-100m               | 1/23/20  | 1035   | 0.3  | Low     | 0.09                          | 2.7        | 0.16                                                        | 2.3        | 0.09                                           | 1.3        | 0.0  | 0         | 0.41 | 12.7        | 2.4  | 34         | 0.08        | 34.98    | 25.0  | 8.21 | 6.69  | 0.11        |
| T5-100m               | 6/25/20  | 955    | 0.4  | Ebb     | 0.03                          | 0.8        | 0.16                                                        | 2.3        | 0.25                                           | 3.5        | 0.4  | 12        | 0.28 | 8.7         | 2.1  | 30         | 0.06        | 35.53    | 26.3  | 8.18 | 6.57  | 0.20        |
| <b>Geomear FY '20</b> |          |        |      |         | 0.06                          | <b>1.8</b> | 0.17                                                        | <b>2.4</b> | 0.26                                           | <b>3.6</b> |      |           | 0.34 | <b>10.7</b> | 2.5  | <b>35</b>  | <b>0.08</b> |          |       |      |       | <b>0.15</b> |
| T5-500m               | 8/15/19  | 1024   | 0.2  | Flood   | 0.01                          | 0.4        | 0.16                                                        | 2.3        | 0.16                                           | 2.2        | 1.3  | 38        | 0.30 | 9.2         | 1.98 | 28         | 0.09        | 35.32    | 28.5  | 8.28 | 6.60  | 0.14        |
| T5-500m               | 11/20/19 | 1134   | 1.9  | High    | 0.09                          | 2.9        | 0.04                                                        | 0.5        | 0.22                                           | 3.1        | 0.0  | 1         | 0.36 | 11.3        | 1.89 | 27         | 0.06        | 35.20    | 27.6  | 8.20 | 6.56  | 0.12        |
| T5-500m               | 1/23/20  | 1045   | 0.0  | Low     | 0.08                          | 2.5        | 0.16                                                        | 2.3        | 0.09                                           | 1.3        | 0.3  | 8         | 0.38 | 11.8        | 4.13 | 58         | 0.05        | 34.98    | 25.0  | 8.22 | 6.68  | 0.11        |
| T5-500m               | 6/25/20  | 1003   | 0.4  | Ebb     | 0.05                          | 1.5        | 0.16                                                        | 2.3        | 0.36                                           | 5.0        | 0.3  | 9         | 0.24 | 7.3         | 2.42 | 34         | 0.05        | 35.54    | 26.5  | 8.19 | 6.54  | 0.12        |
| <b>Geomear FY '20</b> |          |        |      |         | 0.05                          | <b>1.4</b> | 0.11                                                        | <b>1.5</b> | 0.18                                           | <b>2.6</b> |      |           | 0.31 | <b>9.7</b>  | 2.5  | <b>35</b>  | <b>0.06</b> |          |       |      |       | <b>0.12</b> |

# NELHA Water Quality Laboratory

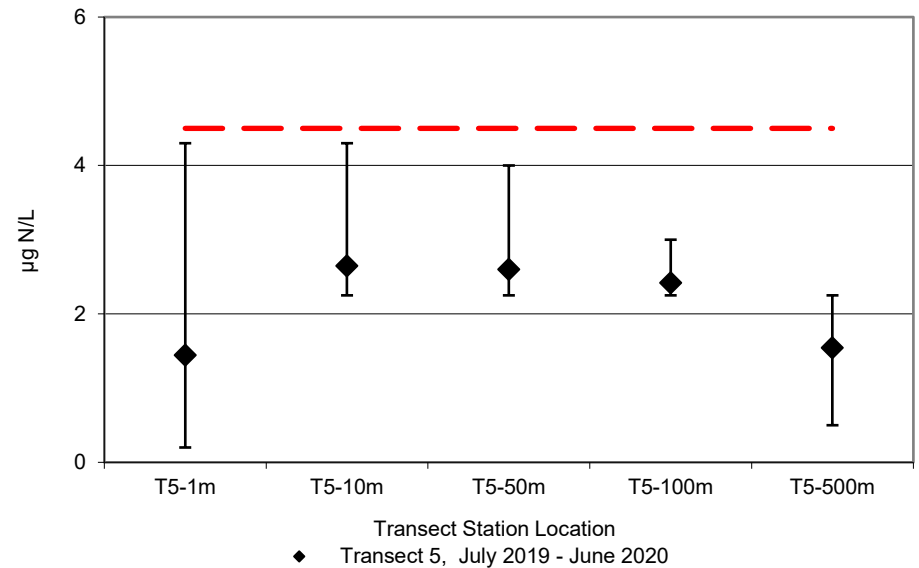
## Transect 5

Julv 2018 - June 2019

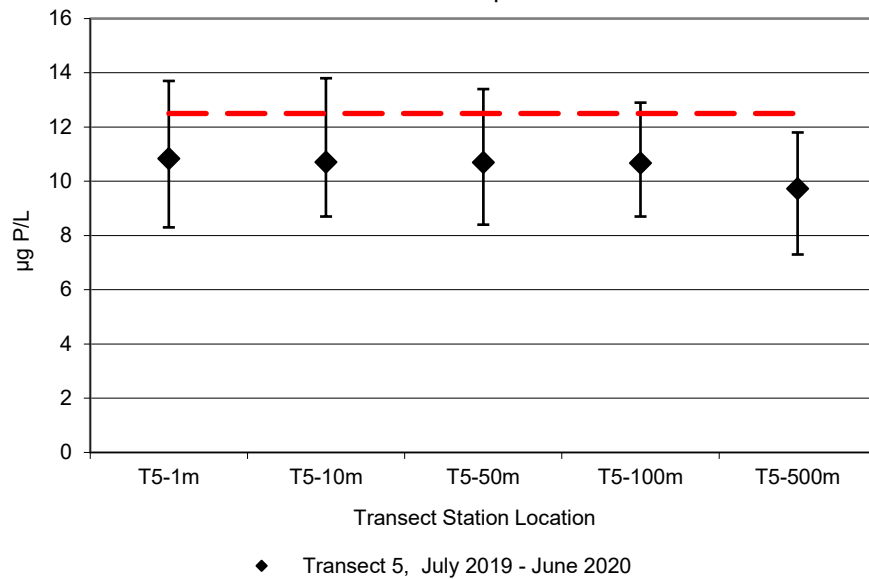
Transect 5 Station Summary  
Ortho-Phosphate Geometric Mean



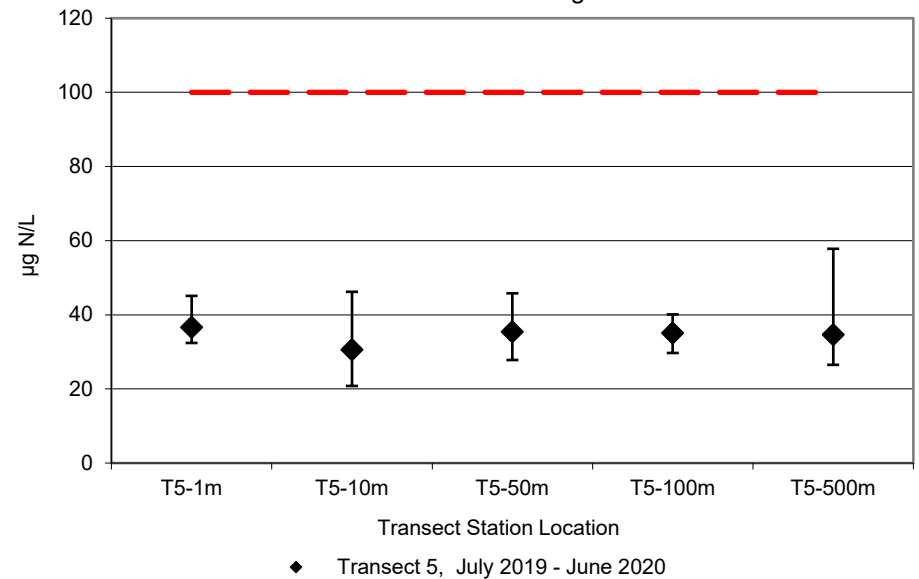
Transect 5 Station Summary  
Nitrate + Nitrite Geometric Mean



Transect 5 Station Summary  
Total Dissolved Phosphorous Geometric Mean



Transect 5 Station Summary  
Total Dissolved Nitrogen Geometric Mean

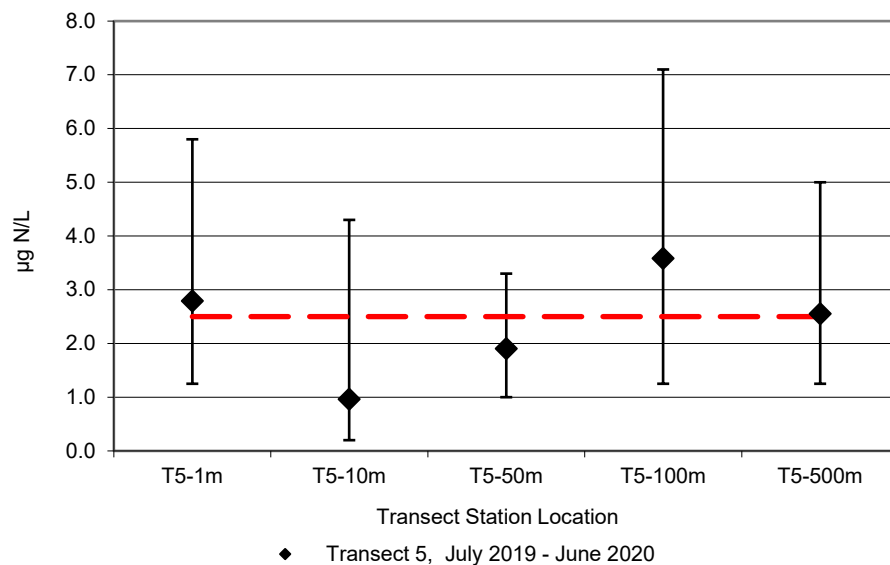


# NELHA Water Quality Laboratory

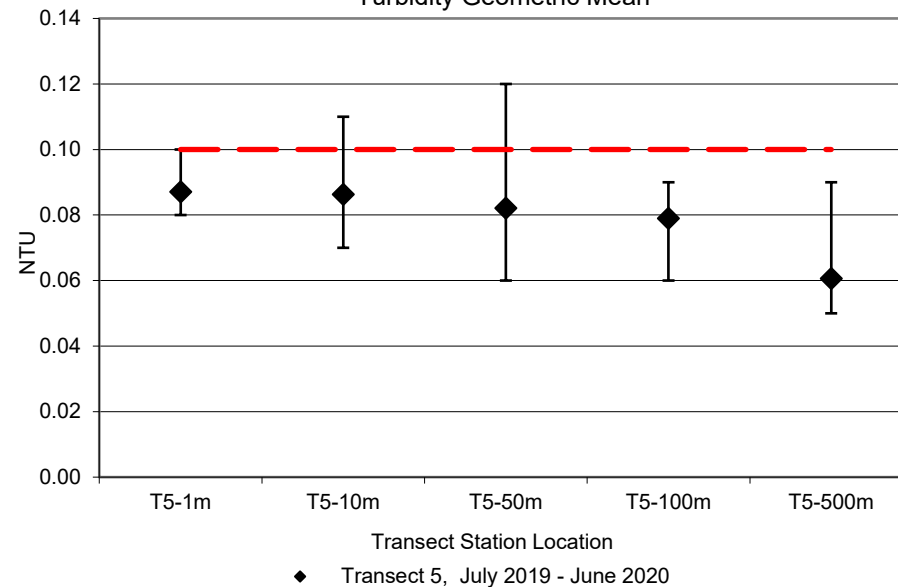
## Transect 5

July 2018 - June 2019

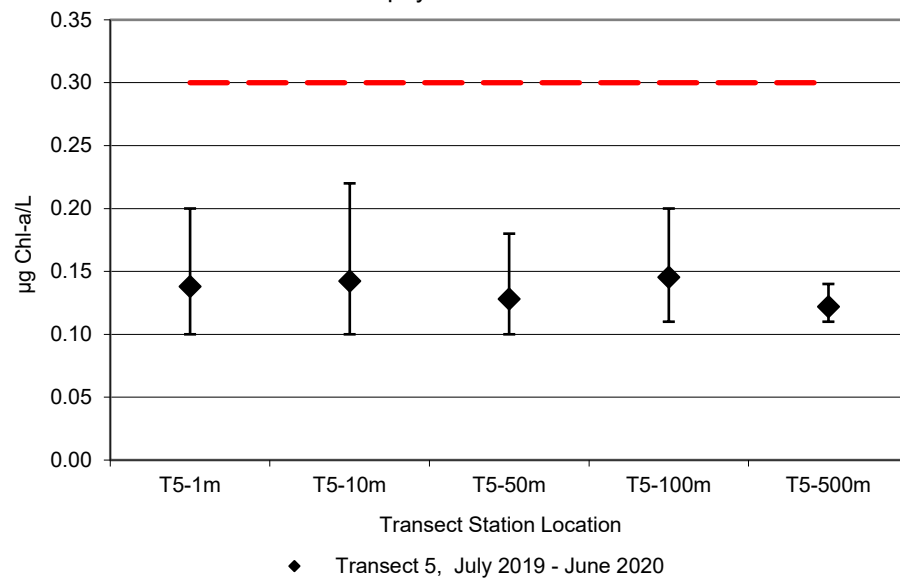
Transect 5 Station Summary  
Total Ammonia Geometric Mean



Transect 5 Station Summary  
Turbidity Geometric Mean



Transect 5 Station Summary  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2018 - June 2019

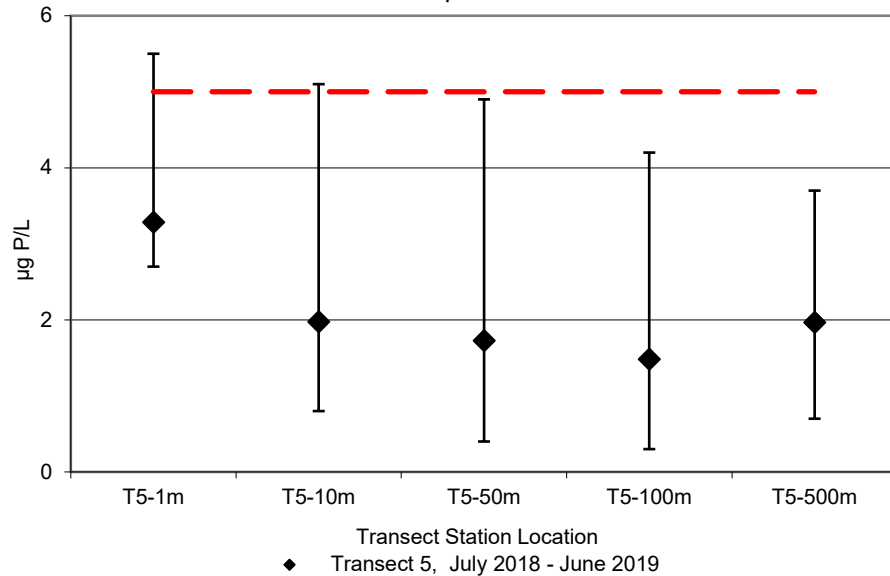
| SITE ID               | DATE    | TIME   | Tide |         | PO <sub>4</sub> <sup>3-</sup> |          | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup> |          | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub> |          | Si   |           | TDP  |          | TDN  |          | Turbidity | Salinity | Temp. | pH   | DO    | Chl a  |
|-----------------------|---------|--------|------|---------|-------------------------------|----------|-------------------------------------------------------------|----------|------------------------------------------------|----------|------|-----------|------|----------|------|----------|-----------|----------|-------|------|-------|--------|
|                       | M/D/Y   | (2400) | (ft) | (cycle) | (μM)                          | (μg P/L) | (μM)                                                        | (μg N/L) | (μM)                                           | (μg N/L) | (μM) | (μg Si/L) | (μM) | (μg P/L) | (μM) | (μg N/L) | (NTU)     | (o/oo)   | (°C)  |      | (ppm) | (μg/L) |
| <b>DOH LIMIT</b>      |         |        |      |         | 0.16                          | 5        | 0.32                                                        | 4.5      | 0.18                                           | 2.5      |      |           | 0.40 | 12.5     | 7.1  | 100      | 0.10      |          |       |      |       | 0.3    |
| T5-1m                 | 9/26/18 | 1243   | 0.7  | Flood   | 0.09                          | 2.7      | 0.16                                                        | 2.3      | 0.14                                           | 1.9      | 0.9  | 26        | 0.29 | 8.9      | 1.7  | 23       | 0.09      | 34.73    | 27.6  | 8.17 | 4.88  | 0.15   |
| T5-1m                 | #####   | 1051   | 1.6  | Ebb     | 0.09                          | 2.7      | 0.40                                                        | 5.6      | 0.26                                           | 3.7      | 0.4  | 11        | 0.33 | 10.3     | 3.2  | 44       | 0.08      | 34.90    | 27.3  | 8.21 | 6.20  | 0.16   |
| T5-1m                 | 1/23/19 | 1038   | 0.5  | Ebb     | 0.09                          | 2.9      | 0.18                                                        | 2.5      | 0.15                                           | 2.1      | 1.8  | 51        | 0.37 | 11.4     | 2.6  | 37       | 0.07      | 34.88    | 24.9  | 8.19 | 5.23  | 0.21   |
| T5-1m                 | 4/17/19 | 1028   | 0.5  | Flood   | 0.18                          | 5.5      | 0.56                                                        | 7.9      | 0.23                                           | 3.2      | 4.1  | 115       | 0.42 | 13.1     | 3.2  | 45       | 0.05      | 34.65    | 25.7  | 8.12 | 7.21  | 0.13   |
| <b>Geomear FY '19</b> |         |        |      |         | 0.11                          | 3.3      | 0.28                                                        | 4.0      | 0.2                                            | 2.6      |      |           | 0.3  | 10.8     | 2.6  | 36       | 0.07      |          |       |      |       | 0.16   |
| T5-10m                | 9/26/18 | 1251   | 0.7  | Flood   | 0.03                          | 0.8      | 0.16                                                        | 2.3      | 0.10                                           | 1.4      | 0.1  | 4         | 0.27 | 8.5      | 1.6  | 23       | 0.09      | 34.74    | 27.6  | 8.16 | 4.82  | 0.13   |
| T5-10m                | #####   | 1056   | 1.6  | Ebb     | 0.04                          | 1.2      | 0.33                                                        | 4.6      | 0.21                                           | 2.9      | 0.1  | 4         | 0.30 | 9.3      | 2.6  | 37       | 0.08      | 34.90    | 27.3  | 8.20 | 6.25  | 0.15   |
| T5-10m                | 1/23/19 | 1043   | 0.5  | Ebb     | 0.10                          | 3.1      | 0.15                                                        | 2.1      | 0.23                                           | 3.2      | 2.1  | 59        | 0.36 | 11.2     | 2.0  | 28       | 0.09      | 34.89    | 24.9  | 8.20 | 5.23  | 0.24   |
| T5-10m                | 4/17/19 | 1033   | 0.5  | Flood   | 0.16                          | 5.1      | 0.51                                                        | 7.2      | 0.31                                           | 4.4      | 4.2  | 117       | 0.38 | 11.7     | 2.6  | 36       | 0.08      | 34.69    | 25.7  | 8.12 | 7.03  | 0.14   |
| <b>Geomear FY '19</b> |         |        |      |         | 0.06                          | 2.0      | 0.25                                                        | 3.5      | 0.20                                           | 2.7      |      |           | 0.33 | 10.1     | 2.2  | 30       | 0.08      |          |       |      |       | 0.16   |
| T5-50m                | 9/26/18 | 1257   | 0.7  | Flood   | 0.01                          | 0.4      | 0.16                                                        | 2.3      | 0.09                                           | 1.3      | 0.2  | 6         | 0.30 | 9.2      | 1.4  | 20       | 0.1       | 34.74    | 27.6  | 8.16 | 4.79  | 0.13   |
| T5-50m                | #####   | 1102   | 1.6  | Ebb     | 0.06                          | 1.8      | 0.21                                                        | 3.0      | 0.14                                           | 2.0      | 0.1  | 3         | 0.34 | 10.5     | 4.4  | 62       | 0.09      | 34.90    | 27.3  | 8.20 | 6.07  | 0.13   |
| T5-50m                | 1/23/19 | 1048   | 0.5  | Ebb     | 0.08                          | 2.5      | 0.16                                                        | 2.3      | 0.09                                           | 1.2      | 1.0  | 27        | 0.35 | 10.9     | 2.9  | 41       | 0.07      | 34.94    | 24.9  | 8.19 | 4.99  | 0.22   |
| T5-50m                | 4/17/19 | 1039   | 0.5  | Flood   | 0.16                          | 4.9      | 0.33                                                        | 4.6      | 0.17                                           | 2.4      | 9.2  | 257       | 0.41 | 12.7     | 2.9  | 41       | 0.06      | 34.72    | 25.7  | 8.12 | 7.01  | 0.12   |
| <b>Geomear FY '19</b> |         |        |      |         | 0.06                          | 1.7      | 0.21                                                        | 2.9      | 0.12                                           | 1.6      |      |           | 0.35 | 10.8     | 2.7  | 38       | 0.08      |          |       |      |       | 0.15   |
| T5-100m               | 9/26/18 | 1302   | 0.7  | Flood   | 0.01                          | 0.3      | 0.16                                                        | 2.3      | 0.34                                           | 4.7      | 0.3  | 8         | 0.32 | 9.9      | 2.4  | 34       | 0.09      | 34.73    | 27.6  | 8.16 | 4.75  | 0.11   |
| T5-100m               | #####   | 1107   | 1.6  | Ebb     | 0.05                          | 1.6      | 0.11                                                        | 1.6      | 0.39                                           | 5.5      | 0.0  | 1         | 0.34 | 10.4     | 3.3  | 46       | 0.07      | 34.90    | 27.3  | 8.20 | 6.01  | 0.16   |
| T5-100m               | 1/23/19 | 1053   | 0.5  | Ebb     | 0.08                          | 2.4      | 0.16                                                        | 2.3      | 0.09                                           | 1.2      | 1.2  | 34        | 0.35 | 10.9     | 2.1  | 29       | 0.06      | 34.94    | 24.9  | 8.19 | 4.99  | 0.23   |
| T5-100m               | 4/17/19 | 1045   | 0.5  | Flood   | 0.14                          | 4.2      | 0.24                                                        | 3.3      | 0.23                                           | 3.2      | 0.9  | 25        | 0.38 | 11.8     | 2.4  | 34       | 0.04      | 34.74    | 25.7  | 8.12 | 6.87  | 0.10   |
| <b>Geomear FY '19</b> |         |        |      |         | 0.05                          | 1.5      | 0.16                                                        | 2.3      | 0.23                                           | 3.2      |      |           | 0.35 | 10.7     | 2.5  | 35       | 0.06      |          |       |      |       | 0.14   |
| T5-500m               | 9/26/18 | 1309   | 0.7  | Flood   | 0.08                          | 2.5      | 0.16                                                        | 2.3      | 0.26                                           | 3.6      | 0.0  | 1         | 0.32 | 9.8      | 2.01 | 28       | 0.09      | 34.75    | 27.7  | 8.15 | 4.54  | 0.10   |
| T5-500m               | #####   | 1116   | 1.6  | Ebb     | 0.02                          | 0.7      | 0.06                                                        | 0.9      | 0.34                                           | 4.8      | 0.0  | 1         | 0.38 | 11.7     | 3.58 | 50       | 0.07      | 34.91    | 27.4  | 8.20 | 6.08  | 0.12   |
| T5-500m               | 1/23/19 | 1100   | 0.5  | Ebb     | 0.07                          | 2.3      | 0.16                                                        | 2.3      | 0.16                                           | 2.2      | 0.5  | 14        | 0.36 | 11.3     | 2.06 | 29       | 0.06      | 34.95    | 25.0  | 8.19 | 4.96  | 0.13   |
| T5-500m               | 4/17/19 | 1054   | 0.5  | Flood   | 0.12                          | 3.7      | 0.14                                                        | 1.9      | 0.15                                           | 2.1      | 1.0  | 27        | 0.38 | 11.8     | 2.92 | 41       | 0.05      | 34.73    | 25.7  | 8.12 | 6.85  | 0.09   |
| <b>Geomear FY '19</b> |         |        |      |         | 0.06                          | 2.0      | 0.12                                                        | 1.7      | 0.21                                           | 3.0      |      |           | 0.36 | 11.1     | 2.6  | 36       | 0.07      |          |       |      |       | 0.11   |

# NELHA Water Quality Laboratory

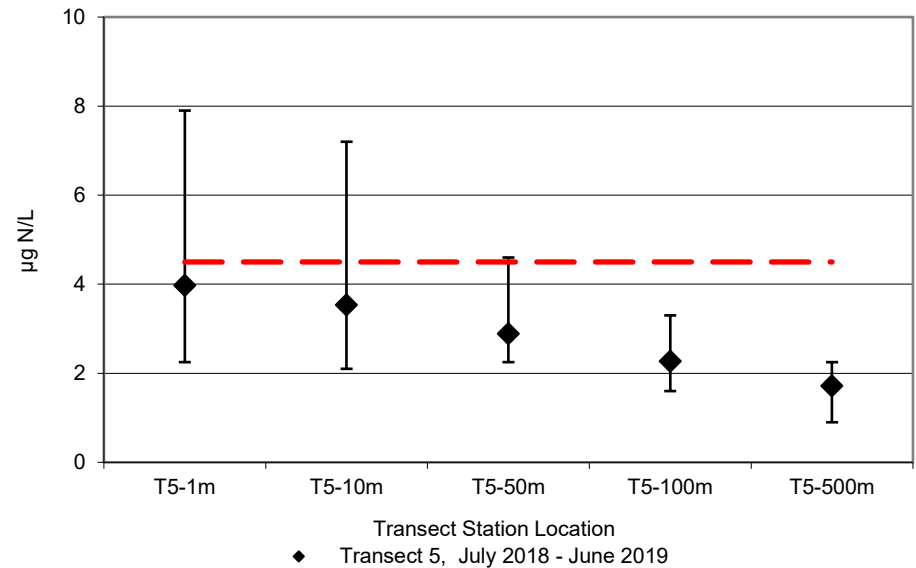
## Transect 5

Julv 2018 - June 2019

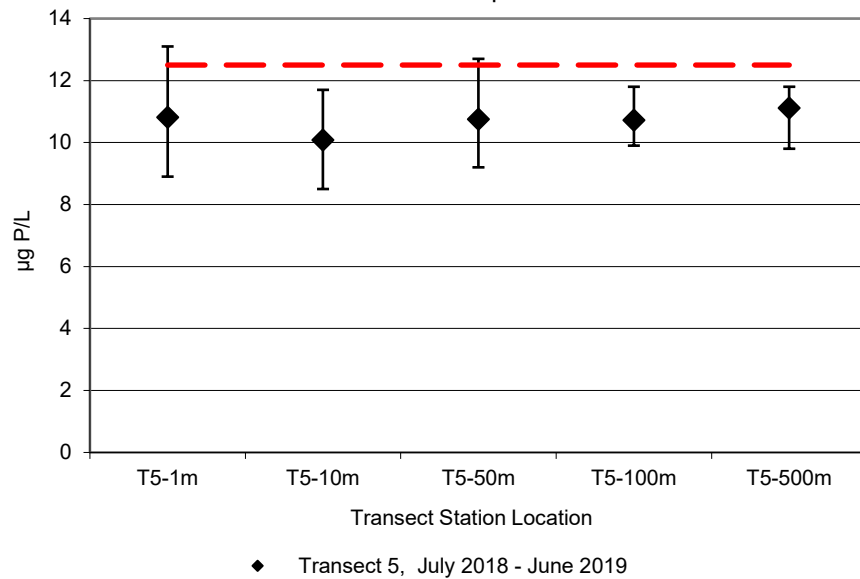
Transect 5 Station Summary  
Ortho-Phosphate Geometric Mean



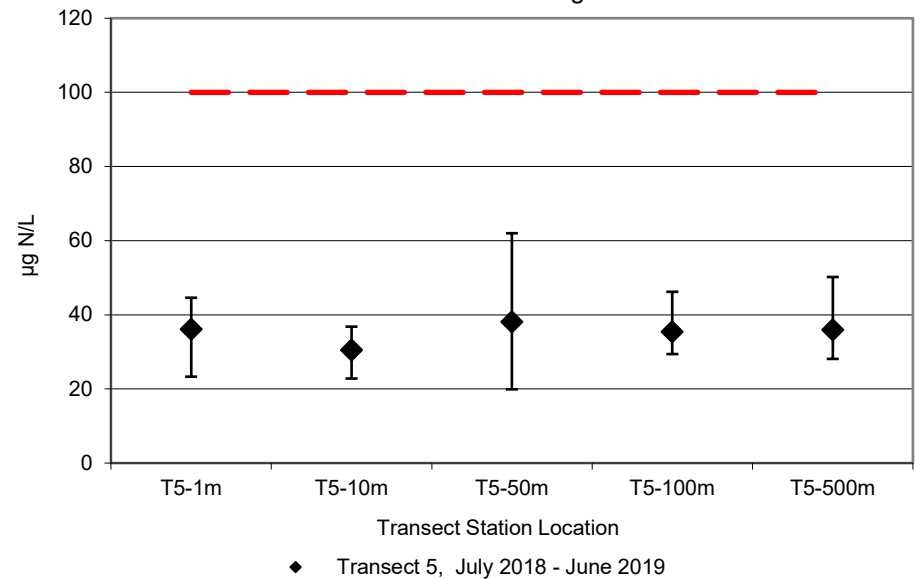
Transect 5 Station Summary  
Nitrate + Nitrite Geometric Mean



