

Appendix E. Preliminary LDW clam sampling results, August 8, 2003

Beach 8 - 1st Ave South bridge, W side of LDW

Sample	Abundance	
1	0	<p>Each sample covered 1 square foot</p> <p>Approximate area of beach sampled (N) in square feet 54000 (area will be verified later, does not affect variability calcs)</p> <p>Mean number of clams per square foot sample 0.94</p> <p>Total population estimate (equation 1 from QAPP) 50694 $\hat{T} = N\hat{\mu}$</p> <p>One-half the 95% confidence interval (B; equation 2 from QAPP) 27887 $B = 2\sqrt{N^2 \frac{\sigma^2}{n}}$</p> <p>Ratio of B to T 0.55</p> <p>Is B more than 30% of T? yes</p> <p>number of samples needed for B to be 30% of T (i.e., set B equal to 0.3 of T; equation 3 from QAPP) 165 $n = \frac{N^2 \sigma^2 4}{B^2}$</p>
2	0	
3	0	
4	0	
5	6	
6	0	
7	2	
8	0	
9	0	
10	5	
11	1	
12	8	
13	0	
14	0	
15	2	
16	0	
17	0	
18	0	
19	3	
20	1	
21	0	
22	2	
23	0	
24	1	
25	0	
26	0	
27	0	
28	3	
29	0	
30	0	
31	0	
32	0	
33	0	
34	1	
35	1	
36	0	
37	1	
38	0	
39	0	
40	0	
41	0	
42	0	
43	0	
44	6	
45	0	
46	1	

Beach 8 - 1st Ave South bridge, W side of LDW

47	1
48	1
49	0

Beach 1a - Terminal 105, W side of LDW

Sample	Abundance
50	1
51	0
52	0
53	0
54	0
55	0
56	0
57	1
58	0
59	0
60	0
61	0
62	0
63	0
64	0
65	0
66	0
67	0
68	0
69	0
70	0
71	2
72	0
73	0
74	0
75	1
76	2
77	1
78	2
79	0
80	0
81	0
82	0
83	0
84	0
85	1
86	0
87	0
88	0
89	0

Each sample covered 1 square foot

Approximate area of beach sampled (N) in square feet
57000

Mean number of clams per square foot sample
0.28

Total population estimate (equation 1 from QAPP)
15675 $\hat{T} = N\hat{\mu}$

One-half the 95% confidence interval (B; equation 2 from QAPP)
10790 $B = 2\sqrt{N^2 \frac{\sigma^2}{n}}$

Ratio of B to T
0.69

Is B more than 30% of T?
yes

number of samples needed for B to be 30% of T
(i.e., set B equal to 0.3 of T; equation 3 from QAPP)
211 $n = \frac{N^2 \sigma^2 4}{B^2}$