

Summary Table: Impact Water Quality Monitoring for Dredging Activities

| Sampling Date | Tide    | Station | Depth | Depth (m) | Current Direction | Current Velocity (m/s) | Water Temp (°C) | Salinity (ppt) | D.O. Saturation (%) | D.O. (mg/L) | Turbidity (NTU) | pH   | SS |
|---------------|---------|---------|-------|-----------|-------------------|------------------------|-----------------|----------------|---------------------|-------------|-----------------|------|----|
| 2010/04/20    | Mid-Ebb | US2     | B     | 8.0       | 123.6             | 0.28                   | 21.40           | 30.25          | 89.4                | 6.63        | 12.9            | 7.39 | 16 |
| 2010/04/20    | Mid-Ebb | US2     | M     | 5.1       | 138.7             | 0.39                   | 21.89           | 29.01          | 94.9                | 7.02        | 6.4             | 7.41 | 8  |
| 2010/04/20    | Mid-Ebb | US2     | T     | 1.2       | 119.4             | 0.58                   | 22.58           | 28.41          | 103.5               | 7.59        | 3.0             | 7.53 | 4  |
| 2010/04/20    | Mid-Ebb | US2     | B     | 8.1       | 128.8             | 0.30                   | 21.40           | 30.27          | 89.6                | 6.64        | 13.1            | 7.38 | 18 |
| 2010/04/20    | Mid-Ebb | US2     | M     | 4.9       | 147.8             | 0.33                   | 21.99           | 28.89          | 95.6                | 7.06        | 5.9             | 7.44 | 7  |
| 2010/04/20    | Mid-Ebb | US2     | T     | 1.4       | 119.4             | 0.58                   | 22.55           | 28.41          | 104.2               | 7.65        | 2.6             | 7.54 | 5  |
| 2010/04/20    | Mid-Ebb | US1     | B     | 5.6       | 115.2             | 0.42                   | 21.50           | 30.01          | 91.6                | 6.79        | 10.2            | 7.50 | 12 |
| 2010/04/20    | Mid-Ebb | US1     | M     | 3.7       | 153.3             | 0.49                   | 21.87           | 29.28          | 94.9                | 7.02        | 7.2             | 7.51 | 7  |
| 2010/04/20    | Mid-Ebb | US1     | T     | 0.9       | 129.5             | 0.38                   | 22.34           | 28.71          | 99.9                | 7.35        | 4.4             | 7.58 | 4  |
| 2010/04/20    | Mid-Ebb | US1     | B     | 6.2       | 131.9             | 0.38                   | 21.44           | 30.28          | 92.9                | 6.88        | 11.9            | 7.50 | 12 |
| 2010/04/20    | Mid-Ebb | US1     | M     | 4.2       | 117.5             | 0.50                   | 22.18           | 28.95          | 97.6                | 7.19        | 5.9             | 7.54 | 6  |
| 2010/04/20    | Mid-Ebb | US1     | T     | 1.0       | 166.3             | 0.37                   | 22.39           | 28.72          | 101.3               | 7.44        | 4.1             | 7.59 | 6  |
| 2010/04/20    | Mid-Ebb | DS1     | B     | 5.9       | 98.7              | 0.43                   | 21.76           | 30.06          | 96.9                | 7.14        | 10.9            | 7.53 | 21 |
| 2010/04/20    | Mid-Ebb | DS1     | M     | 4.2       | 103.5             | 0.34                   | 21.84           | 29.95          | 96.4                | 7.10        | 15.2            | 7.57 | 19 |
| 2010/04/20    | Mid-Ebb | DS1     | T     | 1.2       | 77.5              | 0.45                   | 21.93           | 29.32          | 96.7                | 7.14        | 6.7             | 7.58 | 8  |
| 2010/04/20    | Mid-Ebb | DS1     | B     | 6.1       | 98.7              | 0.43                   | 21.78           | 30.07          | 95.7                | 7.05        | 15.5            | 7.58 | 19 |
| 2010/04/20    | Mid-Ebb | DS1     | M     | 3.5       | 69.9              | 0.40                   | 21.88           | 29.89          | 96.9                | 7.13        | 15.0            | 7.59 | 20 |
| 2010/04/20    | Mid-Ebb | DS1     | T     | 1.2       | 103.4             | 0.54                   | 21.98           | 28.88          | 97.1                | 7.18        | 7.6             | 7.57 | 6  |