Transect 5 Station Summary  
Total Dissolved Phosphorous Geometric Mean



Transect 5 Station Summary  
Total Dissolved Nitrogen Geometric Mean

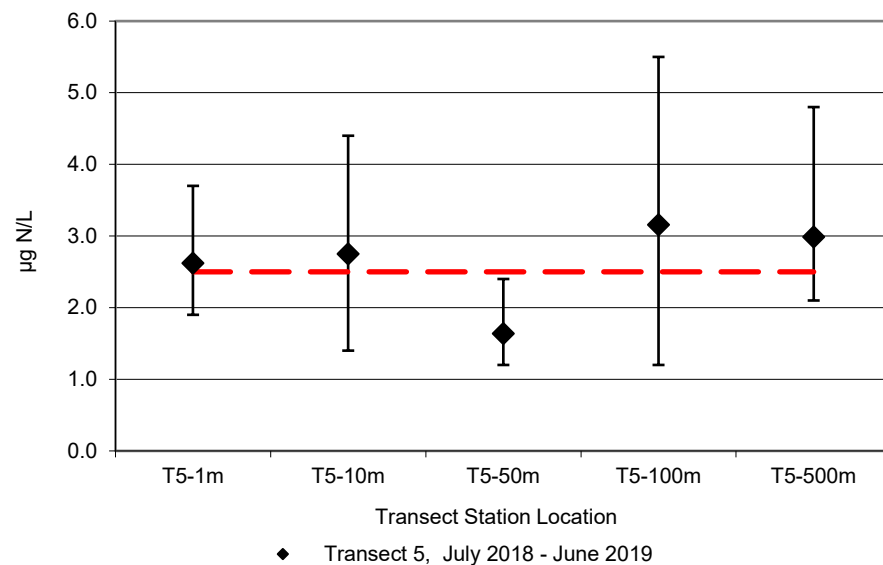


# NELHA Water Quality Laboratory

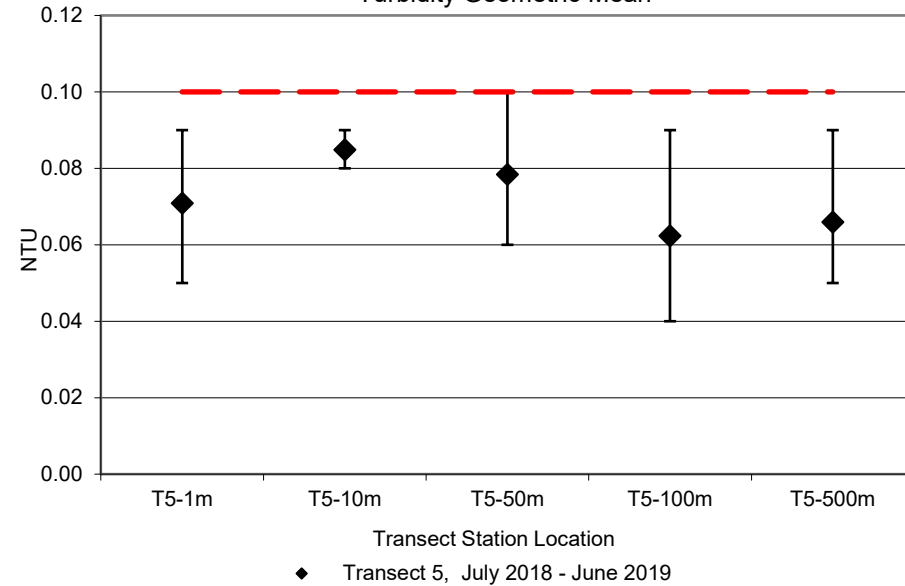
## Transect 5

July 2018 - June 2019

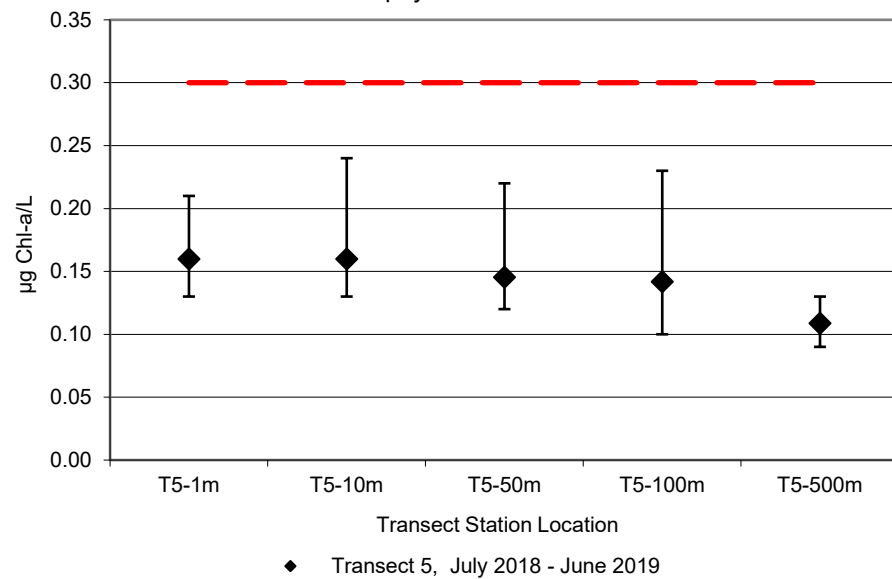
Transect 5 Station Summary  
Total Ammonia Geometric Mean



Transect 5 Station Summary  
Turbidity Geometric Mean



Transect 5 Station Summary  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2017 - June 2018

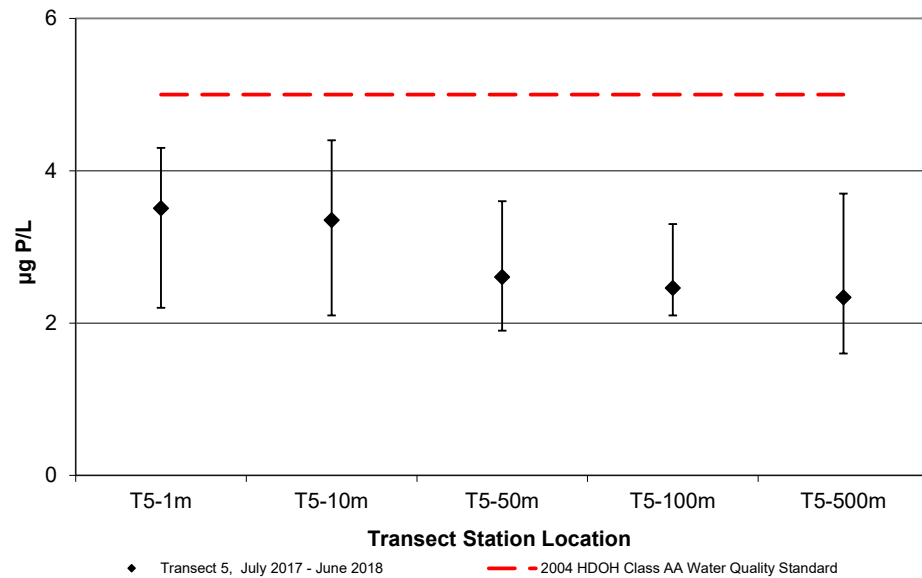
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |       | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |      | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |     | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|-------|------------------------------------------------|-----|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |       | 0.16                                           | 5   | 0.32                                                                         | 4.5  | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 9/28/17       | 1000           | 1.6                  | High  | 0.14                                           | 4.3 | 0.25                                                                         | 3.5  | 0.27                                                            | 3.8 | 0.8                  | 23  | 0.42                 | 13.1 | 4.1                  | 57  | 0.10               | 34.82              | 27.8          | 8.19 | 4.94        | 0.15            |
| T5-1m     | 11/30/17      | 947            | 0.9                  | Flood | 0.13                                           | 4.1 | 0.81                                                                         | 11.3 | 0.39                                                            | 5.5 | 4.6                  | 129 | 0.40                 | 12.4 | 5.0                  | 70  | 0.09               | 35.09              | 26.3          | 8.23 | 5.79        | 0.15            |
| T5-1m     | 2/6/18        | 1029           | 1.1                  | Ebb   | 0.07                                           | 2.2 | 0.01                                                                         | 0.2  | 0.39                                                            | 5.5 | 1.2                  | 34  | 0.31                 | 9.7  | 4.4                  | 62  | 0.10               | 34.84              | 24.9          | 8.16 | 5.79        | 0.11            |
| T5-1m     | 5/17/18       | 1001           | -0.4                 | Low   | 0.13                                           | 3.9 | 0.55                                                                         | 7.7  | 0.31                                                            | 4.3 | 5.0                  | 141 | 0.38                 | 11.9 | 2.2                  | 31  | 0.04               | 34.70              | 25.9          | 8.17 | 6.69        | 0.13            |
| Geomean   | '17-'18       |                |                      |       | 0.11                                           | 3.5 | 0.20                                                                         | 2.8  | 0.3                                                             | 4.7 |                      |     | 0.4                  | 11.7 | 3.8                  | 53  | 0.08               |                    |               |      |             | 0.13            |
|           |               |                |                      |       |                                                |     |                                                                              |      |                                                                 |     |                      |     |                      |      |                      |     |                    |                    |               |      |             |                 |
| T5-10m    | 9/28/17       | 1004           | 1.6                  | High  | 0.14                                           | 4.4 | 0.25                                                                         | 3.5  | 0.24                                                            | 3.3 | 0.7                  | 19  | 0.39                 | 12.2 | 2.1                  | 29  | 0.07               | 34.82              | 27.8          | 8.19 | 4.86        | 0.15            |
| T5-10m    | 11/30/17      | 951            | 0.9                  | Flood | 0.10                                           | 3.1 | 0.39                                                                         | 5.4  | 0.49                                                            | 6.9 | 2.5                  | 70  | 0.36                 | 11.2 | 3.5                  | 48  | 0.10               | 35.14              | 26.3          | 8.23 | 5.76        | 0.17            |
| T5-10m    | 2/6/18        | 1033           | 1.1                  | Ebb   | 0.07                                           | 2.1 | 0.02                                                                         | 0.3  | 0.45                                                            | 6.3 | 1.2                  | 33  | 0.33                 | 10.1 | 2.1                  | 29  | 0.10               | 34.84              | 24.9          | 8.16 | 5.84        | 0.07            |
| T5-10m    | 5/17/18       | 1005           | -0.4                 | Low   | 0.14                                           | 4.4 | 0.64                                                                         | 8.9  | 0.40                                                            | 5.6 | 5.3                  | 150 | 0.38                 | 11.8 | 2.4                  | 34  | 0.09               | 34.73              | 25.9          | 8.17 | 6.75        | 0.10            |
| Geomean   | '17-'18       |                |                      |       | 0.11                                           | 3.4 | 0.19                                                                         | 2.7  | 0.38                                                            | 5.3 |                      |     | 0.36                 | 11.3 | 2.5                  | 34  | 0.09               |                    |               |      |             | 0.12            |
|           |               |                |                      |       |                                                |     |                                                                              |      |                                                                 |     |                      |     |                      |      |                      |     |                    |                    |               |      |             |                 |
| T5-50m    | 9/28/17       | 1010           | 1.6                  | High  | 0.12                                           | 3.6 | 0.11                                                                         | 1.5  | 0.06                                                            | 0.8 | 0.5                  | 14  | 0.39                 | 12.2 | 2.4                  | 33  | 0.07               | 34.84              | 27.8          | 8.19 | 4.69        | 0.13            |
| T5-50m    | 11/30/17      | 956            | 0.9                  | Flood | 0.09                                           | 2.8 | 0.18                                                                         | 2.5  | 0.34                                                            | 4.8 | 1.4                  | 38  | 0.37                 | 11.4 | 5.0                  | 70  | 0.05               | 35.22              | 26.4          | 8.23 | 5.63        | 0.17            |
| T5-50m    | 2/6/18        | 1038           | 1.1                  | Ebb   | 0.06                                           | 1.9 | 0.02                                                                         | 0.3  | 0.29                                                            | 4.1 | 1.0                  | 29  | 0.33                 | 10.1 | 2.5                  | 35  | 0.08               | 34.85              | 24.9          | 8.16 | 5.78        | 0.07            |
| T5-50m    | 5/17/18       | 1010           | -0.4                 | Low   | 0.08                                           | 2.4 | 0.08                                                                         | 1.1  | 0.20                                                            | 2.8 | 2.3                  | 65  | 0.38                 | 11.8 | 1.8                  | 26  | 0.05               | 34.81              | 26.1          | 8.17 | 6.50        | 0.09            |
| Geomean   | '17-'18       |                |                      |       | 0.08                                           | 2.6 | 0.08                                                                         | 1.1  | 0.18                                                            | 2.6 |                      |     | 0.37                 | 11.3 | 2.7                  | 38  | 0.06               |                    |               |      |             | 0.11            |
|           |               |                |                      |       |                                                |     |                                                                              |      |                                                                 |     |                      |     |                      |      |                      |     |                    |                    |               |      |             |                 |
| T5-100m   | 9/28/17       | 1014           | 1.6                  | High  | 0.11                                           | 3.3 | 0.06                                                                         | 0.8  | 0.11                                                            | 1.5 | 0.5                  | 14  | 0.39                 | 12.0 | 3.0                  | 41  | 0.06               | 34.84              | 27.8          | 8.18 | 4.71        | 0.12            |
| T5-100m   | 11/30/17      | 1001           | 0.9                  | Flood | 0.07                                           | 2.1 | 0.11                                                                         | 1.6  | 0.33                                                            | 4.6 | 1.2                  | 33  | 0.35                 | 10.9 | 3.2                  | 45  | 0.06               | 35.23              | 26.6          | 8.24 | 5.65        | 0.13            |
| T5-100m   | 2/6/18        | 1044           | 1.1                  | Ebb   | 0.07                                           | 2.3 | 0.04                                                                         | 0.6  | 0.42                                                            | 5.9 | 1.0                  | 29  | 0.32                 | 9.9  | 1.9                  | 26  | 0.08               | 34.86              | 24.9          | 8.16 | 5.74        | 0.07            |
| T5-100m   | 5/17/18       | 1016           | -0.4                 | Low   | 0.07                                           | 2.3 | 0.09                                                                         | 1.2  | 0.16                                                            | 2.2 | 1.1                  | 30  | 0.36                 | 11.2 | 1.6                  | 23  | 0.05               | 34.89              | 26.3          | 8.17 | 6.26        | 0.05            |
| Geomean   | '17-'18       |                |                      |       | 0.08                                           | 2.5 | 0.07                                                                         | 1.0  | 0.22                                                            | 3.1 |                      |     | 0.35                 | 11.0 | 2.3                  | 32  | 0.06               |                    |               |      |             | 0.09            |
|           |               |                |                      |       |                                                |     |                                                                              |      |                                                                 |     |                      |     |                      |      |                      |     |                    |                    |               |      |             |                 |
| T5-500m   | 9/28/17       | 1021           | 1.6                  | High  | 0.12                                           | 3.7 | 0.06                                                                         | 0.9  | 0.11                                                            | 1.5 | 0.5                  | 14  | 0.37                 | 11.5 | 2.98                 | 42  | 0.06               | 34.85              | 28.0          | 8.18 | 4.72        | 0.11            |
| T5-500m   | 11/30/17      | 1007           | 0.9                  | Flood | 0.08                                           | 2.4 | 0.12                                                                         | 1.7  | 0.30                                                            | 4.2 | 1.1                  | 32  | 0.35                 | 10.9 | 3.51                 | 49  | 0.09               | 35.23              | 26.6          | 8.24 | 5.58        | 0.14            |
| T5-500m   | 2/6/18        | 1052           | 1.1                  | Ebb   | 0.05                                           | 1.6 | 0.12                                                                         | 1.7  | 0.39                                                            | 5.4 | 0.6                  | 17  | 0.32                 | 9.8  | 1.56                 | 22  | 0.09               | 34.86              | 25.0          | 8.16 | 5.72        | 0.09            |
| T5-500m   | 5/17/18       | 1034           | -0.4                 | Low   | 0.07                                           | 2.1 | 0.14                                                                         | 2.0  | 0.10                                                            | 1.4 | 1.0                  | 27  | 0.35                 | 10.9 | 1.51                 | 21  | 0.09               | 34.50              | 26.0          | 8.16 | 6.53        | 0.09            |
| Geomean   | '17-'18       |                |                      |       | 0.08                                           | 2.3 | 0.11                                                                         | 1.5  | 0.19                                                            | 2.6 |                      |     | 0.35                 | 10.8 | 2.2                  | 31  | 0.08               |                    |               |      |             | 0.11            |

# NELHA Water Quality Laboratory

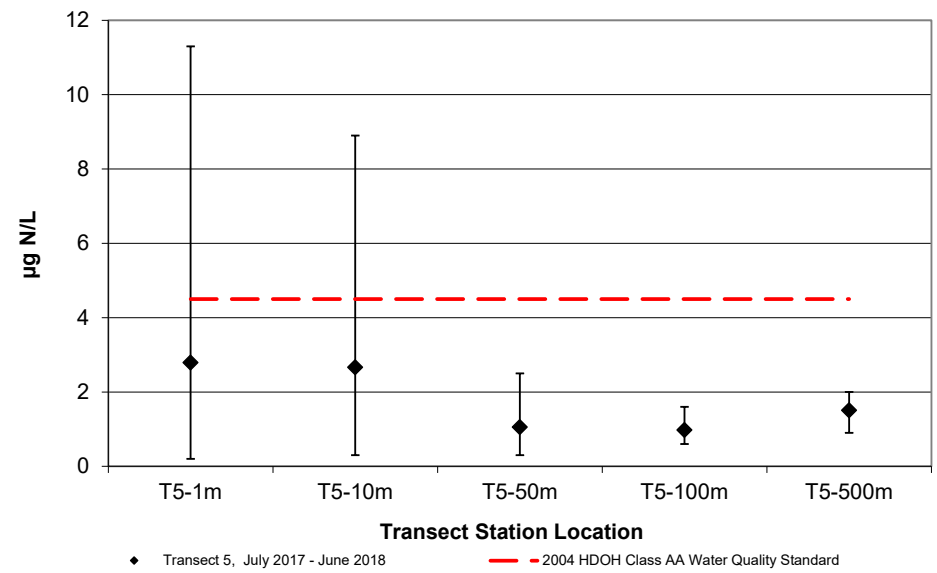
## Transect 5

July 2017 - June 2018

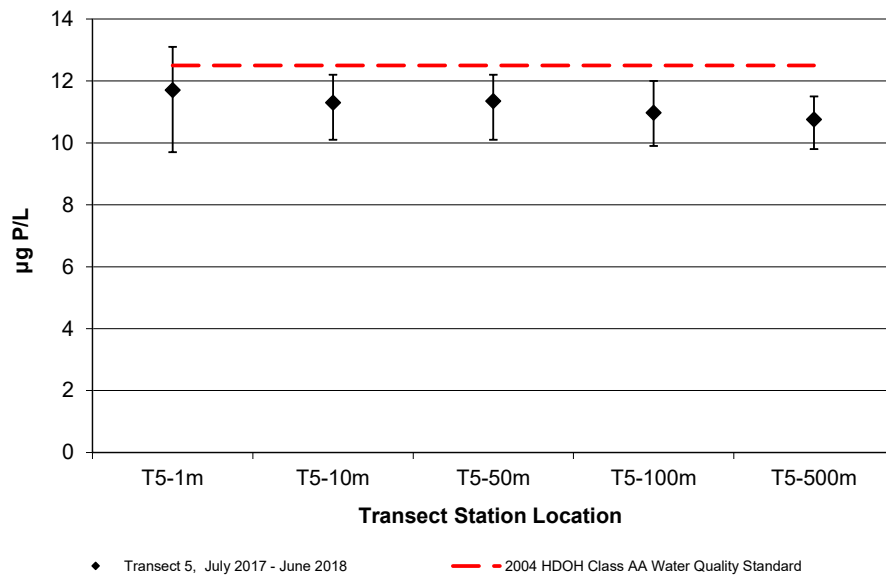
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



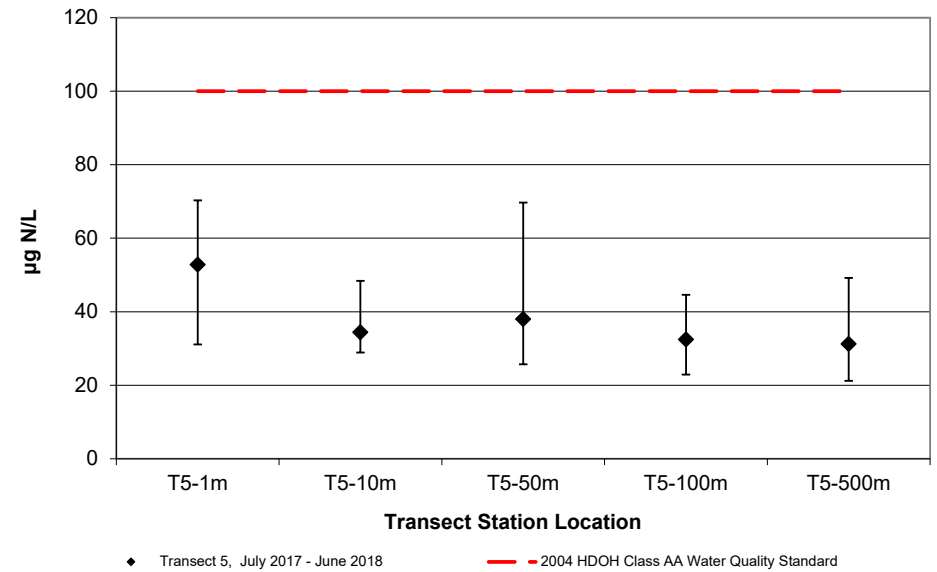
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean

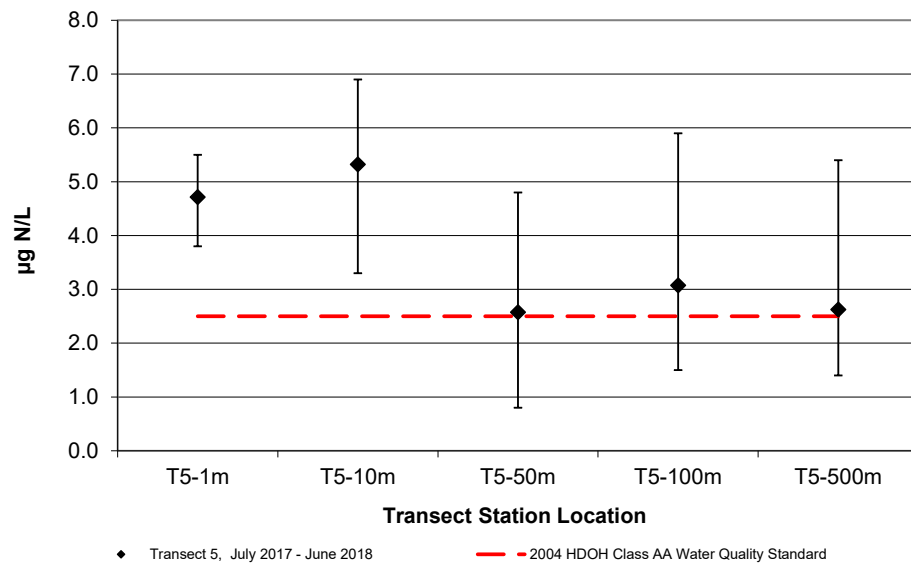


# NELHA Water Quality Laboratory

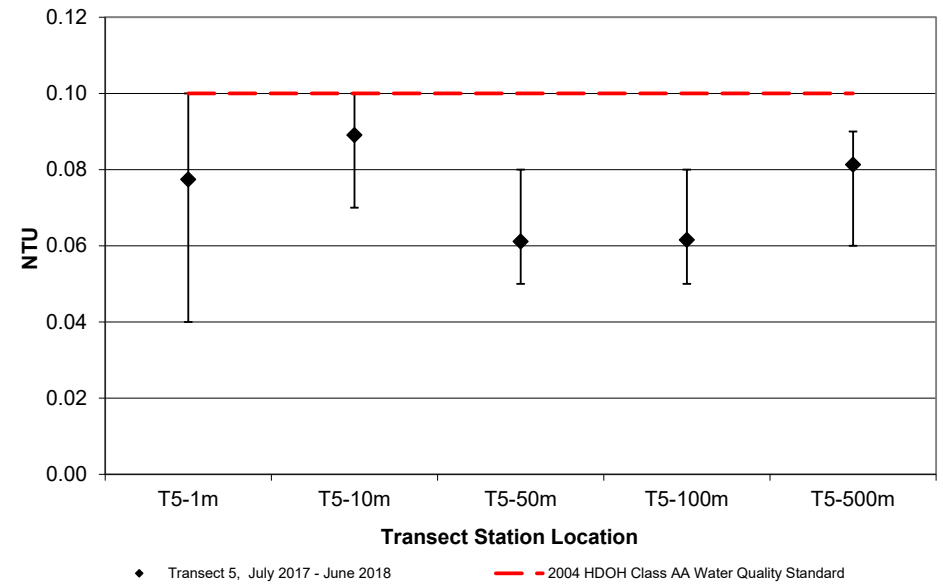
Transect 5

July 2017 - June 2018

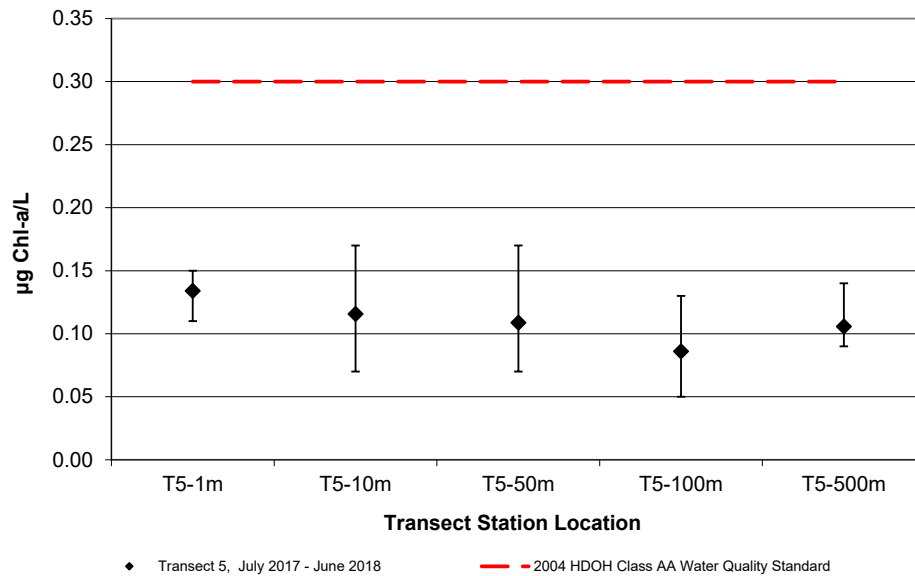
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2016 - June 2017

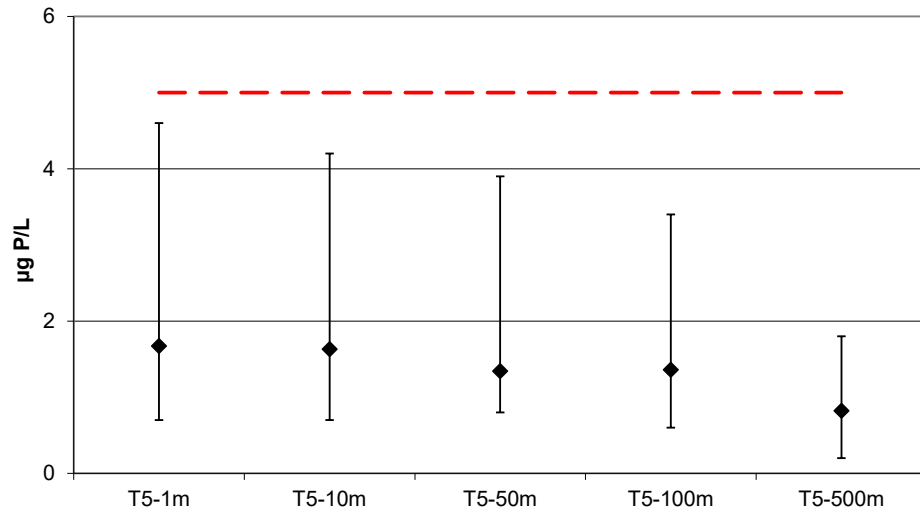
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |      | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |    | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|------------------------------------------------|-----|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|-----|----------------------|----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      | 0.16                                           | 5   | 0.32                                                                         | 4.5  | 0.18                                                            | 2.5 |                      |    | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 7/7/16        | 1006           | 0.0 Low              | 0.15                                           | 4.6 | 0.21                                                                         | 2.9  | 0.46                                                            | 6.4 | 2.9                  | 81 | 0.51                 | 15.9 | 3.6                  | 50  | 0.09               | 34.58              | 26.8          | 8.32 | 6.80        | 0.18            |
| T5-1m     | 12/21/16      | 1016           | 1.5 High             | 0.07                                           | 2.2 | 0.35                                                                         | 4.9  | 0.46                                                            | 6.5 | 1.9                  | 52 | 0.34                 | 10.5 | 3.5                  | 50  | 0.06               | 34.59              | 25.5          | 8.28 | 6.98        | 0.20            |
| T5-1m     | 3/1/17        | 1137           | -0.1 Low             | 0.04                                           | 1.1 | 0.59                                                                         | 8.2  | 0.08                                                            | 1.1 | 2.3                  | 66 | 0.30                 | 9.4  | 4.0                  | 57  | 0.10               | 34.70              | 24.6          | 8.24 | 5.98        | 0.17            |
| T5-1m     | 5/10/17       | 1104           | 0.2 Flood            | 0.02                                           | 0.7 | 0.36                                                                         | 5.1  | 0.09                                                            | 1.2 | 2.2                  | 62 | 0.23                 | 7.1  | 3.7                  | 52  | 0.08               | 34.75              | 25.8          | 8.23 | 4.33        | 0.10            |
| Geomean   | '16-'17       |                |                      | 0.05                                           | 1.7 | 0.35                                                                         | 4.9  | 0.2                                                             | 2.7 |                      |    | 0.3                  | 10.3 | 3.7                  | 52  | 0.08               |                    |               |      |             | 0.16            |
| T5-10m    | 7/7/16        | 1011           | 0.0 Low              | 0.14                                           | 4.2 | 0.53                                                                         | 7.4  | 0.50                                                            | 7.0 | 2.6                  | 74 | 0.45                 | 13.8 | 4.9                  | 69  | 0.09               | 34.60              | 26.8          | 8.32 | 6.74        | 0.19            |
| T5-10m    | 12/21/16      | 1022           | 1.5 High             | 0.06                                           | 2.0 | 0.30                                                                         | 4.2  | 0.49                                                            | 6.9 | 1.9                  | 53 | 0.33                 | 10.2 | 2.7                  | 38  | 0.05               | 34.62              | 25.5          | 8.29 | 5.98        | 0.18            |
| T5-10m    | 3/1/17        | 1132           | -0.1 Low             | 0.02                                           | 0.7 | 0.41                                                                         | 5.7  | 0.28                                                            | 3.9 | 1.4                  | 40 | 0.30                 | 9.4  | 3.5                  | 49  | 0.07               | 34.74              | 24.6          | 8.24 | 5.84        | 0.14            |
| T5-10m    | 5/10/17       | 1108           | 0.2 Flood            | 0.04                                           | 1.2 | 0.36                                                                         | 5.1  | 0.13                                                            | 1.8 | 2.0                  | 57 | 0.24                 | 7.3  | 2.2                  | 31  | 0.12               | 34.79              | 25.8          | 8.24 | 4.31        | 0.13            |
| Geomean   | '16-'17       |                |                      | 0.05                                           | 1.6 | 0.39                                                                         | 5.5  | 0.31                                                            | 4.3 |                      |    | 0.32                 | 9.9  | 3.2                  | 44  | 0.08               |                    |               |      |             | 0.16            |
| T5-50m    | 7/7/16        | 1016           | 0.0 Low              | 0.13                                           | 3.9 | 0.66                                                                         | 9.2  | 0.32                                                            | 4.5 | 2.1                  | 58 | 0.43                 | 13.3 | 3.7                  | 53  | 0.11               | 34.62              | 26.9          | 8.31 | 6.65        | 0.21            |
| T5-50m    | 12/21/16      | 1029           | 1.5 High             | 0.04                                           | 1.3 | 0.17                                                                         | 2.4  | 0.54                                                            | 7.5 | 1.7                  | 49 | 0.34                 | 10.4 | 4.1                  | 58  | 0.05               | 34.64              | 25.5          | 8.28 | 5.77        | 0.14            |
| T5-50m    | 3/1/17        | 1127           | -0.1 Low             | 0.03                                           | 0.8 | 0.31                                                                         | 4.4  | 0.17                                                            | 2.4 | 1.2                  | 33 | 0.29                 | 9.1  | 4.6                  | 64  | 0.09               | 34.74              | 24.6          | 8.24 | 5.75        | 0.14            |
| T5-50m    | 5/10/17       | 1113           | 0.2 Flood            | 0.03                                           | 0.8 | 0.34                                                                         | 4.8  | 0.28                                                            | 3.9 | 2.1                  | 59 | 0.23                 | 7.0  | 3.2                  | 44  | 0.08               | 34.80              | 25.8          | 8.24 | 4.30        | 0.07            |
| Geomean   | '16-'17       |                |                      | 0.04                                           | 1.3 | 0.33                                                                         | 4.6  | 0.30                                                            | 4.2 |                      |    | 0.31                 | 9.7  | 3.9                  | 54  | 0.08               |                    |               |      |             | 0.13            |
| T5-100m   | 7/7/16        | 1021           | 0.0 Low              | 0.11                                           | 3.4 | 0.64                                                                         | 9.0  | 0.36                                                            | 5.0 | 2.7                  | 75 | 0.42                 | 13.0 | 4.5                  | 63  | 0.09               | 34.60              | 27.0          | 8.31 | 6.62        | 0.19            |
| T5-100m   | 12/21/16      | 1035           | 1.5 High             | 0.04                                           | 1.2 | 0.16                                                                         | 2.2  | 0.38                                                            | 5.3 | 1.6                  | 45 | 0.34                 | 10.4 | 5.4                  | 75  | 0.03               | 34.64              | 25.5          | 8.27 | 5.87        | 0.17            |
| T5-100m   | 3/1/17        | 1122           | -0.1 Low             | 0.02                                           | 0.6 | 0.31                                                                         | 4.4  | 0.17                                                            | 2.4 | 1.4                  | 41 | 0.30                 | 9.4  | 5.2                  | 73  | 0.10               | 34.73              | 24.6          | 8.24 | 5.78        | 0.18            |
| T5-100m   | 5/10/17       | 1118           | 0.2 Flood            | 0.05                                           | 1.4 | 0.19                                                                         | 2.6  | 0.46                                                            | 6.4 | 1.4                  | 38 | 0.24                 | 7.4  | 3.0                  | 42  | 0.08               | 34.83              | 25.8          | 8.22 | 4.12        | 0.10            |
| Geomean   | '16-'17       |                |                      | 0.04                                           | 1.4 | 0.28                                                                         | 3.9  | 0.32                                                            | 4.5 |                      |    | 0.32                 | 9.8  | 4.4                  | 62  | 0.07               |                    |               |      |             | 0.16            |
| T5-500m   | 7/7/16        | 1029           | 0.0 Low              | 0.06                                           | 1.8 | 1.17                                                                         | 16.4 | 0.23                                                            | 3.2 | 0.1                  | 3  | 0.38                 | 11.8 | 1.72                 | 24  | 0.07               | 34.73              | 27.1          | 8.33 | 6.60        | 0.21            |
| T5-500m   | 12/21/16      | 1044           | 1.5 High             | 0.02                                           | 0.7 | 0.08                                                                         | 1.1  | 0.04                                                            | 0.5 | 1.2                  | 33 | 0.34                 | 10.5 | 3.73                 | 52  | 0.03               | 34.72              | 25.6          | 8.28 | 5.88        | 0.12            |
| T5-500m   | 3/1/17        | 1111           | -0.1 Low             | 0.01                                           | 0.2 | 0.04                                                                         | 0.5  | 0.11                                                            | 1.5 | 0.1                  | 4  | 0.28                 | 8.7  | 2.58                 | 36  | 0.08               | 34.79              | 24.6          | 8.25 | 5.83        | 0.18            |
| T5-500m   | 5/10/17       | 1126           | 0.2 Flood            | 0.06                                           | 1.8 | 0.04                                                                         | 0.5  | 0.29                                                            | 4.1 | 0.4                  | 12 | 0.21                 | 6.4  | 2.94                 | 41  | 0.05               | 34.88              | 25.8          | 8.23 | 4.08        | 0.12            |
| Geomean   | '16-'17       |                |                      | 0.03                                           | 0.8 | 0.10                                                                         | 1.5  | 0.13                                                            | 1.8 |                      |    | 0.29                 | 9.1  | 2.6                  | 37  | 0.05               |                    |               |      |             | 0.15            |

