

APPENDIX A
BUFFALO RIVER
ARCS SEDIMENT DATA TABLES

BUFFALO RIVER - DATA TABLES

Table	Parameter
Table A-1 Survey 1 - Metals	Ag
	As
	Cd
	Cr
	Cu
	Fe
	Hg
	Mn
	Ni
	Pb
	Zn
	Table A-2 Survey 1 - PAHs
Naphthalene	
2-Methylnaphthalene	
Dimethyl phthalate	
Dibenzofuran	
Fluorene	
Phenanthrene	
Anthracene	
Fluoranthene	
Pyrene	
Butyl benzyl phthalate	
Benz(a)anthracene	
Bis(2-ethylhexyl)phthalate	
Chrysene	
Di-n-octyl phthalate	
Benzo(b)fluoranthene	
Benzo(k)fluoranthene	
Benzo(a)pyrene	
Indeno(1,2,3-cd)pyrene	
Benzo(g,h,i)perylene	
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	Bromine
	Chlorine
	Iodine
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	Microtox
	TOC
	Solids
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	Tributyltin
	Dibutyltin
	Methylbutyltin
	AVS
Table A-5 Survey 1 - Dioxins and Furans	Several parameters
Table A-6 Survey 1 - Grain Size	Five levels

Table	Parameter
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	Cr
	Cu
	Fe
	Pb
	Ni
	Zn
Table A-8 Survey 3 - PAHs	Benz(a)anthracene
	Chrysene
	Benzo(b)fluoranthene
	Benzo(k)fluoranthene
Table A-9 Survey 3 - Nonmetals	Ammonia
	Bromine
	Chlorine
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Conductivity	
Microtox	
TOC	
Extresidue	
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	Cis-Chlorodane
	Trans-Chlorodane
	Dieldrin
	4,4'-DDE
4,4'-DDD	
4,4'-DDT	
Table A-13 Survey 3 - PCBs	Congener Total

TABLE A-1 BUFFALO RIVER SURVEY 1 - METALS (ug/g dry wt)

SAMPLE-ID	Ag	As	Cd	Cr	Cu	Fe (% dry weight)	Hg	Mn	Ni	Pb	Zn
BR10101G100	0.46	34.00	4.00	312.00	148.00	5.50	1.93	1,386.00	57.00	286.00	900.00
BR10201G100	<0.03	<1.4	0.03	<13	8.20	0.33	0.01	39.70	5.20	28.40	32.00
BR10301G100	0.44	13.00	1.40	113.00	67.00	4.40	0.62	685.00	45.00	107.00	286.00
BR10401G100	0.22	11.80	1.00	77.00	49.60	4.20	0.18	789.00	50.20	66.90	224.00
BR10501G100	0.16	<4.5	1.60	100.00	60.00	5.40	0.32	673.00	47.00	314.00	371.00
BR10601G100	0.21	12.80	1.20	109.00	89.70	4.24	1.62	630.00	51.50	142.70	389.00
BR10701G100	0.13	12.10	0.90	92.00	48.70	4.13	0.23	726.00	44.40	70.20	195.00
BR10801G100	0.13	12.10	0.70	70.00	45.60	3.72	0.13	731.00	43.00	50.70	165.70
BR10901G100	0.12	10.50	0.69	56.00	41.30	3.42	0.06	726.00	39.60	48.70	159.10
BR11001G100	0.12	8.20	0.57	46.00	34.60	2.96	0.08	556.00	34.40	42.60	142.30

TABLE A-2 BUFFALO RIVER SURVEY 1 - PAHs (ng/g dry wt)

SAMPLE ID	1-4-DCB	2-MNAPH	NAPH	DM-PH	DBF	FLUORE	PHEN	ANTH	FLUORA	PYRENE	BBPH
BR 01 01	730	20,000	2,400	<86	1,600	1,800	6,100	1,700	7,500	6,100	15,000
BR 02 01	<18	<29	<29	<34	<30	<30	<36	<34	<55	<68	<79
BR 03 01	810	470	230	<73	120	400	1,400	1,100	1,900	2,100	<170
BR 04 01	58	<67	<67	<79	<71	<71	580	170	1,200	880	<180
BR 05 01	380	180	190	<63	140	380	2,700	640	2,700	2,500	1,500
BR 06 01	590	790	2,100	<48	1,200	3,400	10,000	4,300	5,100	6,700	6,100
BR 07 01	68	140	83	<45	63	140	680	240	990	1,100	2,600
BR 08 01	54	59	<47	<56	<50	<50	460	120	760	690	<130
BR 09 01	<26	<42	45	<50	<45	46	540	100	1,200	750	210
BR 10 01	<36	<57	<57	<68	<61	<61	520	99	840	910	1,500

SAMPLE ID	BAANTH	BISPH	CHRYS	DNOPH	BFLUOR	BKFLUOR	BAPYR	INDPYR	BGHIPER	SUMPAH
BR 01 01	3,500	39,000	4,000	38,000	7,000	9,500	5,800	3,800	3,800	177,330
BR 02 01	<21	880	<27	<84	<30	<41	<27	<45	<55	880
BR 03 01	680	7,000	1,100	<180	1,000	910	470	520	620	20,830
BR 04 01	460	3,100	610	<200	640	650	600	<100	<130	8,948
BR 05 01	870	8,800	1,200	6,300	1,400	1,200	1,200	640	460	33,380
BR 06 01	1,800	41,000	2,600	24,000	1,500	1,500	1,300	990	1,100	116,070
BR 07 01	470	14,000	690	7,800	670	600	620	250	260	31,464
BR 08 01	260	2,400	440	210	550	370	350	78	<91	6,801
BR 09 01	310	2,700	470	560	610	460	440	220	240	8,901
BR 10 01	330	59,000	480	1,300	770	430	460	160	170	66,969

1-4-DCB = 1,4 Dichlorobenzene
 NAPH = Naphthalene
 2-MNAPH = 2-Methylnaphthalene
 DM-PH = Dimethyl phthalate
 DBF = Dibenzofuran
 FLUORE = Flourene
 PHEN = Phenanthrene
 ANTH = Anthracene
 FLUORA = Fluoranthene
 PYRENE = Pyrene
 BBPH = Butyl benzyl phthalate

BAANTH = Benz(a)anthracene
 BISPH = Bis(2-ethylhexyl)phthalate
 CHRYS = Chrysene
 DNOPH = Di-n-octyl phthalate
 BBFLUOR = Benzo(b)fluoranthene
 BKFLUOR = Benzo(k)fluoranthene
 BAPYR = Benzo(a)pyrene
 INDPYR = Indeno(1,2,3-cd)pyrene
 BGHIPER = Benzo(g,h,i)perylene

TABLE A-3 BUFFALO RIVER SURVEY 1 NON METALS

SAMPLE-ID	AMMONIA (mg/L)	BROMINE (ug/g DW)	CHLORINE (ug/g DW)	IODINE (ug/g DW)
BR10101G100	2.5	*	*	*
BR10201G100	0.7	*	*	*
BR10301G100	5.8	*	*	*
BR10401G100	4.9	*	*	*
BR10501G100	4.3	*	*	*
BR10601G100	5.5	*	*	*
BR10701G100	5.0	*	*	*
BR10801G100	7.0	*	*	*
BR10901G100	18.2	*	*	*
BR11001G100	5.3	*	*	*

*= Data to be provided at a later date

TABLE A-4 BUFFALO RIVER SURVEY 1 - ADDITIONAL PARAMETERS SAMPLED

SAMPLE ID	pH (S.U.)	Conduct. (uS/cm)	Microtox (EC 50)	TOC (%)	Solids (%)	Methyl- mercury (ng/g dry wt)	TBT (ng/g dry wt)	DBT (ng/g dry wt)	MBT (ng/dry g)	AVS (uM/g)
BR10101G100	9.2	1162	40	8.93	29.98	1.63	26.0	36.0	15.0	161
BR10201G100	7.35	774	100	0.25	73.89	<0.05	<0.05	0.69	<0.5	1.26
BR10301G100	6.92	872	44	2.02	50.55	<0.05	14.0	4.6	<0.76	5.83
BR10401G100	7.09	821	100	1.85	46.81	<0.05	3.1	2.6	<0.8	4.18
BR10501G100	7.32	1080	66	1.73	52.42	<0.05	4.6	2.5	<0.69	16.9
BR10601G100	7.21	979	7	(2.1-2.2)	(47.7-49.1)	(2.1-3.4)	(3.3-3.4)	(2.5-4.6)	(1.1-1.7)	(10.4-10.7)
BR10701G100	7.31	999	100	1.71	44.13	<0.05	2.5	<0.89	<0.89	5.67
BR10801G100	7.14	1474	100	1.74	45.87	<0.05	1.7	0.94	<0.85	2.58
BR10901G100	6.9	1266	100	2.19	41.74	<0.05	1.3	<0.92	<0.93	5.12
BR11001G100	7.01	870	100	1.93	42.82	<0.05	1.3	<0.97	<0.98	13.5

TABLE A-5 BUFFALO RIVER SURVEY 1 - DIOXINS AND FURANS (pg/g dry wt)

SAMPLE-ID	2378-TCDF	Total TCDF	2378-TCDD	Total TCDD	12378-PeCDF	23478-PeCDF	Total PeCDF	12378-PeCDD	Total PeCDD	123-478-HxCDF	123-678-HxCDF	123-789-HxCDF	234-678-HxCDF
BR10101G100	7.6	51.0	<2.0	12.0	1.7	2.8	52.0	<3.3	3.6	3.8	<2.5	4.2	2.8
BR10201G100	<2.2	ND	<2.3	ND	<0.8	<0.6	ND	<0.9	ND	<0.7	<0.6	<0.7	<1.0
BR10301G100	4.4	12.0	<1.0	ND	1.0	<1.1	33.0	<1.3	ND	1.6	<0.8	<2.3	<1.1
BR10401G100	<2.2	1.5	<1.7	ND	<1.3	<2.2	19.0	<0.9	5.1	<7.1	<1.0	<2.5	<1.1
BR10501G100	<3.7	ND	<1.7	ND	<0.7	<1.5	16.0	<1.4	ND	<1.5	<0.8	<2.2	<1.1
BR10601G100	5.2	37.0	<2.1	ND	<0.7	<1.0	83.0	<1.5	ND	<2.4	<1.1	<1.2	10.0
BR10701G100	4.7	10.0	<1.3	ND	2.7	<1.1	36.0	<0.9	ND	11.0	3.6	<1.5	<2.3
BR10801G100	<2.4	ND	<1.3	ND	<0.6	<1.6	9.7	<0.6	ND	<2.7	<1.5	<1.4	<0.9
BR10901G100	<2.0	ND	<1.9	ND	<0.7	<1.5	3.1	<0.7	ND	<1.5	<0.6	<1.1	<1.0
BR11001G100	<2.2	ND	<0.9	ND	<0.7	<1.3	3.5	<3.5	7.4	<1.2	<0.7	<1.6	<0.9

SAMPLE-ID	Total HxCDF	123-478-HxCDD	123-678-HxCDD	123-789-HxCDD	Total HxCDD	1234-678-HpCDF	1234-789-HpCDF	Total HpCDF	1234-678-HpCDD	Total HpCDD	OCDF	OCDD
BR10101G100	67.0	9.2	36.0	19.0	190.0	150.0	9.1	640.0	1200.0	2000.0	780.0	12000.0
BR10201G100	ND	<1.1	<0.9	<1.0	ND	<1.8	<1.1	3.8	6.5	12.0	<3.9	53.0
BR10301G100	24.0	<1.2	<3.2	<2.1	14.0	13.0	<1.9	42.0	64.0	120.0	39.0	560.0
BR10401G100	26.0	<1.7	<2.4	<1.7	ND	11.0	<4.2	32.0	43.0	74.0	26.0	340.0
BR10501G100	12.0	<1.1	<1.8	<1.8	8.0	12.0	<1.7	34.0	52.0	93.0	32.0	400.0
BR10601G100	110.0	<1.4	<3.5	<1.8	14.0	23.0	<3.8	61.0	54.0	100.0	42.0	400.0
BR10701G100	54.0	<2.0	<1.5	<1.4	ND	15.0	<3.1	46.0	39.0	69.0	34.0	290.0
BR10801G100	5.6	<0.8	<1.4	<0.8	ND	7.8	<0.95	22.0	28.0	50.0	21.0	250.0
BR10901G100	8.7	<0.8	<1.1	<0.5	5.0	2.8	<0.7	15.0	33.0	59.0	20.0	250.0
BR11001G100	13.0	<0.9	<1.2	<1.4	4.0	5.2	<0.8	27.0	36.0	61.0	20.0	260.0

TABLE 6 BUFFALO RIVER SURVEY 1 - GRAIN SIZE

SAMPLE_ID	> 1 mm	250 u - 1 mm	63 u -250 u	38 u - 63 u	< 38 u
BR10101G100	11.7	11.7	30.5	7.6	43.7
BR10201G100	0.3	38.3	58.5	0.2	0.9
BR10301G100	2.8	4.1	30.3	7	54
BR10401G100	0.2	0.6	6.9	3.7	92
BR10501G100	14.3	14.1	14.6	5.2	51.5
BR10601G100	0.5	0.7	4.7	5.4	89.1
BR10701G100	0.1	0.7	6.3	5.1	86.4
BR10801G100	0.3	0.8	9.2	9.5	74.3
BR10901G100	0.5	2	18.9	10	67
BR11001G100	1.6	10.3	23.3	7.9	55.8

SAMPLE-ID	Fe (% dry weight)						
	Cd	Cr	Cu	Pb	Ni	Zn	
BR30201C101	0.40	6.40	9.10	0.40	10.00	4.30	38.00
BR30201C102	0.00 LDL	15.00	14.00	0.70	18.00	6.00	67.00
BR30301C101	4.90	160.00	160.00	4.30	250.00	43.00	660.00
BR30301C102	6.20	220.00	210.00	4.30	210.00	45.00	590.00
BR30301C103	0.70	25.00	30.00	1.40	34.00	12.00	140.00
BR30402C101	9.30	310.00	280.00	4.10	280.00	57.00	890.00
BR30402C102	3.00	270.00	230.00	4.20	320.00	46.00	1,300.00
BR30402C103	2.80	200.00	190.00	3.80	430.00	41.00	1,100.00
BR30601C101	3.00	58.00	78.00	3.40	130.00	36.00	270.00
BR30601C102	4.60	130.00	140.00	3.50	260.00	37.00	580.00
BR30601C103	2.20	21.00	54.00	2.70	200.00	27.00	180.00
BR30601C104	2.00	14.00	35.00	1.80	170.00	20.00	130.00
BR30601C105	0.40	14.00	17.00	1.30	8.10	14.00	57.00
BR30603C101	2.50	34.00	55.00	2.20	44.00	24.00	290.00
BR30603C102	0.50	17.00	32.00	2.20	20.00	24.00	110.00
BR30603C103	0.60	23.00	26.00	1.90	8.50	19.00	85.00
BR30603C104	2.60	64.00	120.00	3.00	150.00	28.00	360.00
BR30703C101	2.80	65.00	74.00	3.30	120.00	32.00	260.00
BR30703C102	5.00	110.00	98.00	4.00	180.00	36.00	340.00
BR30703C103	8.00	160.00	160.00	5.10	250.00	46.00	620.00
BR30703C104	2.00	90.00	91.00	4.00	160.00	31.00	450.00
BR30801C101	9.20	550.00	340.00	8.00	580.00	67.00	860.00
BR30801C102	16.00	1,400.00	600.00	13.00	940.00	72.00	1,200.00
BR30801C103	0.80	45.00	40.00	2.90	18.00	27.00	95.00
BR30801C104	26.00	2,500.00	980.00	15.00	1,600.00	110.00	1,500.00
BR30802C101	1.50	53.00	67.00	3.30	60.00	35.00	200.00
BR30802C102	4.40	360.00	250.00	7.00	260.00	64.00	680.00
BR30802C103	0.70	36.00	36.00	2.60	9.10	25.00	93.00
BR30802C104	1.80	95.00	110.00	4.00	59.00	42.00	210.00
BR30901C101	1.10	24.00	50.00	2.90	39.00	34.00	160.00
BR30901C102	1.70	47.00	84.00	2.80	110.00	34.00	220.00
BR30901C103	1.30	42.00	68.00	2.50	64.00	28.00	160.00
BR30901C104	1.30	29.00	49.00	2.50	43.00	29.00	140.00
BR31301C101	2.70	41.00	61.00	2.70	91.00	30.00	220.00
BR31301C102	7.70	300.00	230.00	4.10	230.00	43.00	700.00
BR31301C103	3.00	130.00	130.00	4.00	220.00	40.00	510.00
BR31302C101	3.80	130.00	150.00	4.10	370.00	41.00	620.00
BR31302C102	1.00	8.60	12.00	0.90	11.00	7.50	81.00

Table A-7 - Page 1/3

TABLE A-7 BUFFALO RIVER SURVEY 3 - METALS (ug/g)