| 2010/04/20    | Mid-Ebb | DS2     | B     | 6.9       | 104.8             | 0.37                   | 21.87           | 29.93          | 96.9                | 7.14        | 10.4            | 7.67 | 17 |
| 2010/04/20    | Mid-Ebb | DS2     | M     | 4.5       | 105.1             | 0.45                   | 21.96           | 29.65          | 97.6                | 7.19        | 7.0             | 7.65 | 8  |
| 2010/04/20    | Mid-Ebb | DS2     | T     | 1.3       | 103.4             | 0.54                   | 22.16           | 28.43          | 97.1                | 7.18        | 4.3             | 7.63 | 4  |
| 2010/04/20    | Mid-Ebb | DS2     | B     | 6.9       | 94.3              | 0.36                   | 21.85           | 29.96          | 97.0                | 7.15        | 11.0            | 7.66 | 14 |
| 2010/04/20    | Mid-Ebb | DS2     | M     | 4.4       | 105.1             | 0.45                   | 21.94           | 29.70          | 98.0                | 7.22        | 6.8             | 7.65 | 9  |
| 2010/04/20    | Mid-Ebb | DS2     | T     | 1.4       | 103.4             | 0.54                   | 22.22           | 28.34          | 97.8                | 7.22        | 4.3             | 7.63 | 5  |
| 2010/04/20    | Mid-Ebb | DS3     | B     | 6.0       | 91.3              | 0.48                   | 21.83           | 29.99          | 96.0                | 7.07        | 9.7             | 7.67 | 11 |
| 2010/04/20    | Mid-Ebb | DS3     | M     | 4.2       | 97.6              | 0.63                   | 22.08           | 29.46          | 98.9                | 7.27        | 6.3             | 7.69 | 11 |
| 2010/04/20    | Mid-Ebb | DS3     | T     | 1.2       | 98.3              | 0.71                   | 22.24           | 28.84          | 100.1               | 7.37        | 4.1             | 7.70 | 5  |
| 2010/04/20    | Mid-Ebb | DS3     | B     | 6.0       | 91.3              | 0.48                   | 21.84           | 29.96          | 96.8                | 7.13        | 11.4            | 7.67 | 13 |
| 2010/04/20    | Mid-Ebb | DS3     | M     | 3.8       | 94.0              | 0.59                   | 21.97           | 29.58          | 98.1                | 7.22        | 7.4             | 7.67 | 10 |
| 2010/04/20    | Mid-Ebb | DS3     | T     | 1.3       | 127.9             | 0.65                   | 22.15           | 28.67          | 98.6                | 7.27        | 4.3             | 7.67 | 4  |
| 2010/04/20    | Mid-Ebb | DS4     | B     | 8.1       | 106.4             | 0.39                   | 22.22           | 29.26          | 98.8                | 7.26        | 3.5             | 7.72 | 7  |
| 2010/04/20    | Mid-Ebb | DS4     | M     | 5.0       | 109.6             | 0.49                   | 22.26           | 29.18          | 98.7                | 7.25        | 4.3             | 7.70 | 6  |
| 2010/04/20    | Mid-Ebb | DS4     | T     | 1.4       | 134.9             | 0.65                   | 22.24           | 29.18          | 98.9                | 7.27        | 3.2             | 7.64 | 3  |
| 2010/04/20    | Mid-Ebb | DS4     | B     | 8.2       | 106.4             | 0.39                   | 22.19           | 29.31          | 98.3                | 7.23        | 3.6             | 7.65 | 7  |
| 2010/04/20    | Mid-Ebb | DS4     | M     | 4.7       | 114.0             | 0.62                   | 22.24           | 29.25          | 99.5                | 7.31        | 3.7             | 7.67 | 4  |
| 2010/04/20    | Mid-Ebb | DS4     | T     | 1.3       | 112.9             | 0.58                   | 22.35           | 29.03          | 101.0               | 7.41        | 3.3             | 7.70 | 5  |
| 2010/04/20    | Mid-Ebb | DS5     | B     | 10.1      | 95.4              | 0.43                   | 21.49           | 30.56          | 92.8                | 6.86        | 19.2            | 7.68 | 27 |
| 2010/04/20    | Mid-Ebb | DS5     | M     | 6.1       | 96.2              | 0.68                   | 21.82           | 30.05          | 95.4                | 7.03        | 8.0             | 7.68 | 12 |
