The range of mercury contamination in marsh sediments in the upper Berry Creek areas is from 0.6 ppm to 2,006 ppm. The range of mercury contamination in the middle Berrys Creek area is from 0.3 ppm to 246 ppm, and downstream of Route 3 bridge (lower Berrys Creek area) the range is from 0 to 62 ppm.

Figure 1 stations

Greater than 30 ppm Hg

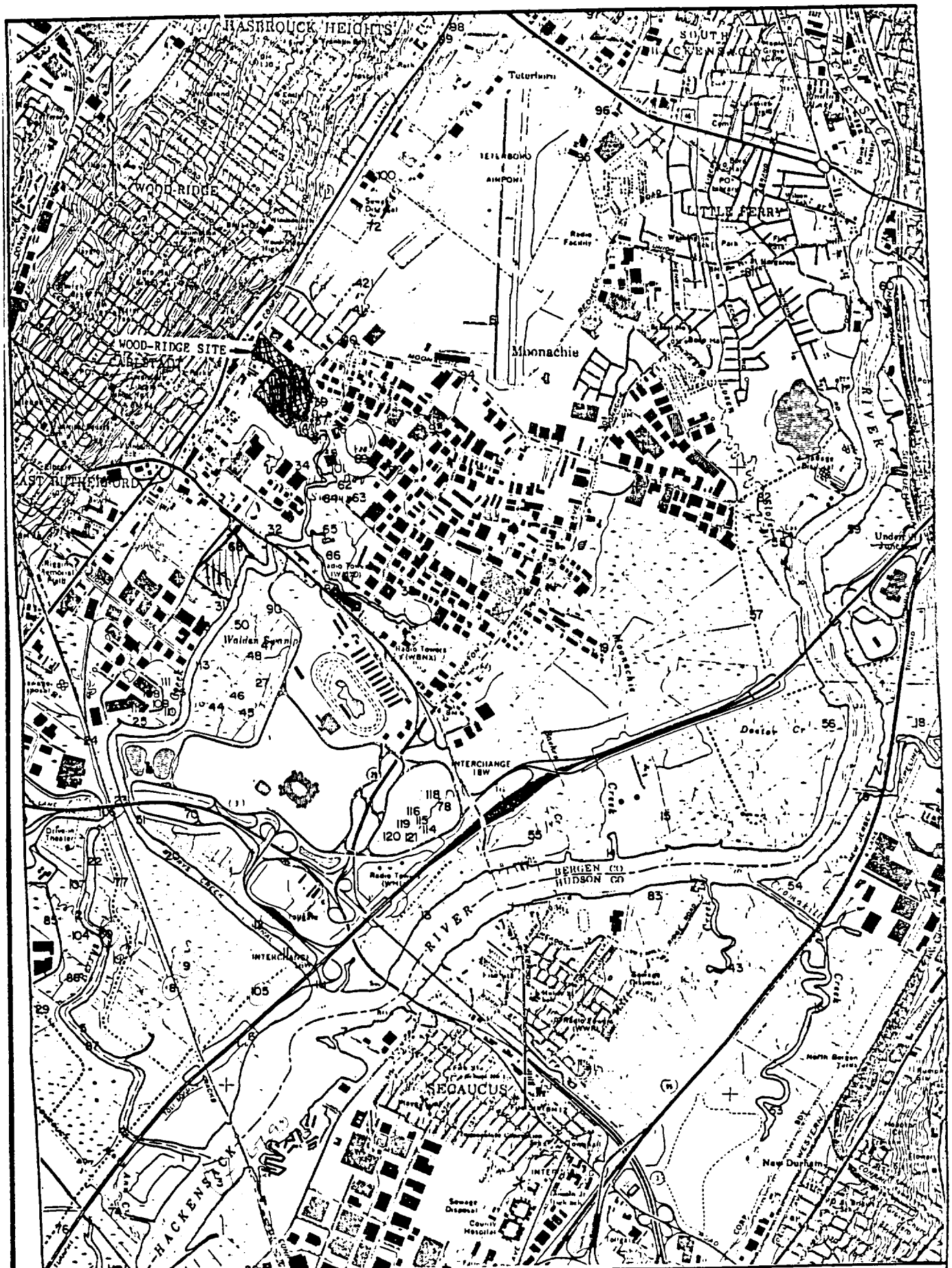
Station	Sample	Concentration (ppm)	Year sampled	Sample description
3	ch sed	67.90	81	west side
3	ch sed	32.08	81	east side
4	ch sed	35.86	81	center
4	ch sed	40.75	81	east side
4	marsh sed	48.00	77	ng
5	ch sed	117.88	81	west side
5	ch sed	101.61	81	center
5	ch sed	76.60	81	east side
7	ch sed	32.00	76	0-2 in
18	marsh sed	39.00	77	2-4 in
18	marsh sed	48.00	77	4-6 in
23	ch sed	36.00	80	0-4 in
25	sed	60.00	84	0 in
25	sed	44.00	84	4 in
25	sed	242.00	84	10 in
25	sed	165.00	84	16 in
25	sed	77.00	84	10 in
26	marsh sed	49.00	77	0-2 in
26	marsh sed	32.00	77	2-4 in
26	marsh sed	30.00	77	4-6 in
26	marsh sed	164.00	77	6-12 in