SAMPLE-ID	Cd	Cr	Cu	Fe (%) dry weight)	Pb	Ni	Zn
BR31402C101	2.00	36.00	65.00	2.90	87.00	37.00	290.00
BR31402C102	2.50	47.00	64.00	3.10	82.00	33.00	220.00
BR31402C103	4.40	190.00	210.00	3.50	230.00	39.00	780.00
BR31601C101	1.60	35.00	57.00	3.10	56.00	34.00	200.00
BR31601C102	7.00	280.00	240.00	11.00	540.00	68.00	1,400.00
BR31601C103	2.20	93.00	120.00	3.90	160.00	38.00	400.00
BR31703C101	1.30	22.00	36.00	1.90	240.00	16.00	220.00
BR31903C101	1.20	34.00	43.00	2.90	35.00	32.00	140.00
BR31903C102	2.90	160.00	130.00	4.00	600.00	39.00	420.00
BR31903C103	4.50	280.00	190.00	6.00	440.00	54.00	2,100.00
BR32003C101	9.90	350.00	300.00	7.40	740.00	57.00	1,700.00
BR32003C102	12.00	320.00	290.00	7.50	770.00	58.00	1,800.00
BR32003C103	4.80	140.00	110.00	5.00	200.00	35.00	880.00
BR32003C104	9.30	390.00	330.00	7.10	680.00	55.00	1,700.00
BR32004C101	1.00	32.00	45.00	2.70	32.00	31.00	130.00
BR32004C102	1.40	40.00	51.00	2.40	42.00	29.00	150.00
BR32004C103	1.30	46.00	56.00	2.10	42.00	24.00	93.00
BR32102C101	1.30	32.00	51.00	3.30	43.00	36.00	180.00
BR32102C102	27.00	1,100.00	1,100.00	22.00	3,400.00	180.00	6,400.00
BR32102C103	2.70	110.00	150.00	3.90	240.00	35.00	680.00
BR32102C104	2.70	88.00	97.00	4.10	220.00	42.00	490.00
BR32202C101	0.90	29.00	47.00	3.30	32.00	36.00	150.00
BR32202C102	6.90	450.00	460.00	34.00	1,800.00	140.00	2,300.00
BR32202C103	3.40	340.00	340.00	5.50	420.00	54.00	990.00
BR32202C104	0.90	35.00	38.00	3.00	8.90	30.00	97.00
BR32301C101	1.40	50.00	69.00	3.90	78.00	40.00	320.00
BR32301C102	33.00	860.00	670.00	17.00	1,600.00	120.00	3,700.00
BR32402C101	1.20	31.00	50.00	3.00	48.00	34.00	160.00
BR32402C102	6.10	270.00	210.00	5.30	350.00	47.00	750.00
BR32402C103	2.10	220.00	150.00	4.10	230.00	37.00	510.00
BR32501C101	1.00	30.00	47.00	2.30	50.00	29.00	140.00
BR32501C102	20.00	1,200.00	680.00	4.00	350.00	51.00	640.00
BR32501C103	0.50	30.00	35.00	2.70	6.10	28.00	85.00
BR32503C101	3.00	51.00	69.00	2.00	66.00	26.00	150.00
BR32503C102	2.30	290.00	130.00	3.00	180.00	34.00	410.00
BR32503C103	1.20	51.00	51.00	2.30	57.00	26.00	150.00
BR32701C101	9.30	160.00	150.00	4.20	260.00	45.00	580.00
BR32701C102	4.00	92.00	98.00	3.60	190.00	37.00	410.00

TABLE A-7 BUFFALO RIVER SURVEY 3 - METALS (ug/g)

SAMPLE-ID	Cd	Cr	Cu	Fe (% dry weight)	Pb	Ni	Zn
BR32702C101	2.00	39.00	65.00	3.10	70.00	35.00	210.00
BR32702C102	5.20	260.00	210.00	4.80	380.00	45.00	810.00
BR32702C103	7.40	270.00	270.00	3.80	280.00	43.00	990.00
BR32801C101	2.50	59.00	78.00	3.40	180.00	38.00	280.00
BR32801C102	3.50	150.00	240.00	4.00	390.00	40.00	1,000.00
BR32801C103	3.70	330.00	270.00	4.90	360.00	49.00	1,800.00
BR33002C101	1.00	21.00	45.00	2.80	29.00	32.00	140.00
BR33002C102	1.50	30.00	54.00	3.00	51.00	36.00	180.00
BR33002C103	8.30	420.00	270.00	11.00	520.00	55.00	1,300.00
BR33102C101	3.00	870.00	200.00	7.80	270.00	50.00	690.00
BR33201C101	1.00	25.00	48.00	2.90	44.00	33.00	160.00
BR33201C102	0.90	26.00	54.00	2.10	140.00	24.00	180.00
BR33201C103	1.20	68.00	56.00	2.60	120.00	28.00	160.00
BR33202C101	3.20	42.00	76.00	3.60	150.00	41.00	230.00
BR33401C101	1.00	28.00	48.00	3.00	52.00	34.00	160.00
BR33401C102	1.50	64.00	66.00	3.20	190.00	35.00	200.00
BR33401C103	9.80	670.00	510.00	10.00	980.00	65.00	1,600.00
BR33402C101	1.00	26.00	47.00	2.90	37.00	34.00	150.00
BR33402C102	1.00	29.00	51.00	2.60	55.00	30.00	160.00
BR33402C103	1.90	200.00	170.00	6.40	240.00	44.00	680.00
BR33501C101	1.40	38.00	57.00	3.10	62.00	35.00	180.00
BR33501C102	10.00	640.00	480.00	13.00	810.00	67.00	1,800.00
BR33501C103	26.00	1,000.00	680.00	16.00	1,600.00	98.00	2,900.00
BR33501C104	2.30	69.00	75.00	3.40	110.00	36.00	270.00
BR33702C101	1.40	24.00	45.00	2.90	36.00	33.00	160.00
BR33702C102	25.00	620.00	540.00	12.00	1,500.00	99.00	3,100.00
BR33702C103	1.90	78.00	65.00	3.10	95.00	29.00	78.00
BR33802C101	1.10	32.00	47.00	2.90	41.00	33.00	150.00
BR33802C102	13.00	370.00	290.00	7.80	660.00	60.00	1,500.00
BR33802C103	2.00	160.00	130.00	3.30	190.00	34.00	470.00
BR33802C104	2.00	130.00	110.00	3.60	170.00	35.00	530.00
BR34001C101	5.20	130.00	120.00	4.80	180.00	48.00	510.00
BR34001C102	8.30	300.00	210.00	5.90	350.00	52.00	970.00
BR34101C101	1.40	29.00	55.00	2.90	51.00	34.00	180.00
BR34101C102	1.50	37.00	45.00	2.50	41.00	30.00	200.00
BR34101C103	2.10	64.00	46.00	2.60	67.00	28.00	330.00

TABLE A-8 BUFFALO RIVER SURVEY 3 - PAHs (ng/g)

SAMPLE-ID	BAA	BBF	BAP	BKF	CHRYSENE
BR30201C101	74	97	76	73	117
BR30301C101	1,558	1,324	1,318	1,007	1,715
BR30402C101	2,282	1,542	1,538	1,245	2,617
BR30601C101	1,154	1,139	1,123	897	1,349
BR30603C101	806	489	552	395	886
BR30801C101	1,963	1,700	1,522	1,050	2,530
BR30801C104	4,647	2,467	2,195	1,652	6,222
BR30901C101	358	506	412	386	541
BR31301C101	714	805	794	670	866
BR31302C101	2,507	1,701	1,812	1,469	2,776
BR31402C201	504	618	549	449	668
BR31601C101	374	585	527	447	549
BR31903C101	471	451	436	378	549
BR31903C103	3,926	2,556	2,688	2,380	4,002
BR32003C101	14,949	11,921	13,842	10,721	14,177
BR32102C101	262	379	324	294	403
BR32102C103	34,680	20,623	24,577	20,894	28,509
BR32301C101	436	487	446	389	562
BR32501C101	466	505	456	413	628
BR32501C101	496	568	484	423	667
BR32501C101	479	523	457	408	637
BR32702C101	4,851	3,772	4,450	3,564	4,632
BR32801C101	924	1,046	992	795	1,134
BR33002C103	5,901	3,361	3,683	2,636	6,472
BR33102C101	412	340	328	275	517
BR33201C201	301	391	318	294	441
BR33201C203	103	59	62	38	108
BR33202C101	2,602	1,242	1,265	962	3,067
BR33402C101	360	522	433	417	530
BR33402C103	5,349	3,414	3,786	3,036	5,396
BR33501C101	472	747	624	530	671
BR33501C103	6,263	4,826	4,191	2,819	7,732
BR33702C101	580	598	702	495	681
BR33702C103	1,537	1,333	1,617	1,150	1,796
BR33802C101	401	567	474	441	573
BR33802C104	21,267	14,855	13,559	8,788	17,857
BR34101C101	553	735	640	568	730

TABLE A-9 BUFFALO RIVER SURVEY 3 - NONMETALS

SAMPLE-ID	AMMONIA (mg/L)	BROMINE(ug/g DW)	CHLORINE(ug/g DW)
BR30201C101	6.2	0.015	0.99
BR30201C102	5.3	0.017	0.94
BR30301C101	22 GUS	0.48	4.7
BR30301C102	31 GUS	0.22	4.1
BR30301C103	9.4	0.1	2.6
BR30402C101	22 GUS	0.17	5.4
BR30402C102	31 GUS	0.62	8.4
BR30402C103	0.34 LLS	1	4.7
BR30601C101	27 GUS	0.082	3.5
BR30601C102	18	0.23	6.6
BR30601C103	16	0.053	1.8
BR30601C104	17	0.03	1.4
BR30601C105	6.1	0.004 FBK	0.55 FBK
BR30603C101	1.1	1.2	12
BR30603C102	0.79	0.011	0.94
BR30603C103	7.5	0.006 FBK	0.88
BR30603C104	5.2	0.15	3.7
BR30703C101	5	0.16	5.5
BR30703C102	4	0.38	12
BR30703C103	3.2	0.52	15
BR30703C104	2.7	0.26	11
BR30801C101	24 GUS	0.014	1.4
BR30801C102	19	2.9	39
BR30801C103	6.2	0.078	1.5
BR30801C104	46 GUS	1.8	18
BR30802C101	16	0.067	2.3
BR30802C102	17	0.33	4
BR30802C103	0.78	0.004 FBK	0.88 FBK
BR30802C104	0.5	0.19	3.4
BR30901C101	49 GUS	0.019	1.5
BR30901C102	36 GUS	0.022	2
BR30901C103	72 GUS	0.059	4.1
BR30901C104	120 GUS	0.44	11
BR31301C101	17	0.033	0.59 FBK
BR31301C102	40 GUS	0.049	4.1
BR31301C103	7.6	0.1	1.7
BR31302C101	9.2	0.18	3.5
BR31302C102	0.27 LLS	0.007 FBK	0.77

TABLE A-9 BUFFALO RIVER SURVEY 3 - NONMETALS

SAMPLE-ID	AMMONIA (mg/L)	BROMINE(ug/g DW)	CHLORINE(ug/g DW)
BR31402C101	8.5	0.085	4.2
BR31402C102	45 GUS	0.065	2.4
BR31402C103	23 GUS	0.45	4.2
BR31601C101	6.5	0.075	3.1
BR31601C102	18	0.74	8.8
BR31601C103	9.8	0.41	8
BR31703C101	1.9	0.028	1.1
BR31903C101	13	0.085	2
BR31903C102	11	0.83	60
BR31903C103	5.5	1.4	12
BR32003C101	15	0.56	7.4
BR32003C102	5.2	0.69	13
BR32003C103	11	0.084	3.5
BR32003C104	4.5	0.57	9.1
BR32004C101	19	0.018	1.4
BR32004C102	10	0.023	1.7
BR32004C103	2.3	0.25	11
BR32102C101	11	0.09	4.6
BR32102C102	30 GUS	3.1	28
BR32102C103	9.6	0.95	13
BR32102C104	7.8	0.21	3.9
BR32202C101	0.4	0.014	1.1 FBK
BR32202C102	16	0.29	3.9
BR32202C103	6.2	3.9	37
BR32202C104	5.1	0.15	1.9
BR32301C101	25 GUS	0.017	0.94 FBK
BR32301C102	18	1.4	14
BR32402C101	10	0.048	3
BR32402C102	8.9	1.9	15
BR32402C103	10	2.1	13
BR32501C101	22 GUS	0.071	4
BR32501C102	25 GUS	0.054	3.7
BR32501C103	0.57	0.003 FBK	0.46 FBK
BR32503C101	15	0.19	5.8
BR32503C102	14	8.5	160
BR32503C103	13	0.98	12
BR32701C101	16	0.16	3.9
BR32701C102	28 GUS	0.35	5.4

TABLE A-9 BUFFALO RIVER SURVEY 3 - NONMETALS

SAMPLE-ID	AMMONIA (mg/L)	BROMINE(ug/g DW)	CHLORINE(ug/g DW)
BR32702C101	11	0.042	2.4
BR32702C102	16	0.54	9.2
BR32702C103	18	0.26	4.4
BR32801C101	28 GUS	0.063	0.09 FBK
BR32801C102	34 GUS	1.4	21
BR32801C103	25 GUS	1.5	21
BR33002C101	12	0.068	2.3
BR33002C102	0.93	0.062	5.2
BR33002C103	22 GUS	3.9	100
BR33102C101	3.4	0.094	2.6
BR33201C101	27 GUS	0.009 FBK	0.89 FBK
BR33201C102	16	6.1	13
BR33201C103	14	0.01 FBK	0.86 FBK
BR33202C101	140 GUS	0.052	3.2
BR33401C101	28 GUS	0.027	2
BR33401C102	30 GUS	0.054	2.3
BR33401C103	38 GUS	1.9	20
BR33402C101	24 GUS	0.035	2
BR33402C102	34 GUS	0.031	2.8
BR33402C103	9.6	4.2	25
BR33501C101	42 GUS	0.037	1.5
BR33501C102	12	6	55
BR33501C103	28 GUS	3.6	41
BR33501C104	12	0.33	4.6
BR33702C101	10	0.007 FBK	1.4
BR33702C102	60 GUS	1.6	18
BR33702C103	8.6	0.036	1.5
BR33802C101	20 GUS	0.023	2.1
BR33802C102	26 GUS	1.5	16
BR33802C103	13	1.2	5.8
BR33802C104	15	0.24	2.7
BR34001C101	9.8	0.062	3.1
BR34001C102	6.4	0.15	3.6
BR34101C101	24 GUS	0.023	1.7
BR34101C102	17	0.034	1
BR34101C103	12	0.063	1.6

TABLE A-10 - BUFFALO RIVER SURVEY 3 - ADDITIONAL PARAMETERS SAMPLED

SAMPLE_ID	Conduct. uS/cm	Extresidue ug/g dry wt	Microtox EC_50	pH	TOC ug/g dry wt
BR30201C101	1150	170 PNQ	100	7.16	0.27 LDL
BR30201C102	2190	1,000	100	7.74	0.27 LDL
BR30301C101	1840	3,100	62	7.04	2.3
BR30301C102	3490 GUS	5,200	23	6.88 LLS	2.5
BR30301C103	3530 GUS	1,900	85	7.03	0.49 PNQ
BR30402C101	2470	3,200	42	6.88 LLS	2.7
BR30402C102	4970	5,500	25	6.76 LLS	3
BR30402C103	2770	4,300	20	6.97 LLS	1.9
BR30601C101	2390	2,200	100	6.96 LLS	1.8
BR30601C102	3050 GUS	4,200	39	7.09	2
BR30601C103	3590 GUS	3,000	100	6.97 LLS	1.6
BR30601C104	2970 GUS	1,400	100	7.13	1.2
BR30601C105	1590	120 PNQ	100	7.3	0.27 LDL
BR30603C101	2990 GUS	8,100	80	7.51	0.74 PNQ
BR30603C102	3870 GUS	3,600	100	7.55	0.83 PNQ
BR30603C103	1720	140 PNQ	100	7.47	0.6 PNQ
BR30603C104	2350	5,700	47	7.54	3.1
BR30703C101	2480	3,000	100	7.5	2
BR30703C102	3100 GUS	9,700	100	7.04	2.2
BR30703C103	4220 GUS	17,000	100	7.07	6.2
BR30703C104	4340 GUS	6,900	85	6.89 LLS	4.4
BR30801C101	2530	2,200	6.8	7.05	4
BR30801C102	2180	12,000	5.7	8.41 GUS	4.7
BR30801C103	NSQ	400	37	7.59	1.1
BR30801C104	2290	26,000	6.2	7.81	5.4
BR30802C101	2430	680	100	7.5	2.3
BR30802C102	3870 GUS	5,100	16	7.11	2.1
BR30802C103	NSQ	170 PNQ	100	7.2	1.3
BR30802C104	NSQ	860	46	7.98	0.75 PNQ
BR30901C101	2070	1,100	100	6.9 LLS	2.3
BR30901C102	NSQ	1,000	100	7.14	1.9
BR30901C103	NSQ	3,900	22	7.09	2.2
BR30901C104	NSQ	17,000	94	7.07	1.8
BR31301C101	2400	1,700	100	7.01	1.8
BR31301C102	5990	910	78	7.59	2.4
BR31301C103	NSQ	760	48	7.26	3.3
BR31302C101	2070	2,700	92	6.99 LLS	2.1
BR31302C102	NSQ	150 PNQ	100	7.87	0.81 PNQ

TABLE A-10 - BUFFALO RIVER SURVEY 3 - ADDITIONAL PARAMETERS SAMPLED

SAMPLE_ID	Conduct. uS/cm	Extresidue ug/g dry wt	Microtox EC_50	pH	TOC ug/g dry wt
BR31402C101	2180	1,200	100	6.65 LLS	2.3
BR31402C102	4320 GUS	1,200	100	6.72 LLS	1.7
BR31402C103	5090 GUS	5,000	100	6.78 LLS	2.5
BR31601C101	1770	1,300	100	6.85 LLS	2.2
BR31601C102	5550 GUS	6,900	90	7.23	4.6
BR31601C103	NSQ	4,100	100	7.37	2.5
BR31703C101	2880 GUS	560	100	6.93 LLS	0.34 PNQ
BR31903C101	1860	680	100	7.12	2
BR31903C102	NSQ	2,200	100	7.24	2.5
BR31903C103	NSQ	4,300	32	7.03	4.2
BR32003C101	2120	8,300	31	7.95	5.2
BR32003C102	2710	12,000	32	7.65	3.9
BR32003C103	NSQ	3,900	100	7.02	2.4
BR32003C104	3910 GUS	6,400	32	7.55	3.6
BR32004C101	2350	350 PNQ	100	7.19	2.1
BR32004C102	3510 GUS	520	100	7.02	2.9
BR32004C103	3440 GUS	2,500	100	7.21	0.77 PNQ
BR32102C101	1800	1,300	100	6.54 LLS	2.3
BR32102C102	NSQ	24,000	22	7.38	3.6
BR32102C103	NSQ	13,000	21	7.48	3
BR32102C104	1940	1,800	57	7.09	2
BR32202C101	2210	170 PNQ	100	7.43	1.9
BR32202C102	709	5,300	41	8.7 GUS	1
BR32202C103	NSQ	20,000	5.1	7.86	3.5
BR32202C104	NSQ	840	74	7.82	0.61 PNQ
BR32301C101	2250	680	100	6.84 LLS	1.7
BR32301C102	1240	1,100	33	7.41	4.3
BR32402C101	2190	480	100	7.17	2.3
BR32402C102	NSQ	11,000	37	7.06	3.6
BR32402C103	NSQ	5,300	43	7.01	3.2
BR32501C101	3040 GUS	8,200	100	7.25	1.7
BR32501C102	5890 GUS	1,500	9.1	7.33	3.2
BR32501C103	NSQ	32 LDL	100	8.22	0.4 PNQ
BR32503C101	3690 GUS	3,700	84	6.93 LLS	2.7
BR32503C102	4500 GUS	9,700	100	7.1	2.3
BR32503C103	NSQ	10,000	100	6.8 LLS	1.2
BR32701C101	3180 GUS	1,800	100	6.59 LLS	2.6
BR32701C102	3060 GUS	3,300	100	7	2.5