| 2010/04/20    | Mid-Ebb | DS5     | T     | 1.1       | 112.9             | 0.58                   | 22.11           | 29.46          | 97.7                | 7.18        | 4.4             | 7.70 | 5  |
| 2010/04/20    | Mid-Ebb | DS5     | B     | 9.7       | 101.5             | 0.38                   | 21.49           | 30.54          | 93.2                | 6.89        | 15.7            | 7.66 | 25 |
| 2010/04/20    | Mid-Ebb | DS5     | M     | 6.2       | 54.7              | 0.44                   | 21.56           | 30.43          | 93.3                | 6.89        | 12.4            | 7.64 | 14 |
| 2010/04/20    | Mid-Ebb | DS5     | T     | 1.3       | 112.9             | 0.58                   | 22.13           | 29.50          | 98.1                | 7.21        | 3.8             | 7.69 | 4  |
| 2010/04/20    | Mid-Ebb | MW1     | B     | 18.6      | 45.6              | 0.39                   | 21.05           | 31.52          | 87.1                | 6.45        | 4.7             | 7.35 | 7  |
| 2010/04/20    | Mid-Ebb | MW1     | M     | 10.2      | 13.1              | 0.53                   | 21.07           | 31.50          | 86.9                | 6.43        | 3.7             | 7.31 | 4  |
| 2010/04/20    | Mid-Ebb | MW1     | T     | 1.1       | 83.7              | 0.86                   | 21.81           | 30.08          | 86.2                | 6.35        | 3.6             | 7.28 | 4  |
| 2010/04/20    | Mid-Ebb | MW1     | B     | 18.3      | 359.4             | 0.40                   | 21.09           | 31.45          | 87.0                | 6.44        | 4.6             | 7.30 | 5  |
| 2010/04/20    | Mid-Ebb | MW1     | M     | 10.0      | 71.2              | 0.32                   | 21.07           | 31.48          | 86.9                | 6.44        | 3.9             | 7.31 | 6  |
| 2010/04/20    | Mid-Ebb | MW1     | T     | 1.3       | 93.5              | 0.81                   | 21.85           | 29.99          | 92.5                | 6.81        | 2.7             | 7.36 | 3  |

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| Sampling Date | Tide      | Station | Depth | Depth (m) | Current Direction | Current Velocity (m/s) | Water Temp (°C) | Salinity (ppt) | D.O. Saturation (%) | D.O. (mg/L) | Turbidity (NTU) | pH   | SS |
|---------------|-----------|---------|-------|-----------|-------------------|------------------------|-----------------|----------------|---------------------|-------------|-----------------|------|----|
| 2010/04/20    | Mid-Flood | MW1     | B     | 20.1      | 198.8             | 0.11                   | 20.75           | 32.07          | 82.8                | 6.15        | 3.5             | 7.32 | 6  |
| 2010/04/20    | Mid-Flood | MW1     | M     | 11.1      | 221.9             | 0.17                   | 20.81           | 31.91          | 84.0                | 6.24        | 3.1             | 7.31 | 6  |
| 2010/04/20    | Mid-Flood | MW1     | T     | 1.2       | 195.5             | 0.09                   | 20.97           | 31.52          | 86.2                | 6.40        | 2.6             | 7.32 | 5  |
| 2010/04/20    | Mid-Flood | MW1     | B     | 20.0      | 193.1             | 0.14                   | 20.75           | 32.06          | 83.1                | 6.17        | 3.6             | 7.32 | 7  |
| 2010/04/20    | Mid-Flood | MW1     | M     | 11.1      | 192.2             | 0.14                   | 20.79           | 31.97          | 83.9                | 6.22        | 3.0             | 7.32 | 7  |
| 2010/04/20    | Mid-Flood | MW1     | T     | 1.2       | 195.5             | 0.09                   | 20.97           | 31.51          | 86.1                | 6.38        | 2.9             | 7.33 | 4  |
| 2010/04/20    | Mid-Flood | DS5     | B     | 7.7       | 342.4             | 0.25                   | 21.33           | 30.44          | 88.1                | 6.53        | 16.2            | 7.39 | 21 |
| 2010/04/20    | Mid-Flood | DS5     | M     | 4.6       | 333.4             | 0.38                   | 21.48           | 28.84          | 86.3                | 6.44        | 3.4             | 7.30 | 5  |