(MAP ATTACHED)

26	marsh sed	246.00	77	12-18 in
27	marsh sed	60.10	74	0-6 in
30	marsh sed	62.00	77	0-2 in
35	marsh sed	133.00	77	0-2 in
36	marsh sed	240.00	76	0-2 in
36	marsh sed	180.00	76	2-4 in
36	marsh sed	82.00	76	0-2 in
36	marsh sed	262.00	76	2-4 in
36	marsh sed	320.00	77	0-2 in
36	marsh sed	44.00	76	0-2 in
36	marsh sed	47.00	76	2-4 in
36	marsh sed	61.00	76	0-2 in
36	marsh sed	1496.00	77	2-4 in
36	marsh sed	332.00	77	4-6 in
36	marsh sed	118.00	77	6-10 in
39	marsh sed	422.00	77	0-2 in
39	marsh sed	348.00	77	2-4 in
39	marsh sed	442.00	77	4-6 in
39	marsh sed	1697.00	77	6-12 in
39	marsh sed	**2006.00**	77	12-13 in
39	ch sed	276.00	72	0-4 in
39	ch sed	807.00	72	4-8 in
39	ch sed	1142.00	72	8-12 in
39	ch sed	1392.00	72	12-18 in
43	marsh sed	38.00	77	6-12 in
45	marsh sed	36.70	76	0-2 in peat
45	marsh sed	245.00	76	2-10 in peat
45	marsh sed	136.00	76	2-10 in peat
47	marsh sed	75.00	74	0-6 in
47	marsh sed	36.00	76	0-2 in peat

48	marsh sed	96.20	72	4-6 in
48	marsh sed	53.00	76	0-2 in peat
50	ch sed	58.00	72	0-2 in
50	ch sed	438.00	72	2-4 in
50	ch sed	247.00	72	4-6 in
50	marsh sed	35.00	76	0-2 in peat
50	marsh sed	84.00	76	2-8 in peat
50	marsh sed	64.00	77	0-2 in
50	marsh sed	100.00	77	2-4 in
50	marsh sed	52.00	77	4-6 in
50	marsh sed	44.00	78	3-5 in
51	marsh sed	57.00	77	6-11 in
53	marsh sed	32.00	77	2-4 in
53	marsh sed	46.00	77	4-6 in
54	marsh sed	40.00	77	0-2 in
54	marsh sed	54.00	77	2-4 in
58	marsh sed	46.00	77	2-4 in
62	marsh sed	105.90	77	0-2 in
62	marsh sed	578.00	77	2-4 in
62	marsh sed	47.00	77	4-6 in
63	marsh sed	493.00	77	0-2 in
63	marsh sed	183.00	77	2-4 in
63	marsh sed	719.00	77	4-6 in
63	marsh sed	255.00	77	6-12 in
64	marsh sed	1747.00	77	0-2 in
64	marsh sed	1713.00	77	2-4 in
64	marsh sed	342.00	77	4-6 in
65	marsh sed	82.00	76	0-2 in
65	marsh sed	262.00	76	2-4 in
66	marsh sed	196.00	77	0-2 in