TABLE A-10 - BUFFALO RIVER SURVEY 3 - ADDITIONAL PARAMETERS SAMPLED

SAMPLE_ID	Conduct. uS/cm	Extresidue ug/g dry wt	Microtox EC_50	pH	TOC ug/g dry wt
BR32702C101	2990 GUS	1,300	100	7.11	1.7
BR32702C102	4640 GUS	6,600	60	7.15	2.5
BR32702C103	4420 GUS	3,800	41	7.16	3
BR32801C101	1890	1,200	100	6.9 LLS	2
BR32801C102	3180 GUS	7,200	68	7.13	2.4
BR32801C103	5820 GUS	9,800	49	6.85 LLS	3.3
BR33002C101	1720	950	100	7.27	3
BR33002C102	3030 GUS	850	100	7.06	2.3
BR33002C103	1400	18,000	60	6.92 LLS	5
BR33102C101	3200 GUS	700	20	10.8 GUS	1.9
BR33201C101	2100	160 PNQ	100	6.91 LLS	1.9
BR33201C102	4360 GUS	4,100	100	6.67 LLS	1.8
BR33201C103	NSQ	120	100	7.14	2.1
BR33202C101	8160 GUS	2,100	5.2	7.78	2.2
BR33401C101	1480	660	100	7.19	2
BR33401C102	1120	1,000	100	7.21	1.6
BR33401C103	2380	12,000	29	7.53	3.7
BR33402C101	1640	430	100	6.75 LLS	2.5
BR33402C102	3870 GUS	970	100	6.87 LLS	2.2
BR33402C103	NSQ	12,000	17	7.71	2.7
BR33501C101	NSQ	490	100	6.69 LLS	1.9
BR33501C102	3090 GUS	22,000	14	7.15	3.4
BR33501C103	3700 GUS	21,000	8	7.07	7.1
BR33501C104	1800	2,300	100	7.07	2.1
BR33702C101	NSQ	210	100	6.92 LLS	2.3
BR33702C102	NSQ	17,000	33	6.73 LLS	3.9
BR33702C103	NSQ	1,800	100	7.38	1
BR33802C101	1260	640	100	6.91 LLS	2
BR33802C102	NSQ	18,000	9.8	7.07	2.7
BR33802C103	NSQ	5,800	16	6.87 LLS	2.2
BR33802C104	NSQ	5,700	15	7.3	2.8
BR34001C101	4430 GUS	1,300	100	7.46	3.2
BR34001C102	5170 GUS	2,400	100	8.6	3.3
BR34101C101	1320	530	100	7.1	2
BR34101C102	NSQ	700	100	7.36	1.6
BR34101C103	NSQ	1,600	100	7.07	1.5

TABLE A-11 BUFFALO RIVER SURVEY 3 - GRAIN SIZE (% dry wt)

SAMPLE_ID	G1000U	L1000250U	L25063U	L6338U	LT38U	TOTAL
BR30201C101	0.15	38	53	0.29	6.4	98
BR30201C102	6.1	37	38	2.7	17	100
BR30301C101	0.13	0.91	16	9.6	72	99
BR30301C102	5.9	1.1	11	8	76	100
BR30301C103	2.1	5.8	49	13	30	100
BR30402C101	0.38	1.1	19	11	76	110
BR30402C102	2.3	2.1	14	11	71	100
BR30402C103	1.7	1.6	15	11	60	89
BR30601C101	0.22	1.9	19	13	67	100
BR30601C102	0.71	2	21	12	64	99
BR30601C103	0.27	3.5	39	13	44	99
BR30601C104	9.5	38	16	2.7	33	99
BR30601C105	16	28	7.6	1.2	47	100
BR30603C101	2.5	8.5	42	7.6	36	97
BR30603C102	2.7	5.8	24	9.6	53	95
BR30603C103	4.2	3.9	2.9	1	87	99
BR30603C104	11	8.8	11	4.7	63	98
BR30703C101	0.3	1.9	22	11	63	98
BR30703C102	0.52	2.2	20	12	67	100
BR30703C103	1.2	2.8	9.7	6.3	82	100
BR30703C104	3.9	3.6	19	12	59	97
BR30801C101	2.3	2.3	8.9	7.4	69	90
BR30801C102	4.2	12	15	6.4	60	97
BR30801C103	3.9	1.2	1.1	0.84	93	100
BR30801C104	0.45	4.3	12	8	67	91
BR30802C101	1.9	5.1	13	11	79	110
BR30802C102	11	15	15	5.5	46	92
BR30802C103	1.5	1.2	0.88	0.54	94	99
BR30802C104	0.65	6.6	4.3	1.3	74	87
BR30901C101	0.45	1.1	15	11	75	100
BR30901C102	0.073	1.5	12	7.5	72	93
BR30901C103	0.69	1.7	36	11	51	100
BR30901C104	0.54	4.6	26	12	64	110
BR31301C101	0.61	1.4	29	12	57	99
BR31301C102	0.088	1.1	18	9.7	77	110
BR31301C103	0.082	1	19	11	73	100
BR31302C101	12	5	9.9	8.5	62	98
BR31302C102	1.1	0.24	22	33	39	96

TABLE A-11 BUFFALO RIVER SURVEY 3 - GRAIN SIZE (% dry wt)

SAMPLE ID	G1000U	L1000250U	L25063U	L6338U	LT38U	TOTAL
BR31402C101	0.55	2.3	11	9.5	75	98
BR31402C102	1.3	5.5	15	6.9	68	96
BR31402C103	1.1	7.2	15	8.3	65	96
BR31601C101	0.2	0.79	4.7	5.3	93	100
BR31601C102	1.6	5.7	17	8.2	67	99
BR31601C103	0.3	1.1	12	12	63	88
BR31703C101	5.7	61	25	1.2	6.1	99
BR31903C101	0.07	0.78	23	16	60	100
BR31903C102	5.9	4.1	17	10	64	100
BR31903C103	3.1	8.9	17	6.2	60	95
BR32003C101	4.4	4.2	12	8.1	67	97
BR32003C102	4.8	4.2	13	8	67	97
BR32003C103	0.81	1.5	11	11	79	100
BR32003C104	13	3.6	8.1	5.7	65	96
BR32004C101	1.1	2	16	8.5	72	99
BR32004C102	12	6.2	20	5.8	64	110
BR32004C103	4	9.2	34	3.7	46	97
BR32102C101	0.31	0.25	3.7	6.3	83	93
BR32102C102	0.6	1	8.6	6.8	76	93
BR32102C103	2.6	4	39	7.7	46	99
BR32102C104	0.15	0.44	6.1	6.5	86	99
BR32202C101	0.082	0.18	5.1	7.7	93	110
BR32202C102	0.4	7.5	32	5.1	56	100
BR32202C103	0.29	1.6	29	13	53	97
BR32202C104	0.12	0.62	3.7	2.3	93	99
BR32301C101	2.7	1.8	12	8.8	77	100
BR32301C102	8.9	15	15	7.5	51	99
BR32402C101	0.12	0.31	8.9	10	83	100
BR32402C102	0.65	1	6.9	9	84	100
BR32402C103	0.79	1.3	25	14	60	100
BR32501C101	0.2	6	24	10	61	100
BR32501C102	0.76	1.7	12	9.6	79	100
BR32501C103	0.29	0.26	0.53	0.6	98	100
BR32503C101	4.5	2.4	15	9.1	66	97
BR32503C102	4	4.2	25	13	61	110
BR32503C103	7.5	11	41	7.3	28	95
BR32701C101	0.048	1.1	6.2	5.3	80	92
BR32701C102	0.12	1.2	16	7.7	75	100

TABLE A-11 BUFFALO RIVER SURVEY 3 - GRAIN SIZE (% dry wt)

SAMPLE_ID	G1000U	L1000250U	L25063U	L6338U	LT38U	TOTAL
BR32702C101	14	11	17	6.2	57	110
BR32702C102	3.3	4.6	9.8	10	80	110
BR32702C103	9.5	5.5	18	8.7	56	98
BR32801C101	0.26	0.6	7.5	7.4	85	100
BR32801C102	0.36	0.96	11	12	76	100
BR32801C103	1	1.5	7.7	8	82	100
BR33002C101	1.2	0.94	15	14	67	98
BR33002C102	0.15	0.61	7.7	8.6	84	100
BR33002C103	0.43	2.1	20	11	66	99
BR33102C101	34	17	19	3.3	26	100
BR33201C101	0.067	1.1	21	12	67	100
BR33201C102	1.4	2.8	43	8.7	41	96
BR33201C103	0.027	0.43	43	16	45	100
BR33202C101	2.7	1.6	11	9.7	66	91
BR33401C101	0.11	0.21	6.7	7.8	86	100
BR33401C102	0.5	2.4	13	8.8	76	100
BR33401C103	0.93	1.9	12	11	72	97
BR33402C101	0.085	0.29	8.4	9.6	82	100
BR33402C102	0.58	1.2	16	9.2	72	99
BR33402C103	1.2	1.1	9.4	8.5	74	95
BR33501C101	0.19	0.63	9.2	7.8	78	96
BR33501C102	0.35	2	20	10	69	100
BR33501C103	1.1	1.1	15	10	72	100
BR33501C104	0.087	0.57	11	8.6	80	100
BR33702C101	0.24	1.3	18	8.8	70	98
BR33702C102	0.45	2.4	16	10	74	100
BR33702C103	3.3	2.2	15	5.9	67	94
BR33802C101	0.62	3.3	32	13	70	120
BR33802C102	0.59	2.2	3.5	11	63	80
BR33802C103	0.48	6.1	35	6.5	48	96
BR33802C104	2.9	7.2	32	8	49	99
BR34001C101	0.27	2	4.7	2.6	92	100
BR34001C102	0.82	1.3	3.1	2.3	93	100
BR34101C101	0.59	0.59	9.5	10	76	97
BR34101C102	5.2	6.8	19	9.9	53	94
BR34101C103	11	11	30	12	64	130

TABLE A-12 BUFFALO RIVER SURVEY 3 - PESTICIDES (ng/g dry wt)

SAMPLE_ID	Heptachlor Epoxide	Cis- Chlorodane	Trans- Chlorodane	Dieldrin	4,4'-DDE	4,4'-DDD	4,4'-DDT
BR30201C101	2 U	2 U	2 U	2 U	2 U	2 U	2 U
BR30201C102	20 U	10 U	2 U	10 U	2 U	2 U	10 U
BR30301C101	20 U	2 U	2 U	40 U	2 U	20 U	20 U
BR30301C103	10 U	10 U	10 U	40 U	20 U	20 U	20 U
BR30402C101	40 U	10 U	2 U	40 U	2 U	20 U	20 U
BR30402C103	10 U	100 U	10 U	177	100 U	100 U	137
BR30601C101	10 U	2 U	10 U	20 U	2 U	20 U	10 U
BR30601C105	5 U	2 U	2 U	2 U	2 U	2 U	59
BR30603C101	2 U	2 U	2 U	10 U	2 U	2 U	10 U
BR30603C104	10 U	40 U	40 U	40 U	40 U	40 U	40 U
BR30801C101	100 U	20 U	2 U	100 U	100 U	100 U	88
BR30801C101	100 U	100 U	10 U	1000 U	100 U	100 U	100 U
BR30801C104	200 U	200 U	200 U	200 U	200 U	1000 U	2000 U
BR30801C104	200 U	200 U	200 U	200 U	200 U	1000 U	2000 U
BR30901C101	2 U	2 U	2 U	20 U	2 U	10 U	10 U
BR30901C104	20 U	20 U	10 U	10 U	10 U	10 U	40 U
BR31301C101	2 U	10 U	2 U	20 U	2 U	10 U	10 U
BR31301C103	10 U	100 U	100 U	106	100 U	100 U	152
BR31302C101	10 U	2 U	2 U	20 U	2 U	2 U	20 U
BR31302C102	10 U	2 U	2 U	2 U	2 U	2 U	2 U
BR31402C201	2 U	2 U	2 U	10 U	2 U	10 U	20 U
BR31402C203	10 U	10 U	10 U	26	10 U	13	41
BR31601C101	2 U	2 U	2 U	20 U	2 U	10 U	10 U
BR31601C103	20 U	2 U	100 U	2 U	10 U	2 U	169
BR31903C101	2 U	2 U	2 U	20 U	2 U	10 U	10 U
BR31903C103	100 U	84	10 U	2 U	2 U	10 U	2 U
BR31903C103	100 U	100 U	100 U	20 U	20 U	20 U	10 U
BR32003C101	2 U	2 U	20 U	10 U	10 U	2 U	57
BR32003C101	60 U	20 U	20 U	20 U	40 U	20 U	20 U
BR32102C101	2 U	2 U	2 U	10 U	2 U	10 U	10 U
BR32102C101	2 U	52	2 U	2 U	2 U	20 U	20 U
BR32102C101	9 U	4 U	4 U	4 U	4 U	40 U	40 U
BR32301C101	2 U	2 U	2 U	20 U	2 U	10 U	10 U
BR32501C101	2 U	2 U	2 U	2 U	2 U	10 U	20 U
BR32702C101	2 U	2 U	2 U	20 U	2 U	10 U	20 U

TABLE A-12 BUFFALO RIVER SURVEY 3 - PESTICIDES (ng/g dry wt)

SAMPLE_ID	Heptachlor	Heptachlor Epoxide	Cis-Chlorodane	Trans-Chlorodane	Dieldrin	4,4'-DDE	4,4'-DDD	4,4'-DDT
BR32702C103	10 U	40 U	10 U	128	40 U	40 U	40 U	49
BR32801C101	2 U	2 U	2 U	10 U	2 U	10 U	2 U	2 U
BR32801C103	100 U	100 U	100 U	121	100 U	100 U	163	44
BR33002C103	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
BR33002C103	50 U	50 U	50 U	50 U	50 U	200 U	200 U	200 U
BR33102C101	20 U	2 U	2 U	2 U	10 U	10 U	2 U	10 U
BR33201C201	2 U	2 U	2 U	10 U	2 U	10 U	10 U	10 U
BR33201C203	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
BR33202C101	2 U	10 U	2 U	10 U	10 U	10 U	2 U	20 U
BR33402C101	2 U	2 U	2 U	10 U	2 U	10 U	10 U	10 U
BR33402C103	20 U	10 U	2 U	2 U	2 U	10 U	20 U	10 U
BR33501C101	2 U	2 U	2 U	2 U	2 U	10 U	2 U	10 U
BR33501C103	200 U	200 U	200 U	200 U	200 U	1000 U	1000 U	1000 U
BR33501C103	200 U	200 U	200 U	200 U	200 U	1000 U	1000 U	1000 U
BR33702C101	2 U	2 U	2 U	2 U	2 U	10 U	10 U	10 U
BR33702C103	2 U	10 U	2 U	20 U	2 U	2 U	10 U	10 U
BR33802C101	2 U	2 U	2 U	20 U	2 U	10 U	10 U	10 U
BR33802C104	2 U	40 U	10 U	2 U	2 U	2 U	10 U	2 U
BR34101C101	2 U	2 U	2 U	10 U	2 U	10 U	10 U	10 U
BR34101C103	10 U	10 U	10 U	10 U	10 U	2 U	2 U	10 U

TABLE A-13 BUFFALO RIVER SURVEY 3 - TOTAL PCBs (ng/g dry wt)

