

FALL 2006

Site #	Eh (mV <sub>NHE</sub> )	Sulphide (μM)	Sediment condition
2	137	297	Oxic A
3	-65	2906	Hypoxic A
4	-184	5682	Hypoxic C
6			
10	16	294	Oxic A
12	169	81	Oxic A
14	192	2961	Hypoxic A
16	106	350	Oxic A
17	-43	2948	Hypoxic A
18	-2	1090	Oxic B
20			
22	51	217	Oxic A
23	149	73	Oxic A
24			
25	-159	6158	Anoxic
26	77	233	Oxic A
27	55	1429	Oxic B
28	-43	675	Oxic A
29	25	546	Oxic A
30	39	362	Oxic A
32	1	1854	Hypoxic A
33			
34	132	57	Oxic A
35	118	227	Oxic A
36			
37	-79	4846	Hypoxic C
38	175	340	Oxic A
39			
40	248	101	Oxic A
42	81	191	Oxic A
44	50	505	Oxic A
45	213	410	Oxic A
46	-155	6697	Anoxic
49	160	337	Oxic A
50			
51	144	603	Oxic A
52	308	47	Oxic A
53	137	1413	Oxic B
54	25	800	Oxic B
55	55	321	Oxic A
56			
57	167	186	Oxic A
58	-28	376	Oxic A
59	-43	1603	Hypoxic A
60			
61	31	2379	Hypoxic A
64			
84			
95			
159	155	92	Oxic A
168	134	132	Oxic A
172	184	12	Oxic A

Site #	Eh (mV <sub>NHE</sub> )	Sulphide (μM)	Sediment condition
179			
181	30	2261	Hypoxic A
186	190	481	Oxic A
202	37	1463	Oxic B
206	141	173	Oxic A
213	41	495	Oxic A
214			
215	109	387	Oxic A
222	76	430	Oxic A
228	-129	3730	Hypoxic B
251			
255			
256			
270	99	706	Oxic A
276	-22	2570	Hypoxic A
282	184	137	Oxic A
290	-138	7017	Anoxic
292	46	1460	Oxic B
298	311	7	Oxic A
300	275	16	Oxic A
303	201	64	Oxic A
316	260	169	Oxic A
320	15	433	Oxic A
324			
333			
337	-60	5270	Hypoxic C
342	-9	1848	Hypoxic A
349			
350	116	260	Oxic A
368	140	37	Oxic A
370	-103	855	Oxic B
377	88	573	Oxic A
378	34	2192	Hypoxic A
381	189	12	Oxic A
400	59	1283	Oxic B
403			
404	3	895	Oxic B
408			
411	262	50	Oxic A
412	167	339	Oxic A
413	176	249	Oxic A
416			
491	162	1050	Oxic B
495	174	175	Oxic A
496	125	333	Oxic A
501	191	135	Oxic A
282b	273	26	Oxic A
403b	167	481	Oxic A
408b			
362			
396			

Sediment Condition	Observed and Measured Conditions
Oxic 1	Redox Potential (Eh) $\geq$ + 100 mV NHE Sulfide = < 300 $\mu$ M
Oxic 2	Redox Potential (Eh) = 0 to 100 mV NHE Sulfide = 300 - 1300 $\mu$ M
Hypoxic	Redox Potential (Eh) = 0 to -100 mV NHE Sulfide = 1300 - 6000 $\mu$ M
Anoxic	Redox Potential (Eh) = < - 100 mV NHE Sulfide = > 6000 $\mu$ M

The above table is for 2002-2005, inclusive.

Both redox potential and sulfide must fall within the sediment condition ranges for a site to be assigned that sediment condition.

In cases where the parameters are within separate sediment condition ranges, the sediment condition range in which the parameter showing the least impact is used to assign sediment condition.

#### Legend

Eh = oxidation-reduction potential or Redox

mVNHE = millivolts relative to the normal hydrogen electrode

$\mu$ M = micro moles per litre