66	marsh sed	63.00	77	2-4 in
67	marsh sed	1455.00	77	0-2 in
67	marsh sed	1615.00	77	2-4 in
67	marsh sed	301.00	77	4-6 in
67	marsh sed	142.00	77	6-12 in
68	marsh sed	44.00	76	0-2 in
68	marsh sed	47.00	76	2-4 in
83	marsh sed	31.00	77	2-4 in
83	marsh sed	32.00	77	4-6 in
84	marsh sed	280.00	77	0-2 in
84	marsh sed	364.00	77	2-4 in
84	marsh sed	135.00	77	4-6 in
90	sed	45.40	77	gy st/cl 9 in
103	marsh sed	53.00	77	6 in cl,st
109	sed	78.00	84	comp
110	sed	46.00	84	0 in
110	sed	66.00	84	4 in
110	sed	64.00	84	4 in
110	sed	47.00	84	7 in
110	sed	60.00	84	9 in
113	ch sed	74.00	78	0-2 in
113	ch sed	38.00	78	2-4 in
115	sed	32.40	78	4-6 in
116	sed	48.90	78	4-6 in



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Brentwood Tn. 615/373-3350

FIGURE 5-1 SMALL SCALE MASTER MAP REFERENCE LOCATIONS TO SAMPLE SITES

FIGURE 1 STATIONS

SCALE: 1" = 2000'

830000005

The range of mercury contamination in marsh sediments in the upper Berry Creek areas is from 0.6 ppm to 2,006 ppm. The range of mercury contamination in the middle Berrys Creek area is from 0.3 ppm to 246 ppm, and downstream of Route 3 bridge (lower Berrys Creek area) the range is from 0 to 62 ppm.

Figure 2 stations

Greater than 30 ppm Hg

Station	Sample	Concentration (ppm)	Year sampled	Desc.
5	sed	882.00	77	0-3 in
5	sed	695.00	77	3-6 in
5	sed	81.00	77	6-9 in
6	sed	679.00	77	0-3 in
6	sed	625.00	77	3-6 in
6	sed	179.00	77	6-9 in
8	sed	361.00	77	0-3 in
8	sed	420.00	77	3-6 in
8	sed	624.00	77	6-9 in
8	sed	528.00	77	9-12 in
9	sed	165.00	75	ng
9	sed	700.00	80	dry avg. ponar
9	sed	2825.00	77	0-3 in.
9	sed	39940.00	77	3-6 in.
9	sed	**89162.00**	77	6-9 in.
9	sed	66533.00	77	9-12 in.
10	sed	147.00	75	ponar grab
10	sed	410.00	80	dry avg. ponar
10	sed	993.00	77	0-3 in.
10	sed	307.00	77	3-6 in.

(MAP ATTACHED)

10	sed	42.78	78	br. sand
11	sed	57.00	77	0-3 in.
32	sed	68.00	80	ponar grab
36	marsh sed	36.00	76	ng
38	sed	87.60	79	ng
43	sed	83.32	78	bk, surface
43	sed	150.00	80	dry avg. ponar
44	marsh sed	208.00	72	4-6 in.
44	marsh sed	61.70	74	0-6 in
44	sed	420.00	80	dry avg. ponar
44	sed	776.00	78	br.&bk.
45	sed	76.43	78	bk,br
46	sed	30.56	78	br. sand
48	sed	110.00	80	dry avg. ponar
48	sed (total)	131.00	84	ponar grab
49	marsh sed	40.60	74	0-6 in
49	sed	152.00	84	lowtide 1
49	sed	38.00	84	lowtide 2
49	sed	164.00	84	lowtide 1
49	sed	38.00	84	lowtide 2
49	sed	105.00	84	lowtide 1
49	sed	39.00	84	lowtide 1
49	sed	124.00	84	lowtide 2
49	sed	59.00	84	lowtide 1
49	sed	307.00	84	lowtide 2
49	sed	93.00	84	lowtide 1
49	sed	35.00	84	lowtide 2
49	sed	182.00	84	lowtide 1
49	sed	271.00	84	lowtide 2
49	sed	74.00	84	lowtide 1

