

Supplemental Table S-2: Abundance of fecal indicators and total *Vibrio* and presence of *Bacteroidales*, *Bifidobacterium*, and *Legionella* spp. in Lake Pontchartrain waters. Units for enumerated samples include colony-forming units (CFU) for samples analyzed by membrane filtration and CFU equivalents for samples enumerated using qPCR. Samples enumerated using chromogenic substrate and coliphage culture method correspond to most probable numbers (MPN). *Bacteroidales*, *Bifidobacterium*, and *Legionella* spp. are reported as detected (+) or not detected (neg). “na” indicates no sample analyzed for corresponding microbe.

Table on following page.

| Lake Sample Sites → | | Transect # 1 – Number/100mL | | | | Transect # 2 - Number/100mL | | | | Lake Transect #3 – Number/100mL | | | |
|---------------------------------------|--------------|--------------------------------|-----|-----|-----|--------------------------------|-----|-----|------|------------------------------------|-----|-----|-----|
| Assay | Date | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 |
| Enterococci | | | | | | | | | | | | | |
| qPCR | 11 Oct. 2005 | 21 | <5 | <5 | <5 | 14 | <5 | <5 | <5 | 6 | <5 | <5 | 9 |
| MF ^a | 11 Oct. 2005 | 8 | <1 | 1 | <1 | 28 | 2 | <1 | 1.5 | 2 | <1 | <1 | 1 |
| CS ^b | 25 Oct. 2005 | 244 | 25 | 10 | <1 | 340 | 20 | 26 | 5 | 80 | 10 | 5 | 5 |
| qPCR | 25 Oct. 2005 | 113 | 29 | <5 | <5 | 291 | 34 | 5 | <5 | 61 | <5 | <5 | <5 |
| MF | 25 Oct. 2005 | 38 | 1 | 1 | 5 | 37 | 3 | 1 | 2 | 12 | 6 | 4 | 3 |
| CS | 8 Nov. 2005 | 50 | 21 | <1 | 5 | 60 | 5 | 5 | 1 | 31 | 10 | <1 | 5 |
| qPCR | 8 Nov. 2005 | 36 | 11 | <5 | <5 | 105 | 8 | <5 | <5 | 19 | <5 | <5 | <5 |
| MF | 8 Nov. 2005 | 12 | 4 | 3 | 10 | 50 | 3 | 1 | 1 | 13 | 19 | 1 | <1 |
| <i>E. coli</i> | | | | | | | | | | | | | |
| qPCR | 25 Oct. 2005 | 297 | 30 | 18 | neg | 120 | 57 | <5 | 10.5 | 12 | 37 | <5 | 21 |
| MF | 25 Oct. 2005 | 150 | 10 | <1 | <1 | 200 | 15 | <1 | 10 | 20 | 50 | 35 | 15 |
| qPCR | 8 Nov. 2005 | 227 | 75 | 59 | 50 | 71 | <5 | 13 | <5 | 159 | 77 | 39 | 16 |
| MF | 23 Nov. 2005 | 70 | <1 | 5 | 2 | 95 | 13 | 7 | 10 | 28 | 4 | 4 | 3 |
| FRNA coliphages | | | | | | | | | | | | | |
| culture | 25 Oct. 2005 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| culture | 8 Nov. 2005 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| <i>Clostridium perfringens</i> | | | | | | | | | | | | | |
| culture | 25 Oct. 2005 | 16 | 4 | 4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| culture | 8 Nov. 2005 | na | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| culture | 12 Dec. 2005 | 40 | 34 | <4 | <4 | 4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| culture | 27 Jan. 2006 | <4 | 4 | <4 | 4 | 4 | 8 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bacteroidales | | | | | | | | | | | | | |
| TNA ^c | 25 Oct. 2005 | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg |
| PCR | 25 Oct. 2005 | + | + | neg | neg | + | + | neg | neg | + | + | neg | neg |
| TNA | 8 Nov. 2005 | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg |
| PCR | 8 Nov. 2005 | + | + | neg | neg | + | + | neg | neg | + | + | neg | neg |
| <i>Bifidobacterium</i> | | | | | | | | | | | | | |
| PCR | 25 Oct. 2005 | + | + | neg | neg | + | + | neg | neg | + | neg | neg | neg |
| PCR | 8 Nov. 2005 | + | + | neg | neg | + | + | neg | neg | neg | neg | neg | neg |
| Total Vibrio | | | | | | | | | | | | | |
| MF | 11 Oct. 2005 | 2690 | 532 | 524 | 352 | 2350 | 776 | 148 | 128 | 756 | 532 | 612 | 196 |
| MF | 27 Jan. 2006 | 676 | na | na | na | 412 | 408 | 36 | na | na | na | na | na |
| <i>Legionella</i> | | | | | | | | | | | | | |
| genus PCR | 11 Oct. 2005 | + | + | + | + | + | + | + | neg | + | + | + | + |
| <i>mip</i> PCR | 11 Oct. 2005 | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg |
| genus PCR | 25 Oct. 2005 | + | + | neg | + | + | + | + | + | + | + | + | neg |
| <i>mip</i> PCR | 25 Oct. 2005 | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg |
| genus PCR | 8 Nov. 2005 | + | neg | neg | + | neg | + | + | + | neg | neg | neg | neg |
| <i>mip</i> PCR | 8 Nov. 2005 | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg | neg |
| genus PCR | 12 Dec. 2005 | na | na | na | na | + | + | neg | + | na | na | na | na |
| <i>mip</i> PCR | 12 Dec. 2005 | na | na | na | na | neg | + | neg | neg | na | na | na | na |
| genus PCR | 27 Jan. 2006 | na | na | na | na | + | neg | neg | + | na | na | na | na |
| <i>mip</i> PCR | 27 Jan. 2006 | na | na | na | na | neg | neg | neg | neg | na | na | na | na |
| genus PCR | 29 Mar. 2006 | na | na | na | na | + | + | + | + | na | na | na | na |
| <i>mip</i> PCR | 29 Mar. 2006 | na | na | na | na | neg | neg | neg | neg | na | na | na | na |

^aMF = membrane filtration; ^bCS = chromogenic substrate; ^cTNA = *Taq* nuclease assay