# NELHA Water Quality Laboratory

## Transect 5

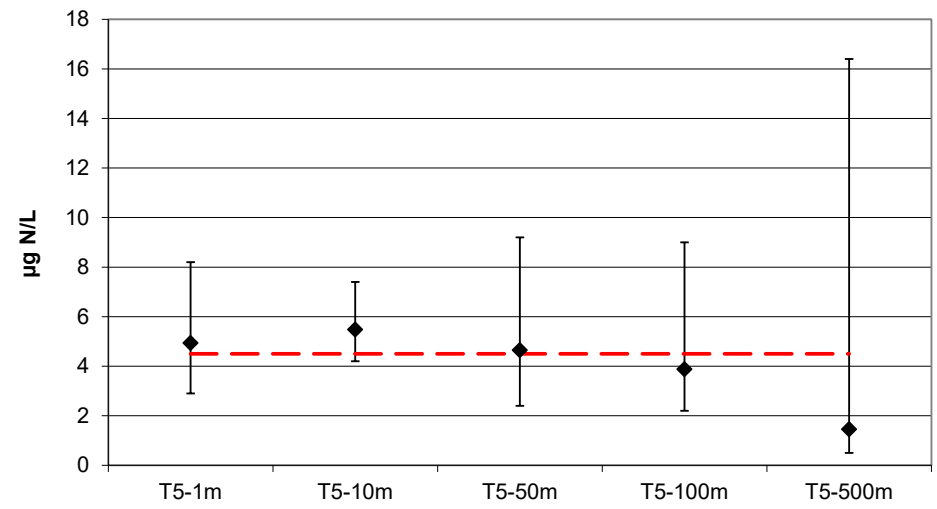
July 2016 - June 2017

**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



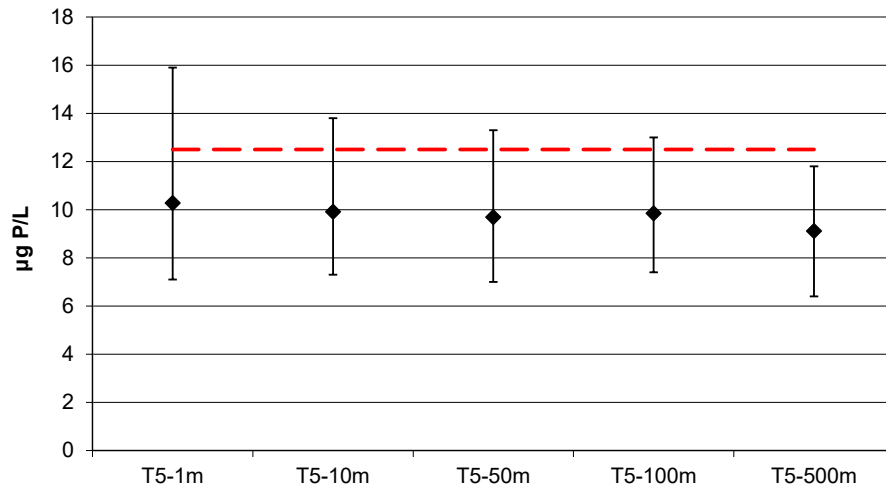
◆ Transect 5, July 2016 - June 2017      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



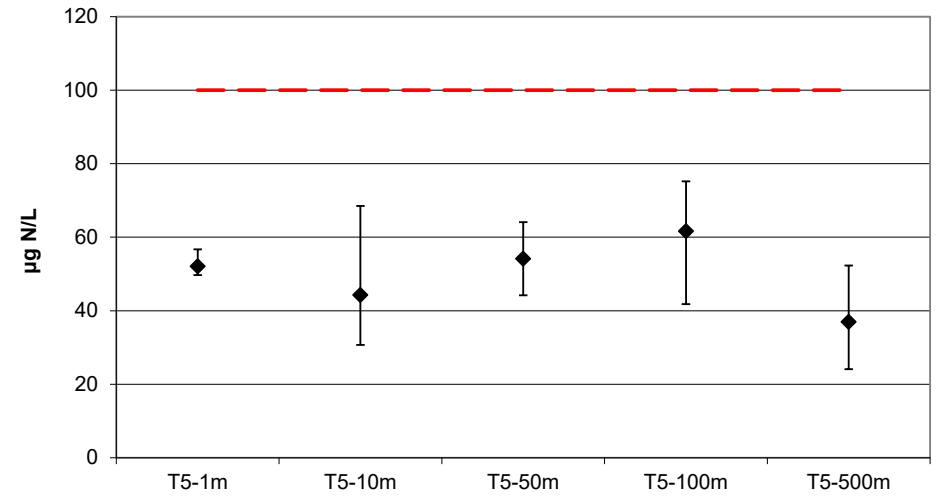
◆ Transect 5, July 2016 - June 2017      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



◆ Transect 5, July 2016 - June 2017      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean



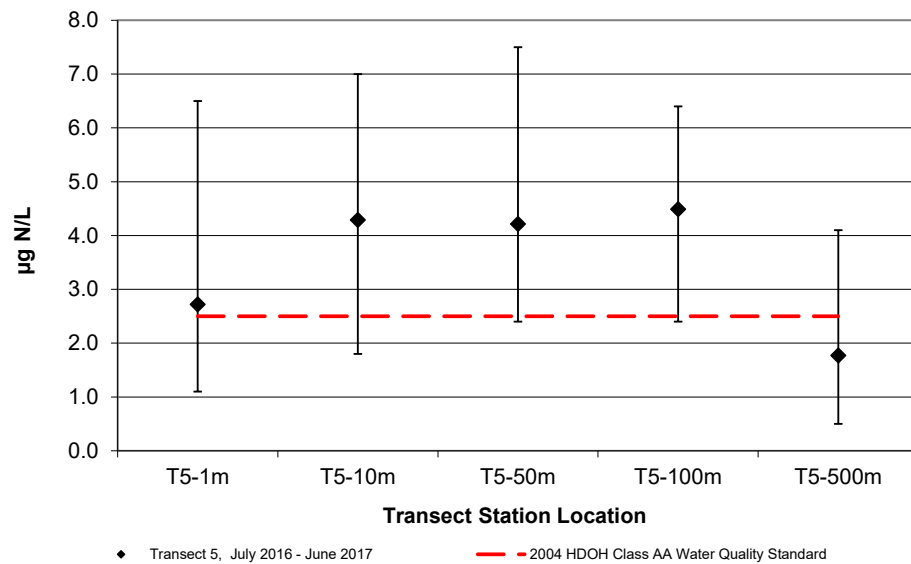
◆ Transect 5, July 2016 - June 2017      - - - 2004 HDOH Class AA Water Quality Standard

# NELHA Water Quality Laboratory

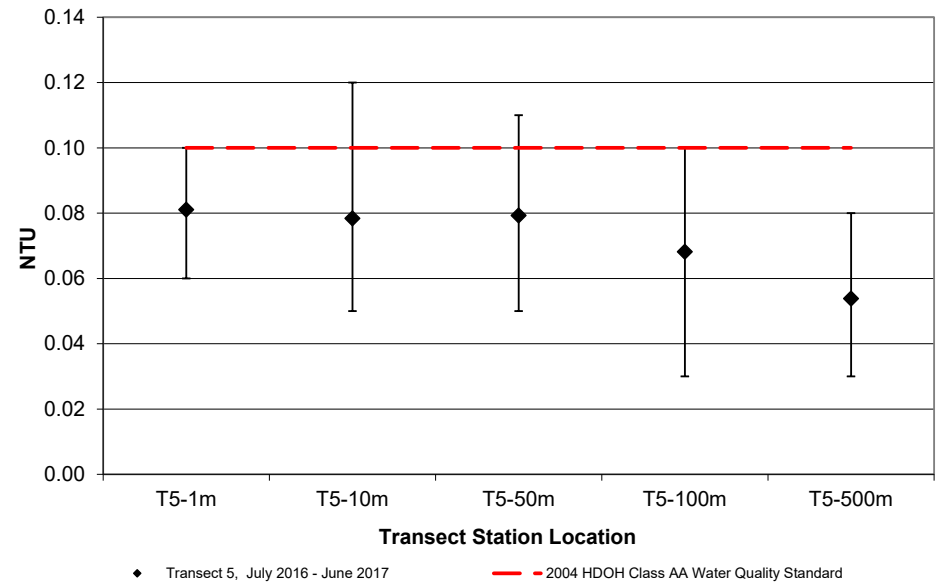
## Transect 5

July 2016 - June 2017

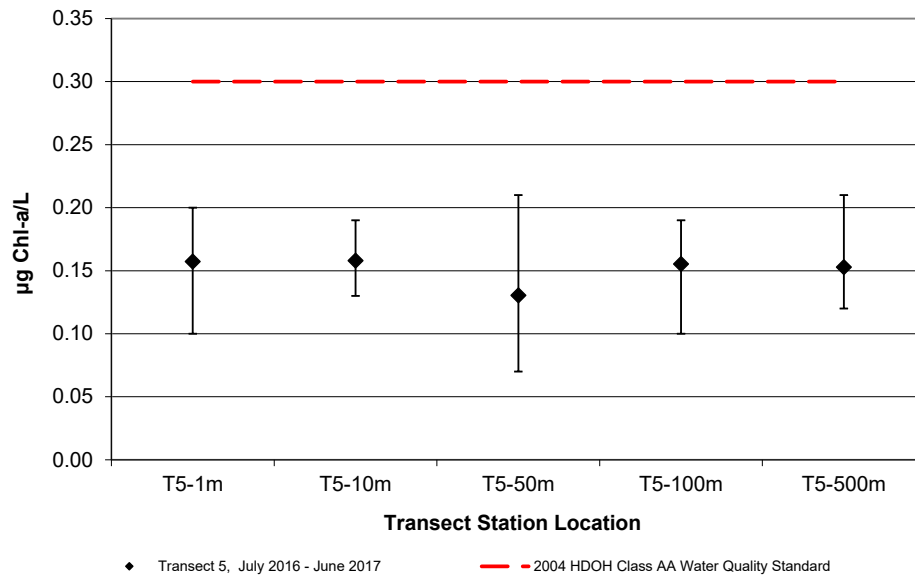
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2015 - June 2016

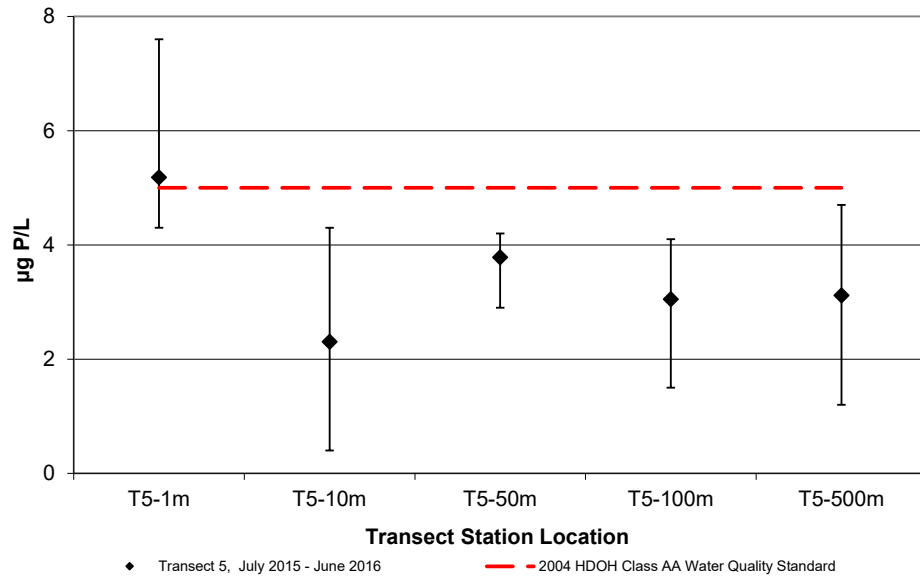
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |       | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |     | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |     | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|-------|------------------------------------------------|-----|------------------------------------------------------------------------------|-----|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |       | 0.16                                           | 5   | 0.32                                                                         | 4.5 | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 8/27/15       | 958            | 0.6                  | Flood | 0.15                                           | 4.8 | 0.39                                                                         | 5.4 | 0.25                                                            | 3.5 | 3.2                  | 90  | 0.39                 | 12.0 | 4.7                  | 66  | 0.03               | 34.46              | 28.5          | 8.26 | 6.25        | 0.27            |
| T5-1m     | 11/18/15      | 1022           | 1.9                  | High  | 0.14                                           | 4.3 | 0.59                                                                         | 8.3 | 0.54                                                            | 7.5 | 3.5                  | 98  | 0.50                 | 15.4 | 4.9                  | 68  | 0.07               | 34.62              | 27.4          | 8.28 | 6.96        | 0.13            |
| T5-1m     | 3/2/16        | 909            | 0.9                  | High  | 0.15                                           | 4.6 | 0.29                                                                         | 4.0 | 0.39                                                            | 5.5 | 0.1                  | 4   | 0.47                 | 14.5 | 4.9                  | 69  | 0.09               | 34.73              | 25.2          | 8.23 | 5.74        | 0.08            |
| T5-1m     | 5/4/16        | 1003           | 0.5                  | Flood | 0.25                                           | 7.6 | 0.31                                                                         | 4.4 | 0.17                                                            | 2.4 | 2.2                  | 61  | 0.46                 | 14.2 | 8.0                  | 113 | 0.08               | 34.60              | 25.9          | 8.21 | 6.27        | 0.09            |
| Geomean   | '15-'16       |                |                      |       | 0.17                                           | 5.2 | 0.38                                                                         | 5.3 | 0.3                                                             | 4.3 |                      |     | 0.5                  | 14.0 | 5.5                  | 77  | 0.06               |                    |               |      |             | 0.13            |
| T5-10m    | 8/27/15       | 1003           | 0.6                  | Flood | 0.14                                           | 4.3 | 0.02                                                                         | 0.3 | 0.19                                                            | 2.7 | 2.9                  | 80  | 0.33                 | 10.2 | 4.6                  | 64  | 0.02               | 34.63              | 28.6          | 8.27 | 5.97        | 0.23            |
| T5-10m    | 11/18/15      | 1028           | 1.9                  | High  | 0.13                                           | 3.9 | 0.44                                                                         | 6.1 | 0.27                                                            | 3.8 | 4.1                  | 117 | 0.48                 | 14.8 | 3.3                  | 46  | 0.04               | 34.65              | 27.4          | 8.28 | 6.69        | 0.13            |
| T5-10m    | 3/2/16        | 913            | 0.9                  | High  | 0.14                                           | 4.2 | 0.21                                                                         | 3.0 | 0.24                                                            | 3.3 | 0.2                  | 6   | 0.51                 | 15.9 | 5.2                  | 72  | 0.07               | 34.74              | 25.3          | 8.23 | 5.75        | 0.07            |
| T5-10m    | 5/4/16        | 1008           | 0.5                  | Flood | 0.01                                           | 0.4 | 0.19                                                                         | 2.7 | 0.21                                                            | 2.9 | 1.8                  | 49  | 0.46                 | 14.3 | 6.8                  | 96  | 0.08               | 34.65              | 25.9          | 8.20 | 6.16        | 0.17            |
| Geomean   | '15-'16       |                |                      |       | 0.07                                           | 2.3 | 0.14                                                                         | 2.0 | 0.22                                                            | 3.1 |                      |     | 0.44                 | 13.6 | 4.8                  | 67  | 0.05               |                    |               |      |             | 0.14            |
| T5-50m    | 8/27/15       | 1007           | 0.6                  | Flood | 0.13                                           | 4.0 | 0.02                                                                         | 0.3 | 0.17                                                            | 2.4 | 1.4                  | 40  | 0.34                 | 10.4 | 4.7                  | 66  | 0.02               | 34.65              | 28.7          | 8.27 | 6.01        | 0.16            |
| T5-50m    | 11/18/15      | 1033           | 1.9                  | High  | 0.14                                           | 4.2 | 0.47                                                                         | 6.6 | 0.09                                                            | 1.2 | 4.0                  | 113 | 0.49                 | 15.2 | 5.9                  | 82  | 0.06               | 34.65              | 27.3          | 8.24 | 6.62        | 0.13            |
| T5-50m    | 3/2/16        | 918            | 0.9                  | High  | 0.14                                           | 4.2 | 0.29                                                                         | 4.0 | 0.56                                                            | 7.9 | 0.3                  | 10  | 0.46                 | 14.4 | 4.8                  | 67  | 0.07               | 34.72              | 25.2          | 8.23 | 5.76        | 0.07            |
| T5-50m    | 5/4/16        | 1013           | 0.5                  | Flood | 0.09                                           | 2.9 | 0.04                                                                         | 0.6 | 0.11                                                            | 1.5 | 0.4                  | 12  | 0.40                 | 12.4 | 3.4                  | 48  | 0.07               | 34.70              | 25.9          | 8.19 | 6.16        | 0.19            |
| Geomean   | '15-'16       |                |                      |       | 0.12                                           | 3.8 | 0.11                                                                         | 1.5 | 0.17                                                            | 2.4 |                      |     | 0.42                 | 13.0 | 4.6                  | 65  | 0.05               |                    |               |      |             | 0.13            |
| T5-100m   | 8/27/15       | 1012           | 0.6                  | Flood | 0.13                                           | 4.1 | 0.01                                                                         | 0.1 | 0.21                                                            | 3.0 | 1.3                  | 36  | 0.35                 | 10.9 | 4.4                  | 61  | 0.02               | 34.66              | 28.6          | 8.27 | 5.94        | 0.17            |
| T5-100m   | 11/18/15      | 1039           | 1.9                  | High  | 0.13                                           | 3.9 | 0.36                                                                         | 5.0 | 0.23                                                            | 3.2 | 3.7                  | 103 | 0.48                 | 15.0 | 4.9                  | 68  | 0.07               | 34.65              | 27.4          | 8.27 | 6.69        | 0.10            |
| T5-100m   | 3/2/16        | 923            | 0.9                  | High  | 0.12                                           | 3.6 | 0.20                                                                         | 2.8 | 0.44                                                            | 6.2 | 0.2                  | 6   | 0.43                 | 13.2 | 3.7                  | 52  | 0.07               | 34.68              | 25.3          | 8.24 | 5.81        | 0.07            |
| T5-100m   | 5/4/16        | 1019           | 0.5                  | Flood | 0.05                                           | 1.5 | 0.02                                                                         | 0.3 | 0.14                                                            | 2.0 | 0.0                  | 0   | 0.47                 | 14.7 | 7.0                  | 98  | 0.08               | 34.71              | 25.9          | 8.18 | 6.16        | 0.18            |
| Geomean   | '15-'16       |                |                      |       | 0.10                                           | 3.0 | 0.06                                                                         | 0.8 | 0.24                                                            | 3.3 |                      |     | 0.43                 | 13.3 | 4.9                  | 68  | 0.05               |                    |               |      |             | 0.12            |
| T5-500m   | 8/27/15       | 1019           | 0.6                  | Flood | 0.15                                           | 4.7 | 0.01                                                                         | 0.2 | 0.27                                                            | 3.8 | 1.3                  | 37  | 0.19                 | 6.0  | 4.68                 | 66  | 0.02               | 34.72              | 28.7          | 8.27 | 5.91        | 0.12            |
| T5-500m   | 11/18/15      | 1050           | 1.9                  | High  | 0.14                                           | 4.4 | 0.37                                                                         | 5.2 | 0.21                                                            | 3.0 | 3.3                  | 93  | 0.52                 | 16.1 | 5.27                 | 74  | 0.05               | 34.56              | 27.4          | 8.28 | 6.89        | 0.11            |
| T5-500m   | 3/2/16        | 930            | 0.9                  | High  | 0.12                                           | 3.8 | 0.17                                                                         | 2.4 | 0.36                                                            | 5.0 | 0.5                  | 15  | 0.47                 | 14.7 | 5.58                 | 78  | 0.05               | 34.65              | 25.3          | 8.25 | 5.80        | 0.09            |
| T5-500m   | 5/4/16        | 1025           | 0.5                  | Flood | 0.04                                           | 1.2 | 0.04                                                                         | 0.6 | 0.08                                                            | 1.1 | 0.1                  | 3   | 0.41                 | 12.6 | 4.91                 | 69  | 0.07               | 34.70              | 26.1          | 8.18 | 6.12        | 0.17            |
| Geomean   | '15-'16       |                |                      |       | 0.10                                           | 3.1 | 0.08                                                                         | 1.1 | 0.20                                                            | 2.8 |                      |     | 0.37                 | 11.6 | 5.1                  | 71  | 0.04               |                    |               |      |             | 0.12            |

# NELHA Water Quality Laboratory

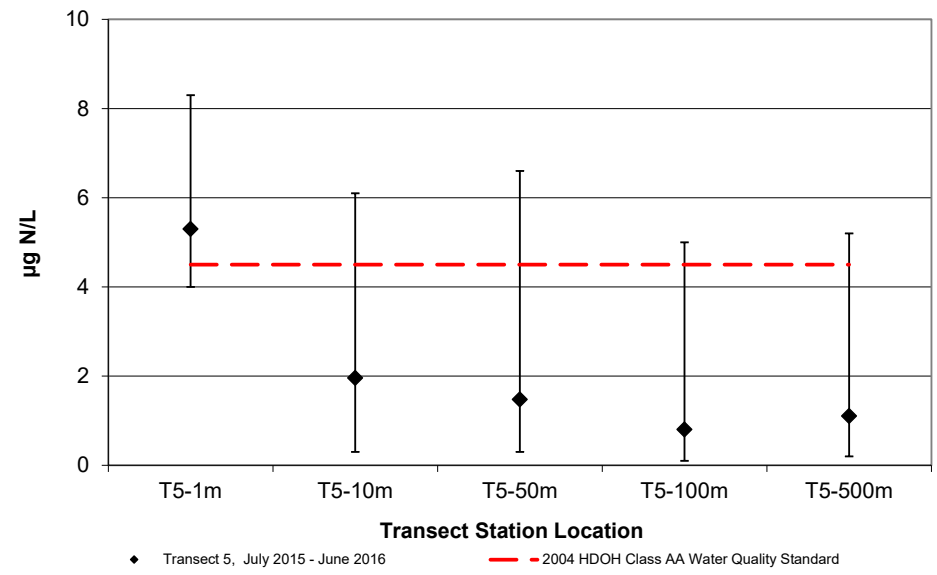
Transect 5

July 2015 - June 2016

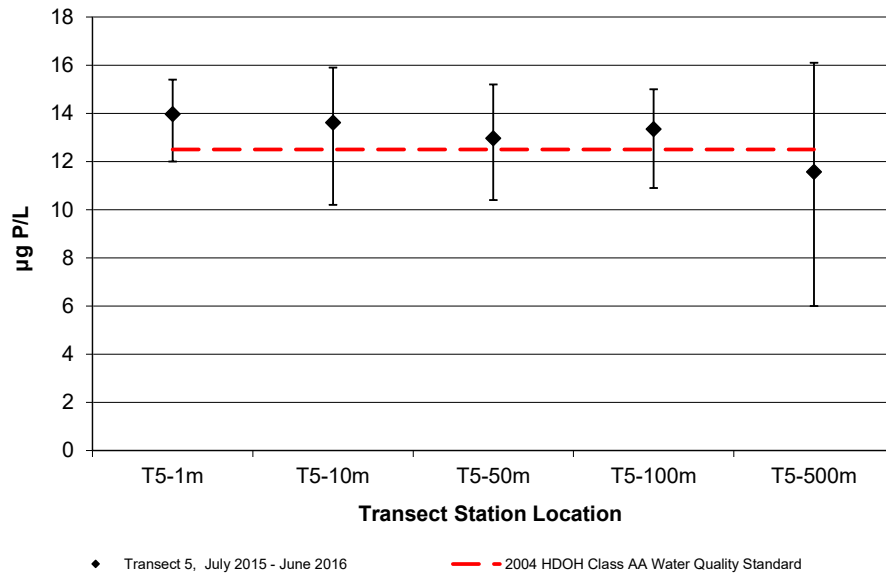
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



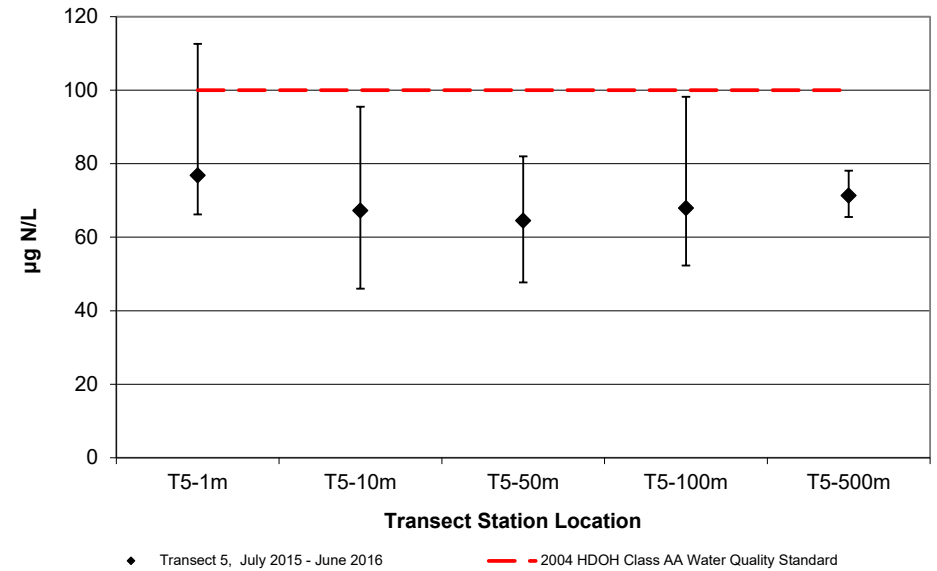
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean

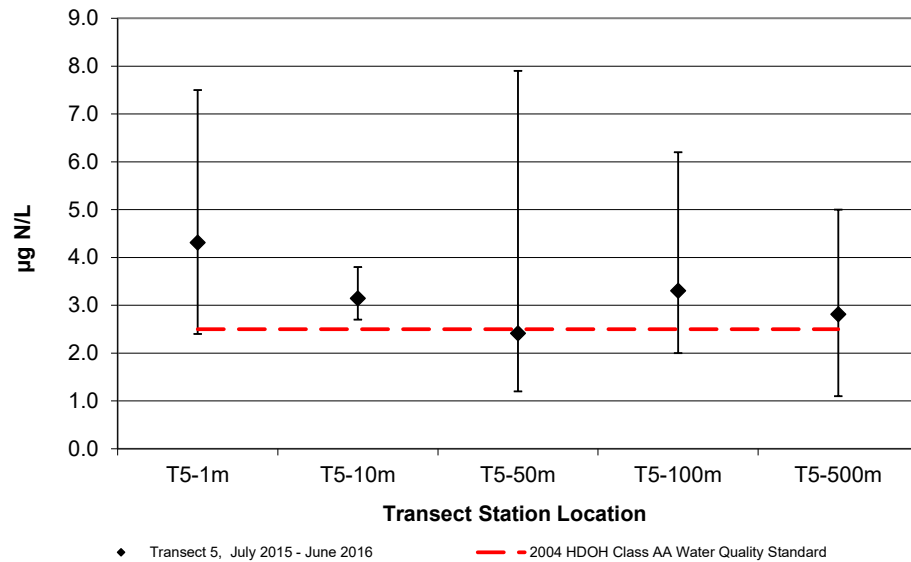


# NELHA Water Quality Laboratory

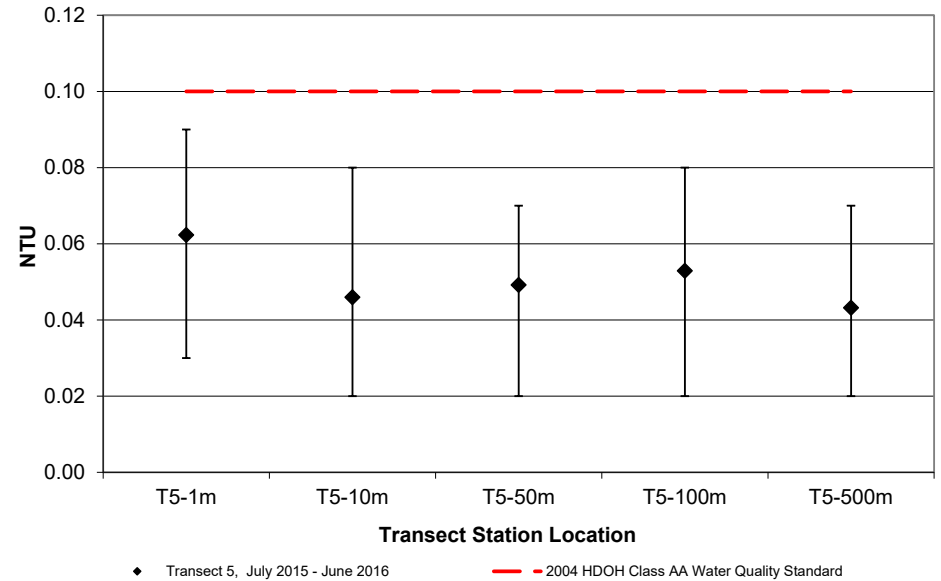
Transect 5

July 2015 - June 2016

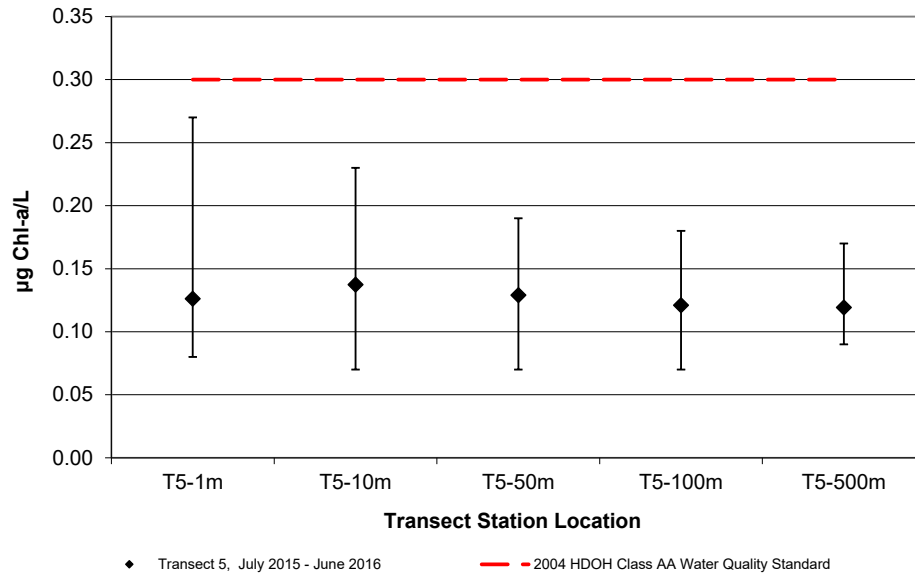
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2014 - June 2015