49	sed	70.00	84	lowtide 2
49	sed	152.00	84	lowtide 1
49	sed	346.00	84	lowtide 2
49	sed	122.00	84	lowtide 1
49	sed	44.00	84	lowtide 2
49	sed	133.00	84	lowtide 1
49	sed	40.00	84	lowtide 2
49	sed	32.00	84	lowtide 2
49	sed	93.00	84	lowtide 2
49	sed	57.00	84	lowtide 1
49	sed	74.00	84	lowtide 2
49	sed	137.00	84	lowtide 1
49	sed	45.00	84	lowtide 2
49	sed	67.00	84	lowtide 1
49	sed	186.00	84	lowtide 2
49	sed	82.00	84	lowtide 1
49	sed	383.00	84	lowtide 2
49	sed	276.00	84	lowtide 1
49	sed	807.00	84	lowtide 2
49	sed	1142.00	84	lowtide 1
49	sed	1392.00	84	lowtide 2
49	sed	570.00	84	dry avg. ponar
49	sed	192.50	84	ponar grab
50	sed	170.00	80	dry avg. ponar
50	sed	576.00	84	ponar grab
51	sed	220.00	80	dry avg. ponar
51	sed	452.00	84	ponar grab
53	sed	96.00	80	dry avg. ponar
54	sed	140.00	80	dry avg. ponar
55	sed	171.00	80	dry avg. ponar

56	sed	65.00	82	0-1 in. inorganic Hg
56	sed	700.00	82	3-18 in. inorganic Hg
56	sed	**1700.00**	82	18-30 in. inorganic Hg
56	sed	300.00	82	18-30 in. inorganic Hg
56	sed	38.00	80	dry avg. ponar
57	sed	370.00	80	dry avg. ponar
58	sed	140.00	80	dry avg. ponar
59	sed	230.00	80	dry avg. ponar
60	sed	167.00	75	ng
60	sed	120.00	80	dry avg. ponar
60	sed	577.00	76	ng
60	sed	35.00	75	ng
61	sed	48.00	80	dry avg. ponar
61	sed	**1730.00**	80	0-4 in
62	sed	140.00	80	dry avg. ponar
63	sed	520.00	80	dry avg. ponar
64	sed	130.00	80	dry avg. ponar
65	sed	310.00	80	dry avg. ponar
65	ch sed	350.00	81	west ponar
65	ch sed	152.00	81	east ponar
66	sed	200.00	80	dry avg. ponar
67	sed	260.00	80	dry avg. ponar
68	sed	490.00	80	dry avg. ponar
68	ch sed	42.00	81	right ponar grab
68	ch sed	40.00	81	left ponar grab
68	ch sed	60.00	81	center ponar
69	sed	160.00	80	dry avg. ponar

70	sed	38.00	82	0-1 in. inorganic Hg
70	sed	240.00	80	dry avg. ponar
71	sed	460.00	80	dry avg. ponar
72	sed	79.00	80	dry avg. ponar
73	sed	120.00	80	dry avg. ponar
74	sed	260.00	80	dry avg. ponar
75	sed	240.00	80	dry avg. ponar
76	sed	110.00	82	1-34 in. inorganic Hg
76	ch sed	106.00	81	west ponar
76	ch sed	72.00	81	east ponar
76	ch sed	34.00	81	center ponar
77	sed	350.00	80	dry avg. ponar
78	sed	46.00	80	dry avg. ponar
79	sed	44.00	80	dry avg. ponar
80	sed	130.00	80	dry avg. ponar
81	sed	100.00	80	dry avg. ponar
82	sed	320.00	80	dry avg. ponar
83	sed	220.00	80	dry avg. ponar
83	sed	**4480.00**	76	ng
84	sed	41.00	80	dry avg. ponar
85	sed	150.00	80	top core ponar
85	ch sed	116.00	81	east ponar
85	ch sed	118.00	81	center ponar
87	sed	280.00	80	top core ponar
87	sed	280.00	80	center core ponar
87	sed	65.00	80	b. core ponar
88	sed	45.00	82	0-1 in. inorganic Hg

88	sed	110.00	82	1-26 in. inorganic Hg
88	sed	30.00	80	top core ponar
90	sed	56.00	80	top core ponar
90	ch sed	44.00	81	west ponar
90	ch sed	289.00	81	center ponar
91	sed	52.00	80	top core ponar
94	sed	35.00	80	dry avg. ponar
96	sed	35.00	80	dry avg. ponar
96	ch sed	108.00	81	center ponar
96	ch sed	121.00	81	east ponar
119	ch sed	128.00	81	west ponar
119	ch sed	100.00	81	east ponar
119	ch sed	275.00	81	center ponar
126	ch sed	128.00	83	composite
129	ch sed	331.00	83	composite
130	ch sed	99.00	83	composite