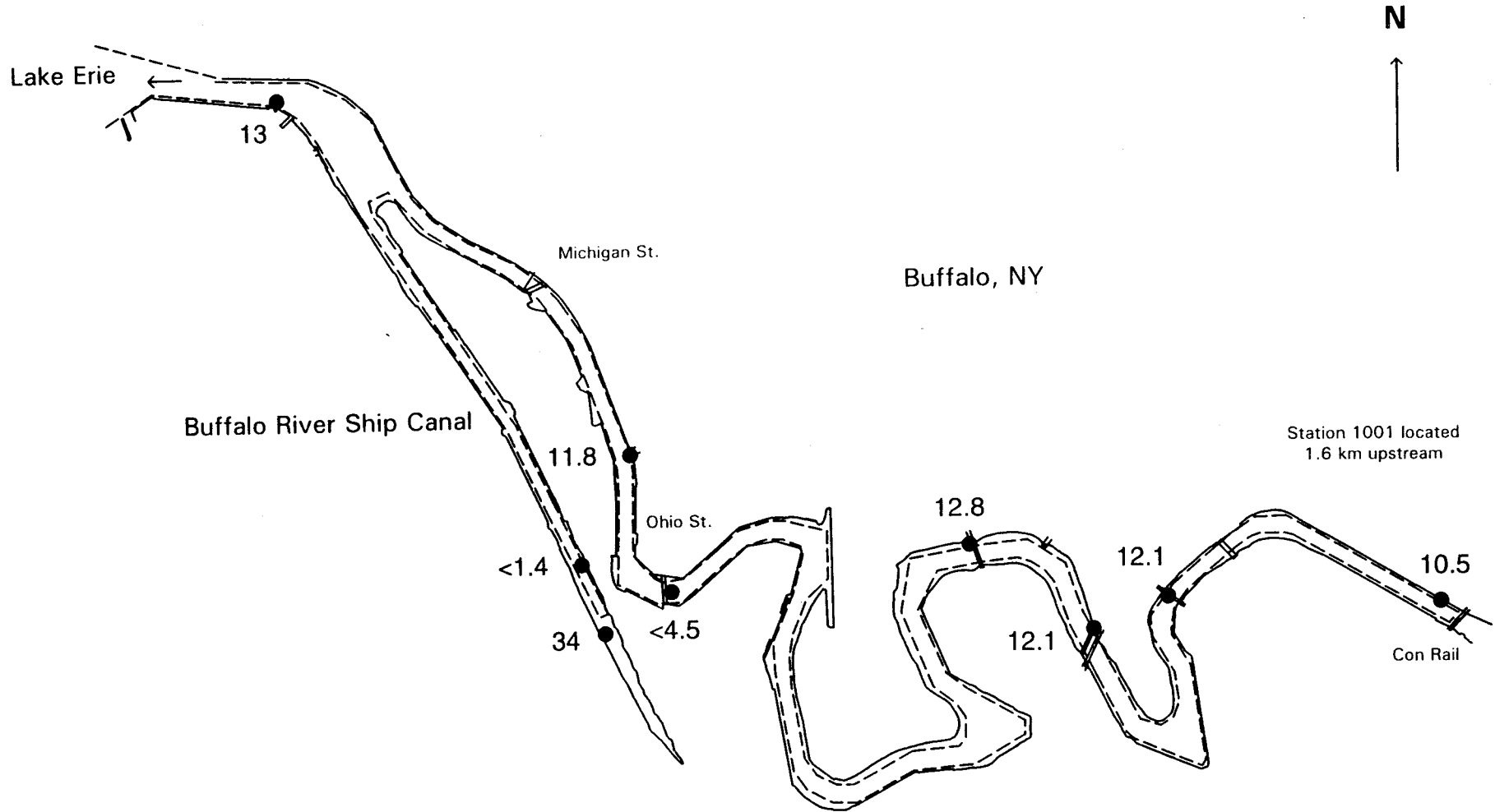
SAMPLE_ID	Congener Total
BR30201C101	79.03
BR30301C101	2595.31
BR30402C101	3364.77
BR30601C101	1057.22
BR30603C101	138.38
BR30801C101	14830.5
BR30801C101	7256.88
BR30801C104	49935.16
BR30801C104	45264.24
BR30901C101	233.72
BR31302C101	1124.29
BR31402C201	649.32
BR31601C101	316.49
BR31903C101	179.49
BR31903C103	8411.02
BR31903C103	6690.64
BR32003C101	10035.56
BR32003C101	8709.45
BR32102C101	137.85
BR32102C103	5135.21
BR32102C103	1233.59
BR32301C101	315.36
BR32501C101	767.11
BR32702C101	386.73
BR32801C101	601.71
BR33002C103	6341.76
BR33102C101	1961.2
BR33201C203	43.9
BR33202C101	1700.59
BR33402C101	115.75
BR33402C103	1778.42
BR33501C101	525.84
BR33501C103	24486.84
BR33501C103	38200.48
BR33702C101	161.97
BR33702C103	181.48
BR33801C101	136.6
BR33801C104	2436.2
BR34101C101	219.17

APPENDIX B
BUFFALO RIVER
ARCS RAW SEDIMENT DATA MAPS

**APPENDIX B
BUFFALO RIVER - CONCENTRATION MAP PAGE NUMBER**

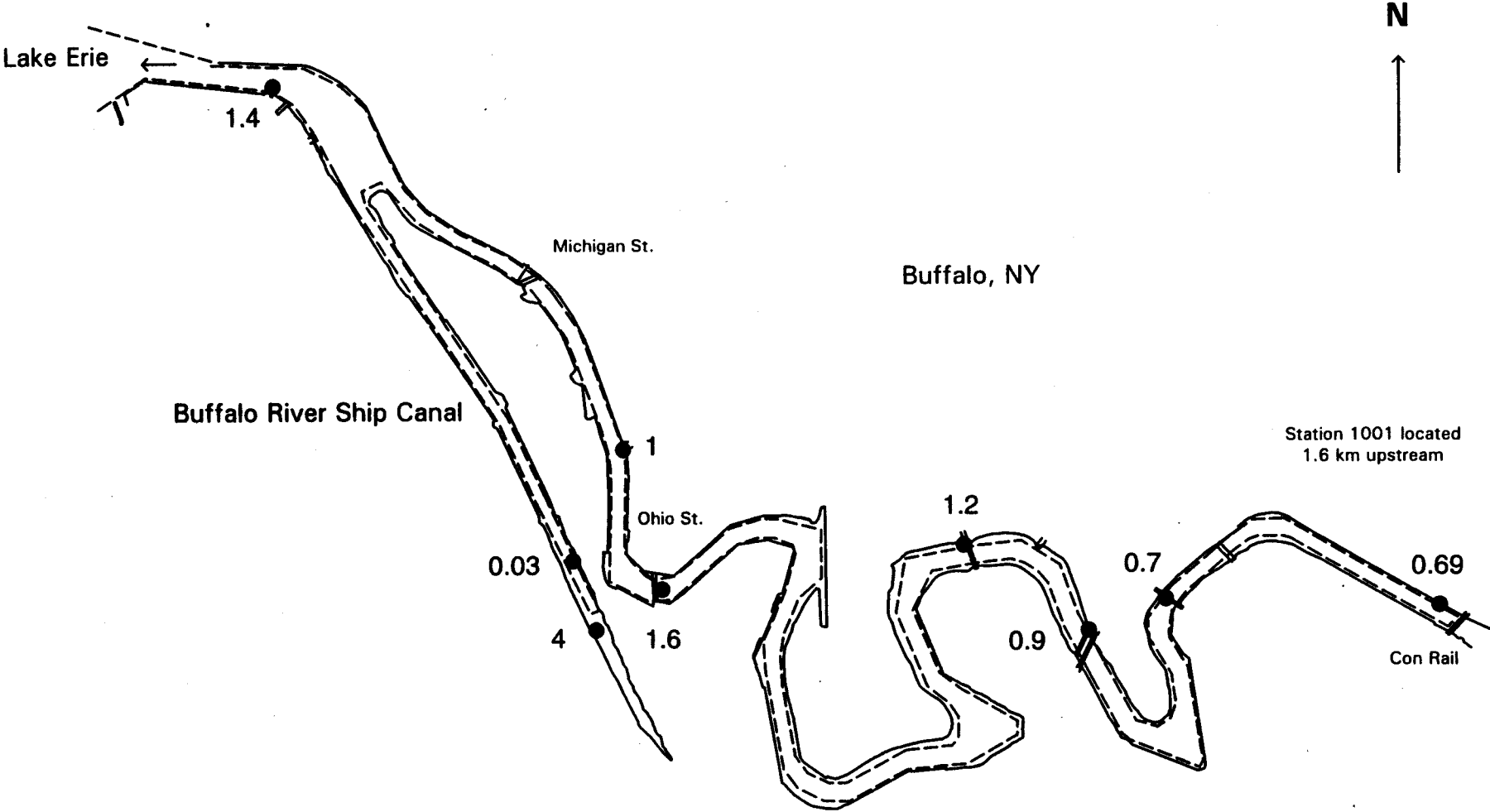
Table	Parameter	Survey 1	Survey 3					
		Surface	0-2ft	2-4ft	4-6ft	6-8ft	Intensive Zone	
Metals	Arsenic	B-3						
	Cadmium	B-4	B-5	B-6	B-7	B-8	B-9	
	Chromium	B-10	B-11	B-12	B-13	B-14	B-15	
	Copper	B-16	B-17	B-18	B-19	B-20	B-21	
	Iron	B-22	B-23	B-24	B-25	B-26	B-27	
	Lead	B-28	B-29	B-30	B-31	B-32	B-33	
	Manganese	B-34						
	Mercury	B-35						
	Nickel	B-36	B-37	B-38	B-39	B-40	B-41	
	Silver	B-42						
	Zinc	B-43	B-44	B-45	B-46	B-47	B-48	
	PAHs	1,4-Dichlorobenzene	B-49					
		2-Methylnaphthalene	B-50					
Anthracene		B-51						
Benz(a)anthracene		B-52	B-53		B-54	B-55		
Benzo(a)pyrene		B-56	B-57		B-58	B-59		
Benzo(b)fluoranthene		B-60	B-61		B-62	B-63		
Benzo(k)fluoranthene		B-64	B-65		B-66	B-67		
Chrysene		B-68	B-69		B-70	B-71		
Fluoranthene		B-72						
Fluorene		B-73						
Indeno(1,2,3-cd)pyrene		B-74						
Naphthalene		B-75						
Phenanthrene		B-76						
Pyrene		B-77						
Nonmetals	Ammonia	B-78	B-79	B-80	B-81		B-82	
	Bromine		B-83	B-84	B-85		B-86	
	Chlorine		B-87	B-88			B-89	
Pesticides	4,4'-DDT	B-90						
	Dieldrin	B-91						
PCBs	Congener Total		B-92	B-93	B-94	B-95		
Additional Parameters	Conductivity		B-96	B-97	B-98		B-99	
	Microtox	B-100	B-101	B-102	B-103		B-104	
	TOC	B-105	B-106	B-107	B-108		B-109	
	Total Solids	B-110						
	Volatile Solids	B-111						
	Tributyltin	B-112						
	Extractable Residue		B-113	B-114	B-115		B-116	
	Dry Weight of Sample	B-117						
Grain Size	<38 u (%)	B-118	B-119	B-120	B-121		B-122	
	30 u - 63 u (%)	B-123	B-124	B-125	B-126		B-127	
	63 u - 250 u (%)	B-128	B-129		B-130		B-131	
	250 u - 1 MM (%)	B-132	B-133	B-134	B-135		B-136	
	>1 MM (%)	B-137	B-138	B-139	B-140		B-141	

BUFFALO RIVER SURVEY 1 ARSENIC CONCENTRATIONS (ug/g dry wt)

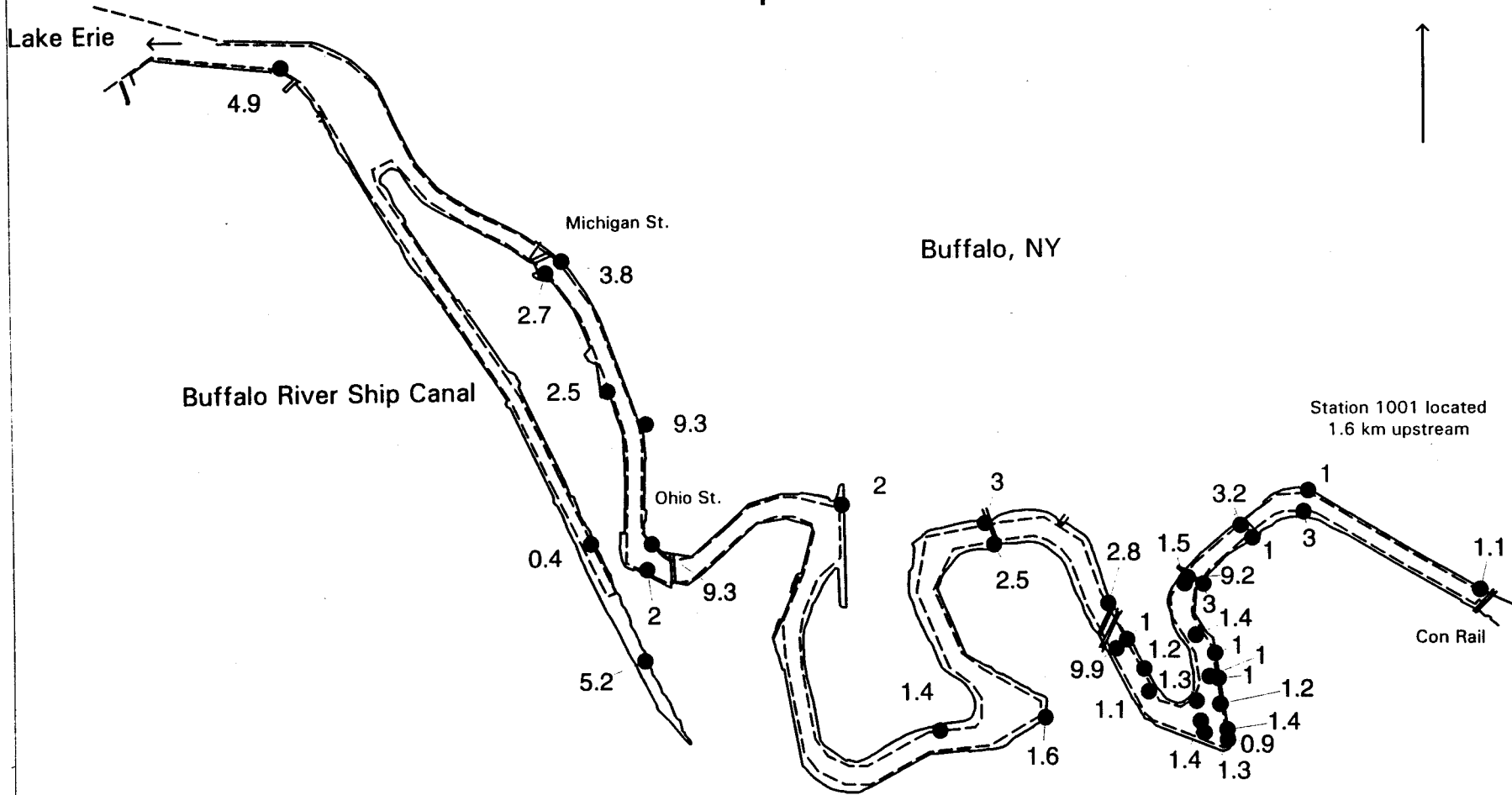


Station 1001 located
1.6 km upstream

**BUFFALO RIVER SURVEY 1
CADMIUM CONCENTRATIONS (ug/g dry wt)**

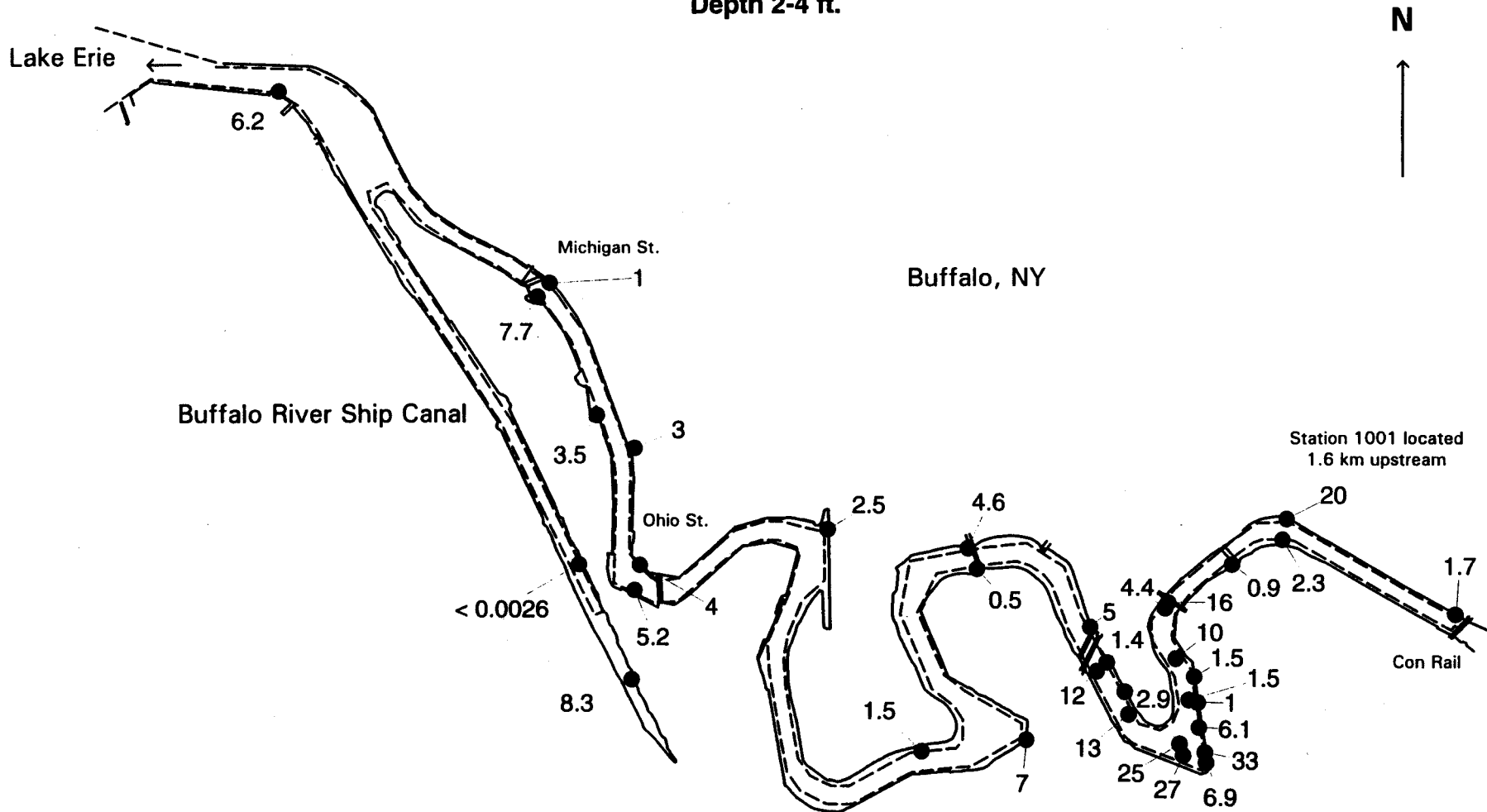


BUFFALO RIVER SURVEY 3
CADMIUM CONCENTRATIONS (ug/g dry wt)
Depth 0-2ft.