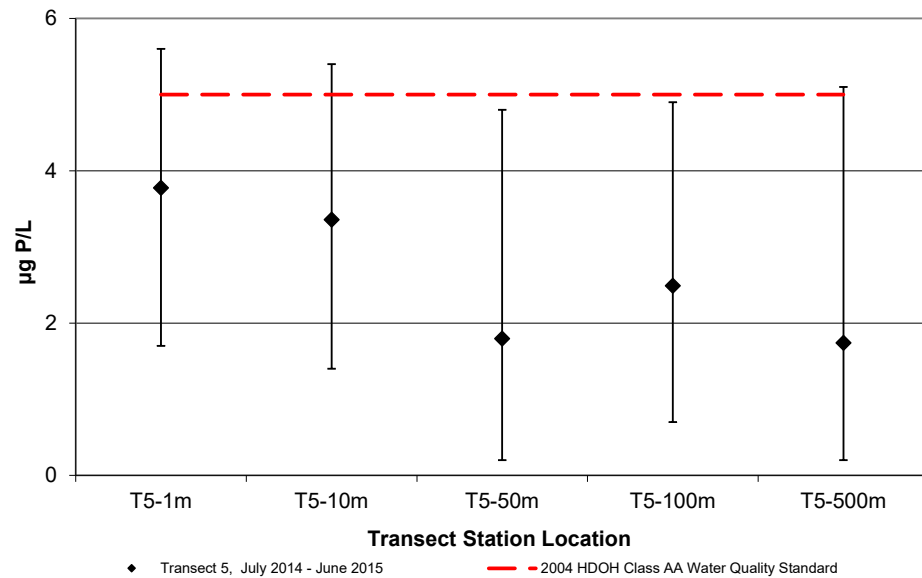
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |       | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |      | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |     | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|-------|------------------------------------------------|-----|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |       | 0.16                                           | 5   | 0.32                                                                         | 4.5  | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 8/6/14        | 948            | 1.1                  | Flood | 0.17                                           | 5.2 | 0.12                                                                         | 1.7  | 0.41                                                            | 5.8 | 0.9                  | 26  | 0.54                 | 16.7 | 7.1                  | 99  | 0.10               | 34.95              | 26.7          | 8.23 | 6.31        | 0.10            |
| T5-1m     | 12/4/14       | 1018           | 0.3                  | Low   | 0.13                                           | 4.1 | 0.42                                                                         | 5.9  | 0.55                                                            | 7.7 | 2.3                  | 65  | 0.41                 | 12.6 | 6.8                  | 95  | 0.07               | 35.17              | 26.3          | 8.24 | 6.43        | 0.11            |
| T5-1m     | 3/5/15        | 1012           | -0.1                 | Low   | 0.05                                           | 1.7 | 0.98                                                                         | 13.7 | 0.27                                                            | 3.8 | 4.5                  | 125 | 0.39                 | 12.1 | 7.0                  | 97  | 0.10               | 34.69              | 25.3          | 8.27 | 7.00        | 0.14            |
| T5-1m     | 6/18/15       | 950            | 0.2                  | Flood | 0.18                                           | 5.6 | 0.69                                                                         | 9.7  | 0.35                                                            | 4.9 | 5.9                  | 166 | 0.47                 | 14.7 | 8.5                  | 119 | 0.08               | 34.31              | 26.6          | 8.15 | 6.70        | 0.08            |
| Geomean   | '14-'15       |                |                      |       | 0.12                                           | 3.8 | 0.43                                                                         | 6.0  | 0.4                                                             | 5.4 |                      |     | 0.4                  | 13.9 | 7.3                  | 102 | 0.09               |                    |               |      |             | 0.11            |
| T5-10m    | 8/6/14        | 951            | 1.1                  | Flood | 0.17                                           | 5.4 | 0.12                                                                         | 1.7  | 0.34                                                            | 4.8 | 0.9                  | 24  | 0.52                 | 16   | 7.1                  | 99  | 0.11               | 34.95              | 26.7          | 8.24 | 6.23        | 0.12            |
| T5-10m    | 12/4/14       | 1023           | 0.3                  | Low   | 0.14                                           | 4.2 | 0.78                                                                         | 10.9 | 0.61                                                            | 8.5 | 3.8                  | 106 | 0.06                 | 2    | 7.4                  | 103 | 0.11               | 35.17              | 26.4          | 8.25 | 6.55        | 0.11            |
| T5-10m    | 3/5/15        | 1019           | -0.1                 | Low   | 0.05                                           | 1.4 | 0.46                                                                         | 6.5  | 0.21                                                            | 2.9 | 2.4                  | 66  | 0.31                 | 9.5  | 7.1                  | 99  | 0.10               | 34.72              | 25.4          | 8.27 | 6.87        | 0.10            |
| T5-10m    | 6/18/15       | 956            | 0.2                  | Flood | 0.13                                           | 4.0 | 0.21                                                                         | 2.9  | 0.40                                                            | 5.6 | 4.1                  | 115 | 0.42                 | 13.1 | 7.5                  | 105 | 0.08               | 34.40              | 26.6          | 8.15 | 6.67        | 0.09            |
| Geomean   | '14-'15       |                |                      |       | 0.11                                           | 3.4 | 0.31                                                                         | 4.3  | 0.36                                                            | 5.1 |                      |     | 0.26                 | 7.9  | 7.2                  | 101 | 0.10               |                    |               |      |             | 0.10            |
| T5-50m    | 8/6/14        | 956            | 1.1                  | Flood | 0.15                                           | 4.8 | 0.04                                                                         | 0.6  | 0.34                                                            | 4.7 | 0.7                  | 19  | 0.53                 | 16.3 | 6.6                  | 93  | 0.05               | 34.98              | 26.8          | 8.24 | 6.11        | 0.11            |
| T5-50m    | 12/4/14       | 1027           | 0.3                  | Low   | 0.12                                           | 3.6 | 0.08                                                                         | 1.1  | 0.45                                                            | 6.3 | 0.5                  | 14  | 0.42                 | 13.1 | 6.4                  | 90  | 0.19               | 35.25              | 26.4          | 8.25 | 6.25        | 0.17            |
| T5-50m    | 3/5/15        | 1025           | -0.1                 | Low   | 0.01                                           | 0.2 | 0.04                                                                         | 0.6  | 0.12                                                            | 1.7 | 0.1                  | 3   | 0.31                 | 9.7  | 5.3                  | 74  | 0.09               | 34.77              | 25.3          | 8.28 | 6.70        | 0.11            |
| T5-50m    | 6/18/15       | 1001           | 0.2                  | Flood | 0.10                                           | 3.0 | 0.14                                                                         | 1.9  | 0.36                                                            | 5.1 | 3.0                  | 84  | 0.37                 | 11.4 | 6.4                  | 90  | 0.06               | 34.42              | 26.6          | 8.15 | 6.59        | 0.10            |
| Geomean   | '14-'15       |                |                      |       | 0.06                                           | 1.8 | 0.07                                                                         | 0.9  | 0.29                                                            | 4.0 |                      |     | 0.40                 | 12.4 | 6.2                  | 86  | 0.08               |                    |               |      |             | 0.12            |
| T5-100m   | 8/6/14        | 1000           | 1.1                  | Flood | 0.16                                           | 4.9 | 0.01                                                                         | 0.2  | 0.35                                                            | 4.9 | 0.6                  | 17  | 0.48                 | 15.0 | 6.2                  | 88  | 0.08               | 34.96              | 26.9          | 8.23 | 6.07        | 0.06            |
| T5-100m   | 12/4/14       | 1034           | 0.3                  | Low   | 0.10                                           | 3.2 | 0.04                                                                         | 0.6  | 0.51                                                            | 7.1 | 0.4                  | 13  | 0.46                 | 14.1 | 6.3                  | 88  | 0.05               | 35.25              | 26.4          | 8.26 | 6.25        | 0.19            |
| T5-100m   | 3/5/15        | 1035           | -0.1                 | Low   | 0.02                                           | 0.7 | 0.09                                                                         | 1.3  | 0.15                                                            | 2.1 | 0.6                  | 16  | 0.32                 | 9.8  | 6.4                  | 89  | 0.10               | 34.75              | 25.3          | 8.30 | 6.82        | 0.12            |
| T5-100m   | 6/18/15       | 1006           | 0.2                  | Flood | 0.11                                           | 3.5 | 0.64                                                                         | 9.0  | 0.46                                                            | 6.5 | 4.3                  | 121 | 0.31                 | 9.5  | 5.8                  | 81  | 0.04               | 34.37              | 26.7          | 8.18 | 6.52        | 0.19            |
| Geomean   | '14-'15       |                |                      |       | 0.08                                           | 2.5 | 0.08                                                                         | 1.1  | 0.33                                                            | 4.7 |                      |     | 0.38                 | 11.8 | 6.2                  | 86  | 0.06               |                    |               |      |             | 0.13            |
| T5-500m   | 8/6/14        | 1007           | 1.1                  | Flood | 0.16                                           | 5.1 | 0.01                                                                         | 0.1  | 0.25                                                            | 3.5 | 0.6                  | 17  | 0.50                 | 15.4 | 5.15                 | 72  | 0.06               | 34.98              | 27.2          | 8.23 | 6.01        | 0.05            |
| T5-500m   | 12/4/14       | 1045           | 0.3                  | Low   | 0.10                                           | 3.2 | 0.03                                                                         | 0.4  | 0.41                                                            | 5.7 | 0.2                  | 5   | 0.46                 | 14.3 | 7.02                 | 98  | 0.09               | 35.24              | 26.5          | 8.25 | 6.37        | 0.16            |
| T5-500m   | 3/5/15        | 1046           | -0.1                 | Low   | 0.01                                           | 0.2 | 0.08                                                                         | 1.1  | 0.10                                                            | 1.4 | 0.6                  | 17  | 0.34                 | 10.5 | 5.67                 | 79  | 0.10               | 34.75              | 25.4          | 8.30 | 6.83        | 0.2             |
| T5-500m   | 6/18/15       | 1013           | 0.2                  | Flood | 0.09                                           | 2.8 | 0.01                                                                         | 0.2  | 0.49                                                            | 6.9 | 0.9                  | 25  | 0.18                 | 5.6  | 6.21                 | 87  | 0.10               | 34.54              | 26.8          | 8.21 | 6.53        | 0.08            |
| Geomean   | '14-'15       |                |                      |       | 0.06                                           | 1.7 | 0.02                                                                         | 0.3  | 0.27                                                            | 3.7 |                      |     | 0.34                 | 10.7 | 6.0                  | 84  | 0.09               |                    |               |      |             | 0.11            |

# NELHA Water Quality Laboratory

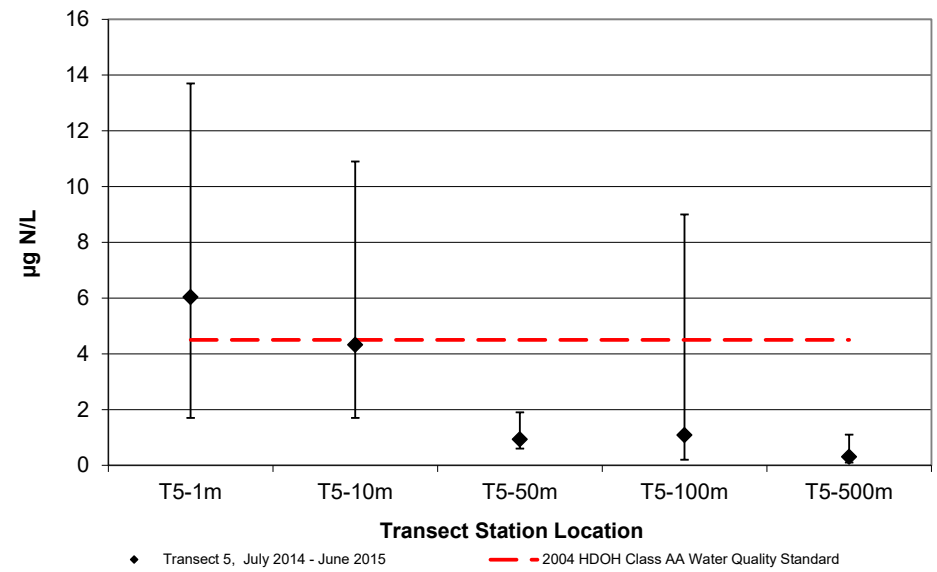
Transect 5

July 2014 - June 2015

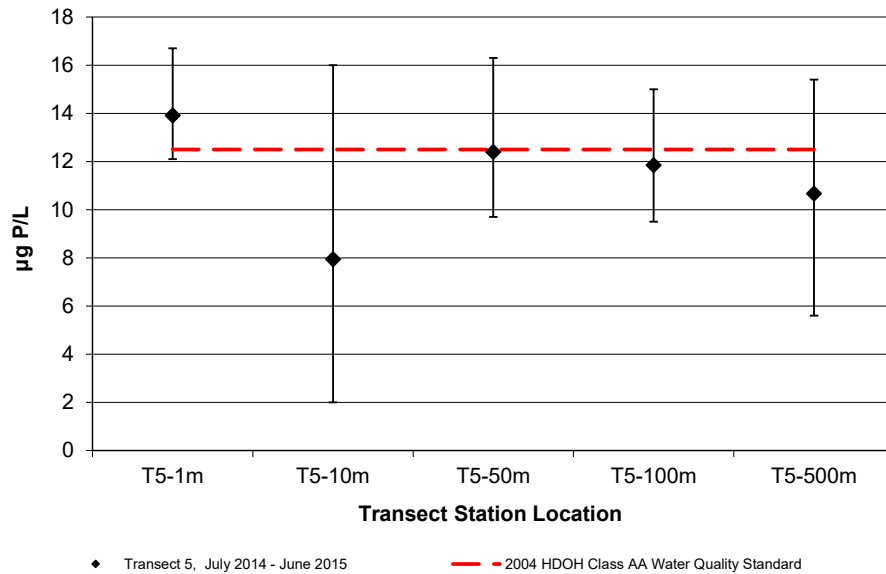
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



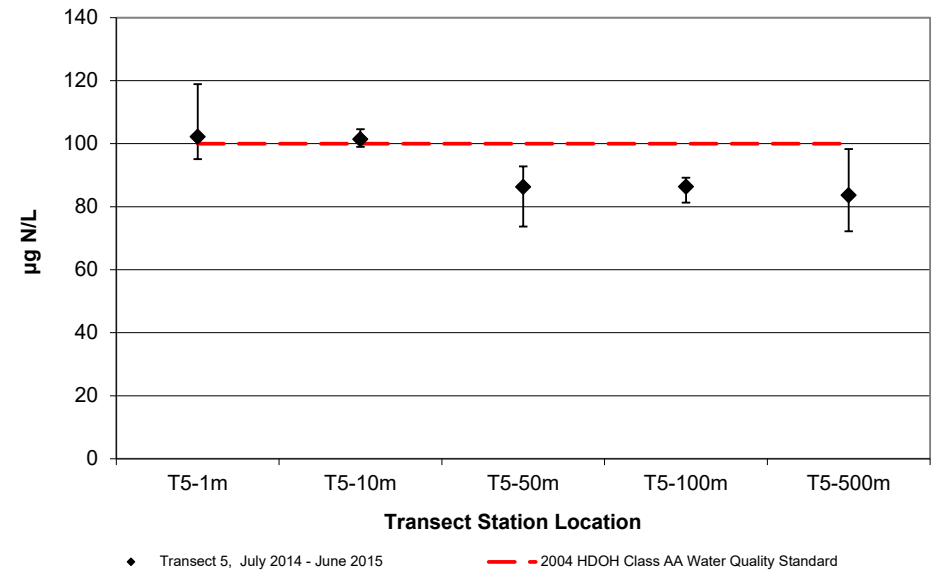
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean

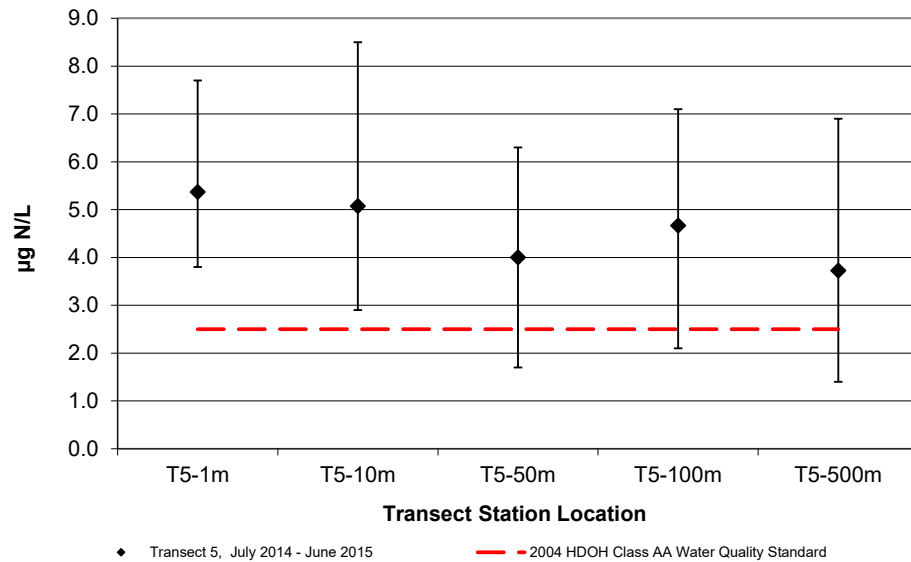


# NELHA Water Quality Laboratory

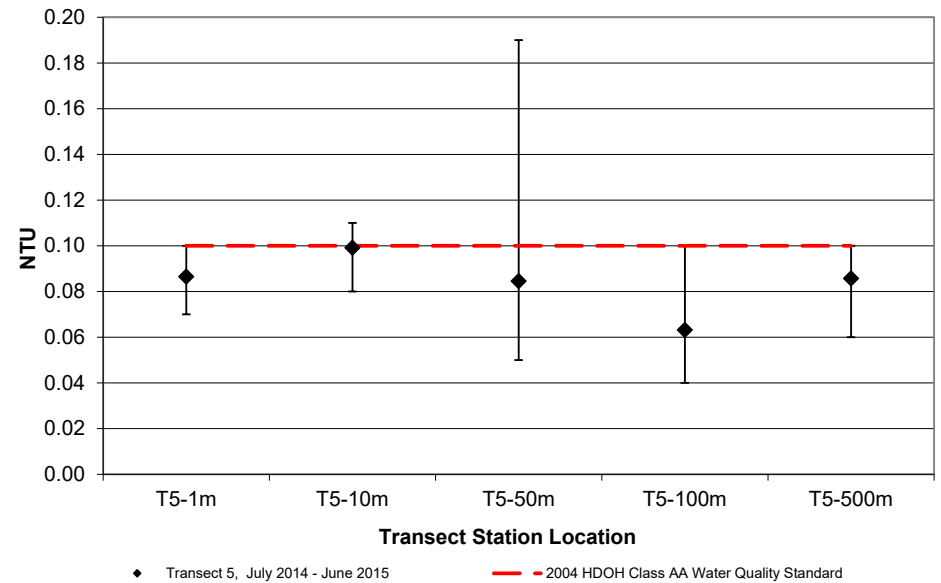
## Transect 5

July 2014 - June 2015

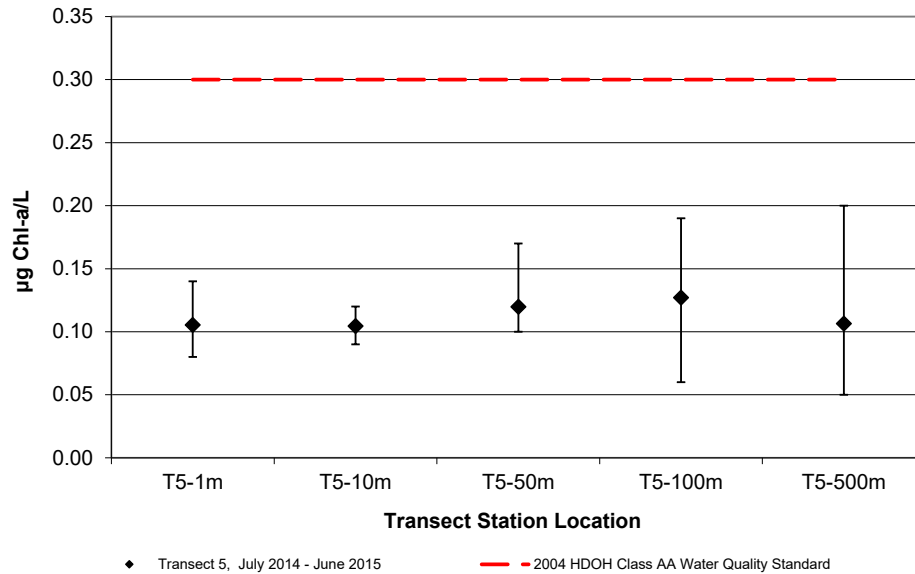
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2013 - June 2014

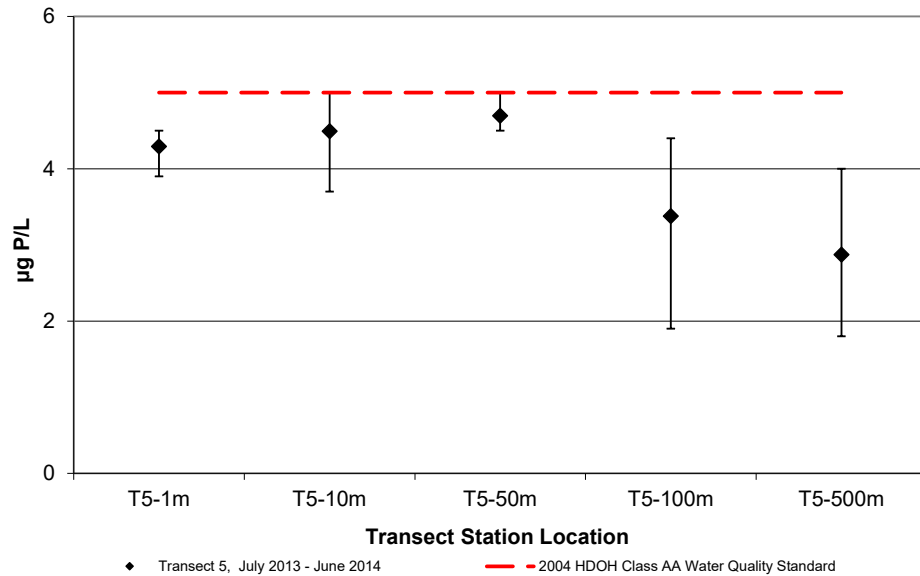
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |       | PO <sub>4</sub> <sup>3-</sup><br>(µM) (µg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(µM) (µg N/L) |      | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(µM) (µg N/L) |     | Si<br>(µM) (µg Si/L) |     | TDP<br>(µM) (µg P/L) |      | TDN<br>(µM) (µg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(µg/L) |
|-----------|---------------|----------------|----------------------|-------|------------------------------------------------|-----|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |       | 0.16                                           | 5   | 0.32                                                                         | 4.5  | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 8/6/13        | 1029           | 0.2                  | Flood | 0.14                                           | 4.4 | 2.11                                                                         | 29.5 | 0.36                                                            | 5.0 | 14.6                 | 409 | 0.67                 | 20.7 | 5.9                  | 82  | 0.03               | 34.81              | 26.3          | 8.28 | 7.07        | 0.08            |
| T5-1m     | 10/30/13      | 935            | 0.8                  | Flood | 0.14                                           | 4.4 | 0.34                                                                         | 4.8  | 0.19                                                            | 2.7 | 2.5                  | 69  | 0.46                 | 14.3 | 4.6                  | 64  | 0.02               | 34.89              | 27.0          | 8.22 | 6.10        | 0.11            |
| T5-1m     | 2/5/14        | 959            | 0.6                  | Ebb   | 0.15                                           | 4.5 | 0.42                                                                         | 5.9  | 0.29                                                            | 4.1 | 2.9                  | 80  | 0.50                 | 15.5 | 5.4                  | 76  | 0.02               | 34.95              | 25.2          | 8.20 | 6.38        | 0.15            |
| T5-1m     | 5/7/14        | 953            | 0.8                  | Flood | 0.13                                           | 3.9 | 0.38                                                                         | 5.3  | 0.14                                                            | 1.9 | 1.4                  | 41  | 0.49                 | 15.3 | 6.8                  | 95  | 0.04               | 34.79              | 25.7          | 8.20 | 5.65        | 0.11            |
| Geomean   | '13-'14       |                |                      |       | 0.14                                           | 4.3 | 0.58                                                                         | 8.2  | 0.2                                                             | 3.2 |                      |     | 0.5                  | 16.3 | 5.6                  | 79  | 0.03               |                    |               |      |             | 0.11            |
| T5-10m    | 8/6/13        | 1034           | 0.2                  | Flood | 0.16                                           | 5.0 | 1.49                                                                         | 20.8 | 0.37                                                            | 5.2 | 10.8                 | 304 | 0.34                 | 10.6 | 6.7                  | 94  | 0.07               | 34.94              | 26.3          | 8.27 | 7.17        | 0.08            |
| T5-10m    | 10/30/13      | 938            | 0.8                  | Flood | 0.16                                           | 4.9 | 0.32                                                                         | 4.5  | 0.24                                                            | 3.4 | 2.3                  | 65  | 0.47                 | 14.6 | 6.8                  | 95  | 0.02               | 34.90              | 27.0          | 8.23 | 6.13        | 0.12            |
| T5-10m    | 2/5/14        | 1003           | 0.6                  | Ebb   | 0.15                                           | 4.5 | 0.42                                                                         | 5.9  | 0.31                                                            | 4.3 | 2.8                  | 77  | 0.56                 | 17.5 | 9.2                  | 128 | 0.02               | 34.96              | 25.2          | 8.22 | 6.23        | 0.11            |
| T5-10m    | 5/7/14        | 956            | 0.8                  | Flood | 0.12                                           | 3.7 | 0.44                                                                         | 6.1  | 0.20                                                            | 2.8 | 2.0                  | 57  | 0.39                 | 12.2 | 7.4                  | 104 | 0.08               | 34.79              | 25.7          | 8.20 | 5.64        | 0.09            |
| Geomean   | '13-'14       |                |                      |       | 0.15                                           | 4.5 | 0.54                                                                         | 7.6  | 0.27                                                            | 3.8 |                      |     | 0.44                 | 13.5 | 7.5                  | 104 | 0.04               |                    |               |      |             | 0.10            |
| T5-50m    | 8/6/13        | 1038           | 0.2                  | Flood | 0.15                                           | 4.7 | 2.36                                                                         | 33.0 | 0.28                                                            | 3.9 | 16.8                 | 471 | 0.39                 | 12.1 | 7.0                  | 98  | 0.04               | 34.76              | 26.3          | 8.26 | 7.07        | 0.12            |
| T5-50m    | 10/30/13      | 943            | 0.8                  | Flood | 0.16                                           | 5.0 | 0.39                                                                         | 5.4  | 0.14                                                            | 1.9 | 3.5                  | 98  | 0.47                 | 14.5 | 7.2                  | 101 | 0.02               | 34.87              | 27.1          | 8.22 | 6.15        | 0.10            |
| T5-50m    | 2/5/14        | 1008           | 0.5                  | Ebb   | 0.15                                           | 4.5 | 0.43                                                                         | 6.0  | 0.29                                                            | 4.0 | 3.1                  | 86  | 0.48                 | 15.0 | 9.0                  | 126 | 0.02               | 34.94              | 25.2          | 8.20 | 6.31        | 0.13            |
| T5-50m    | 5/7/14        | 1003           | 0.8                  | Flood | 0.15                                           | 4.6 | 1.31                                                                         | 18.3 | 0.27                                                            | 3.8 | 7.8                  | 219 | 0.43                 | 13.2 | 9.6                  | 134 | 0.04               | 34.57              | 25.6          | 8.20 | 5.42        | 0.15            |
| Geomean   | '13-'14       |                |                      |       | 0.15                                           | 4.7 | 0.84                                                                         | 11.8 | 0.23                                                            | 3.3 |                      |     | 0.44                 | 13.7 | 8.1                  | 114 | 0.03               |                    |               |      |             | 0.12            |
| T5-100m   | 8/6/13        | 1045           | 0.2                  | Flood | 0.06                                           | 1.9 | 0.22                                                                         | 3.1  | 0.06                                                            | 0.9 | 2.5                  | 71  | 0.35                 | 10.9 | 5.6                  | 79  | 0.03               | 35.23              | 26.6          | 8.26 | 6.92        | 0.11            |
| T5-100m   | 10/30/13      | 947            | 0.8                  | Flood | 0.13                                           | 3.9 | 0.10                                                                         | 1.4  | 0.12                                                            | 1.7 | 1.2                  | 35  | 0.57                 | 17.6 | 6.3                  | 88  | 0.02               | 34.94              | 27.1          | 8.22 | 6.05        | 0.06            |
| T5-100m   | 2/5/14        | 1014           | 0.5                  | Ebb   | 0.14                                           | 4.4 | 0.44                                                                         | 6.1  | 0.34                                                            | 4.8 | 3.6                  | 100 | 0.57                 | 17.8 | 6.5                  | 91  | 0.02               | 34.94              | 25.2          | 8.20 | 6.23        | 0.13            |
| T5-100m   | 5/7/14        | 1009           | 0.8                  | Flood | 0.13                                           | 4.0 | 0.91                                                                         | 12.8 | 0.15                                                            | 2.1 | 6.1                  | 170 | 0.44                 | 13.7 | 7.2                  | 101 | 0.02               | 34.67              | 25.7          | 8.20 | 5.43        | 0.18            |
| Geomean   | '13-'14       |                |                      |       | 0.11                                           | 3.4 | 0.31                                                                         | 4.3  | 0.14                                                            | 2.0 |                      |     | 0.47                 | 14.7 | 6.4                  | 89  | 0.02               |                    |               |      |             | 0.11            |
| T5-500m   | 8/6/13        | 1051           | 0.2                  | Flood | 0.06                                           | 1.8 | 0.00                                                                         | 0.1  | 0.06                                                            | 0.9 | 1.7                  | 48  | 0.33                 | 10.2 | 4.43                 | 62  | 0.02               | 35.26              | 26.9          | 8.22 | 6.77        | 0.09            |
| T5-500m   | 10/30/13      | 952            | 0.8                  | Flood | 0.11                                           | 3.5 | 0.04                                                                         | 0.5  | 0.06                                                            | 0.8 | 0.9                  | 26  | 0.47                 | 14.7 | 5.69                 | 80  | 0.03               | 34.99              | 27.1          | 8.22 | 6.06        | 0.08            |
| T5-500m   | 2/5/14        | 1022           | 0.5                  | Ebb   | 0.13                                           | 4.0 | 0.11                                                                         | 1.6  | 0.42                                                            | 5.9 | 1.8                  | 50  | 0.48                 | 15.0 | 4.60                 | 65  | 0.02               | 34.96              | 25.2          | 8.22 | 6.20        | 0.19            |
| T5-500m   | 5/7/14        | 1016           | 0.8                  | Flood | 0.09                                           | 2.7 | 0.12                                                                         | 1.7  | 0.10                                                            | 1.4 | 2.3                  | 65  | 0.42                 | 12.9 | 5.52                 | 77  | 0.04               | 34.79              | 26.0          | 8.20 | 5.51        | 0.25            |
| Geomean   | '13-'14       |                |                      |       | 0.09                                           | 2.9 | 0.04                                                                         | 0.6  | 0.11                                                            | 1.6 |                      |     | 0.42                 | 13.1 | 5.0                  | 70  | 0.03               |                    |               |      |             | 0.14            |