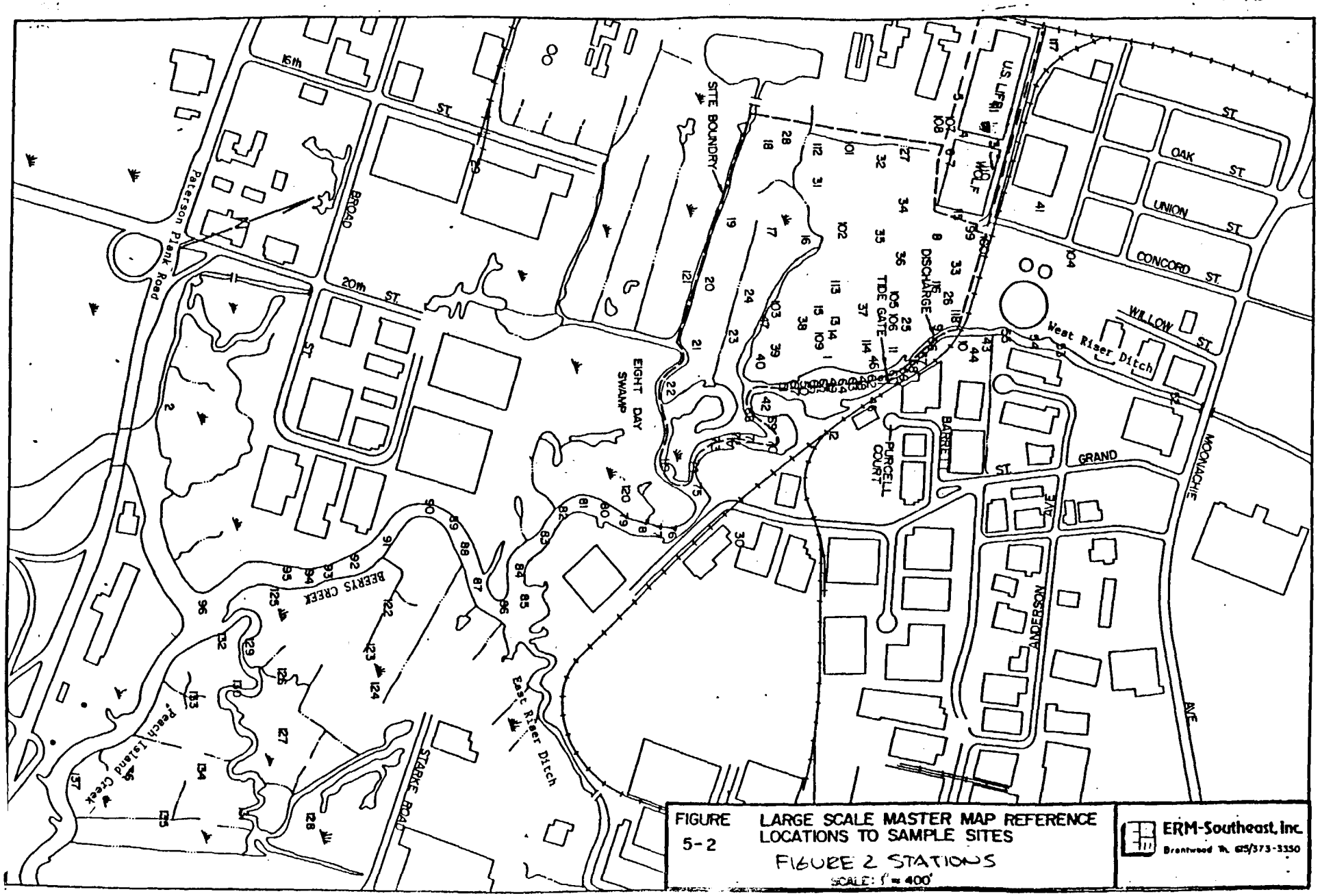

FIGURE 5-2 LARGE SCALE MASTER MAP REFERENCE LOCATIONS TO SAMPLE SITES

FIGURE 2 STATIONS

SCALE: 1" = 400'

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830000012