

Supplemental Table S-3: Abundance of fecal indicators and total *Vibrio* and presence of *Bacteroidales*, *Bifidobacterium*, and *Legionella* spp. in Canal waters.

Units for enumerated samples include colony-forming units (CFU) for samples analyzed by plate counts and CFU equivalents for samples enumerated by 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.

Panel A: Water from New Orleans Canals Discharging into Lake Pontchartrain - CFU/100mL

Site/ Indicator	Assay	Date →				12 Nov. 2005	
		11 Oct. 2005	19 Oct. 2005	24 Oct. 2005	2 Nov. 2005	Before Pumping	After pumping
Enterococci							
17 th Street Canal (S1)	CS ^a	na	266	107	63	115	442
	qPCR	185	537	217	127	139	1480
	MF ^b	255	202	93	115	26	2150
Industrial Canal (S3)	CS	na	15	15	5	15	na
	qPCR	16	<5	5.7	<5	12	na
	MF	24	2	6	2	4	na
<i>E. coli</i>							
17 th Street Canal (S1)	qPCR	1,760	2,700	2,000	3,110	383	3,570
	MF	6,000	11,700	13,000	3,600	300	7,500
Industrial Canal (S3)	qPCR	85	176	623	418	10	na
	MF	30	46	10	20	10	na
FRNA coliphages							
17 th Street Canal (S1)	culture	na	na	8	na	na	na
Industrial Canal (S3)	culture	na	na	<1	na	na	na
<i>Clostridium perfringens</i>							
17 th Street Canal (S1)	culture	na	na	88	<4	na	na
Industrial Canal (S3)	culture	na	na	<4	<4	na	na
Bacteroidales							
17 th Street Canal (S1)	TNA ^c	neg	neg	neg	neg	neg	neg
	PCR	+	na	+	na	na	na
Industrial Canal (S3)	TNA	neg	neg	neg	neg	neg	neg
	PCR	+	na	neg	na	na	na
<i>Bifidobacterium</i>							
17 th Street Canal (S1)	PCR	na	+	+	+	+	+
Industrial Canal (S3)	PCR	na	+	+	+	+	na
Total <i>Vibrio</i>							
17 th Street Canal (S1)	MF	5,580	na	na	na	na	na
Industrial Canal (S3)	MF	1,780	na	na	na	na	na
<i>Legionella</i> spp.							
17 th Street Canal (S1)	Genus PCR	+	+	+	+	na	na
Industrial Canal (S3)	Genus PCR	+	+	neg	+	na	na
<i>L. pneumophila</i>							
17 th Street Canal (S1)	<i>mip</i> gene	neg	neg	neg	neg	na	na
Industrial Canal (S3)	<i>mip</i> gene	neg	neg	neg	neg	na	na

Panel B: Water from New Orleans Canal Shoreline – CFU/100mL

Site ID	12 Nov. 2005 – Indicator & Assay – CFU/100mL			
	Enterococci, CS	Enterococci, qPCR	<i>E. coli</i> , qPCR	<i>Bifidobacterium</i> PCR
Industrial Canal (R1)	42	17	350	+
Bayou St. John (R2)	387	345	9,610	neg
London Ave. Canal (R3)	282	30	730	+
Industrial Canal (R4)	158	15	50	neg
London Ave. Canal (R5)	193	208	332	+
Bayou St. John (R6)	152	53	130	+

^aCS = chromogenic substrate; ^bMF = membrane filtration; ^cTNA = *Taq* nuclease assay