# NELHA Water Quality Laboratory

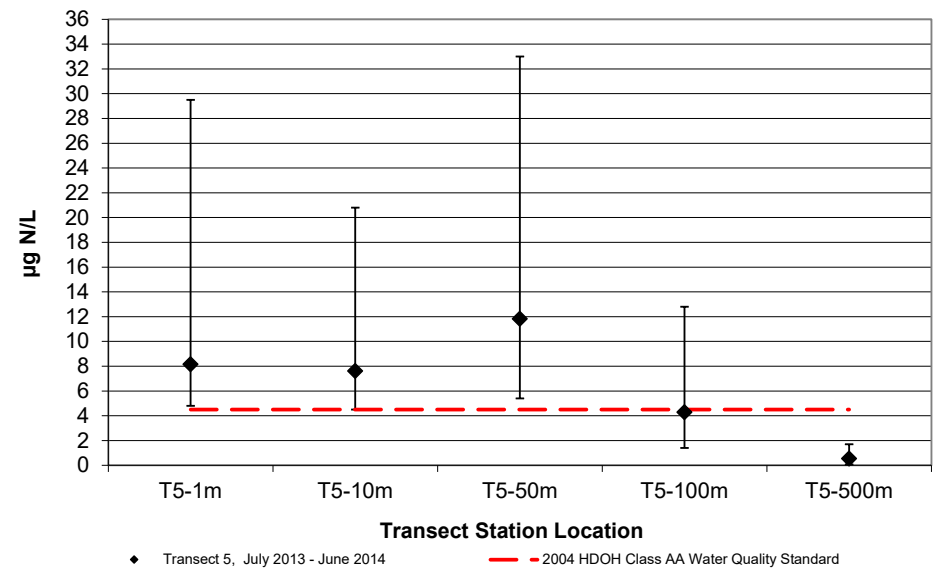
## Transect 5

July 2013 - June 2014

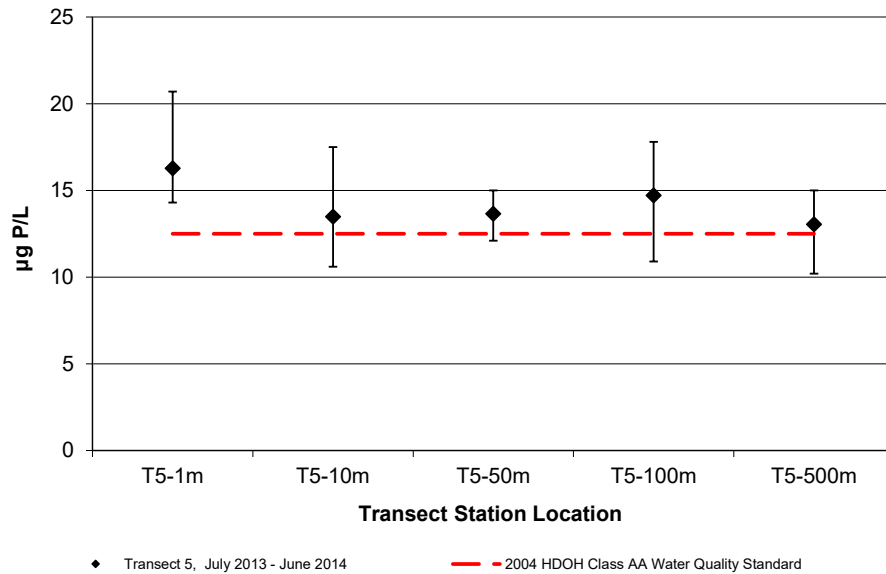
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



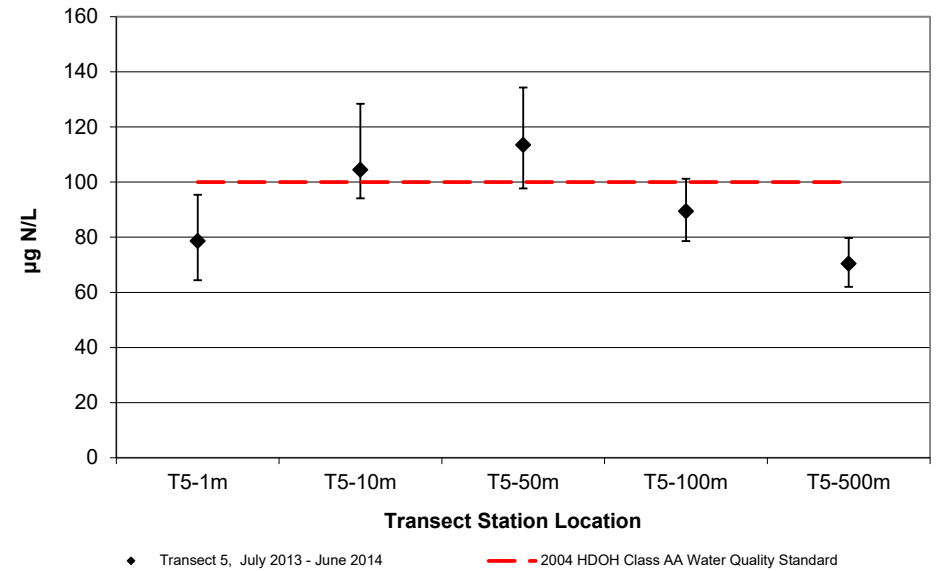
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean

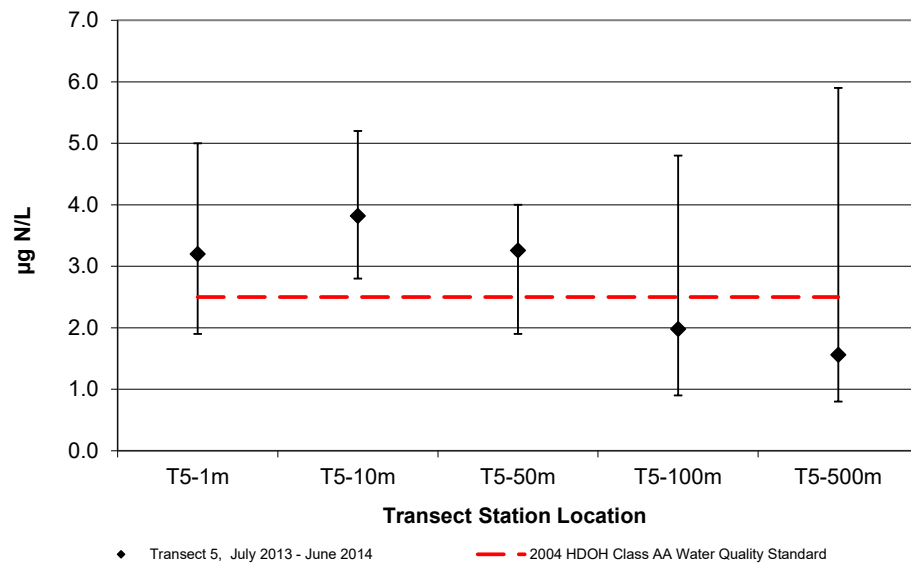


# NELHA Water Quality Laboratory

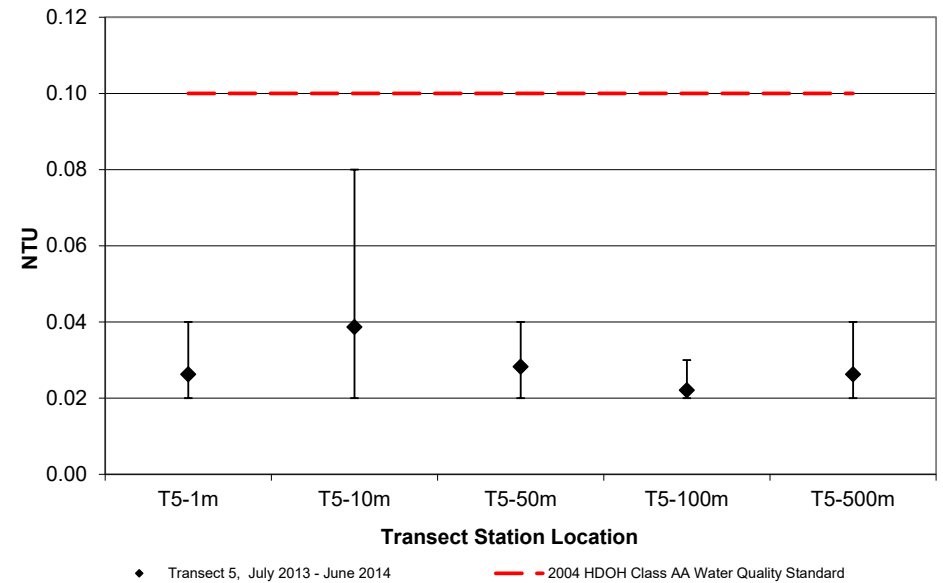
## Transect 5

July 2013 - June 2014

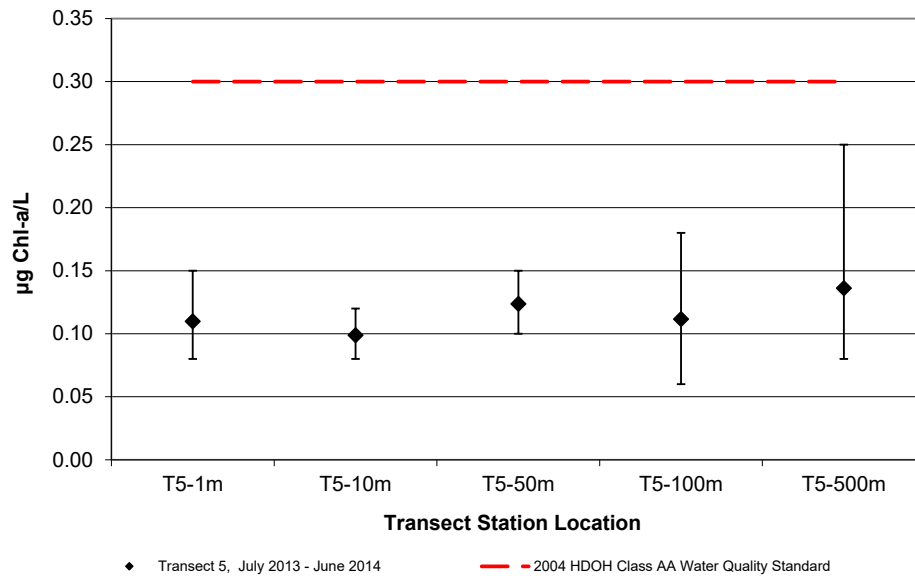
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2012 - June 2013

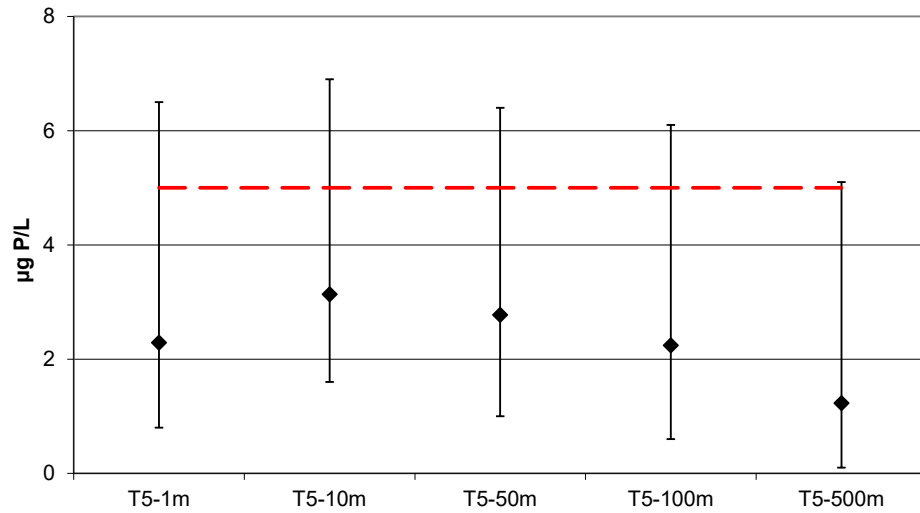
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |      | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |      | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |     | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|------|------------------------------------------------|-----|------------------------------------------------------------------------------|------|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |      | 0.16                                           | 5   | 0.32                                                                         | 4.5  | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 7/25/12       | 951            | 1.6                  | High | 0.03                                           | 0.8 | 0.24                                                                         | 3.4  | 0.26                                                            | 3.6 | 1.3                  | 36  | 0.40                 | 12.5 | 6.3                  | 88  | 0.08               | 35.12              | 26.4          | 8.24 | 6.88        | 0.10            |
| T5-1m     | 11/28/12      | 951            | 0.5                  | Ebb  | 0.07                                           | 2.2 | 0.51                                                                         | 7.2  | 0.18                                                            | 2.5 | 3.7                  | 103 | 0.68                 | 21.1 | 8.6                  | 121 | 0.03               | 35.18              | 25.2          | 8.20 | 6.68        | 0.05            |
| T5-1m     | 1/24/13       | 939            | 0.2                  | Ebb  | 0.08                                           | 2.4 | 0.39                                                                         | 5.4  | 0.19                                                            | 2.7 | 2.2                  | 63  | 0.60                 | 18.5 | 5.3                  | 74  | 0.04               | 35.06              | 24.8          | 8.22 | 6.36        | 0.21            |
| T5-1m     | 4/17/13       | 1053           | 0.5                  | High | 0.21                                           | 6.5 | 0.93                                                                         | 13.0 | 0.15                                                            | 2.1 | 5.3                  | 149 | 0.62                 | 19.3 | 6.3                  | 88  | 0.05               | 35.03              | 25.2          | 8.21 | 6.87        | 0.10            |
| Geomean   | '12-'13       |                |                      |      | 0.07                                           | 2.3 | 0.46                                                                         | 6.4  | 0.2                                                             | 2.7 |                      |     | 0.6                  | 17.5 | 6.5                  | 91  | 0.05               |                    |               |      |             | 0.10            |
| T5-10m    | 7/25/12       | 954            | 1.6                  | High | 0.05                                           | 1.6 | 0.21                                                                         | 2.9  | 0.19                                                            | 2.7 | 1.4                  | 38  | 0.57                 | 17.7 | 6.3                  | 89  | 0.23               | 35.12              | 26.4          | 8.24 | 6.86        | 0.2             |
| T5-10m    | 11/28/12      | 956            | 0.4                  | Ebb  | 0.11                                           | 3.5 | 0.60                                                                         | 8.4  | 0.20                                                            | 2.8 | 4.0                  | 112 | 0.56                 | 17.3 | 8.7                  | 122 | 0.02               | 35.19              | 25.2          | 8.20 | 6.69        | 0.12            |
| T5-10m    | 1/24/13       | 943            | 0.2                  | Ebb  | 0.08                                           | 2.5 | 0.41                                                                         | 5.7  | 0.11                                                            | 1.6 | 2.5                  | 71  | 0.52                 | 16.0 | 5.7                  | 80  | 0.04               | 35.06              | 24.8          | 8.21 | 6.37        | 0.17            |
| T5-10m    | 4/17/13       | 1058           | 0.5                  | High | 0.22                                           | 6.9 | 0.99                                                                         | 13.9 | 0.45                                                            | 6.3 | 5.5                  | 153 | 0.59                 | 18.3 | 7.3                  | 103 | 0.08               | 35.03              | 25.2          | 8.21 | 6.88        | 0.12            |
| Geomean   | '12-'13       |                |                      |      | 0.10                                           | 3.1 | 0.47                                                                         | 6.6  | 0.21                                                            | 3.0 |                      |     | 0.56                 | 17.3 | 6.9                  | 97  | 0.06               |                    |               |      |             | 0.15            |
| T5-50m    | 7/25/12       | 1000           | 1.6                  | High | 0.03                                           | 1.0 | 0.21                                                                         | 2.9  | 0.21                                                            | 3.0 | 1.5                  | 43  | 0.46                 | 14.4 | 5.6                  | 79  | 0.04               | 35.10              | 26.4          | 8.24 | 6.81        | 0.04            |
| T5-50m    | 11/28/12      | 1001           | 0.4                  | Ebb  | 0.11                                           | 3.3 | 0.41                                                                         | 5.7  | 0.22                                                            | 3.1 | 3.3                  | 93  | 0.43                 | 13.3 | 6.2                  | 87  | 0.03               | 35.19              | 25.3          | 8.20 | 6.77        | 0.08            |
| T5-50m    | 1/24/13       | 949            | 0.2                  | Ebb  | 0.09                                           | 2.8 | 0.42                                                                         | 5.9  | 0.16                                                            | 2.2 | 3.0                  | 84  | 0.49                 | 15.2 | 5.9                  | 83  | 0.02               | 35.05              | 24.8          | 8.22 | 6.44        | 0.27            |
| T5-50m    | 4/17/13       | 1104           | 0.5                  | High | 0.21                                           | 6.4 | 1.09                                                                         | 15.3 | 0.34                                                            | 4.7 | 6.1                  | 172 | 0.50                 | 15.5 | 6.3                  | 88  | 0.02               | 35.01              | 25.1          | 8.20 | 6.57        | 0.10            |
| Geomean   | '12-'13       |                |                      |      | 0.09                                           | 2.8 | 0.44                                                                         | 6.2  | 0.22                                                            | 3.1 |                      |     | 0.47                 | 14.6 | 6.0                  | 84  | 0.03               |                    |               |      |             | 0.10            |
| T5-100m   | 7/25/12       | 1005           | 1.6                  | High | 0.02                                           | 0.6 | 0.09                                                                         | 1.2  | 0.12                                                            | 1.7 | 2.0                  | 56  | 0.48                 | 14.9 | 6.0                  | 84  | 0.12               | 35.02              | 26.4          | 8.24 | 6.83        | 0.14            |
| T5-100m   | 11/28/12      | 1006           | 0.4                  | Ebb  | 0.07                                           | 2.3 | 0.03                                                                         | 0.4  | 0.16                                                            | 2.3 | 1.4                  | 39  | 0.37                 | 11.6 | 5.1                  | 71  | 0.05               | 35.29              | 25.4          | 8.21 | 6.78        | 0.19            |
| T5-100m   | 1/24/13       | 954            | 0.2                  | Ebb  | 0.10                                           | 3.0 | 0.51                                                                         | 7.2  | 0.04                                                            | 0.6 | 4.1                  | 116 | 0.47                 | 14.5 | 5.1                  | 72  | 0.03               | 35.00              | 24.8          | 8.20 | 6.25        | 0.16            |
| T5-100m   | 4/17/13       | 1108           | 0.5                  | High | 0.20                                           | 6.1 | 0.86                                                                         | 12.0 | 0.27                                                            | 3.8 | 4.9                  | 137 | 0.57                 | 17.6 | 6.2                  | 87  | 0.02               | 35.04              | 25.2          | 8.20 | 6.43        | 0.05            |
| Geomean   | '12-'13       |                |                      |      | 0.07                                           | 2.2 | 0.18                                                                         | 2.5  | 0.12                                                            | 1.7 |                      |     | 0.47                 | 14.5 | 5.6                  | 78  | 0.04               |                    |               |      |             | 0.12            |
| T5-500m   | 7/25/12       | 1014           | 1.6                  | High | 0.00                                           | 0.1 | 0.01                                                                         | 0.1  | 0.16                                                            | 2.2 | 1.5                  | 43  | 0.37                 | 11.5 | 3.97                 | 56  | 0.09               | 35.01              | 26.5          | 8.24 | 6.84        | 0.25            |
| T5-500m   | 11/28/12      | 1012           | 0.4                  | Ebb  | 0.08                                           | 2.5 | 0.03                                                                         | 0.4  | 0.11                                                            | 1.6 | 1.2                  | 32  | 0.43                 | 13.2 | 4.50                 | 63  | 0.04               | 35.28              | 25.5          | 8.21 | 6.62        | 0.08            |
| T5-500m   | 1/24/13       | 1002           | 0.2                  | Ebb  | 0.06                                           | 1.8 | 0.01                                                                         | 0.1  | 0.02                                                            | 0.3 | 1.2                  | 34  | 0.40                 | 12.5 | 4.33                 | 61  | 0.04               | 35.11              | 24.8          | 8.23 | 6.30        | 0.09            |
| T5-500m   | 4/17/13       | 1117           | 0.5                  | High | 0.16                                           | 5.1 | 0.12                                                                         | 1.7  | 0.21                                                            | 3.0 | 0.9                  | 24  | 0.55                 | 17.0 | 4.13                 | 58  | 0.05               | 35.14              | 25.3          | 8.21 | 6.50        | 0.04            |
| Geomean   | '12-'13       |                |                      |      | 0.04                                           | 1.2 | 0.02                                                                         | 0.3  | 0.10                                                            | 1.3 |                      |     | 0.43                 | 13.4 | 4.2                  | 59  | 0.05               |                    |               |      |             | 0.09            |

# NELHA Water Quality Laboratory

## Transect 5

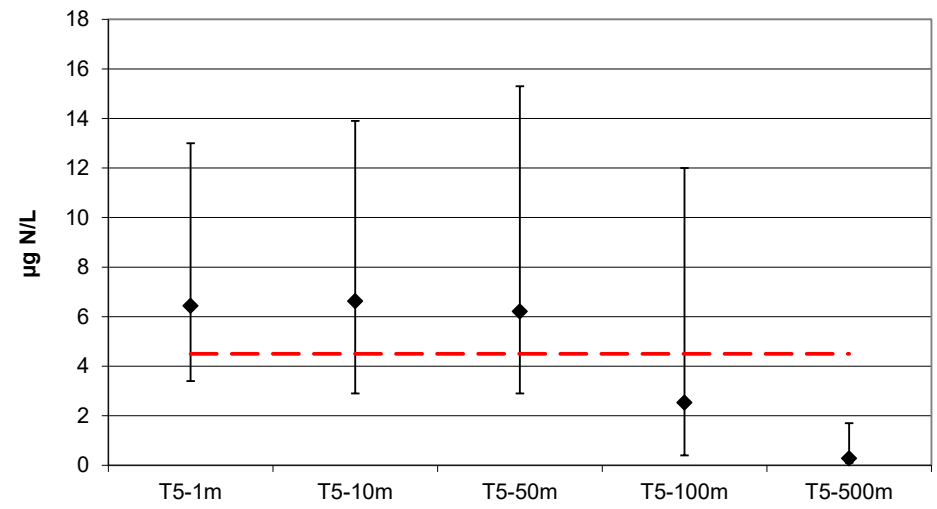
July 2012 - June 2013

**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean



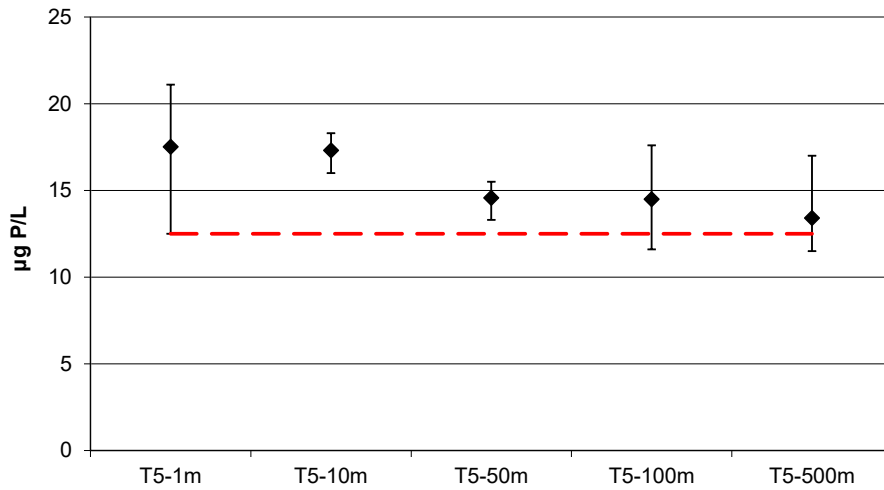
◆ Transect 5, July 2012 - June 2013      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean



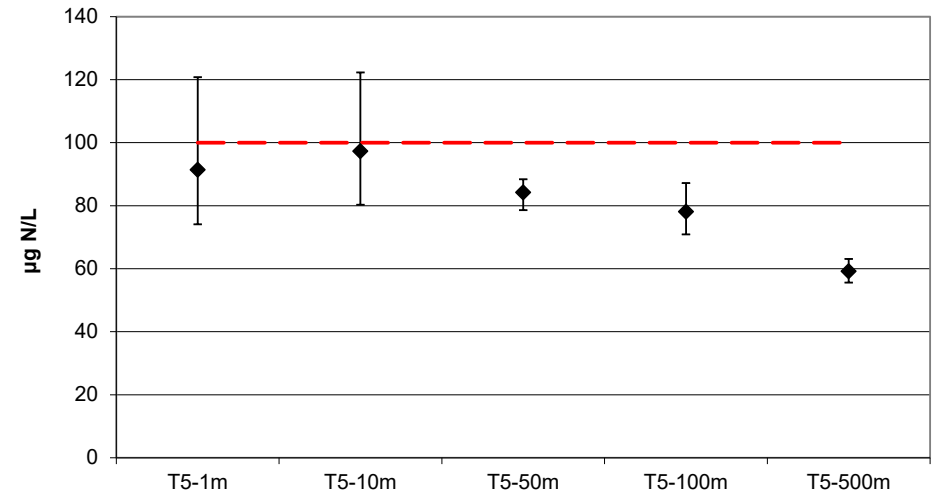
◆ Transect 5, July 2012 - June 2013      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean



◆ Transect 5, July 2012 - June 2013      - - - 2004 HDOH Class AA Water Quality Standard

**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean



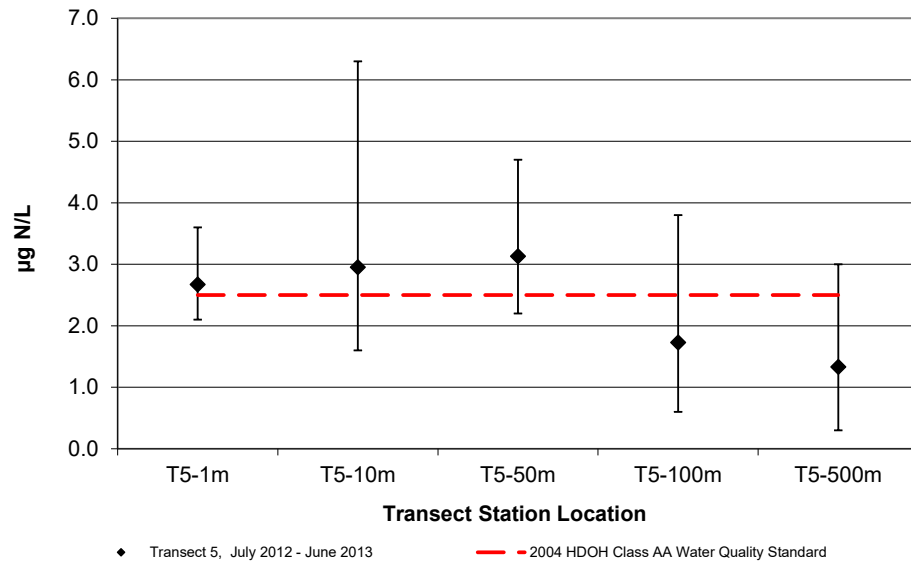
◆ Transect 5, July 2012 - June 2013      - - - 2004 HDOH Class AA Water Quality Standard

# NELHA Water Quality Laboratory

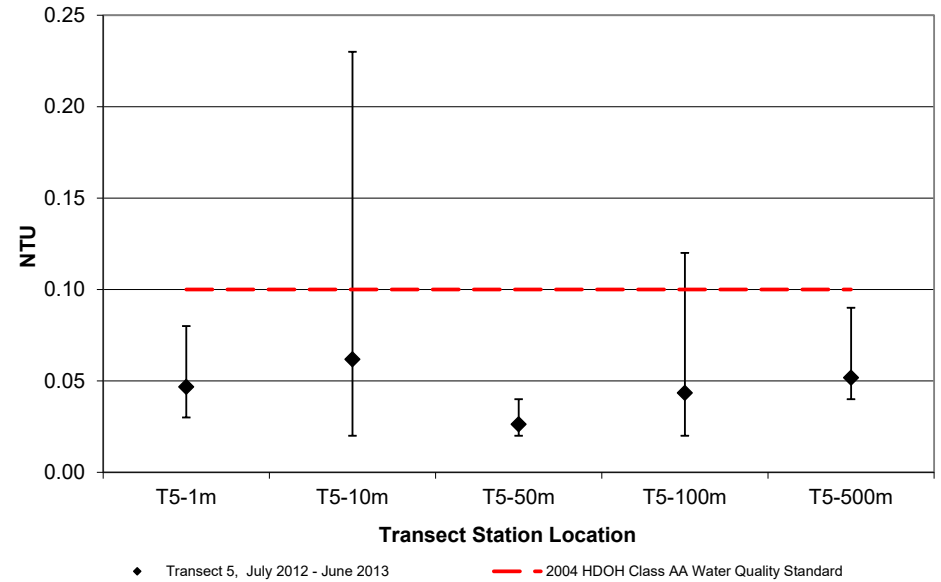
## Transect 5

July 2012 - June 2013

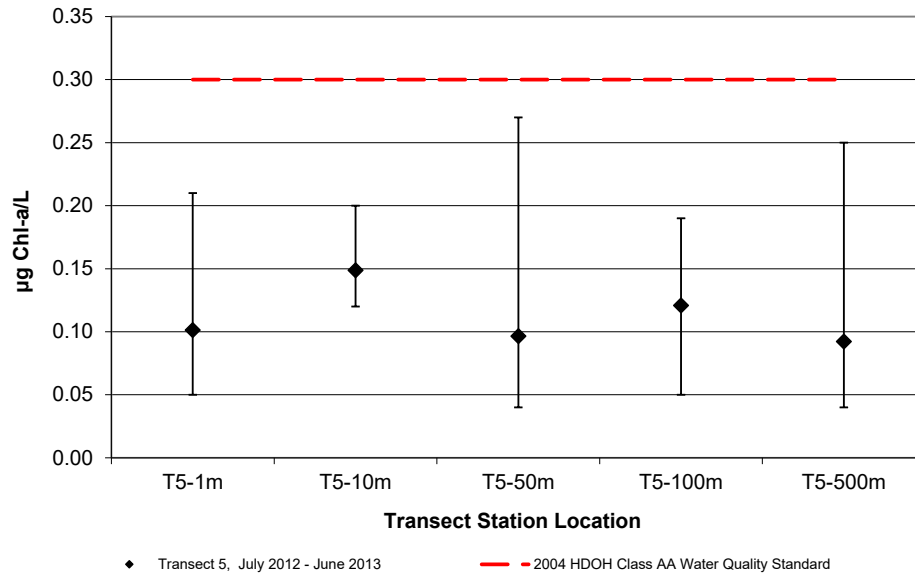
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean