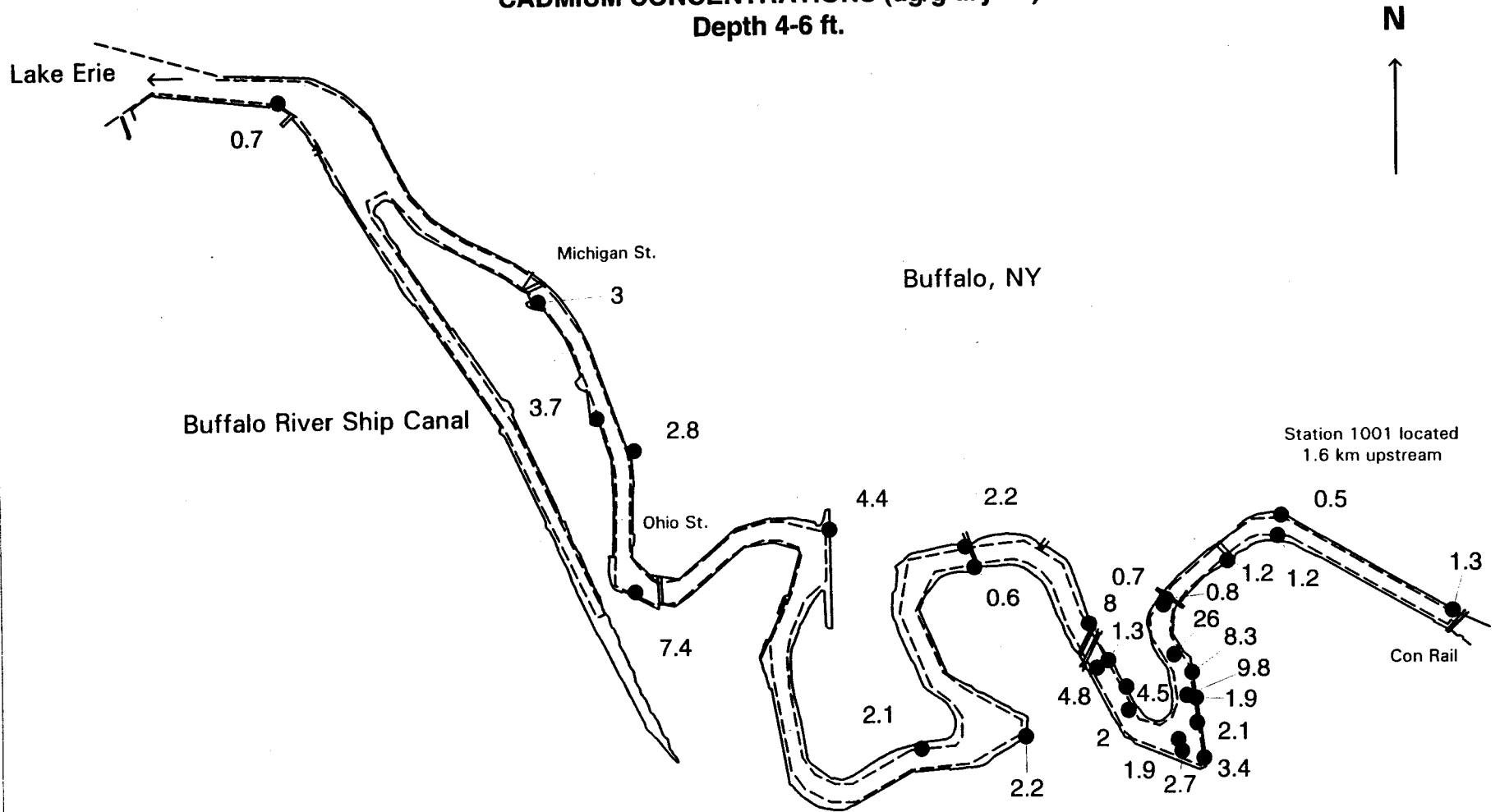


B-5

BUFFALO RIVER SURVEY 3
CADMIUM CONCENTRATIONS (ug/g dry wt)
 Depth 2-4 ft.

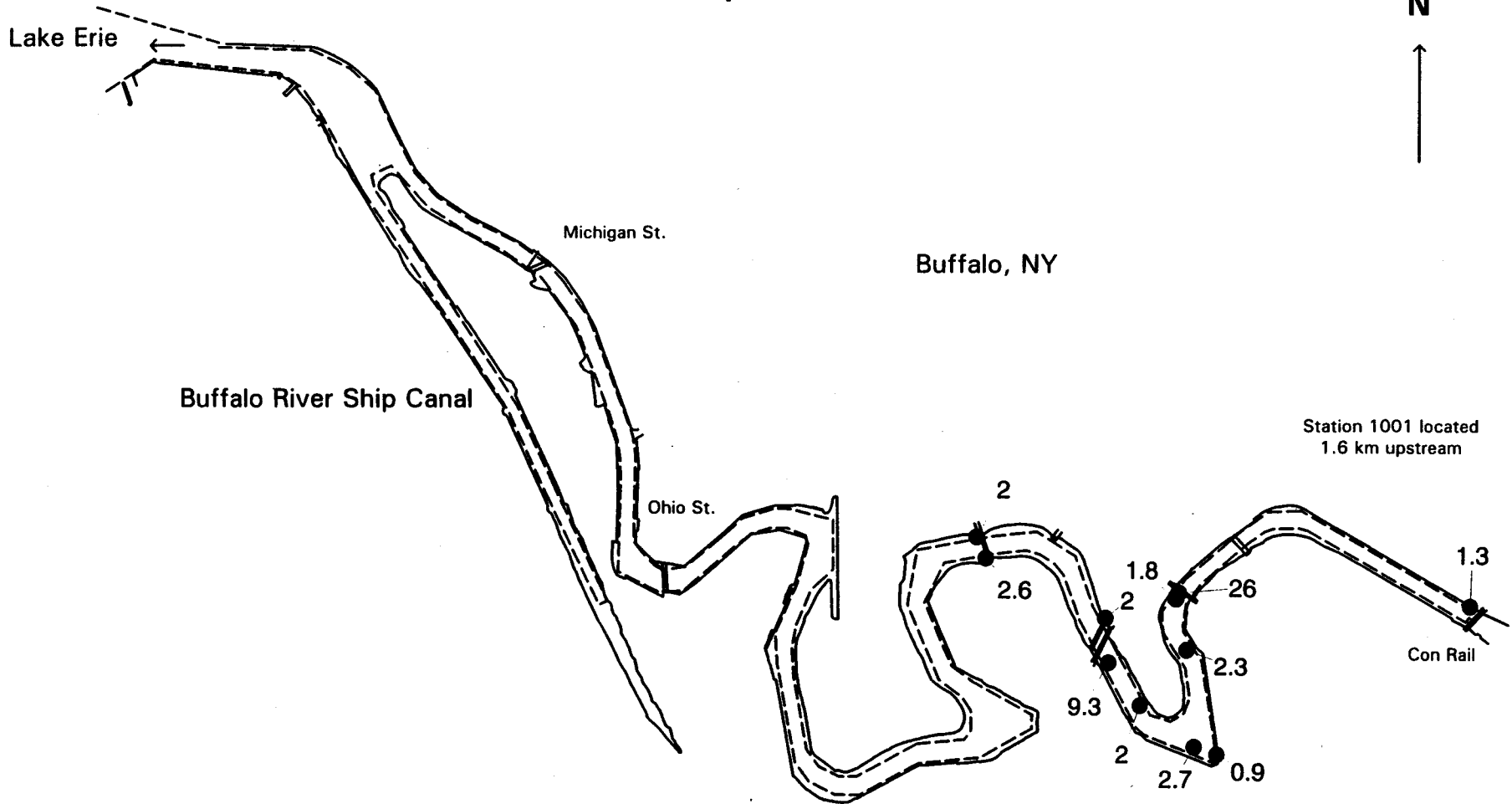


BUFFALO RIVER SURVEY 3
CADMIUM CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.



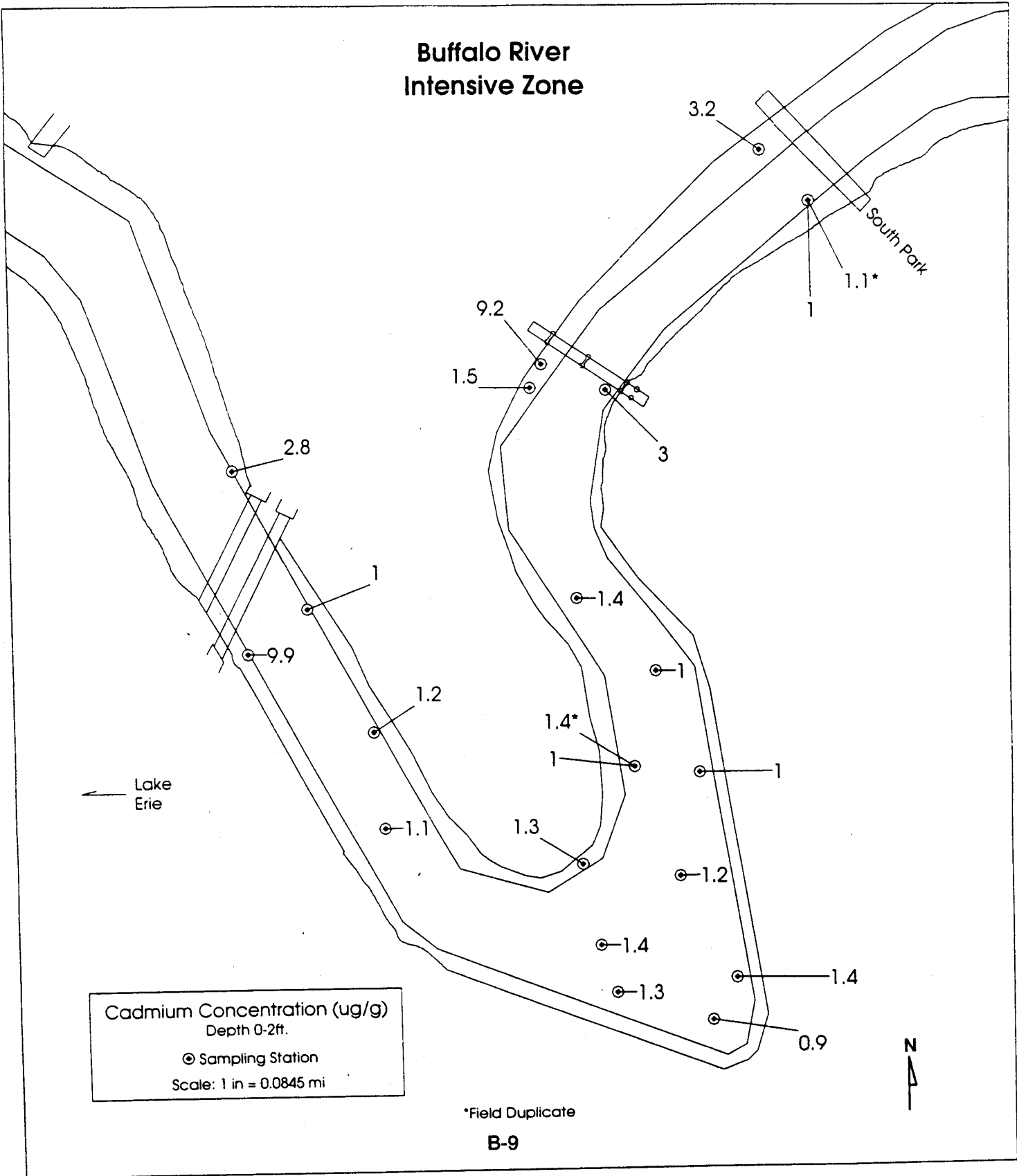
B-7

BUFFALO RIVER SURVEY 3
CADMIUM CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.