| 2010/04/20    | Mid-Flood | DS5     | T     | 1.2       | 328.5             | 0.41                   | 21.91           | 26.84          | 88.3                | 6.62        | 3.1             | 7.31 | 3  |
| 2010/04/20    | Mid-Flood | DS5     | B     | 8.0       | 345.1             | 0.29                   | 21.33           | 30.48          | 87.6                | 6.50        | 16.4            | 7.37 | 21 |
| 2010/04/20    | Mid-Flood | DS5     | M     | 5.0       | 340.2             | 0.33                   | 21.42           | 29.36          | 86.1                | 6.42        | 4.0             | 7.32 | 3  |
| 2010/04/20    | Mid-Flood | DS5     | T     | 1.1       | 323.4             | 0.45                   | 21.88           | 26.93          | 88.4                | 6.62        | 3.3             | 7.31 | 4  |
| 2010/04/20    | Mid-Flood | DS4     | B     | 7.9       | 321.5             | 0.27                   | 21.34           | 30.35          | 90.0                | 6.68        | 9.3             | 7.44 | 9  |
| 2010/04/20    | Mid-Flood | DS4     | M     | 4.8       | 347.8             | 0.31                   | 21.48           | 29.12          | 87.6                | 6.53        | 5.9             | 7.38 | 8  |
| 2010/04/20    | Mid-Flood | DS4     | T     | 1.3       | 323.4             | 0.45                   | 21.86           | 27.40          | 89.2                | 6.67        | 7.2             | 7.39 | 9  |
| 2010/04/20    | Mid-Flood | DS4     | B     | 7.9       | 324.9             | 0.31                   | 21.35           | 30.37          | 88.5                | 6.57        | 9.0             | 7.43 | 9  |
| 2010/04/20    | Mid-Flood | DS4     | M     | 5.2       | 333.4             | 0.31                   | 21.44           | 29.45          | 87.1                | 6.48        | 6.3             | 7.39 | 8  |
| 2010/04/20    | Mid-Flood | DS4     | T     | 1.6       | 321.6             | 0.44                   | 21.89           | 27.20          | 90.0                | 6.73        | 5.7             | 7.41 | 8  |
| 2010/04/20    | Mid-Flood | DS3     | B     | 7.8       | 328.9             | 0.27                   | 21.06           | 31.03          | 87.8                | 6.52        | 15.4            | 7.47 | 17 |
| 2010/04/20    | Mid-Flood | DS3     | M     | 5.0       | 343.0             | 0.29                   | 21.41           | 29.72          | 87.6                | 6.51        | 8.6             | 7.44 | 13 |
| 2010/04/20    | Mid-Flood | DS3     | T     | 1.3       | 333.1             | 0.40                   | 21.83           | 27.32          | 89.6                | 6.70        | 7.4             | 7.43 | 6  |
| 2010/04/20    | Mid-Flood | DS3     | B     | 8.1       | 316.9             | 0.28                   | 21.06           | 31.04          | 86.9                | 6.45        | 15.5            | 7.45 | 19 |
| 2010/04/20    | Mid-Flood | DS3     | M     | 4.6       | 336.3             | 0.33                   | 21.42           | 29.60          | 87.9                | 6.54        | 8.2             | 7.47 | 12 |
| 2010/04/20    | Mid-Flood | DS3     | T     | 1.2       | 333.1             | 0.40                   | 21.84           | 27.32          | 89.9                | 6.72        | 6.5             | 7.44 | 7  |
| 2010/04/20    | Mid-Flood | DS2     | B     | 8.0       | 318.9             | 0.20                   | 21.24           | 30.46          | 88.3                | 6.56        | 10.2            | 7.48 | 16 |
| 2010/04/20    | Mid-Flood | DS2     | M     | 5.0       | 317.6             | 0.25                   | 21.31           | 30.19          | 87.6                | 6.51        | 12.5            | 7.48 | 15 |
| 2010/04/20    | Mid-Flood | DS2     | T     | 1.1       | 320.9             | 0.46                   | 21.89           | 27.23          | 90.1                | 6.73        | 4.8             | 7.46 | 6  |
| 2010/04/20    | Mid-Flood | DS2     | B     | 7.5       | 335.9             | 0.22                   | 21.23           | 30.45          | 87.3                | 6.49        | 10.8            | 7.51 | 12 |