**Transect 5 Station Summary**  
Turbidity Geometric Mean



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean



# NELHA Water Quality Laboratory

## Transect 5

July 2011 - June 2012

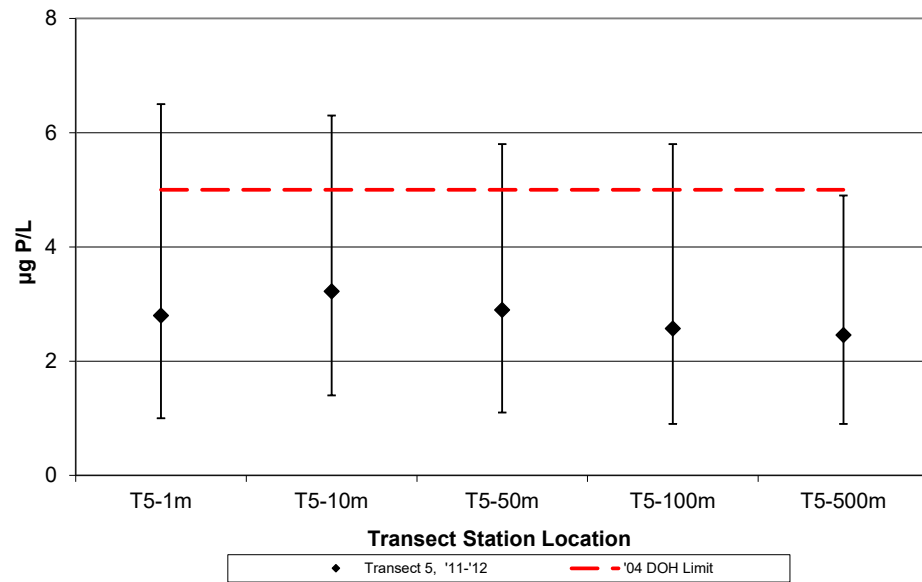
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) |       | PO <sub>4</sub> <sup>3-</sup><br>(μM) (μg P/L) |     | NO <sub>3</sub> <sup>-</sup> & NO <sub>2</sub> <sup>-</sup><br>(μM) (μg N/L) |     | NH <sub>4</sub> <sup>+</sup> & NH <sub>3</sub><br>(μM) (μg N/L) |     | Si<br>(μM) (μg Si/L) |     | TDP<br>(μM) (μg P/L) |      | TDN<br>(μM) (μg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(μg/L) |
|-----------|---------------|----------------|----------------------|-------|------------------------------------------------|-----|------------------------------------------------------------------------------|-----|-----------------------------------------------------------------|-----|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      |       | 0.16                                           | 5   | 0.32                                                                         | 4.5 | 0.18                                                            | 2.5 |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 7/27/11       | 1031           | 0.8                  | Flood | 0.19                                           | 5.9 | 0.40                                                                         | 5.6 | 0.22                                                            | 3.1 | 1.7                  | 48  | 0.54                 | 16.7 | 5.5                  | 77  | 0.13               | 34.79              | 26.0          | 8.22 | 6.47        | 0.08            |
| T5-1m     | 10/19/11      | 1009           | 1.9                  | High  | 0.03                                           | 1.0 | 0.20                                                                         | 2.8 | 0.13                                                            | 1.8 | 1.7                  | 48  | 0.36                 | 11.1 | 5.2                  | 73  | 0.04               | 35.12              | 26.5          | 8.26 | 7.26        | 0.08            |
| T5-1m     | 1/26/12       | 940            | 1.2                  | Ebb   | 0.05                                           | 1.6 | 0.18                                                                         | 2.5 | 0.01                                                            | 0.2 | 2.2                  | 62  | 0.44                 | 13.6 | 6.2                  | 87  | 0.05               | 35.01              | 24.5          | 8.20 | 6.74        | 0.10            |
| T5-1m     | 4/25/12       | 1009           | 0.1                  | Ebb   | 0.21                                           | 6.5 | 0.47                                                                         | 6.6 | 0.46                                                            | 6.4 | 2.2                  | 62  | 0.54                 | 16.8 | 8.5                  | 120 | 0.05               | 34.83              | 24.8          | 8.20 | 6.83        | 0.10            |
| Geomean   | '11-'12       |                |                      |       | 0.09                                           | 2.8 | 0.29                                                                         | 4.0 | 0.1                                                             | 1.6 |                      |     | 0.5                  | 14.3 | 6.2                  | 87  | 0.06               |                    |               |      |             | 0.09            |
| T5-10m    | 7/27/11       | 1035           | 0.8                  | Flood | 0.20                                           | 6.3 | 0.44                                                                         | 6.2 | 0.32                                                            | 4.5 | 2.0                  | 57  | 0.50                 | 15.4 | 5.4                  | 76  | 0.07               | 34.79              | 26.0          | 8.22 | 6.49        | 0.07            |
| T5-10m    | 10/19/11      | 1012           | 1.9                  | High  | 0.05                                           | 1.4 | 0.21                                                                         | 2.9 | 0.08                                                            | 1.1 | 2.2                  | 62  | 0.40                 | 12.4 | 6.7                  | 94  | 0.08               | 35.13              | 26.5          | 8.26 | 7.25        | 0.07            |
| T5-10m    | 1/26/12       | 944            | 1.2                  | Ebb   | 0.07                                           | 2.3 | 0.23                                                                         | 3.2 | 0.11                                                            | 1.5 | 2.6                  | 73  | 0.61                 | 18.8 | 6.8                  | 95  | 0.09               | 35.01              | 24.5          | 8.18 | 6.74        | 0.12            |
| T5-10m    | 4/25/12       | 1011           | 0.1                  | Ebb   | 0.17                                           | 5.3 | 0.46                                                                         | 6.5 | 0.34                                                            | 4.8 | 1.9                  | 53  | 0.46                 | 14.4 | 7.5                  | 105 | 0.06               | 34.84              | 24.8          | 8.20 | 6.84        | 0.17            |
| Geomean   | '11-'12       |                |                      |       | 0.10                                           | 3.2 | 0.31                                                                         | 4.4 | 0.17                                                            | 2.4 |                      |     | 0.49                 | 15.1 | 6.6                  | 92  | 0.07               |                    |               |      |             | 0.10            |
| T5-50m    | 7/27/11       | 1039           | 0.8                  | Flood | 0.19                                           | 5.8 | 0.48                                                                         | 6.7 | 0.18                                                            | 2.5 | 3.1                  | 87  | 0.50                 | 15.4 | 5.0                  | 70  | 0.05               | 34.75              | 26.1          | 8.22 | 6.40        | 0.08            |
| T5-50m    | 10/19/11      | 1019           | 1.9                  | High  | 0.04                                           | 1.1 | 0.16                                                                         | 2.3 | 0.08                                                            | 1.1 | 2.4                  | 67  | 0.37                 | 11.4 | 4.9                  | 68  | 0.06               | 35.11              | 26.5          | 8.27 | 7.20        | 0.07            |
| T5-50m    | 1/26/12       | 947            | 1.2                  | Ebb   | 0.07                                           | 2.2 | 0.25                                                                         | 3.5 | 0.04                                                            | 0.6 | 3.5                  | 98  | 0.37                 | 11.6 | 3.8                  | 53  | 0.08               | 34.99              | 24.4          | 8.18 | 6.66        | 0.14            |
| T5-50m    | 4/25/12       | 1014           | 0.1                  | Ebb   | 0.16                                           | 5.0 | 0.14                                                                         | 1.9 | 0.39                                                            | 5.4 | 4.2                  | 119 | 0.52                 | 16.2 | 11.1                 | 156 | 0.07               | 34.81              | 24.9          | 8.20 | 6.77        | 0.04            |
| Geomean   | '11-'12       |                |                      |       | 0.09                                           | 2.9 | 0.23                                                                         | 3.2 | 0.12                                                            | 1.7 |                      |     | 0.44                 | 13.5 | 5.6                  | 79  | 0.06               |                    |               |      |             | 0.07            |
| T5-100m   | 7/27/11       | 1045           | 0.9                  | Flood | 0.19                                           | 5.8 | 0.39                                                                         | 5.4 | 0.15                                                            | 2.1 | 3.4                  | 95  | 0.49                 | 15.1 | 3.9                  | 55  | 0.10               | 34.76              | 26.1          | 8.22 | 6.33        | 0.09            |
| T5-100m   | 10/19/11      | 1024           | 1.8                  | Ebb   | 0.03                                           | 0.9 | 0.02                                                                         | 0.3 | 0.01                                                            | 0.1 | 2.7                  | 76  | 0.42                 | 13.1 | 5.1                  | 72  | 0.08               | 35.12              | 26.4          | 8.26 | 7.04        | 0.09            |
| T5-100m   | 1/26/12       | 951            | 1.2                  | Ebb   | 0.06                                           | 1.9 | 0.12                                                                         | 1.7 | 0.06                                                            | 0.8 | 2.4                  | 68  | 0.41                 | 12.6 | 4.9                  | 69  | 0.06               | 35.02              | 24.5          | 8.19 | 6.56        | 0.07            |
| T5-100m   | 4/25/12       | 1017           | 0.1                  | Ebb   | 0.14                                           | 4.4 | 0.08                                                                         | 1.1 | 0.22                                                            | 3.1 | 0.8                  | 23  | 0.56                 | 17.5 | 7.1                  | 99  | 0.05               | 34.85              | 24.9          | 8.19 | 6.64        | 0.06            |
| Geomean   | '11-'12       |                |                      |       | 0.08                                           | 2.6 | 0.09                                                                         | 1.3 | 0.06                                                            | 0.8 |                      |     | 0.47                 | 14.5 | 5.1                  | 72  | 0.07               |                    |               |      |             | 0.08            |
| T5-500m   | 7/27/11       | 1052           | 0.9                  | Flood | 0.16                                           | 4.9 | 0.04                                                                         | 0.6 | 0.06                                                            | 0.9 | 0.4                  | 10  | 0.47                 | 14.7 | 2.72                 | 38  | 0.03               | 34.84              | 26.1          | 8.23 | 6.32        | 0.20            |
| T5-500m   | 10/19/11      | 1032           | 1.8                  | Ebb   | 0.03                                           | 0.9 | 0.09                                                                         | 1.2 | 0.04                                                            | 0.5 | 3.5                  | 99  | 0.35                 | 10.9 | 3.73                 | 52  | 0.05               | 35.10              | 26.7          | 8.26 | 7.05        | 0.19            |
| T5-500m   | 1/26/12       | 958            | 1.2                  | Ebb   | 0.06                                           | 1.8 | 0.01                                                                         | 0.1 | 0.01                                                            | 0.2 | 1.4                  | 39  | 0.34                 | 10.5 | 3.53                 | 49  | 0.07               | 35.05              | 24.5          | 8.20 | 6.63        | 0.09            |
| T5-500m   | 4/25/12       | 1021           | 0.1                  | Ebb   | 0.15                                           | 4.6 | 0.15                                                                         | 2.1 | 0.26                                                            | 3.6 | 1.9                  | 53  | 0.48                 | 15.0 | 7.38                 | 103 | 0.04               | 34.84              | 24.9          | 8.20 | 6.72        | 0.08            |
| Geomean   | '11-'12       |                |                      |       | 0.08                                           | 2.5 | 0.04                                                                         | 0.6 | 0.05                                                            | 0.8 |                      |     | 0.41                 | 12.6 | 4.0                  | 56  | 0.05               |                    |               |      |             | 0.13            |

# NELHA Water Quality Laboratory

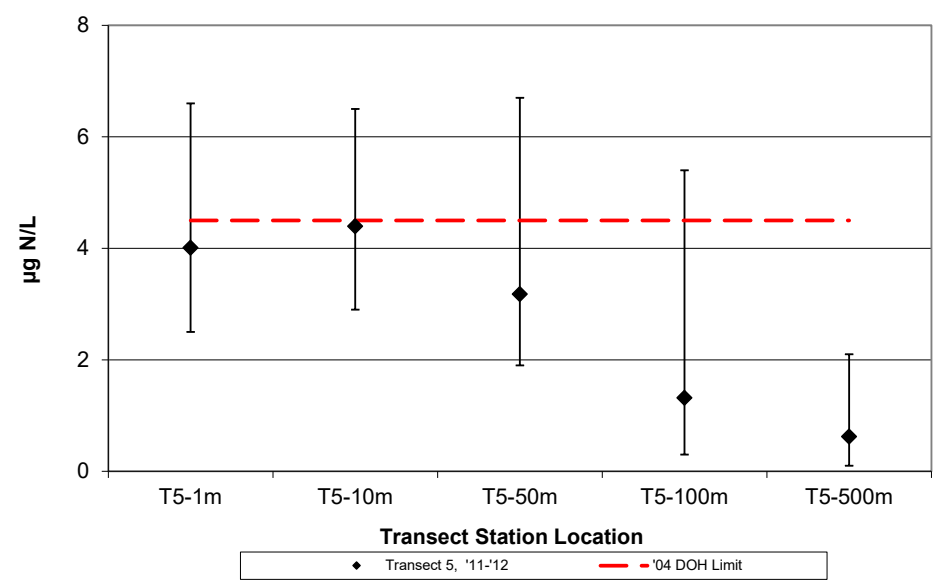
## Transect 5

July 2011 - June 2012

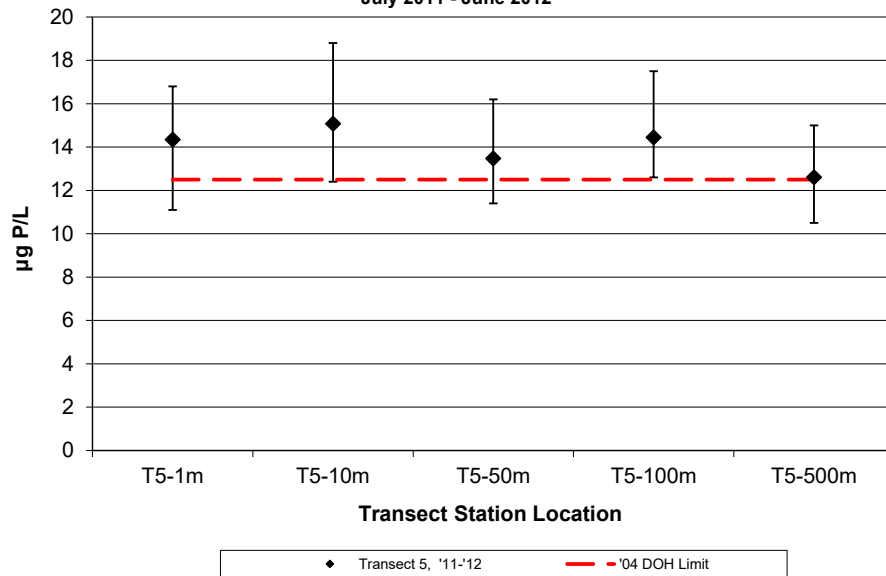
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean, July 2011 - June 2012



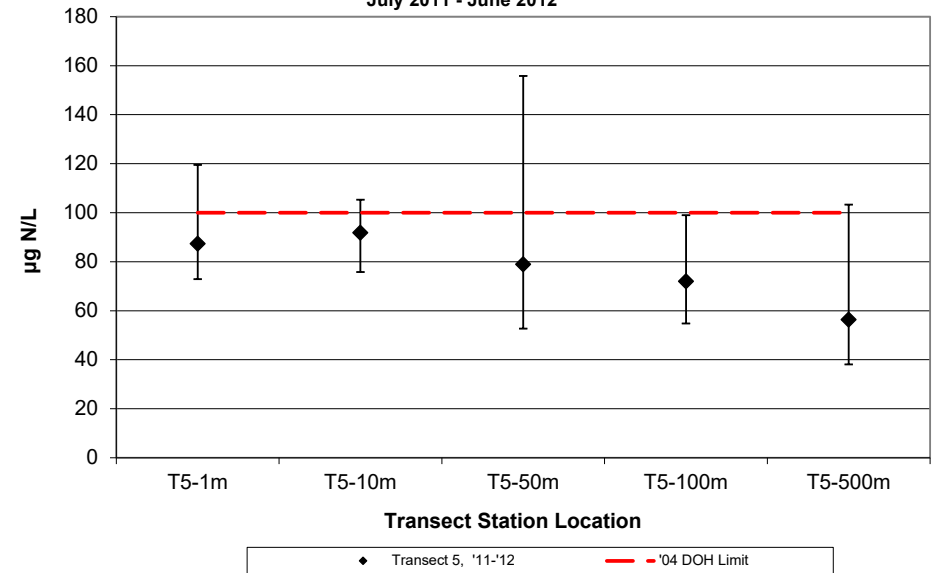
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean, July 2011 - June 2012



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean  
July 2011 - June 2012



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean  
July 2011 - June 2012

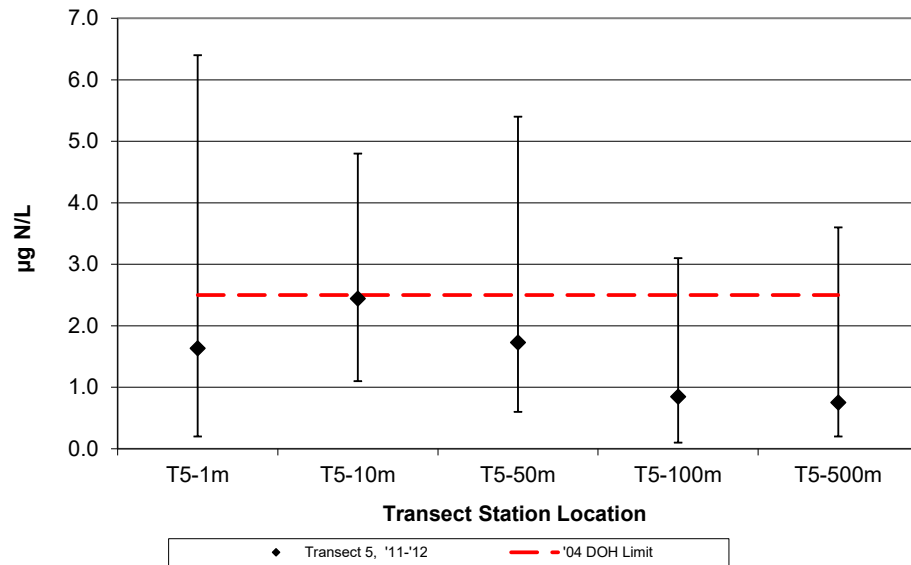


# NELHA Water Quality Laboratory

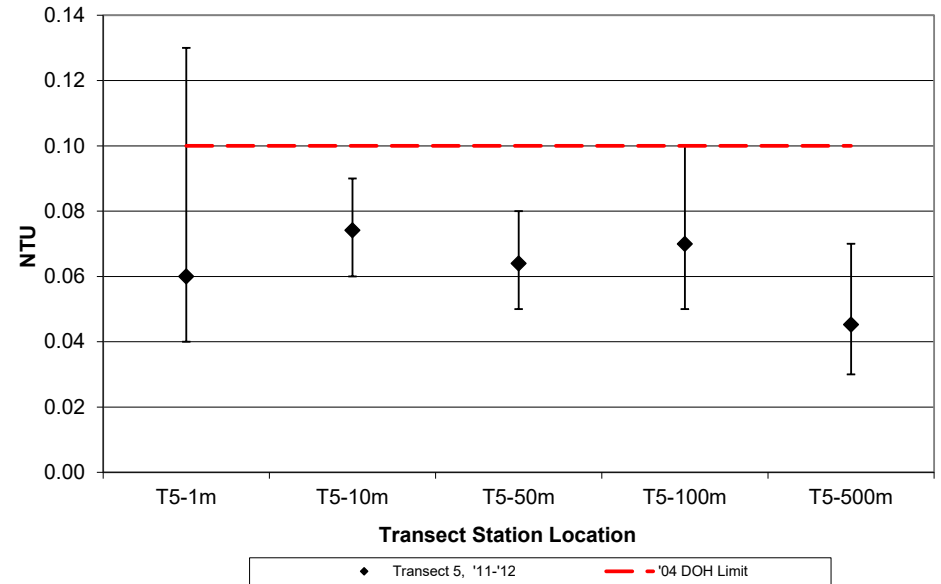
## Transect 5

July 2011 - June 2012

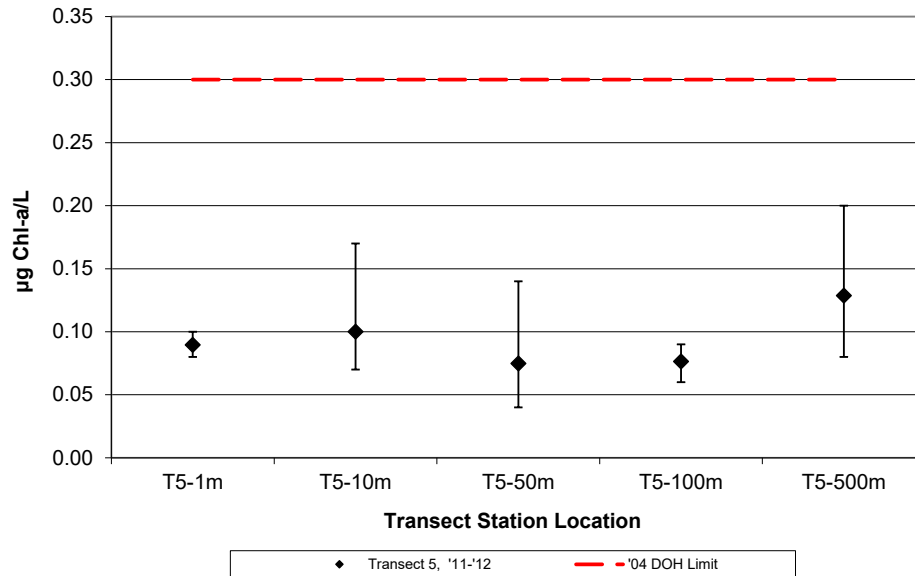
**Transect 5 Station Summary**  
Total Ammonia Geometric Mean, July 2011 - June 2012



**Transect 5 Station Summary**  
Turbidity Geometric Mean, July 2011 - June 2012



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean, July 2011 - June 2012



# NELHA Water Quality Laboratory

## Transect 5

July 2010 - June 2011

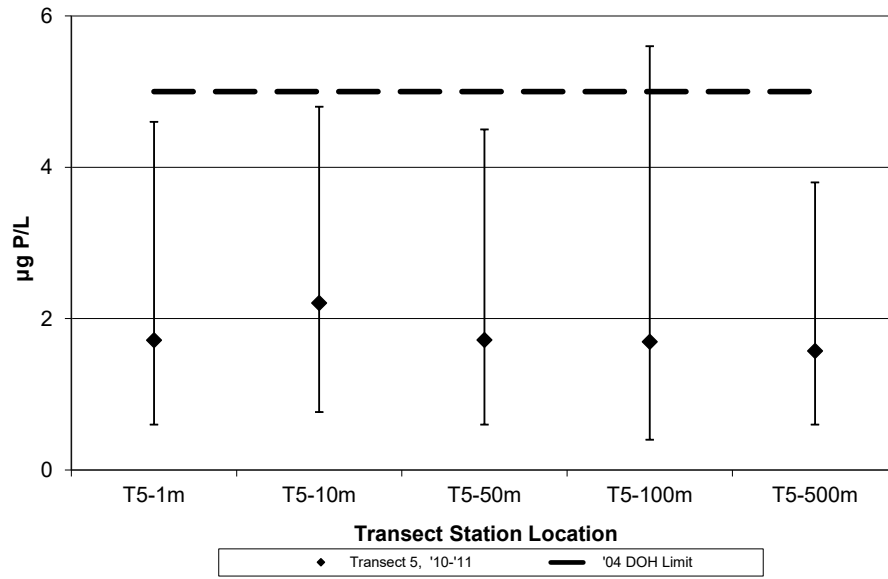
| SITE ID                | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) | PO4<br>(µM) (µg P/L) | NO3+NO2<br>(µM) (µg N/L) | NH3<br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | TDP<br>(µM) (µg P/L) | TDN<br>(µM) (µg N/L) | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(µg/L) |
|------------------------|---------------|----------------|----------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|---------------|------|-------------|-----------------|
| <b>DOH LIMIT</b>       |               |                |                      | 0.16 <b>5</b>        | 0.32 <b>4.5</b>          | 0.18 <b>2.5</b>      |                      | 0.40 <b>12.5</b>     | 7.1 <b>100</b>       | <b>0.10</b>        |                    |               |      |             | <b>0.3</b>      |
| T5-1m                  | 08/11/10      | 943            | 0.3 Ebb              | 0.02   0.6           | 0.57   8.0               | 0.22   3.1           | 3.8   108            | 0.36   11.3          | 4.1   57             | 0.06               | 34.94              | 26.0          | 8.23 | 6.69        | 0.08            |
| T5-1m                  | 11/09/10      | 941            | 1.6 Ebb              | 0.02   0.8           | 0.20   2.8               | 0.16   2.3           | 12.0   336           | 0.33   10.3          | 5.1   72             | 0.07               | 34.91              | 26.3          | 8.26 | 6.42        | 0.08            |
| T5-1m                  | 01/11/11      | 1204           | 0.7 Ebb              | 0.15   4.6           | 0.44   6.2               | 0.14   1.9           | 10.9   305           | 0.44   13.7          | 3.9   55             | 0.05               | 35.01              | 25.1          | 8.21 | 6.65        | 0.09            |
| T5-1m                  | 4/27/11       | 948            | 0.3 Flood            | 0.13   4.1           | 0.66   9.2               | 0.24   3.3           | 4.6   130            | 0.47   14.6          | 4.3   61             | 0.08               | 34.82              | 24.9          | 8.23 | 6.47        | 0.12            |
| <b>Geomean '10-'11</b> |               |                |                      | 0.06 <b>1.7</b>      | 0.43 <b>6.0</b>          | 0.2 <b>2.6</b>       |                      | 0.4 <b>12.4</b>      | 4.3 <b>61</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.09</b>     |
| T5-10m                 | 08/11/10      | 942            | 0.3 Ebb              | 0.05   1.4           | 0.53   7.4               | 0.28   3.9           | 3.0   85             | 0.32   9.9           | 3.5   50             | 0.07               | 34.94              | 26.0          | 8.23 | 6.70        | 0.07            |
| T5-10m                 | 11/09/10      | 944            | 1.6 Ebb              | 0.02   0.8           | 0.16   2.2               | 0.06   0.9           | 14.9   420           | 0.23   7             | 4.3   60             | 0.10               | 34.90              | 26.2          | 8.26 | 6.46        | 0.09            |
| T5-10m                 | 01/11/11      | 1208           | 0.7 Ebb              | 0.15   4.8           | 0.41   5.7               | 0.37   5.2           | 4.5   126            | 0.43   13.2          | 3.6   51             | 0.03               | 35.02              | 25.1          | 8.21 | 6.62        | 0.13            |
| T5-10m                 | 4/27/11       | 952            | 0.4 Flood            | 0.15   4.6           | 0.56   7.9               | 0.30   4.2           | 4.1   115            | 0.44   13.5          | 4.6   64             | 0.08               | 34.85              | 24.9          | 8.23 | 6.41        | 0.11            |
| <b>Geomean '10-'11</b> |               |                |                      | 0.07 <b>2.2</b>      | 0.37 <b>5.2</b>          | 0.21 <b>3.0</b>      |                      | 0.34 <b>10.5</b>     | 4.0 <b>56</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.10</b>     |
| T5-50m                 | 08/11/10      | 950            | 0.2 Ebb              | 0.02   0.6           | 0.09   1.2               | 0.02   0.3           | 1.8   50             | 0.29   8.9           | 2.9   41             | 0.05               | 34.93              | 26.1          | 8.24 | 6.83        | 0.13            |
| T5-50m                 | 11/09/10      | 948            | 1.5 Ebb              | 0.02   0.8           | 0.19   2.6               | 0.74   10.3          | 5.6   158            | 0.37   11.5          | 4.0   57             | 0.10               | 34.91              | 26.3          | 8.29 | 6.36        | 0.05            |
| T5-50m                 | 01/11/11      | 1216           | 0.6 Ebb              | 0.15   4.5           | 0.41   5.7               | 0.16   2.3           | 6.3   177            | 0.42   12.9          | 3.7   51             | 0.05               | 35.01              | 25.1          | 8.20 | 6.54        | 0.09            |
| T5-50m                 | 4/27/11       | 956            | 0.4 Flood            | 0.14   4.2           | 0.36   5.1               | 0.27   3.8           | 6.0   169            | 0.45   13.8          | 4.0   57             | 0.08               | 34.87              | 24.9          | 8.23 | 6.37        | 0.12            |
| <b>Geomean '10-'11</b> |               |                |                      | 0.06 <b>1.7</b>      | 0.22 <b>3.1</b>          | 0.16 <b>2.3</b>      |                      | 0.38 <b>11.6</b>     | 3.6 <b>51</b>        | <b>0.07</b>        |                    |               |      |             | <b>0.09</b>     |
| T5-100m                | 08/11/10      | 955            | 0.2 Ebb              | 0.01   0.4           | 0.06   0.9               | 0.01   0.2           | 1.6   46             | 0.29   9.1           | 2.8   39             | 0.05               | 34.97              | 26.0          | 8.23 | 6.70        | 0.13            |
| T5-100m                | 11/09/10      | 952            | 1.5 Ebb              | 0.02   0.8           | 0.19   2.6               | 0.11   1.6           | 8.9   250            | 0.33   10.3          | 4.2   60             | 0.09               | 34.95              | 26.5          | 8.29 | 6.25        | 0.03            |
| T5-100m                | 01/11/11      | 1225           | 0.6 Ebb              | 0.18   5.6           | 1.45   20.3              | 0.29   4.0           | 10.2   286           | 0.43   13.4          | 3.9   55             | 0.04               | 34.66              | 25.1          | 8.18 | 6.57        | 0.08            |
| T5-100m                | 4/27/11       | 1001           | 0.4 Flood            | 0.15   4.8           | 0.46   6.5               | 0.25   3.5           | 6.2   175            | 0.51   15.8          | 4.0   57             | 0.09               | 34.86              | 25.1          | 8.22 | 6.23        | 0.10            |
| <b>Geomean '10-'11</b> |               |                |                      | 0.05 <b>1.7</b>      | 0.30 <b>4.2</b>          | 0.10 <b>1.5</b>      |                      | 0.38 <b>11.9</b>     | 3.7 <b>52</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.07</b>     |
| T5-500m                | 08/11/10      | 1003           | 0.1 Ebb              | 0.02   0.6           | 0.02   0.3               | 0.01   0.1           | 1.9   53             | 0.30   9.4           | 2.72   38            | 0.04               | 34.98              | 26.1          | 8.24 | 6.61        | 0.09            |
| T5-500m                | 11/09/10      | 1001           | 1.4 Ebb              | 0.02   0.8           | 0.01   0.2               | 0.03   0.4           | 7.3   205            | 0.37   11.6          | 4.08   57            | 0.08               | 34.94              | 26.5          | 8.29 | 6.20        | 0.08            |
| T5-500m                | 01/11/11      | 1234           | 0.6 Ebb              | 0.11   3.5           | 0.06   0.8               | 0.11   1.6           | 0.8   23             | 0.41   12.7          | 2.91   41            | 0.09               | 35.06              | 25.0          | 8.19 | 6.40        | 0.07            |
| T5-500m                | 4/27/11       | 1007           | 0.5 Flood            | 0.12   3.8           | 0.29   4.0               | 0.26   3.7           | 4.1   116            | 0.46   14.3          | 3.56   50            | 0.06               | 34.87              | 25.0          | 8.22 | 6.16        | 0.18            |
| <b>Geomean '10-'11</b> |               |                |                      | 0.05 <b>1.6</b>      | 0.05 <b>0.7</b>          | 0.05 <b>0.7</b>      |                      | 0.38 <b>11.9</b>     | 3.3 <b>46</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.10</b>     |