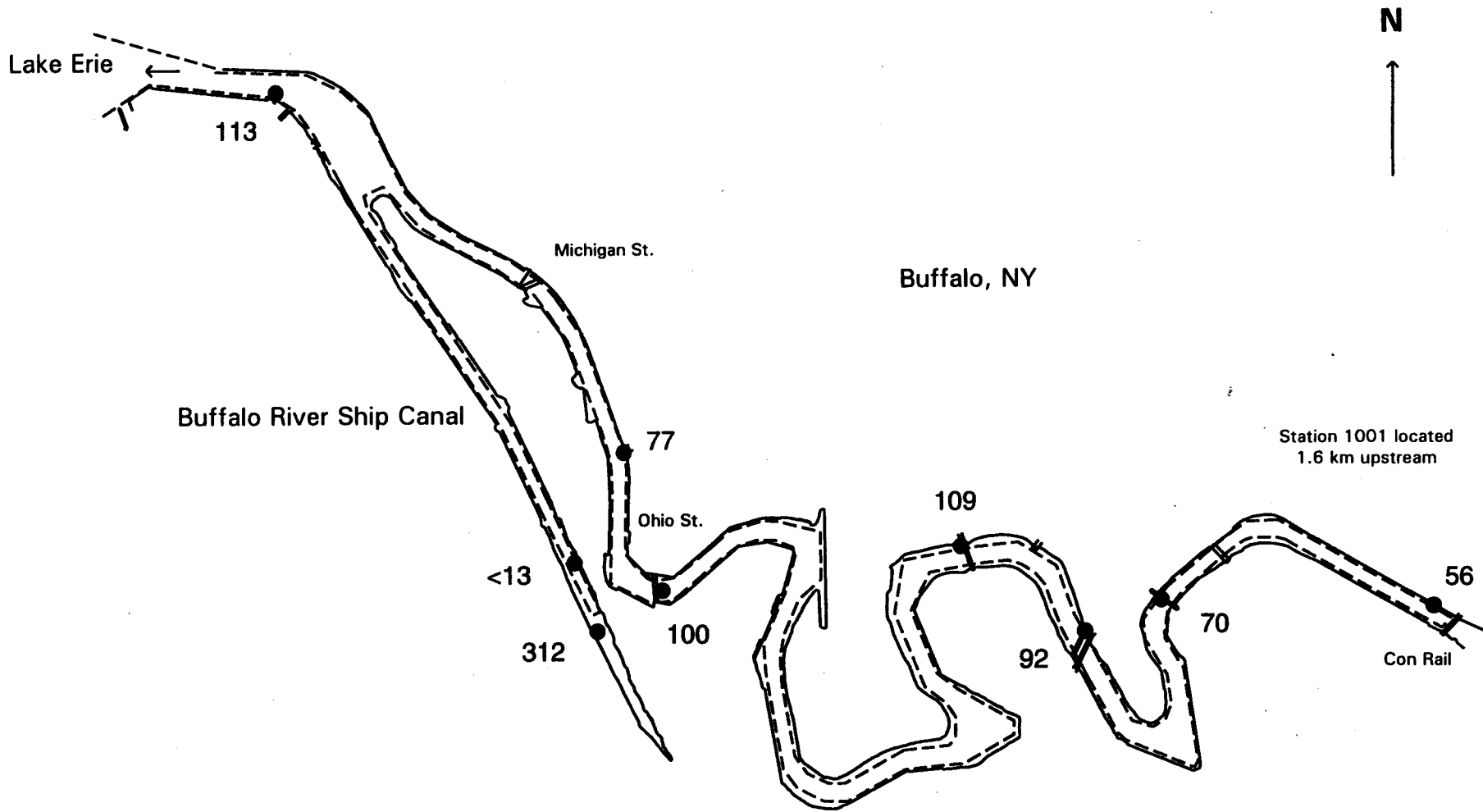


B-8

Buffalo River Intensive Zone

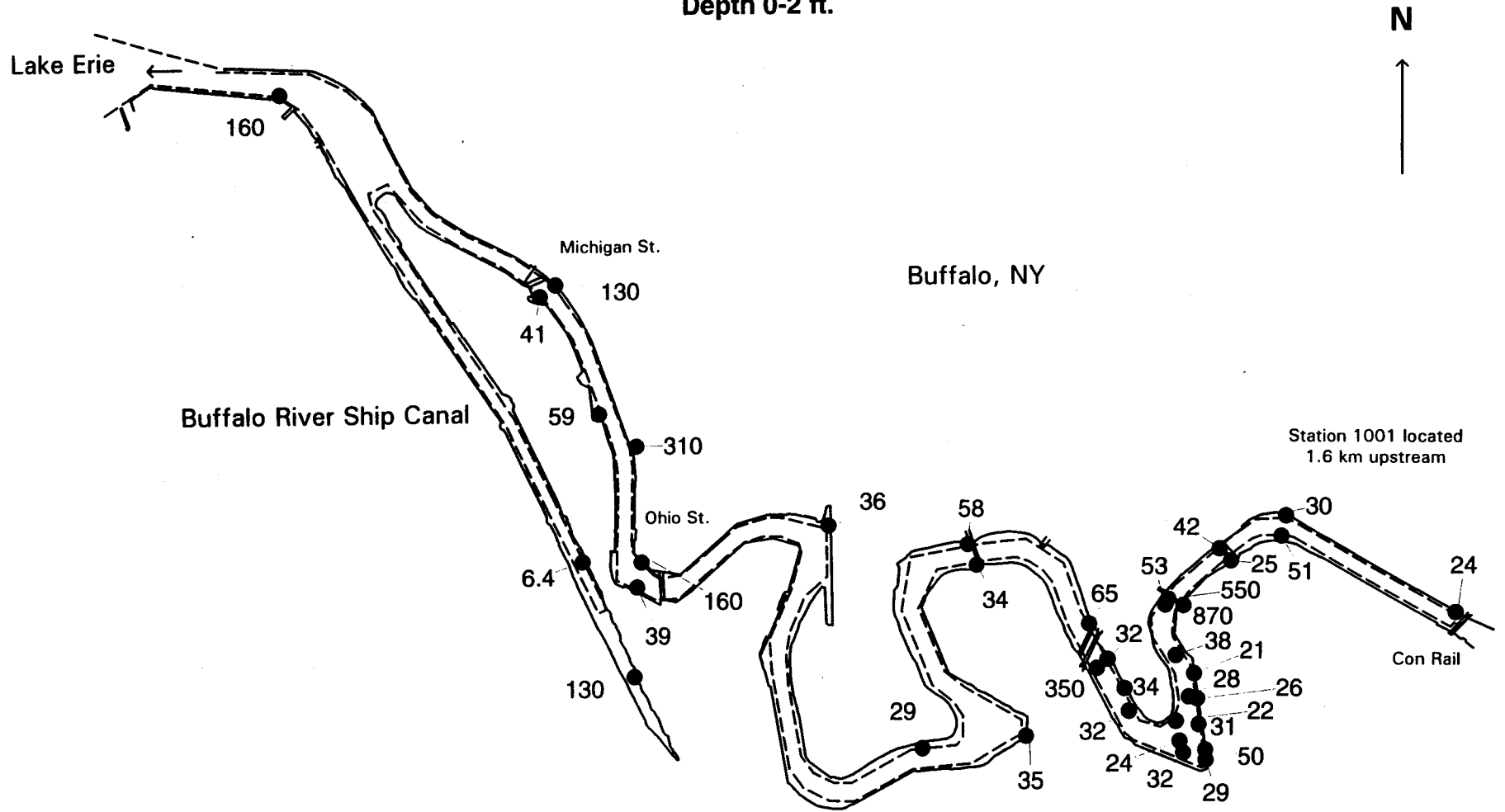


**BUFFALO RIVER SURVEY 1
CHROMIUM CONCENTRATIONS (ug/g dry wt)**



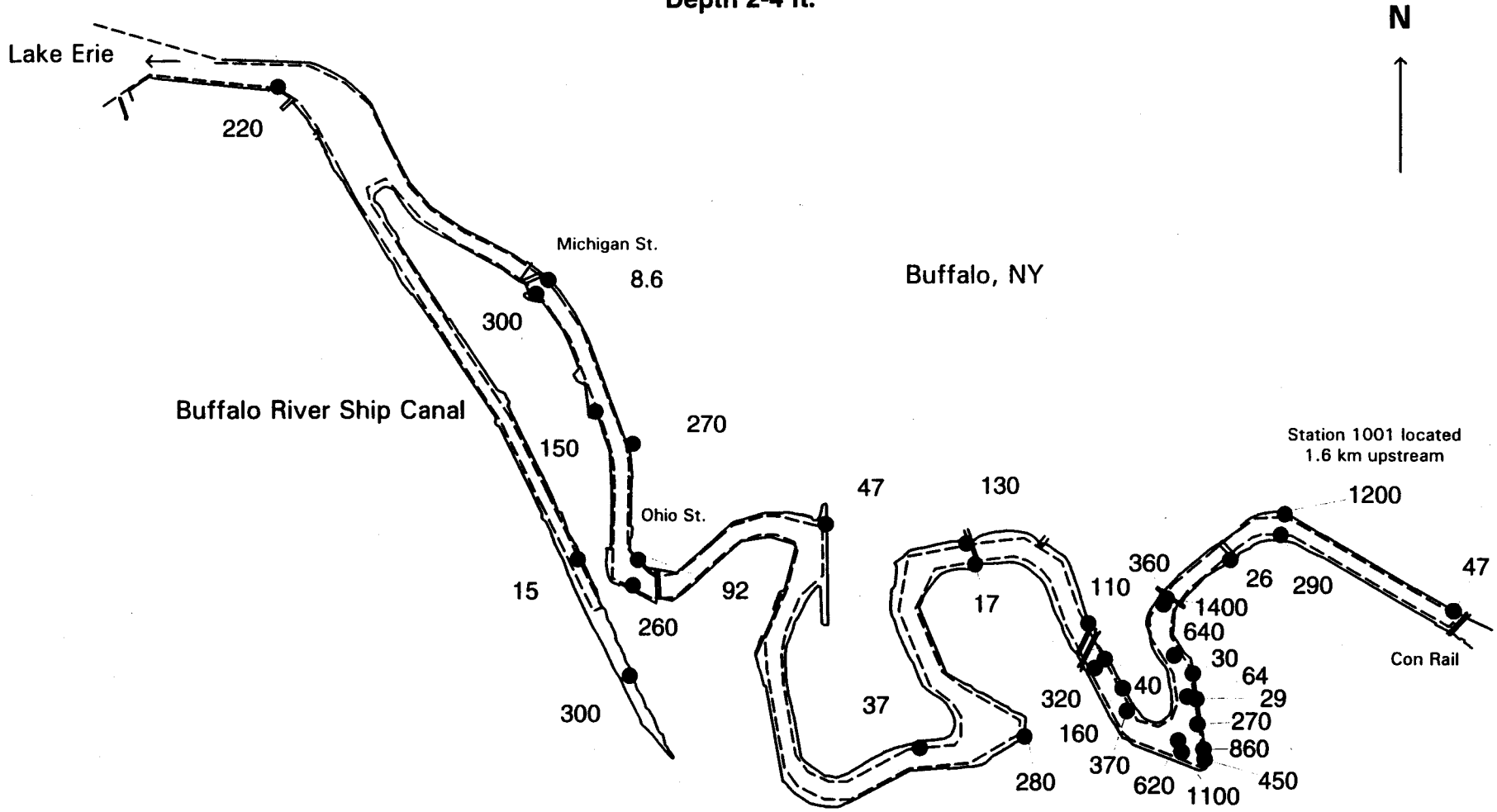
B-10

BUFFALO RIVER SURVEY 3
CHROMIUM CONCENTRATIONS (ug/g dry wt)
Depth 0-2 ft.



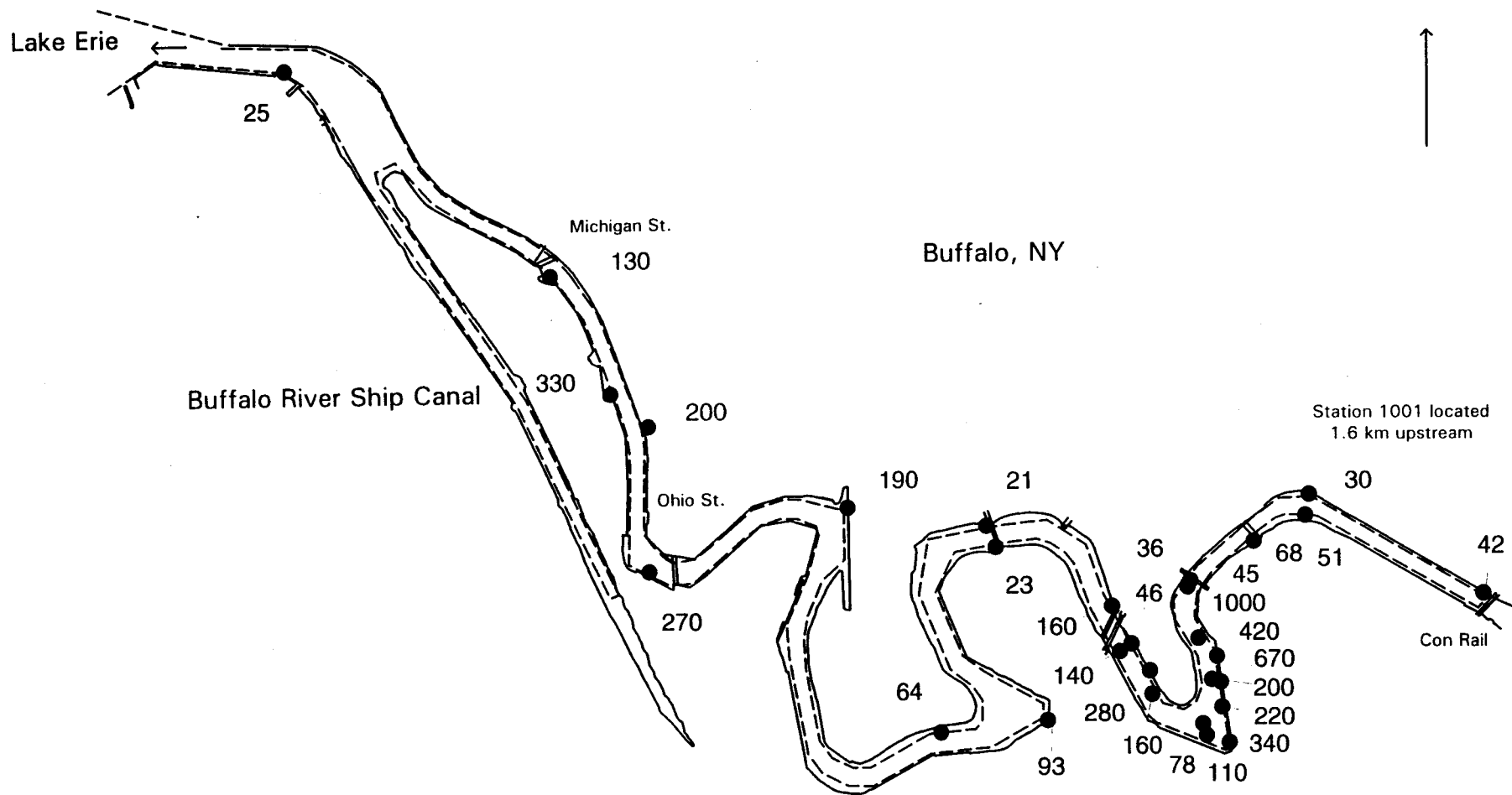
B-11

BUFFALO RIVER SURVEY 3
CHROMIUM CONCENTRATION (ug/g dry wt)
Depth 2-4 ft.



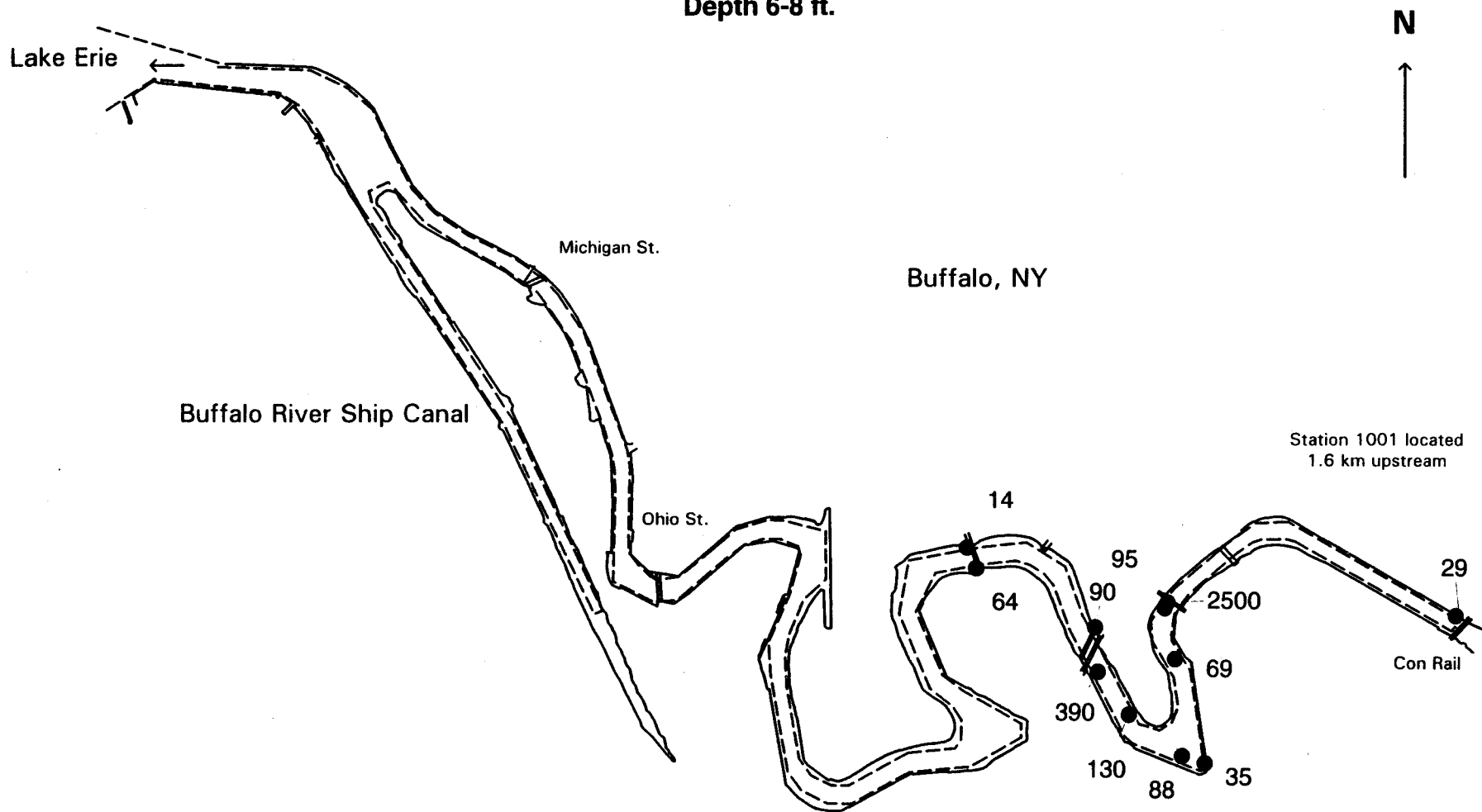
B-12

BUFFALO RIVER SURVEY 3
CHROMIUM CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.



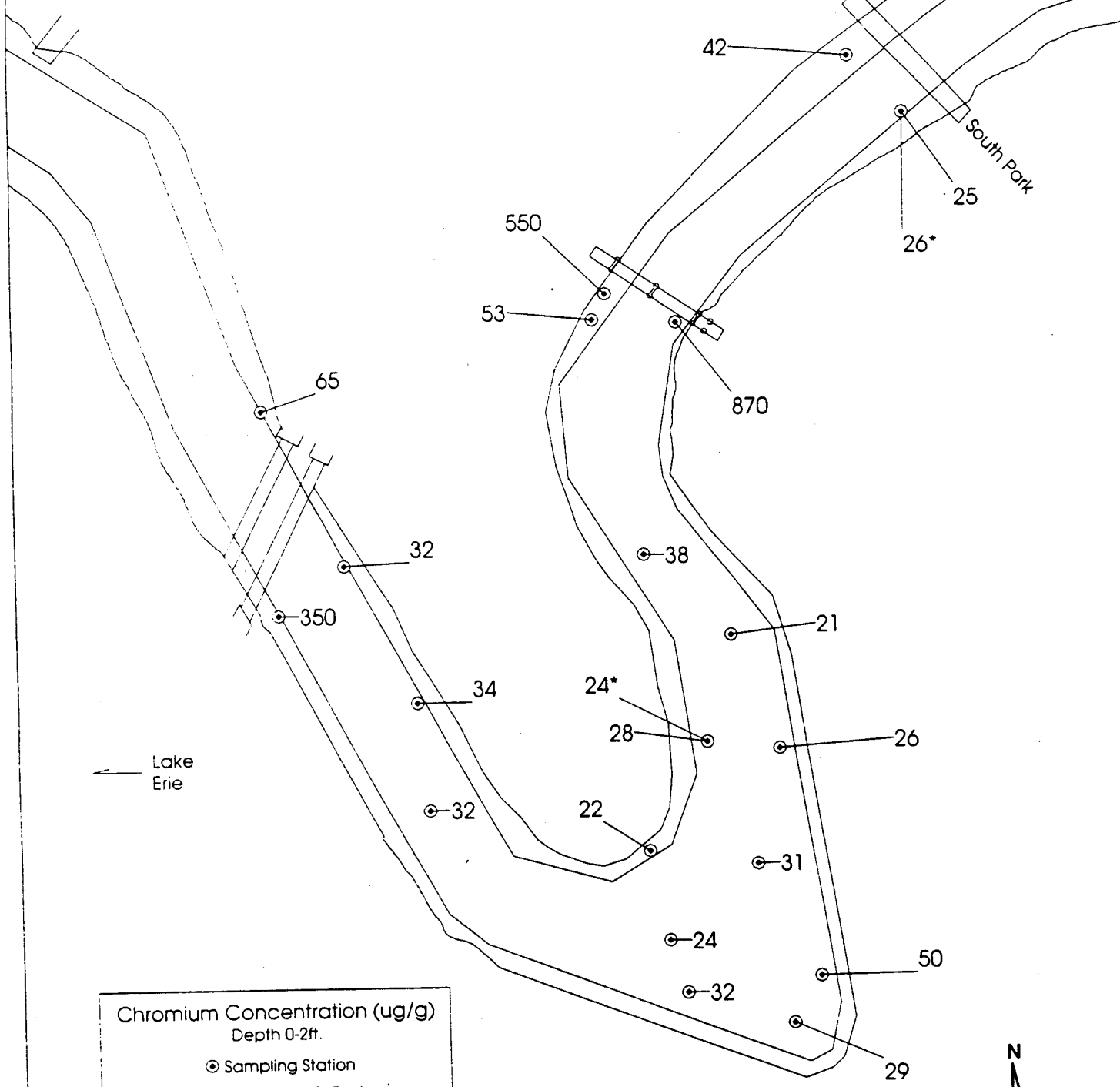
B-13

BUFFALO RIVER SURVEY 3
CHROMIUM CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.