| 2010/04/20    | Mid-Flood | DS2     | M     | 5.1       | 332.1             | 0.29                   | 21.27           | 30.34          | 87.5                | 6.50        | 13.1            | 7.50 | 16 |
| 2010/04/20    | Mid-Flood | DS2     | T     | 1.1       | 307.0             | 0.24                   | 21.90           | 27.26          | 90.4                | 6.76        | 4.2             | 7.48 | 4  |
| 2010/04/20    | Mid-Flood | DS1     | B     | 7.0       | 326.6             | 0.07                   | 21.23           | 30.52          | 88.1                | 6.54        | 17.4            | 7.60 | 23 |
| 2010/04/20    | Mid-Flood | DS1     | M     | 4.5       | 286.6             | 0.29                   | 21.28           | 30.47          | 88.3                | 6.55        | 13.5            | 7.56 | 24 |
| 2010/04/20    | Mid-Flood | DS1     | T     | 1.4       | 307.0             | 0.24                   | 21.85           | 27.56          | 89.9                | 6.71        | 4.2             | 7.54 | 4  |
| 2010/04/20    | Mid-Flood | DS1     | B     | 6.8       | 336.1             | 0.26                   | 21.23           | 30.58          | 88.0                | 6.53        | 16.9            | 7.55 | 24 |
| 2010/04/20    | Mid-Flood | DS1     | M     | 4.4       | 282.9             | 0.31                   | 21.28           | 30.45          | 88.5                | 6.56        | 13.7            | 7.53 | 21 |
| 2010/04/20    | Mid-Flood | DS1     | T     | 0.9       | 307.0             | 0.24                   | 21.85           | 27.56          | 90.2                | 6.74        | 4.1             | 7.53 | 6  |
| 2010/04/20    | Mid-Flood | US1     | B     | 6.9       | 320.5             | 0.59                   | 21.17           | 30.96          | 88.6                | 6.57        | 9.8             | 7.59 | 14 |
| 2010/04/20    | Mid-Flood | US1     | M     | 4.5       | 293.0             | 0.32                   | 21.21           | 30.84          | 88.4                | 6.55        | 7.5             | 7.56 | 9  |
| 2010/04/20    | Mid-Flood | US1     | T     | 1.5       | 299.2             | 0.39                   | 21.48           | 29.80          | 90.0                | 6.68        | 5.2             | 7.55 | 6  |
| 2010/04/20    | Mid-Flood | US1     | B     | 6.6       | 297.2             | 0.15                   | 21.16           | 30.99          | 87.9                | 6.52        | 9.8             | 7.57 | 14 |
| 2010/04/20    | Mid-Flood | US1     | M     | 4.6       | 284.8             | 0.18                   | 21.22           | 30.85          | 88.4                | 6.56        | 6.6             | 7.55 | 9  |
| 2010/04/20    | Mid-Flood | US1     | T     | 1.3       | 299.2             | 0.39                   | 21.57           | 29.44          | 90.4                | 6.71        | 4.9             | 7.55 | 7  |
| 2010/04/20    | Mid-Flood | US2     | B     | 7.7       | 300.3             | 0.16                   | 21.17           | 30.96          | 88.7                | 6.58        | 10.2            | 7.51 | 12 |
| 2010/04/20    | Mid-Flood | US2     | M     | 5.0       | 296.6             | 0.24                   | 21.21           | 30.85          | 88.3                | 6.55        | 9.6             | 7.50 | 14 |
| 2010/04/20    | Mid-Flood | US2     | T     | 1.2       | 286.3             | 0.43                   | 21.71           | 28.87          | 91.8                | 6.82        | 6.1             | 7.51 | 7  |
| 2010/04/20    | Mid-Flood | US2     | B     | 7.8       | 305.0             | 0.15                   | 21.16           | 31.01          | 88.4                | 6.55        | 12.0            | 7.54 | 10 |
| 2010/04/20    | Mid-Flood | US2     | M     | 5.1       | 288.0             | 0.26                   | 21.20           | 30.90          | 88.4                | 6.55        | 10.5            | 7.53 | 17 |
| 2010/04/20    | Mid-Flood | US2     | T     | 1.3       | 286.3             | 0.43                   | 21.49           | 29.77          | 90.5                | 6.72        | 7.7             | 7.51 | 8  |