# NELHA Water Quality Laboratory

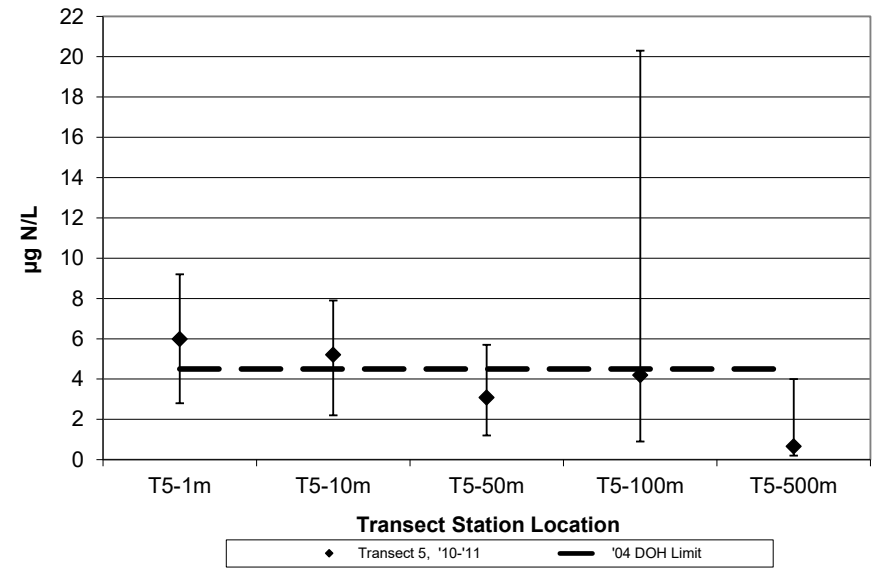
## Transect 5

July 2010 - June 2011

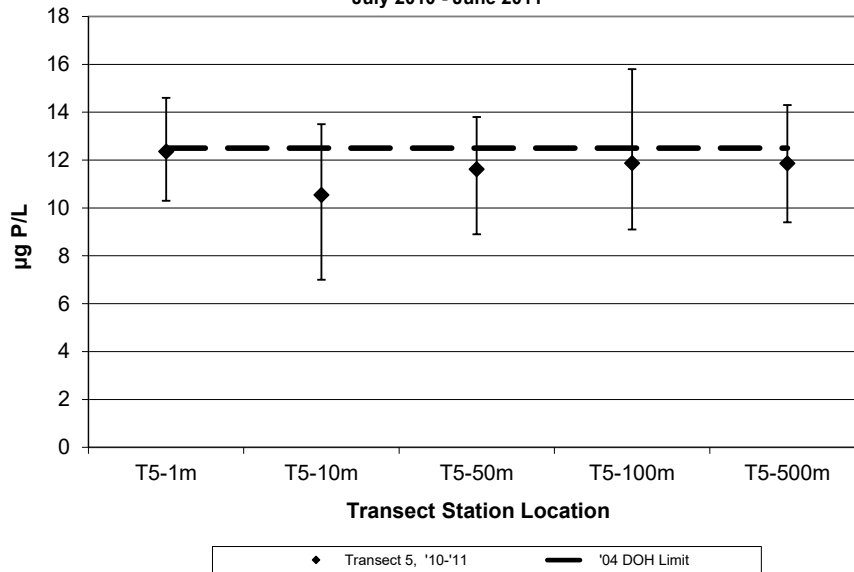
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean, July 2010 - June 2011



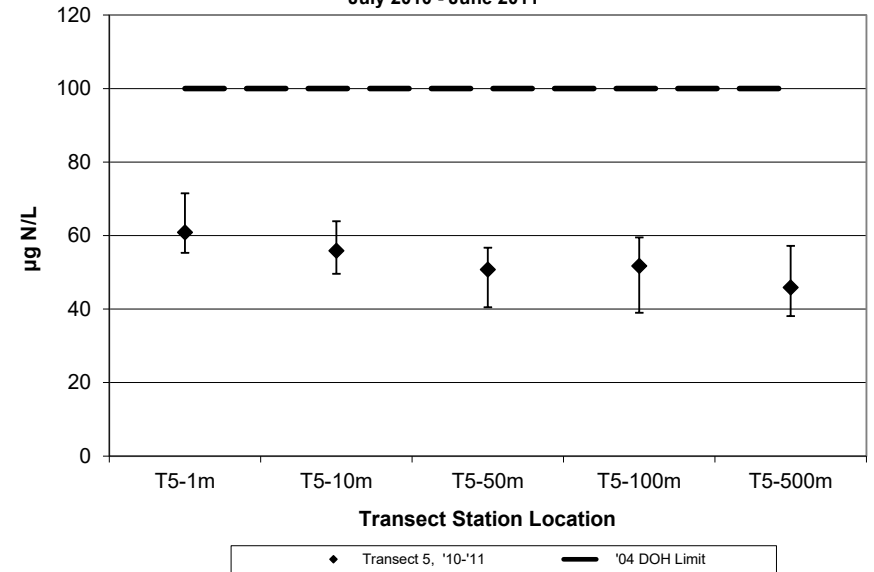
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean, July 2010 - June 2011



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean  
July 2010 - June 2011



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean  
July 2010 - June 2011

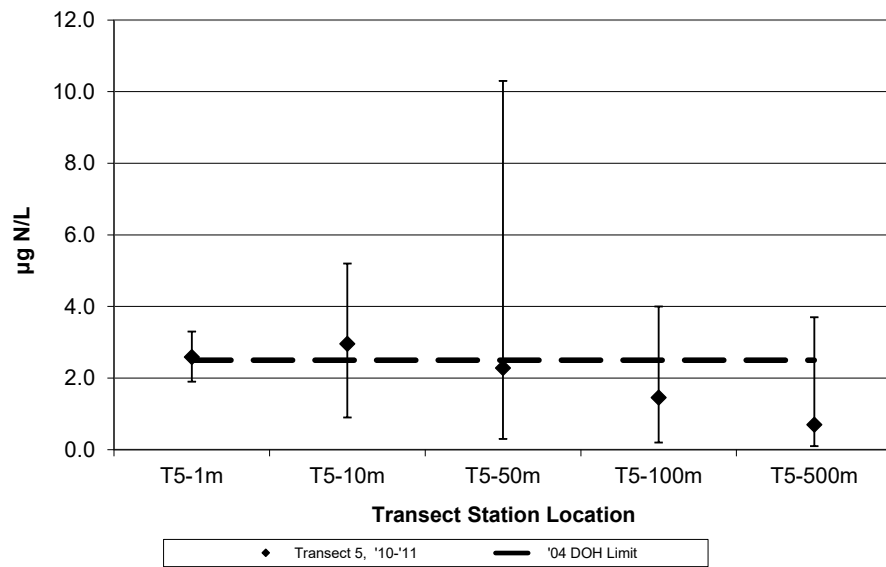


# NELHA Water Quality Laboratory

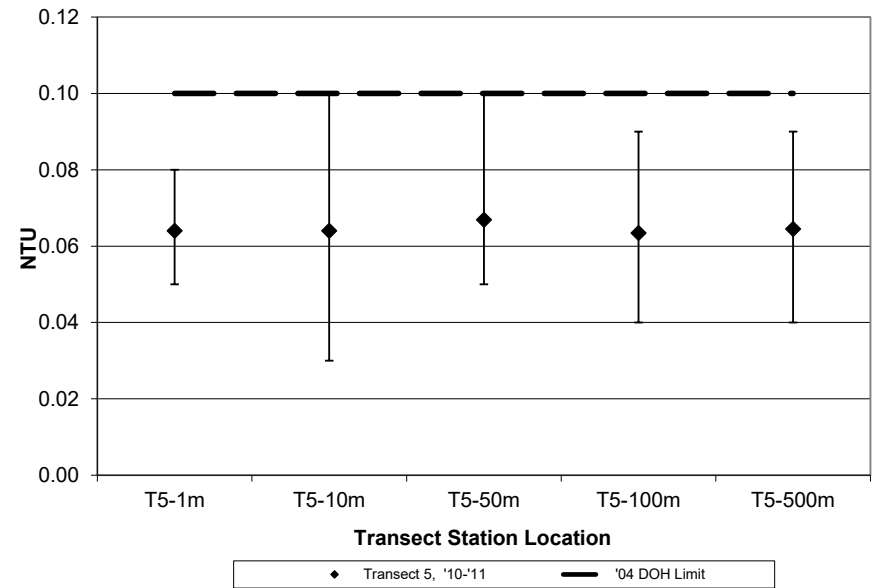
Transect 5

July 2010 - June 2011

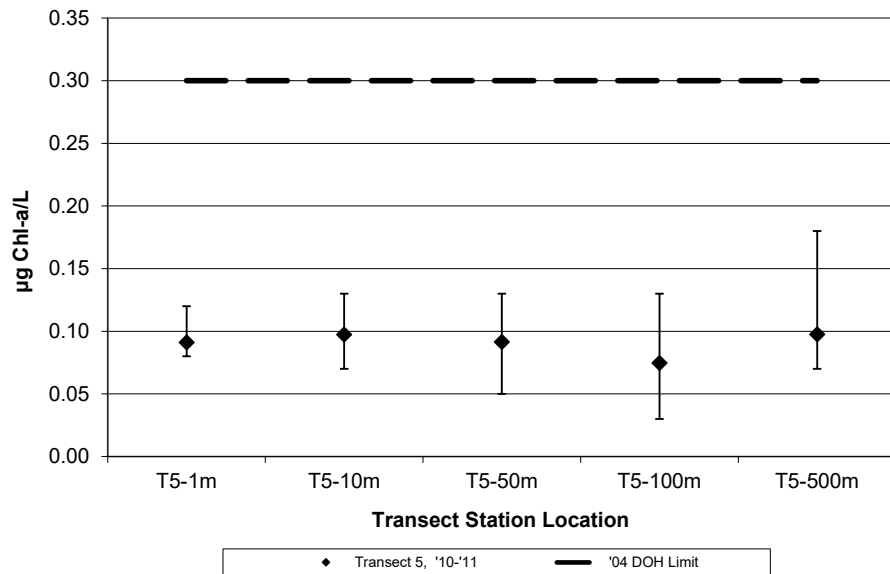
**Transect 5 Station Summary**  
Ammonia Geometric Mean, July 2010 - June 2011



**Transect 5 Station Summary**  
Turbidity Geometric Mean, July 2010 - June 2011



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean, July 2010 - June 2011



# NELHA Water Quality Laboratory

## Transect 5

July 2009 - June 2010

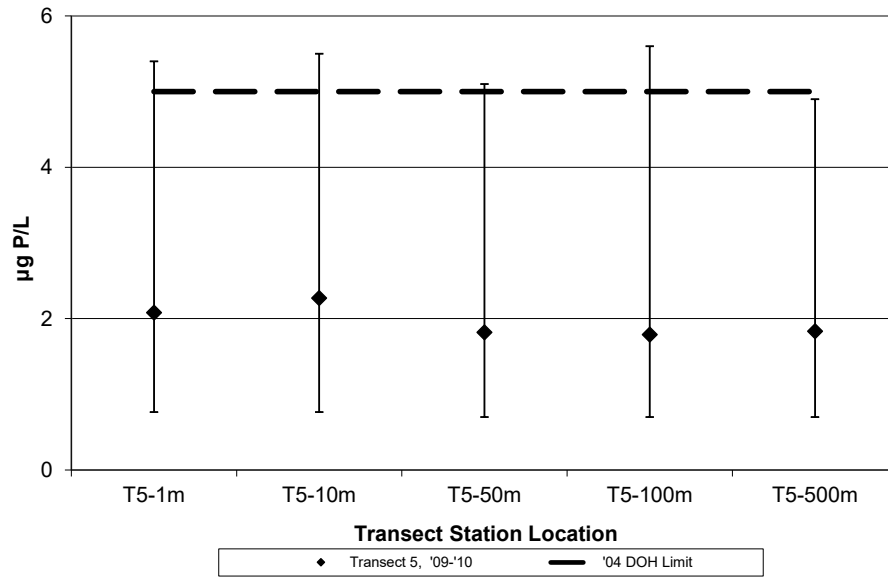
| SITE ID                | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) | PO4<br>(µM) (µg P/L) | NO3+NO2<br>(µM) (µg N/L) | NH3<br>(µM) (µg N/L) | Si<br>(µM) (µg Si/L) | TDP<br>(µM) (µg P/L) | TDN<br>(µM) (µg N/L) | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(µg/L) |
|------------------------|---------------|----------------|----------------------|----------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|--------------------|--------------------|---------------|------|-------------|-----------------|
| <b>DOH LIMIT</b>       |               |                |                      | 0.16 <b>5</b>        | 0.32 <b>4.5</b>          | 0.18 <b>2.5</b>      |                      | 0.40 <b>12.5</b>     | 7.1 <b>100</b>       | <b>0.10</b>        |                    |               |      |             | <b>0.3</b>      |
| T5-1m                  | 09/10/09      | 956            | 2.0 Ebb              | 0.15   4.5           | 0.20   2.8               | 0.03   0.4           | 44.8   1259          | 0.52   16.0          | 5.9   83             | 0.05               | 35.26              | 27.3          | 8.23 | 5.56        | 0.09            |
| T5-1m                  | 11/24/09      | 931            | 1.7 High             | 0.02   0.8           | 0.20   2.8               | 0.16   2.3           | 12.0   336           | 0.33   10.3          | 5.1   72             | 0.03               | 35.27              | 25.2          | 8.26 | 6.54        | 0.13            |
| T5-1m                  | 02/24/10      | 1009           | 0.2 Flood            | 0.17   5.4           | 1.04   14.6              | 0.28   3.9           | 8.2   231            | 0.29   9.1           | 6.4   89             | 0.07               | 35.09              | 24.6          | 8.22 | 5.50        | 0.39            |
| T5-1m                  | 5/25/10       | 924            | 0.0 Flood            | 0.03   1.0           | 0.34   4.7               | 0.20   2.8           | 3.1   88             | 0.29   9.1           | 7.4   104            | 0.06               | 34.73              | 25.2          | 8.27 | 6.72        | 0.06            |
| <b>Geomean '09-'10</b> |               |                |                      | 0.07 <b>2.1</b>      | 0.34 <b>4.8</b>          | 0.1 <b>1.8</b>       |                      | 0.3 <b>10.8</b>      | 6.1 <b>86</b>        | <b>0.05</b>        |                    |               |      |             | <b>0.13</b>     |
| T5-10m                 | 09/10/09      | 1003           | 2.0 Ebb              | 0.15   4.5           | 0.19   2.6               | 0.92   12.9          | 43.6   1223          | 0.26   8             | 4.7   67             | 0.09               | 35.27              | 27.3          | 8.24 | 5.71        | 0.15            |
| T5-10m                 | 11/24/09      | 937            | 1.7 High             | 0.02   0.8           | 0.16   2.2               | 0.06   0.9           | 14.9   420           | 0.23   7             | 4.3   60             | 0.04               | 35.27              | 25.2          | 8.25 | 6.47        | 0.12            |
| T5-10m                 | 02/24/10      | 1013           | 0.3 Flood            | 0.18   5.5           | 1.09   15.2              | 0.38   5.3           | 8.4   236            | 0.38   11.7          | 5.4   76             | 0.07               | 35.09              | 24.6          | 8.23 | 5.51        | 0.38            |
| T5-10m                 | 5/25/10       | 928            | 0.0 Flood            | 0.05   1.4           | 0.43   6.0               | 0.15   2.1           | 4.0   111            | 0.19   5.8           | 4.4   61             | 0.05               | 34.77              | 25.2          | 8.28 | 6.67        | 0.07            |
| <b>Geomean '09-'10</b> |               |                |                      | 0.07 <b>2.3</b>      | 0.34 <b>4.8</b>          | 0.24 <b>3.4</b>      |                      | 0.25 <b>7.9</b>      | 4.7 <b>66</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.15</b>     |
| T5-50m                 | 09/10/09      | 1013           | 1.9 Ebb              | 0.13   4.0           | 0.16   2.2               | 1.50   21.0          | 34.4   966           | 0.69   21.4          | 7.3   103            | 0.07               | 35.24              | 27.3          | 8.21 | 5.92        | 0.28            |
| T5-50m                 | 11/24/09      | 943            | 1.7 High             | 0.02   0.8           | 0.19   2.6               | 0.74   10.3          | 5.6   158            | 0.37   11.5          | 4.0   57             | 0.03               | 35.26              | 25.2          | 8.24 | 6.46        | 0.12            |
| T5-50m                 | 02/24/10      | 1016           | 0.3 Flood            | 0.16   5.1           | 1.02   14.3              | 0.36   5.0           | 9.2   259            | 0.46   14.1          | 8.7   122            | 0.09               | 35.12              | 24.7          | 8.23 | 5.46        | 0.58            |
| T5-50m                 | 5/25/10       | 933            | 0.0 Flood            | 0.02   0.7           | 0.06   0.8               | 0.28   3.9           | 2.9   82             | 0.23   7.1           | 3.6   50             | 0.04               | 34.79              | 25.2          | 8.25 | 6.64        | 0.06            |
| <b>Geomean '09-'10</b> |               |                |                      | 0.06 <b>1.8</b>      | 0.20 <b>2.8</b>          | 0.58 <b>8.1</b>      |                      | 0.40 <b>12.5</b>     | 5.5 <b>77</b>        | <b>0.05</b>        |                    |               |      |             | <b>0.18</b>     |
| T5-100m                | 09/10/09      | 1022           | 1.9 Ebb              | 0.11   3.4           | 0.07   1.0               | 0.13   1.8           | 4.2   119            | 0.50   15.5          | 5.3   74             | 0.06               | 35.24              | 27.4          | 8.21 | 5.56        | 0.29            |
| T5-100m                | 11/24/09      | 948            | 1.7 High             | 0.02   0.8           | 0.19   2.6               | 0.11   1.6           | 8.9   250            | 0.33   10.3          | 4.2   60             | 0.04               | 35.27              | 25.2          | 8.24 | 6.51        | 0.10            |
| T5-100m                | 02/24/10      | 1021           | 0.3 Flood            | 0.18   5.6           | 0.82   11.5              | 0.30   4.2           | 7.2   202            | 0.45   13.9          | 8.4   117            | 0.11               | 35.11              | 24.7          | 8.22 | 5.44        | 0.49            |
| T5-100m                | 5/25/10       | 938            | 0.0 Flood            | 0.02   0.7           | 0.06   0.9               | 0.51   7.2           | 1.8   51             | 0.24   7.3           | 5.2   74             | 0.06               | 34.80              | 25.2          | 8.27 | 6.67        | 0.02            |
| <b>Geomean '09-'10</b> |               |                |                      | 0.06 <b>1.8</b>      | 0.16 <b>2.3</b>          | 0.22 <b>3.1</b>      |                      | 0.36 <b>11.3</b>     | 5.6 <b>79</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.13</b>     |
| T5-500m                | 09/10/09      | 1032           | 1.8 Ebb              | 0.16   4.9           | 0.16   2.2               | 0.21   2.9           | 12.2   344           | 0.70   21.8          | 5.68   80            | 0.12               | 35.25              | 27.5          | 8.20 | 5.31        | 0.29            |
| T5-500m                | 11/24/09      | 955            | 1.7 High             | 0.02   0.8           | 0.01   0.2               | 0.03   0.4           | 7.3   205            | 0.37   11.6          | 4.08   57            | 0.05               | 35.27              | 25.2          | 8.23 | 6.43        | 0.13            |
| T5-500m                | 02/24/10      | 1028           | 0.3 Flood            | 0.14   4.3           | 1.10   15.4              | 0.32   4.5           | 10.0   280           | 0.42   12.9          | 6.75   95            | 0.07               | 35.15              | 24.6          | 8.22 | 5.50        | 0.34            |
| T5-500m                | 5/25/10       | 946            | 0.1 Flood            | 0.02   0.7           | 0.03   0.4               | 0.37   5.2           | 1.6   44             | 0.29   9.1           | 5.82   82            | 0.04               | 34.82              | 25.3          | 8.28 | 6.67        | 0.06            |
| <b>Geomean '09-'10</b> |               |                |                      | 0.06 <b>1.8</b>      | 0.09 <b>1.3</b>          | 0.16 <b>2.3</b>      |                      | 0.42 <b>13.1</b>     | 5.5 <b>77</b>        | <b>0.06</b>        |                    |               |      |             | <b>0.17</b>     |

# NELHA Water Quality Laboratory

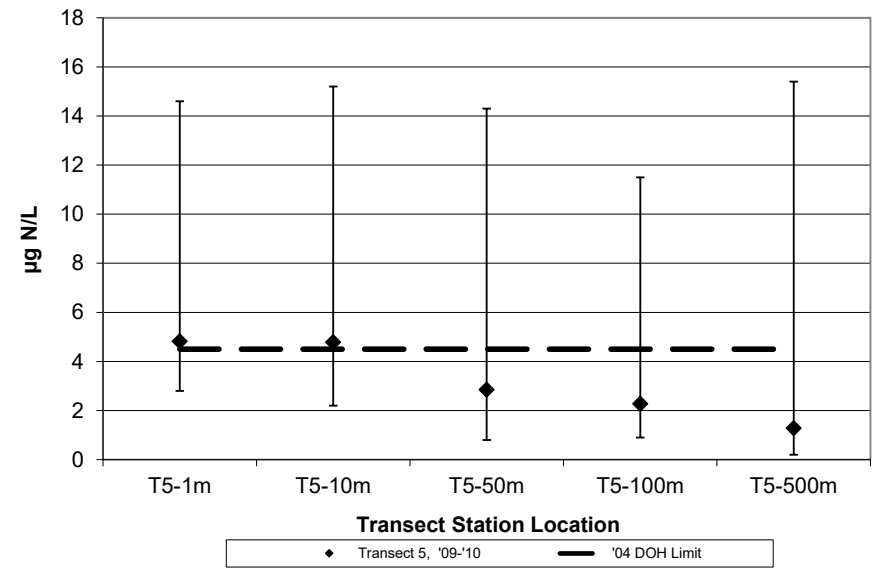
## Transect 5

July 2009 - June 2010

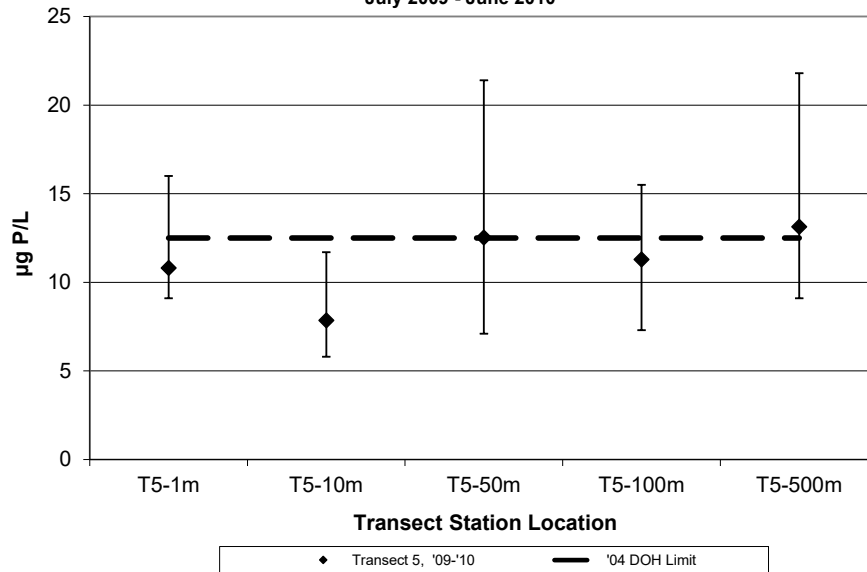
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean, July 2009 - June 2010



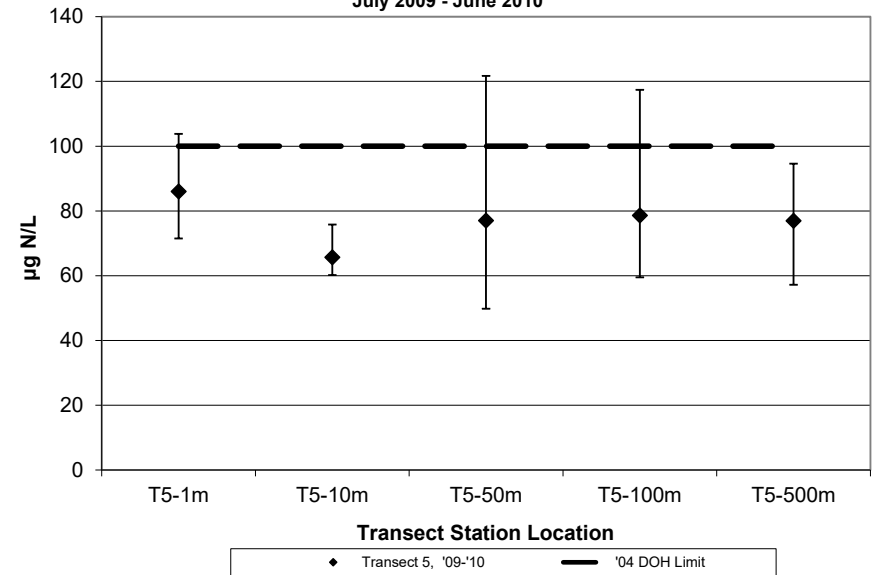
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean, July 2009 - June 2010



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean  
July 2009 - June 2010



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean  
July 2009 - June 2010

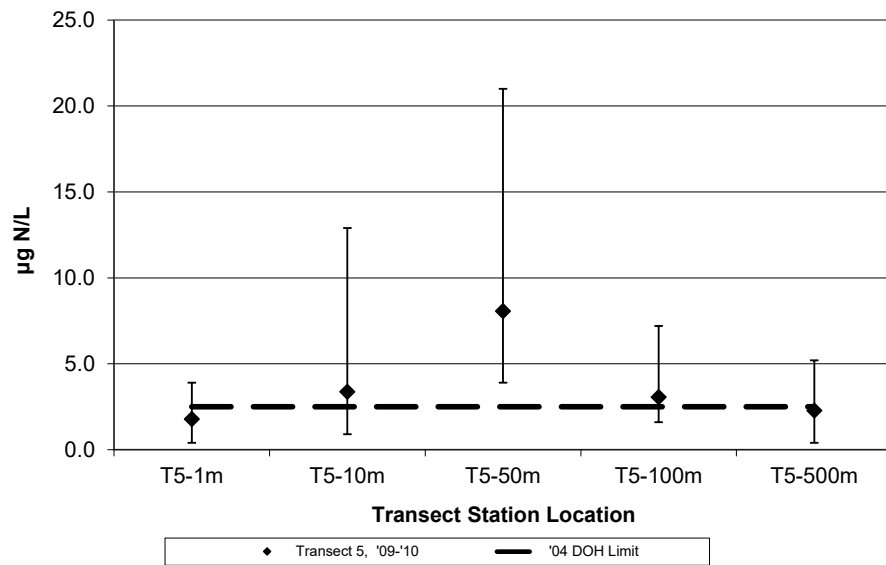


# NELHA Water Quality Laboratory

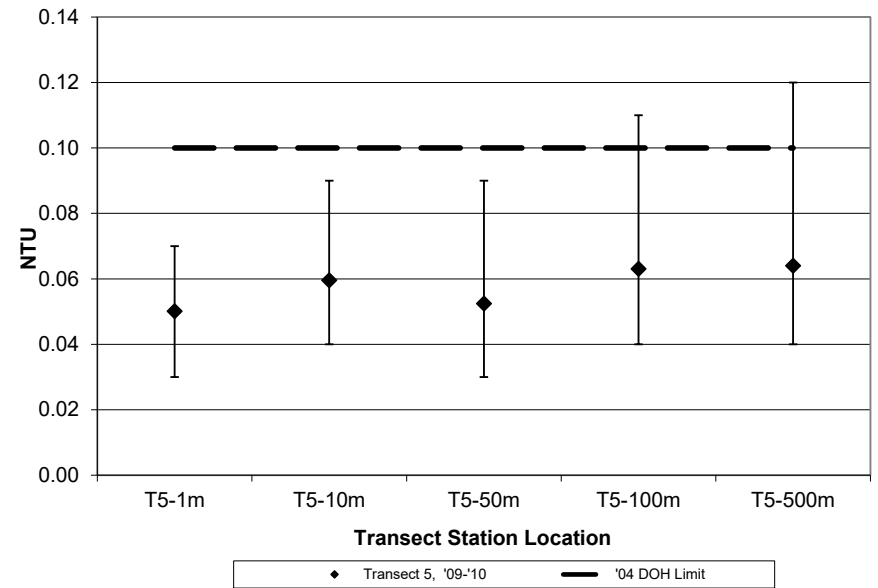
Transect 5

July 2009 - June 2010

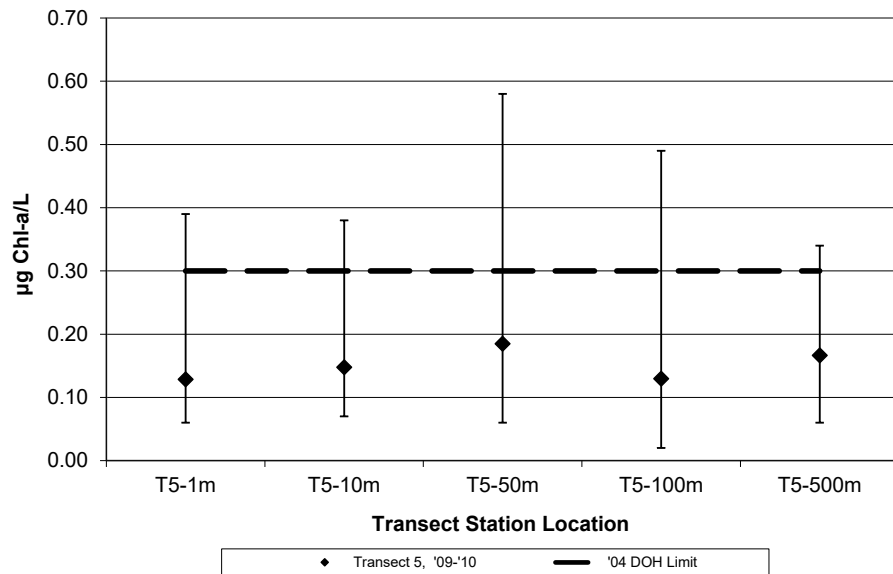
**Transect 5 Station Summary**  
Ammonia Geometric Mean, July 2009 - June 2010