B-14

Buffalo River Intensive Zone

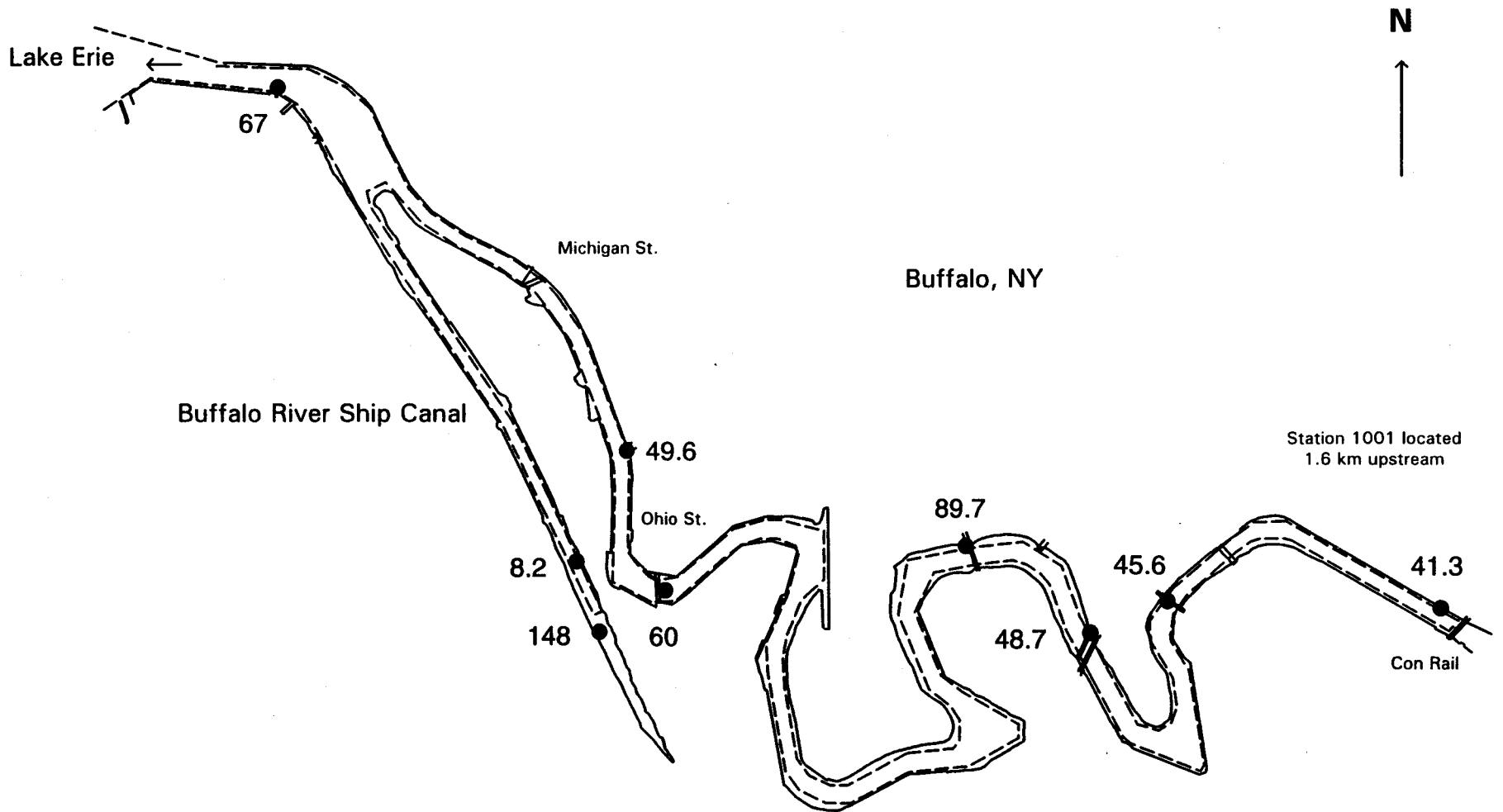


Chromium Concentration (ug/g)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-15

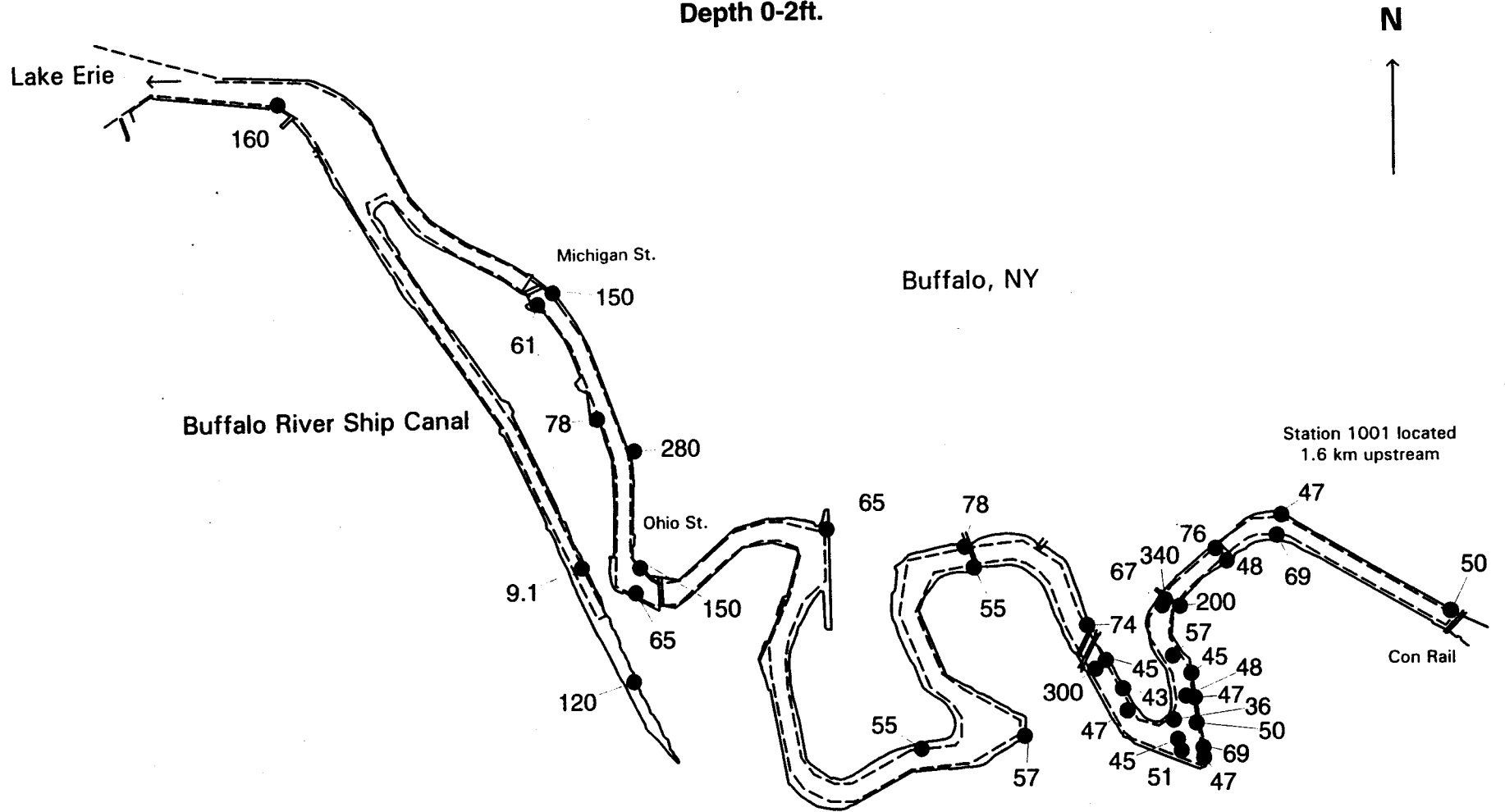


BUFFALO RIVER SURVEY 1
COPPER CONCENTRATIONS (ug/g dry wt)



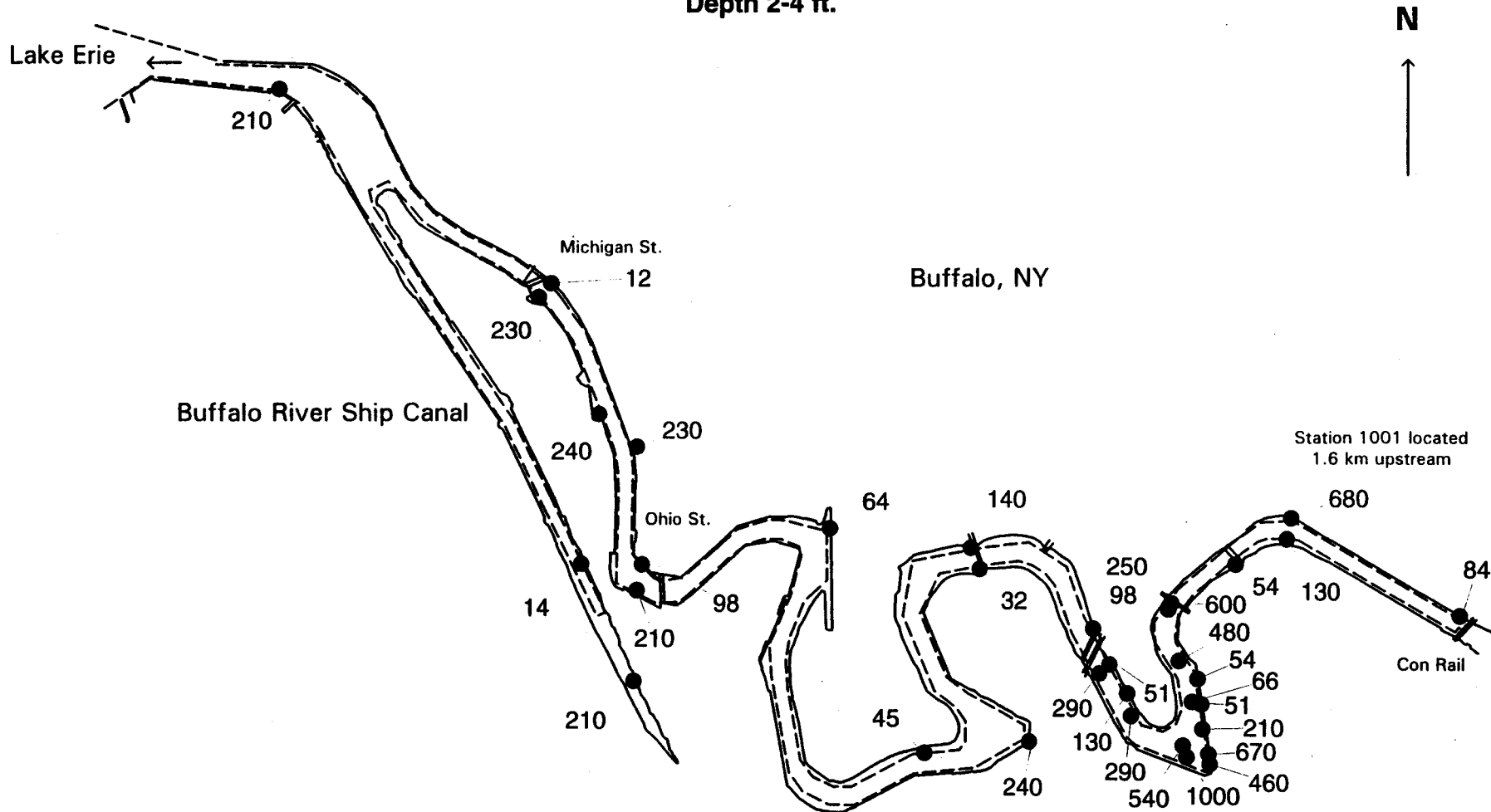
B-16

BUFFALO RIVER SURVEY 3
COPPER CONCENTRATIONS (ug/g dry wt)
Depth 0-2ft.



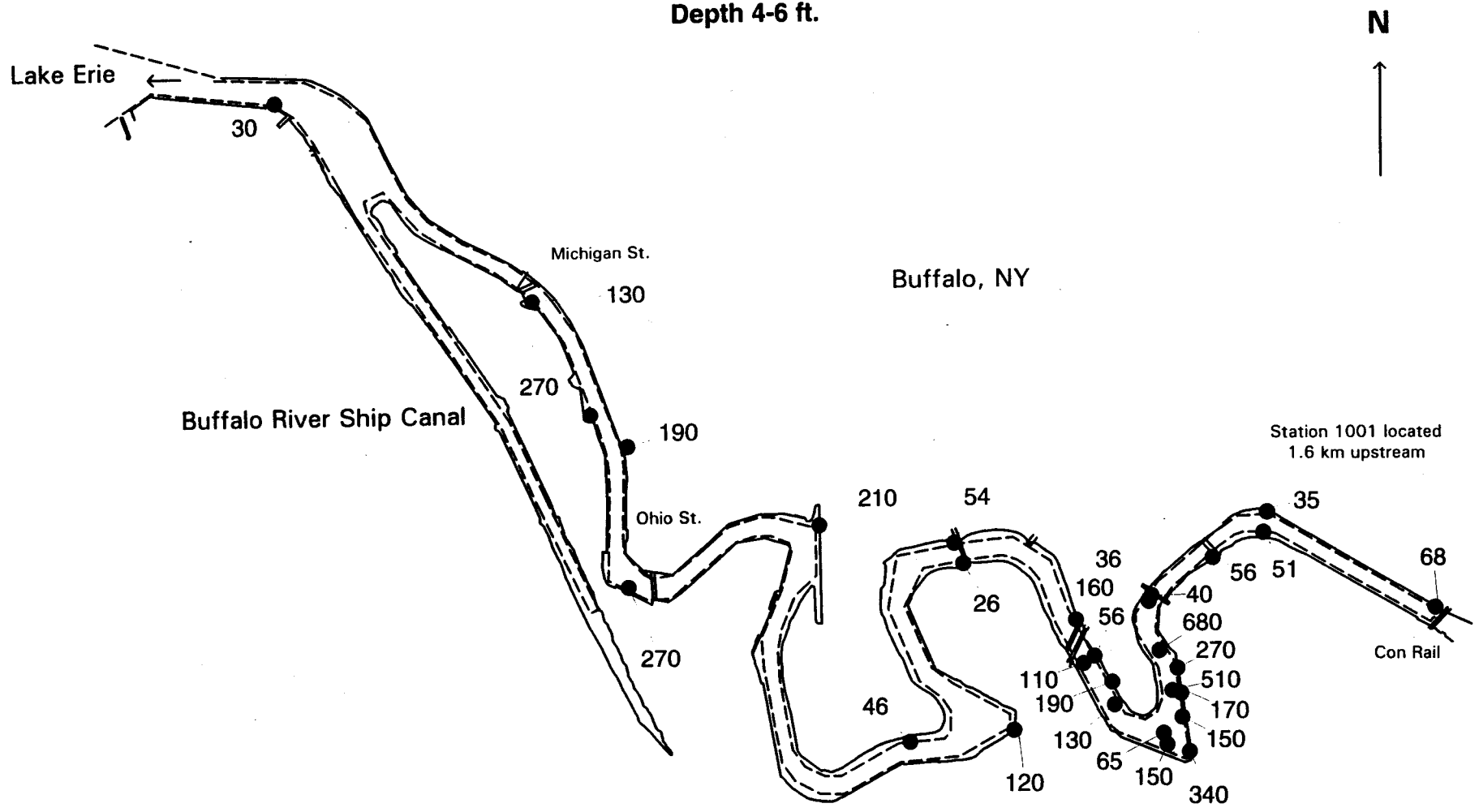
B-17

BUFFALO RIVER SUVEY 3
COPPER CONCENTRATIONS (ug/g dry wt)
Depth 2-4 ft.