**Transect 5 Station Summary**  
Turbidity Geometric Mean, July 2009 - June 2010



**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean, July 2009 - June 2010



# NELHA Water Quality Laboratory

## Transect 5

July 2008 - June 2009

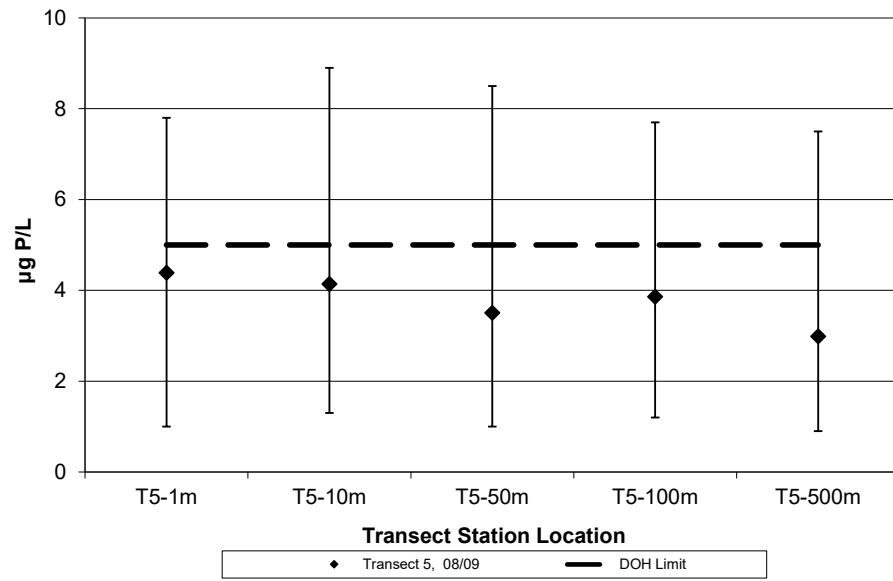
| SITE ID   | DATE<br>M/D/Y | TIME<br>(2400) | Tide<br>(ft) (cycle) | PO4<br>(µM) (µg P/L) |     | NO3+NO2<br>(µM) (µg N/L) |     | NH3<br>(µM) (µg N/L) |      | Si<br>(µM) (µg Si/L) |     | TDP<br>(µM) (µg P/L) |      | TDN<br>(µM) (µg N/L) |     | Turbidity<br>(NTU) | Salinity<br>(o/oo) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(µg/L) |
|-----------|---------------|----------------|----------------------|----------------------|-----|--------------------------|-----|----------------------|------|----------------------|-----|----------------------|------|----------------------|-----|--------------------|--------------------|---------------|------|-------------|-----------------|
| DOH LIMIT |               |                |                      | 0.16                 | 5   | 0.32                     | 4.5 | 0.18                 | 2.5  |                      |     | 0.40                 | 12.5 | 7.1                  | 100 | 0.10               |                    |               |      |             | 0.3             |
| T5-1m     | 09/23/08      | 1108           | 2.1 High             | 0.03                 | 1.0 | 0.19                     | 2.7 | 0.31                 | 4.3  | 2.3                  | 64  | 0.35                 | 10.9 | 5.9                  | 83  | 0.08               | 34.837             | 26.7          | 8.07 | 6.31        | 0.09            |
| T5-1m     | 12/08/08      | 1017           | 1.0 Flood            | 0.23                 | 7.2 | 0.15                     | 2.1 | 0.73                 | 10.2 | 1.3                  | 35  | 0.03                 | 0.8  | 6.2                  | 87  | 0.10               | 35.001             | 26.2          | 8.30 | 6.25        | 0.05            |
| T5-1m     | 02/10/09      | 911            | 0.4 Ebb              | 0.21                 | 6.6 | 0.71                     | 9.9 | 0.12                 | 1.7  | 4.3                  | 122 | 0.37                 | 11.5 | 7.5                  | 105 | 0.12               | 35.005             | 24.7          | 8.05 | 6.03        | 0.06            |
| T5-1m     | 6/30/09       | 1001           | 1.3 Ebb              | 0.25                 | 7.8 | 0.39                     | 5.5 | 0.67                 | 9.4  | 4.4                  | 124 | 0.43                 | 13.2 | 5.6                  | 78  | 0.08               | 34.905             | 26.7          | 8.16 | 5.82        | 0.10            |
| Geomean   | 08/09         |                |                      | 0.14                 | 4.4 | 0.30                     | 4.2 | 0.4                  | 5.1  |                      |     | 0.2                  | 6.0  | 6.3                  | 88  | 0.09               |                    |               |      |             | 0.07            |
| T5-10m    | 09/23/08      | 1111           | 2.2 High             | 0.04                 | 1.3 | 0.16                     | 2.2 | 0.28                 | 3.9  | 2.5                  | 71  | 0.29                 | 8.9  | 4.7                  | 66  | 0.08               | 34.836             | 26.8          | 8.06 | 6.21        | 0.03            |
| T5-10m    | 12/08/08      | 1022           | 1.0 Flood            | 0.21                 | 6.5 | 0.35                     | 4.9 | 1.03                 | 14.4 | 1.9                  | 53  | 0.10                 | 3    | 5.9                  | 83  | 0.05               | 34.990             | 26.1          | 8.30 | 5.85        | 0.07            |
| T5-10m    | 02/10/09      | 918            | 0.4 Ebb              | 0.13                 | 3.9 | 0.41                     | 5.8 | 0.56                 | 7.9  | 3.6                  | 101 | 0.37                 | 11.6 | 10.8                 | 152 | 0.10               | 35.060             | 24.8          | 8.05 | 6.05        | 0.05            |
| T5-10m    | 6/30/09       | 1005           | 1.4 Ebb              | 0.29                 | 8.9 | 0.41                     | 5.8 | 0.17                 | 2.4  | 5.2                  | 145 | 0.23                 | 7.0  | 5.3                  | 74  | 0.11               | 34.898             | 26.7          | 8.17 | 6.07        | 0.09            |
| Geomean   | 08/09         |                |                      | 0.13                 | 4.1 | 0.31                     | 4.4 | 0.41                 | 5.7  |                      |     | 0.22                 | 6.8  | 6.3                  | 89  | 0.08               |                    |               |      |             | 0.06            |
| T5-50m    | 09/23/08      | 1117           | 2.2 High             | 0.03                 | 1.0 | 0.11                     | 1.6 | 0.38                 | 5.3  | 2.5                  | 70  | 0.35                 | 10.8 | 4.1                  | 58  | 0.06               | 34.834             | 26.7          | 8.06 | 5.92        | 0.09            |
| T5-50m    | 12/08/08      | 1028           | 1.0 Flood            | 0.17                 | 5.2 | 0.25                     | 3.5 | 0.34                 | 4.8  | 1.7                  | 49  | 0.45                 | 14.0 | 5.5                  | 77  | 0.07               | 34.975             | 26.1          | 8.30 | 5.22        | 0.09            |
| T5-50m    | 02/10/09      | 921            | 0.3 Ebb              | 0.11                 | 3.4 | 0.41                     | 5.8 | 0.12                 | 1.7  | 2.9                  | 80  | 0.34                 | 10.6 | 7.9                  | 111 | 0.08               | 35.044             | 24.8          | 8.05 | 6.03        | 0.04            |
| T5-50m    | 6/30/09       | 1013           | 1.4 Ebb              | 0.27                 | 8.5 | 0.46                     | 6.4 | 0.41                 | 5.7  | 5.4                  | 152 | 0.30                 | 9.3  | 6.0                  | 84  | 0.10               | 34.904             | 26.7          | 8.21 | 5.93        | 0.15            |
| Geomean   | 08/09         |                |                      | 0.11                 | 3.5 | 0.27                     | 3.8 | 0.28                 | 4.0  |                      |     | 0.36                 | 11.0 | 5.7                  | 80  | 0.08               |                    |               |      |             | 0.08            |
| T5-100m   | 09/23/08      | 1122           | 2.2 High             | 0.04                 | 1.2 | 0.07                     | 1.0 | 0.33                 | 4.6  | 2.3                  | 64  | 0.34                 | 10.5 | 5.2                  | 73  | 0.08               | 34.830             | 26.6          | 8.06 | 5.81        | 0.06            |
| T5-100m   | 12/08/08      | 1036           | 1.0 Flood            | 0.15                 | 4.8 | 0.26                     | 3.7 | 0.27                 | 3.8  | 1.8                  | 51  | 0.33                 | 10.2 | 5.0                  | 70  | 0.05               | 34.983             | 26.0          | 8.30 | 5.10        | 0.08            |
| T5-100m   | 02/10/09      | 927            | 0.3 Ebb              | 0.16                 | 5.0 | 0.10                     | 1.4 | 0.12                 | 1.7  | 1.7                  | 47  | 0.36                 | 11.3 | 10.7                 | 150 | 0.07               | 35.129             | 24.7          | 8.07 | 6.01        | 0.02            |
| T5-100m   | 6/30/09       | 1020           | 1.4 Ebb              | 0.25                 | 7.7 | 0.33                     | 4.6 | 0.12                 | 1.7  | 7.0                  | 197 | 0.43                 | 13.4 | 5.8                  | 81  | 0.05               | 34.909             | 26.7          | 8.20 | 5.67        | 0.07            |
| Geomean   | 08/09         |                |                      | 0.12                 | 3.9 | 0.16                     | 2.2 | 0.19                 | 2.7  |                      |     | 0.36                 | 11.3 | 6.3                  | 89  | 0.06               |                    |               |      |             | 0.05            |
| T5-500m   | 09/23/08      | 1133           | 2.2 High             | 0.03                 | 0.9 | 0.00                     | 0.0 | 2.44                 | 34.2 | 1.5                  | 42  | 0.29                 | 9.1  | 6.75                 | 95  | 0.06               | 34.833             | 26.7          | 8.07 | 6.07        | 0.13            |
| T5-500m   | 12/08/08      | 1042           | 1.0 Flood            | 0.14                 | 4.2 | 0.04                     | 0.6 | 0.19                 | 2.6  | 1.7                  | 49  | 0.30                 | 9.2  | 6.60                 | 92  | 0.05               | 35.000             | 26.3          | 8.31 | 5.65        | 0.02            |
| T5-500m   | 02/10/09      | 936            | 0.2 Ebb              | 0.09                 | 2.8 | 0.15                     | 2.1 | 0.12                 | 1.7  | 1.7                  | 48  | 0.23                 | 7.1  | 4.75                 | 67  | 0.09               | 35.089             | 25.0          | 8.06 | 6.08        | 0.02            |
| T5-500m   | 6/30/09       | 1028           | 1.5 Ebb              | 0.24                 | 7.5 | 0.23                     | 3.2 | 0.12                 | 1.7  | 5.1                  | 144 | 0.52                 | 16.1 | 6.00                 | 84  | 0.08               | 34.897             | 26.8          | 8.20 | 5.70        | 0.07            |
| Geomean   | 08/09         |                |                      | 0.10                 | 3.0 | 0.03                     | 0.4 | 0.29                 | 4.0  |                      |     | 0.32                 | 9.9  | 6.0                  | 84  | 0.07               |                    |               |      |             | 0.04            |

# NELHA Water Quality Laboratory

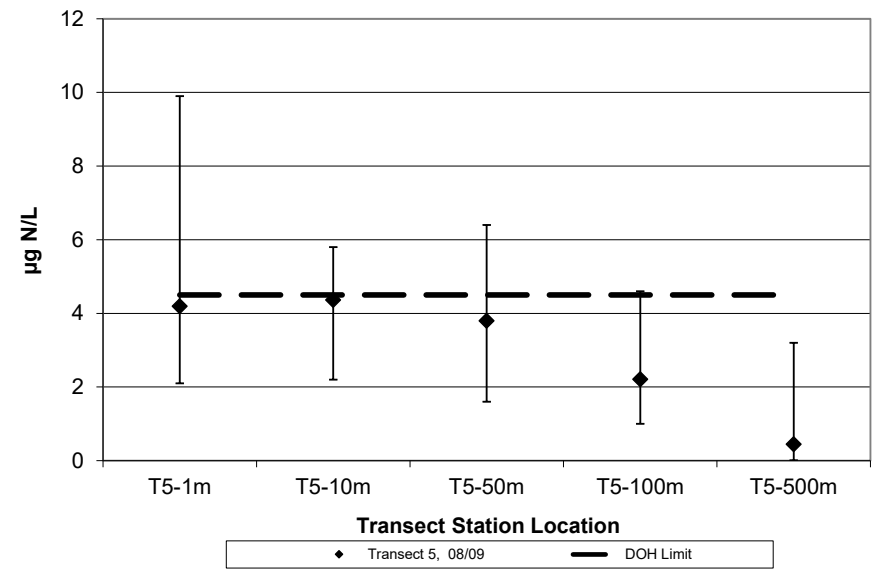
## Transect 5

July 2008 - June 2009

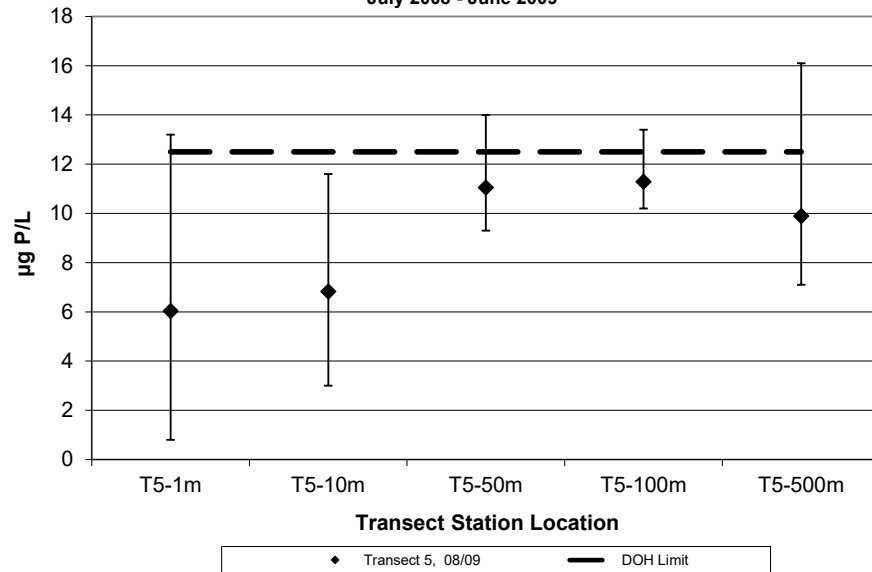
**Transect 5 Station Summary**  
Ortho-Phosphate Geometric Mean, July 2008 - June 2009



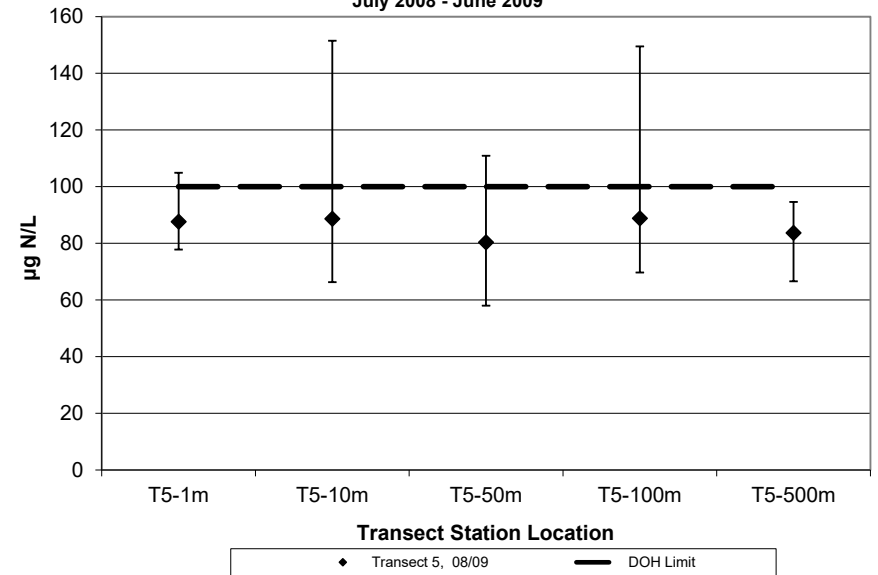
**Transect 5 Station Summary**  
Nitrate + Nitrite Geometric Mean, July 2008 - June 2009



**Transect 5 Station Summary**  
Total Dissolved Phosphorous Geometric Mean  
July 2008 - June 2009



**Transect 5 Station Summary**  
Total Dissolved Nitrogen Geometric Mean  
July 2008 - June 2009

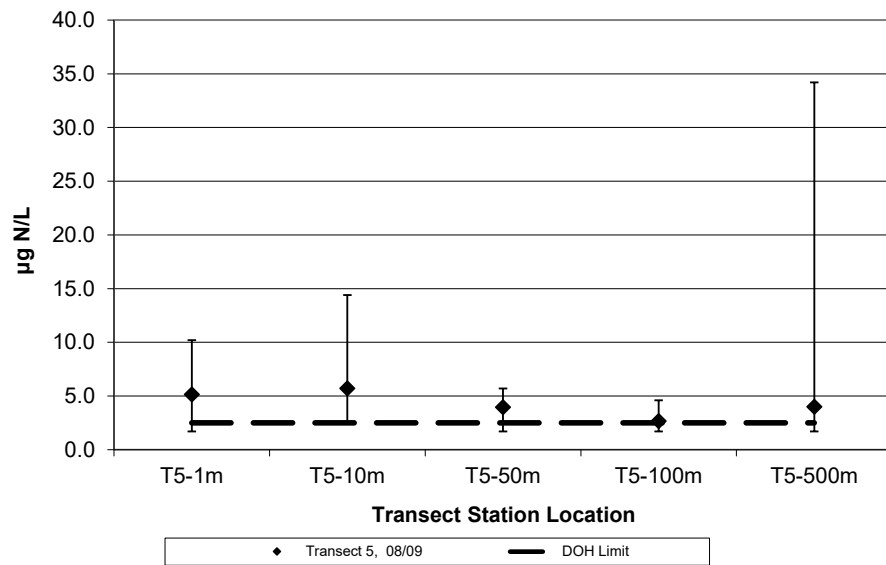


# NELHA Water Quality Laboratory

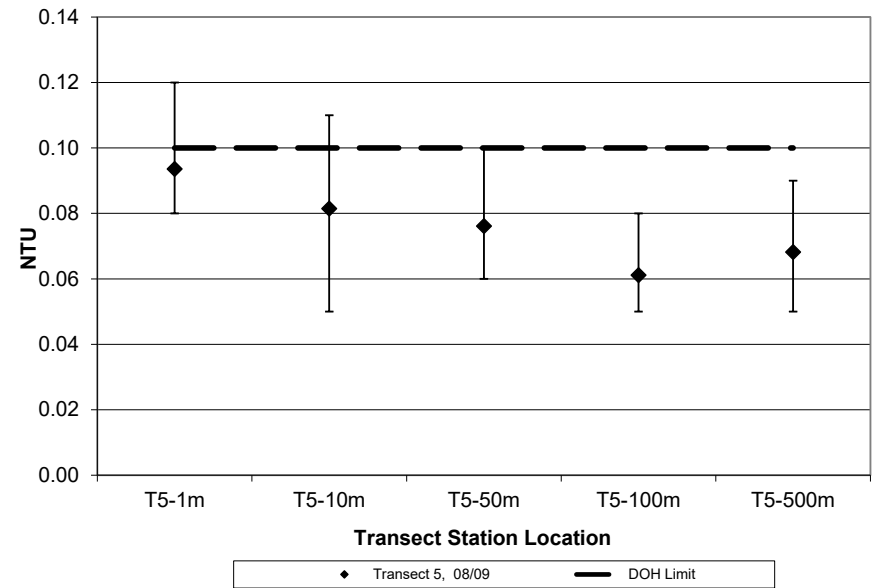
Transect 5

July 2008 - June 2009

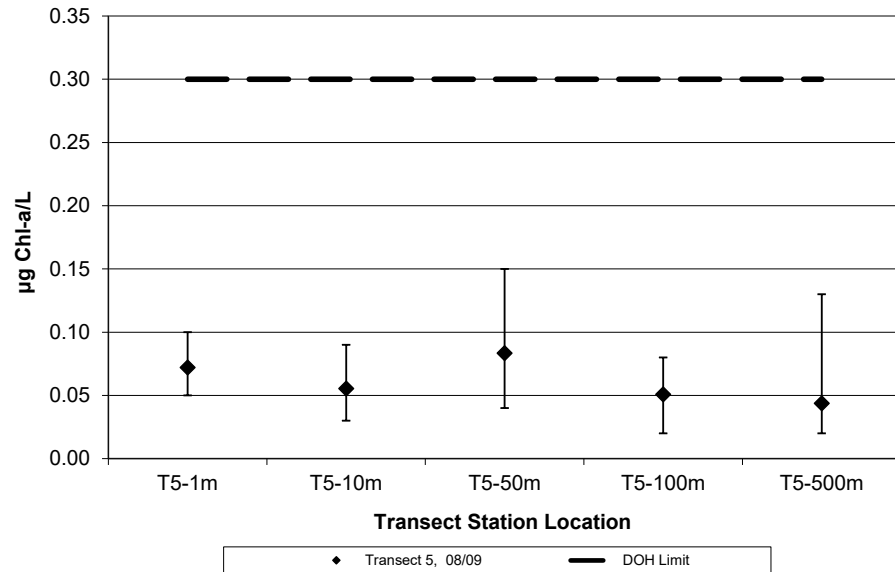
**Transect 5 Station Summary**  
Ammonia Geometric Mean, July 2008 - June 2009



**Transect 5 Station Summary**  
Turbidity Geometric Mean, July 2008 - June 2009



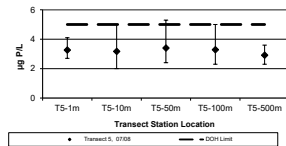
**Transect 5 Station Summary**  
Chlorophyll-a Geometric Mean, July 2008 - June 2009



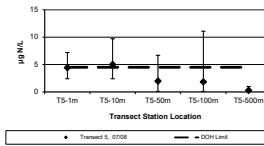
NELHA Water Quality Laboratory  
FY 07/08, Transect 5

| SITE ID   | DATE<br>D-M-Y | TIME<br>(2400) | PO4<br>(µM)<br>(µg P/L) | NO3+NO2<br>(µM)<br>(µg N/L) | NH4<br>(µM)<br>(µg N/L) | Si<br>(µM)<br>(µg Si/L) | TDP<br>(µM)<br>(µg P/L) | TDN<br>(µM)<br>(µg N/L) | Turbidity<br>(NTU) | Salinity<br>(‰) | Temp.<br>(°C) | pH   | DO<br>(ppm) | Chl a<br>(µg/L) |      |         |       |      |      |      |
|-----------|---------------|----------------|-------------------------|-----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|-----------------|---------------|------|-------------|-----------------|------|---------|-------|------|------|------|
| DOH LIMIT |               |                | 0.16                    | 5                           | 0.32                    | 4.5                     | 0.18                    | 2.5                     |                    |                 |               |      |             | 0.3             |      |         |       |      |      |      |
| TS-1m     | 27-Sep-07     | 940            | 0.13                    | 4.1                         | 0.37                    | 5.2                     | 0.41                    | 5.8                     | 4.8                | 135             | 0.51          | 15.7 | 6.6         | 92              | 0.10 | 34.975  | 26.71 | 8.07 | 6.18 | 0.12 |
| TS-1m     | 14-Dec-07     | 942            | 0.10                    | 3.1                         | 0.31                    | 4.3                     |                         |                         | 4.8                | 135             | 0.35          | 10.8 | 6.7         | 94              | 0.14 | 34.722  | 25.65 | 8.21 | 6.72 | 0.23 |
| TS-1m     | 11-Mar-08     | 951            | 0.11                    | 3.3                         | 0.51                    | 7.2                     |                         |                         | 5.5                | 156             | 0.24          | 7.3  | 6.7         | 94              | 0.09 | 34.823  | 24.76 | 8.08 | 6.52 | 0.32 |
| TS-1m     | 9-Jun-08      | 1024           | 0.09                    | 2.7                         | 0.17                    | 2.4                     | 0.16                    | 2.2                     | 13.2               | 372             | 0.28          | 8.6  | 8.8         | 124             | 0.16 | 35.6807 | 25.01 | 8.12 | 5.81 | 0.13 |
| Geomean   | 07/08         |                | 0.11                    | 3.3                         | 0.32                    | 4.4                     | 0.2                     | 2.2                     |                    |                 | 0.3           | 10.2 | 7.1         | 100             | 0.11 |         |       |      |      | 0.21 |
| TS-10m    | 27-Sep-07     | 920            | 0.16                    | 5.0                         | 0.29                    | 4.0                     | 0.36                    | 5.1                     | 6.1                | 173             | 0.36          | 11   | 5.3         | 74              | 0.06 | 34.922  | 26.8  | 8.06 | 6.07 | 0.20 |
| TS-10m    | 14-Dec-07     | 945            | 0.06                    | 2.0                         | 0.69                    | 9.7                     |                         |                         | 5.4                | 151             | 0.35          | 10.9 | 4.8         | 68              | 0.10 | 34.727  | 25.7  | 8.21 | 6.69 | 0.20 |
| TS-10m    | 11-Mar-08     | 953            | 0.12                    | 3.6                         | 0.48                    | 6.7                     | 0.06                    | 0.8                     | 19.8               | 557             | 0.28          | 8.7  | 6.8         | 96              | 0.12 | 34.834  | 24.8  | 8.10 | 6.53 | 0.37 |
| TS-10m    | 9-Jun-08      | 1028           | 0.09                    | 2.8                         | 0.17                    | 2.4                     | 0.16                    | 2.2                     | 14.0               | 392             | 0.25          | 7.7  | 5.2         | 72              | 0.07 | 34.6758 | 25.0  | 8.12 | 5.83 | 0.08 |
| Geomean   | 07/08         |                | 0.10                    | 3.2                         | 0.36                    | 5.0                     | 0.15                    | 2.1                     |                    |                 | 0.31          | 9.5  | 5.5         | 77              | 0.10 |         |       |      |      | 0.17 |
| TS-50m    | 27-Sep-07     | 911            | 0.17                    | 5.3                         | 0.31                    | 4.4                     | 0.25                    | 3.5                     | 5.2                | 147             | 0.37          | 11.4 | 6.6         | 93              | 0.08 | 34.915  | 26.7  | 8.06 | 6.06 | 0.09 |
| TS-50m    | 14-Dec-07     | 948            | 0.08                    | 2.4                         | 0.01                    | 0.1                     |                         |                         | 6.4                | 181             | 0.35          | 10.9 | 5.4         | 76              | 0.11 | 34.749  | 25.7  | 8.24 | 6.52 | 0.17 |
| TS-50m    | 11-Mar-08     | 957            | 0.08                    | 2.5                         | 0.38                    | 5.3                     | 0.06                    | 0.8                     | 18.8               | 528             | 0.23          | 7.2  | 6.0         | 84              | 0.12 | 34.636  | 24.8  | 8.10 | 6.87 | 0.35 |
| TS-50m    | 9-Jun-08      | 1032           | 0.14                    | 4.2                         | 0.48                    | 6.7                     | 0.16                    | 2.2                     | 18.2               | 511             | 0.29          | 8.9  | 6.4         | 90              | 0.12 | 34.591  | 25.16 | 8.12 | 5.78 | 0.19 |
| Geomean   | 07/08         |                | 0.11                    | 3.4                         | 0.14                    | 2.0                     | 0.13                    | 1.8                     |                    |                 | 0.30          | 9.4  | 6.1         | 85              | 0.11 |         |       |      |      | 0.21 |
| TS-100m   | 27-Sep-07     | 900            | 0.16                    | 5.0                         | 0.26                    | 3.6                     | 0.19                    | 2.6                     | 15.1               | 424             | 0.16          | 5.0  | 6.0         | 84              | 0.08 | 34.916  | 26.8  | 8.06 | 6.04 | 0.14 |
| TS-100m   | 14-Dec-07     | 950            | 0.07                    | 2.3                         | 0.01                    | 0.1                     |                         |                         | 3.0                | 85              | 0.16          | 5.1  | 5.3         | 74              | 0.09 | 34.881  | 25.7  | 8.23 | 6.48 | 0.15 |
| TS-100m   | 11-Mar-08     | 1001           | 0.12                    | 3.6                         | 0.79                    | 11.1                    | 0.06                    | 0.8                     | 13.7               | 386             | 0.10          | 3.1  | 6.4         | 90              | 0.11 | 34.695  | 24.8  | 8.09 | 6.71 | 0.36 |
| TS-100m   | 9-Jun-08      | 1035           | 0.09                    | 2.8                         | 0.20                    | 2.8                     | 0.16                    | 2.2                     | 17.9               | 502             | 0.28          | 8.6  | 5.1         | 72              | 0.14 | 34.642  | 25.3  | 8.11 | 5.62 | 0.23 |
| Geomean   | 07/08         |                | 0.11                    | 3.3                         | 0.13                    | 1.8                     | 0.12                    | 1.7                     |                    |                 | 0.17          | 5.1  | 5.7         | 80              | 0.10 |         |       |      |      | 0.20 |
| TS-500m   | 27-Sep-07     | 848            | 0.12                    | 3.6                         | 0.01                    | 0.1                     | 0.13                    | 1.8                     | 9.8                | 275             | 0.24          | 7.5  | 3.9         | 54              | 0.11 | 34.874  | 26.6  | 8.09 | 6.30 | 0.06 |
| TS-500m   | 14-Dec-07     | 1000           | 0.10                    | 3.1                         | 0.01                    | 0.1                     |                         |                         | 2.5                | 70              | 0.38          | 11.9 | 6.7         | 94              | 0.16 | 34.741  | 25.8  | 8.24 | 6.58 | 0.10 |
| TS-500m   | 11-Mar-08     | 1008           | 0.09                    | 2.8                         | 0.07                    | 1.0                     | 0.06                    | 0.8                     | 15.6               | 439             | 0.24          | 7.4  | 6.5         | 91              | 0.10 | 34.888  | 24.9  | 8.11 | 6.66 | 0.18 |
| TS-500m   | 9-Jun-08      | 1044           | 0.07                    | 2.3                         | 0.05                    | 0.7                     | 0.16                    | 2.2                     | 14.2               | 400             | 0.21          | 6.6  | 5.1         | 72              | 0.18 | 34.454  | 25.9  | 8.11 | 5.59 | 0.23 |
| Geomean   | 07/08         |                | 0.09                    | 2.9                         | 0.02                    | 0.3                     | 0.10                    | 1.5                     |                    |                 | 0.26          | 8.1  | 5.4         | 76              | 0.13 |         |       |      |      | 0.13 |

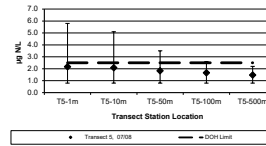
Ortho-Phosphate  
Geometric Mean, July 2007 - June 2008  
Transect 5



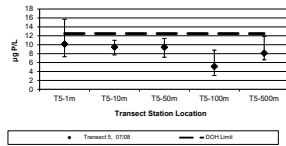
Nitrate + Nitrite  
Geometric Mean, July 2007 - June 2008  
Transect 5



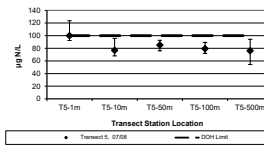
Ammonia  
Geometric Mean, July 2007 - June 2008  
Transect 5



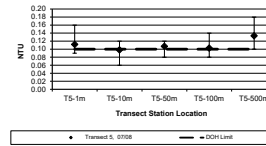
Total Dissolved Phosphorus  
Geometric Mean, July 2007 - June 2008  
Transect 5



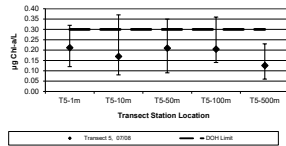
Total Dissolved Nitrogen  
Geometric Mean, July 2007 - June 2008  
Transect 5



Turbidity  
Geometric Mean, July 2007 - June 2008  
Transect 5



Chlorophyll-a  
Geometric Mean, July 2007 - June 2008  
Transect 5



Transect 5, 07/08

| SITE ID | PO4<br>limit | NO3+NO2<br>limit | NH4<br>limit | TDP<br>limit | TDN<br>limit | Turbidity<br>limit | Chl a<br>limit |
|---------|--------------|------------------|--------------|--------------|--------------|--------------------|----------------|
| TS-1m   | 5 3.3        | 4.5 4.4          | 2.5 2.2      | 12.5 10.2    | 100 100.0    | 0.1 0.11           | 0.3 0.21       |
| TS-10m  | 5 3.2        | 4.5 5.0          | 2.5 2.1      | 12.5 9.5     | 100 76.8     | 0.1 0.10           | 0.3 0.17       |
| TS-50m  | 5 3.4        | 4.5 2.0          | 2.5 1.8      | 12.5 9.4     | 100 85.2     | 0.1 0.11           | 0.3 0.21       |
| TS-100m | 5 3.3        | 4.5 1.8          | 2.5 1.7      | 12.5 5.1     | 100 79.5     | 0.1 0.10           | 0.3 0.20       |
| TS-500m | 5 2.9        | 4.5 0.3          | 2.5 1.5      | 12.5 8.1     | 100 76.2     | 0.1 0.13           | 0.3 0.13       |

| Max/Min | PO4  | NO3+NO2 | NH4  | TDP  | TDN  | Turbidity | Chl a |
|---------|------|---------|------|------|------|-----------|-------|
| Max     | Max  | Max     | Max  | Max  | Max  | Max       | Max   |
| TS-1m   | 0.84 | 0.56    | 2.77 | 2.03 | 3.63 | 1.37      | 0.05  |
| TS-10m  | 1.83 | 1.17    | 4.70 | 2.60 | 3.02 | 1.28      | 0.11  |
| TS-50m  | 1.90 | 1.00    | 4.71 | 1.89 | 1.67 | 1.03      | 0.02  |
| TS-100m | 1.72 | 0.98    | 9.27 | 1.73 | 0.94 | 0.86      | 0.04  |
| TS-500m | 0.69 | 0.61    | 0.71 | 0.19 | 0.73 | 0.67      | 0.07  |