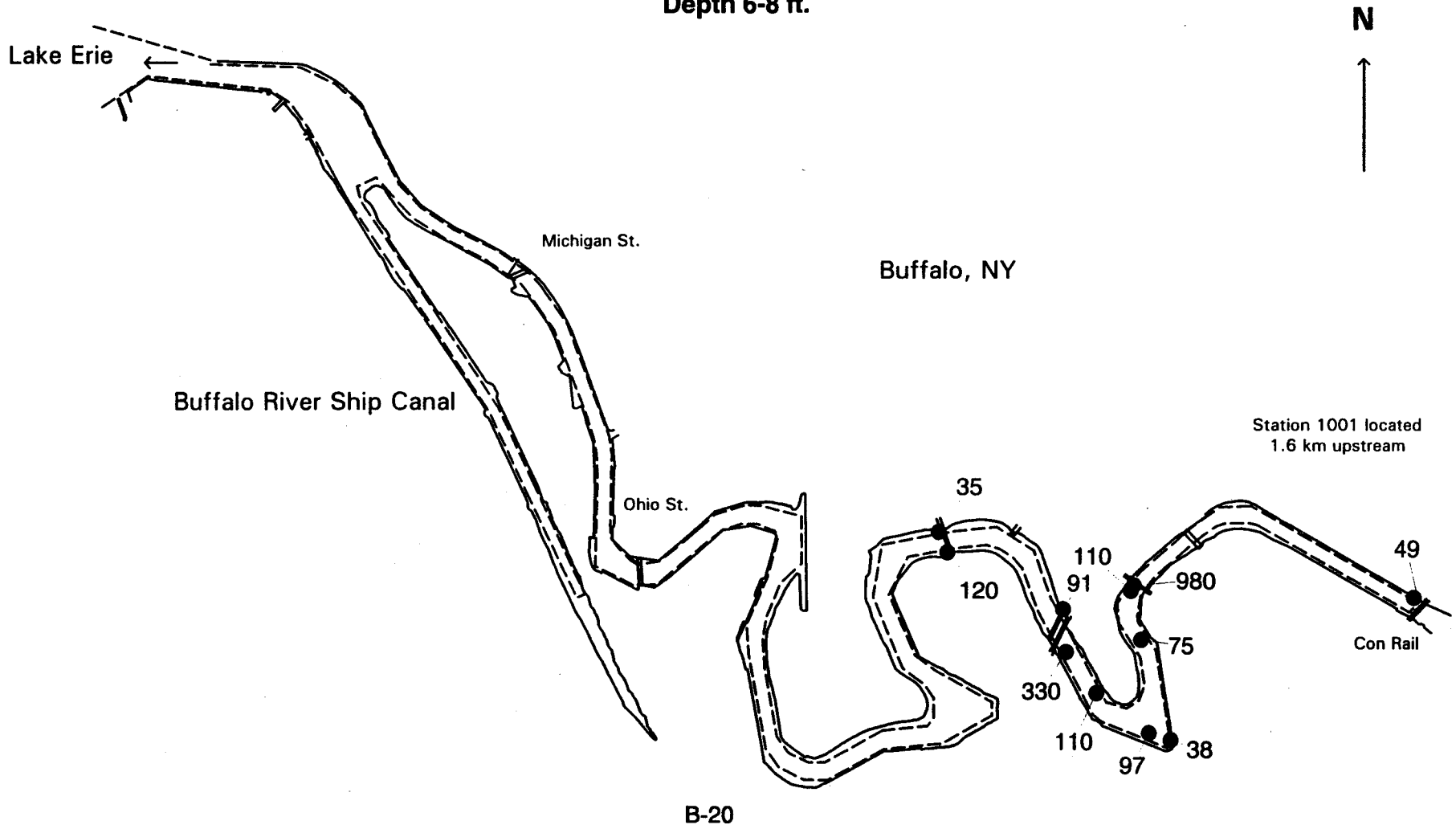
B-18

**BUFFALO RIVER SURVEY 3
COPPER CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.**

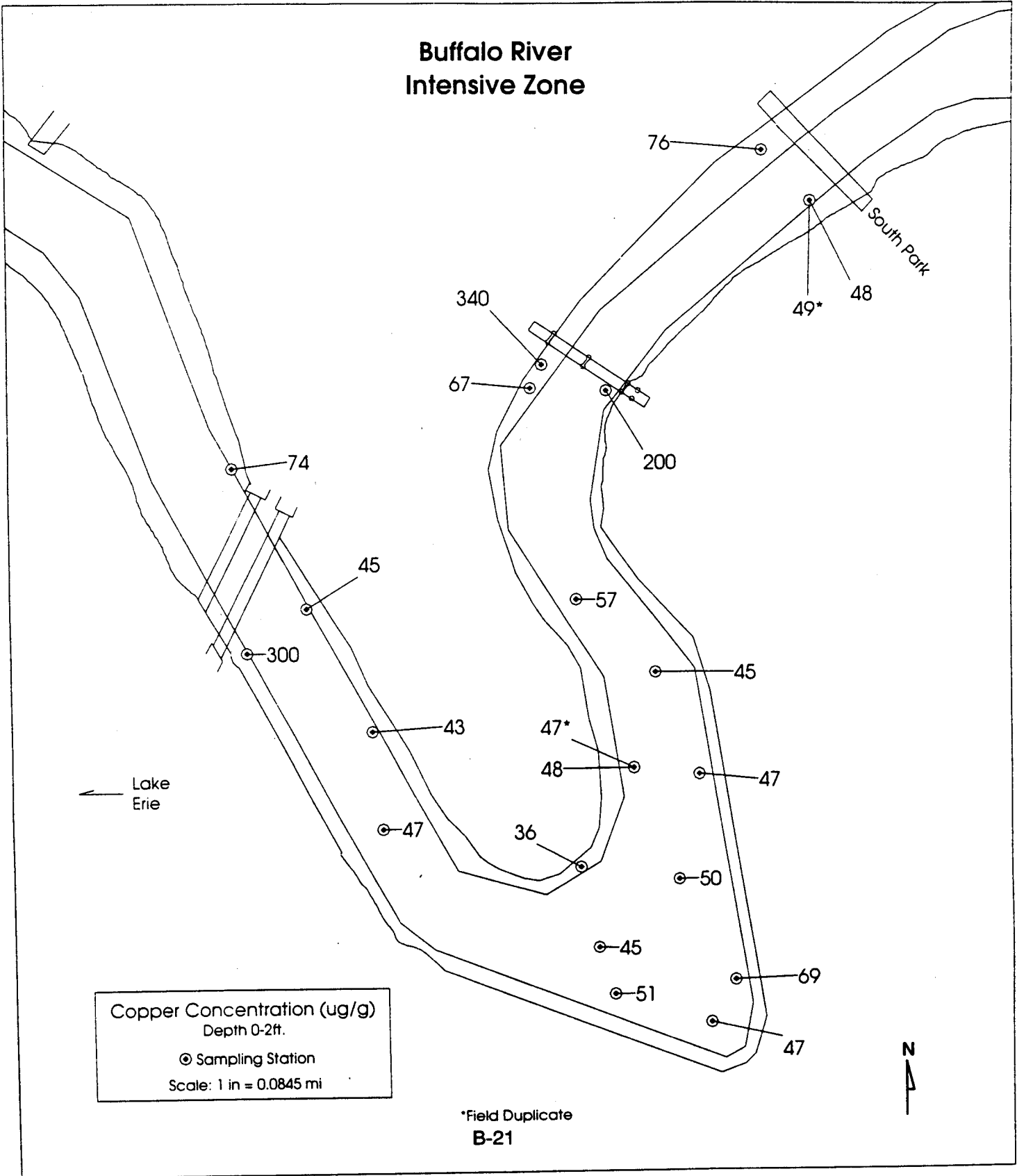


B-19

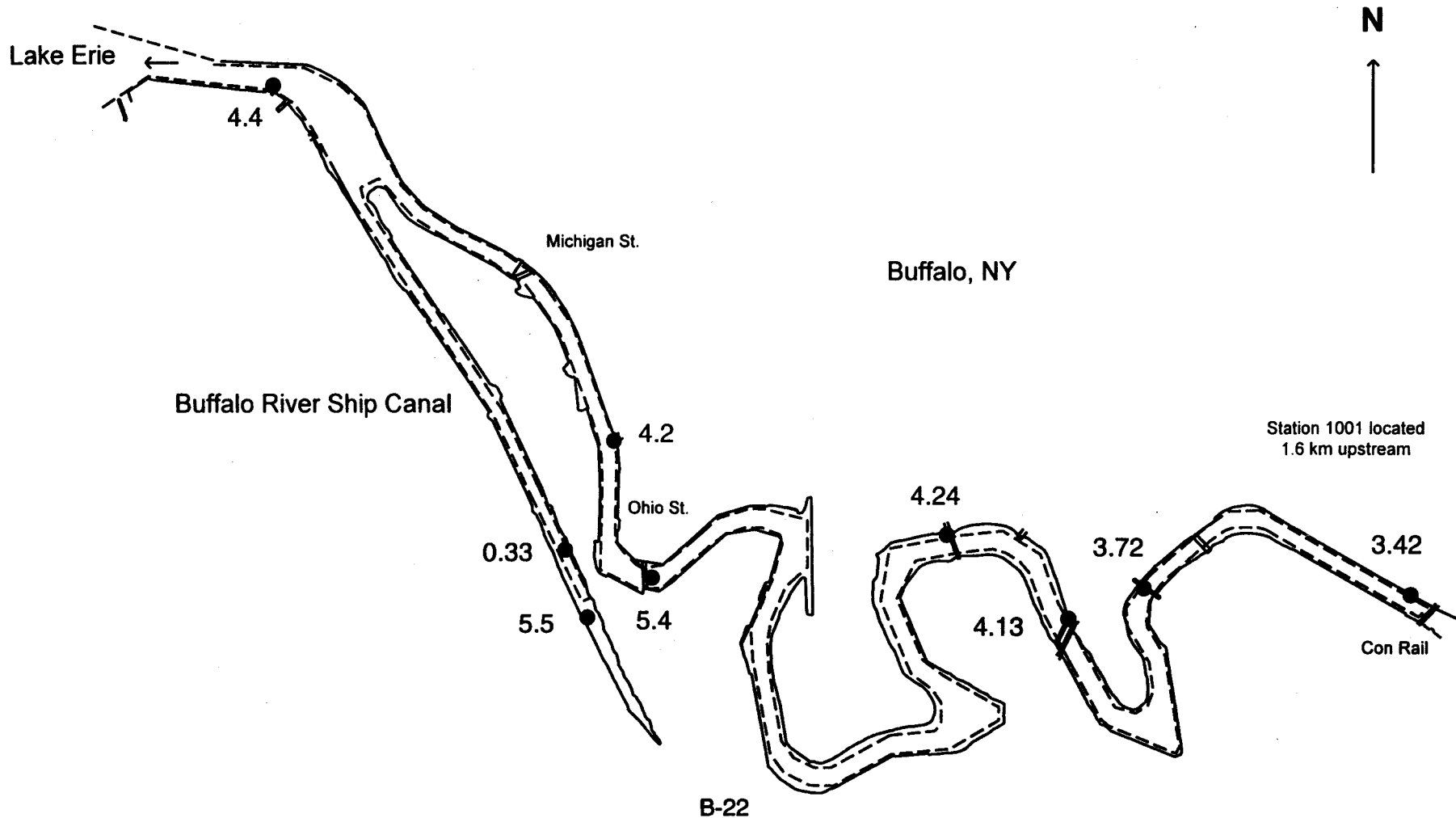
BUFFALO RIVER SURVEY 3
COPPER CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.



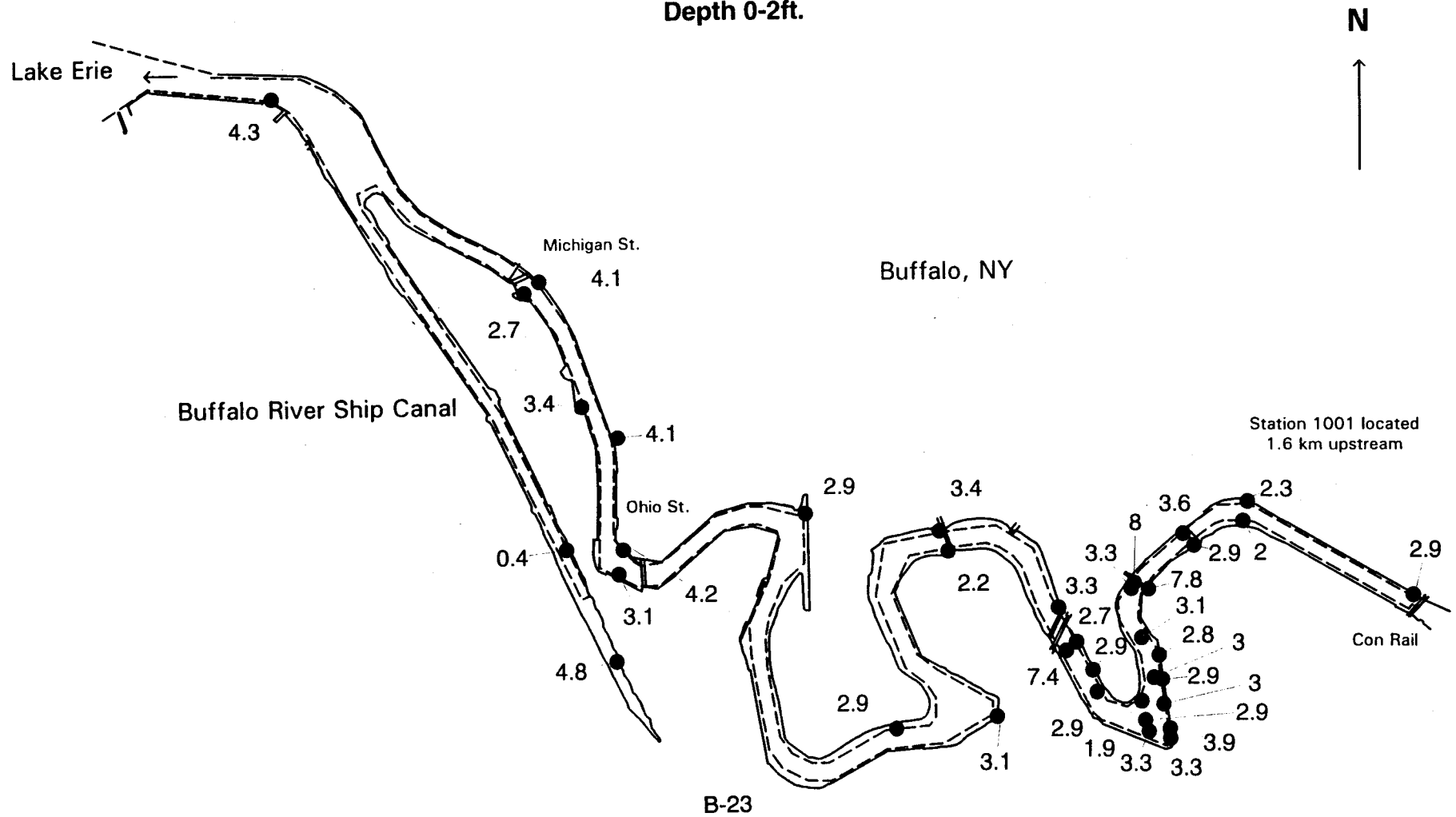
Buffalo River Intensive Zone



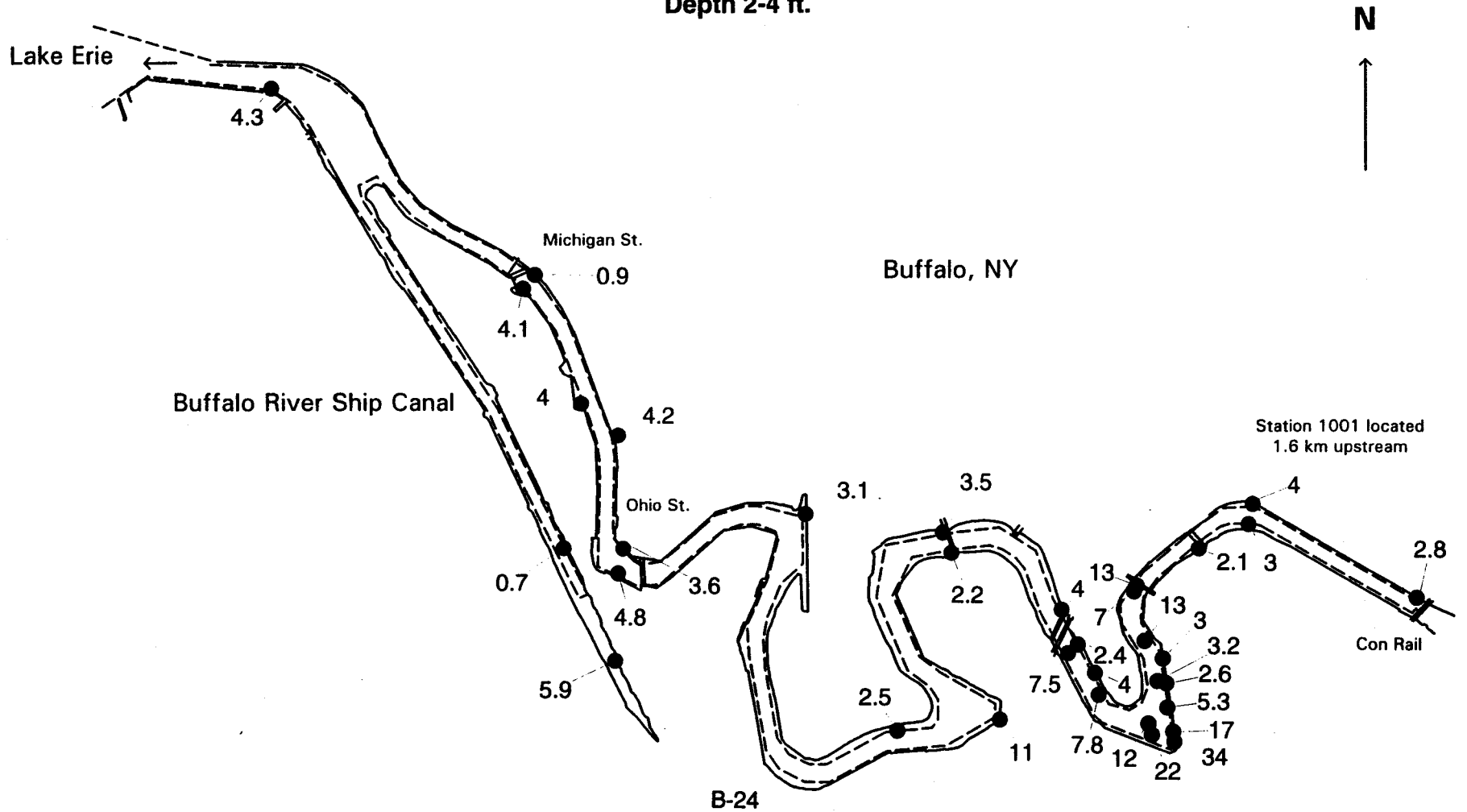
**BUFFALO RIVER SURVEY 1
IRON CONCENTRATIONS (% dry weight)**



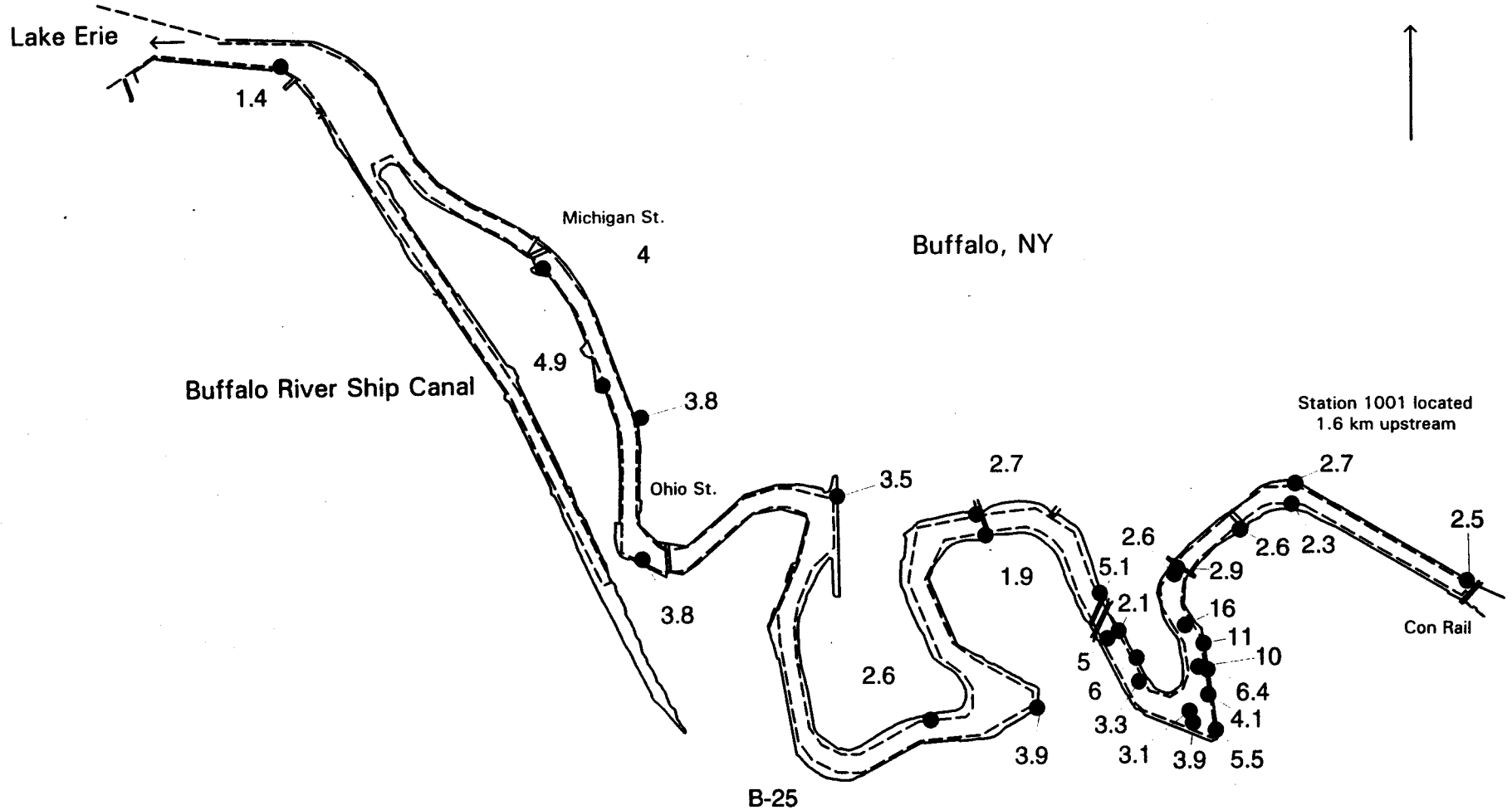
**BUFFALO RIVER SURVEY 3
IRON CONCENTRATIONS (%)
Depth 0-2ft.**



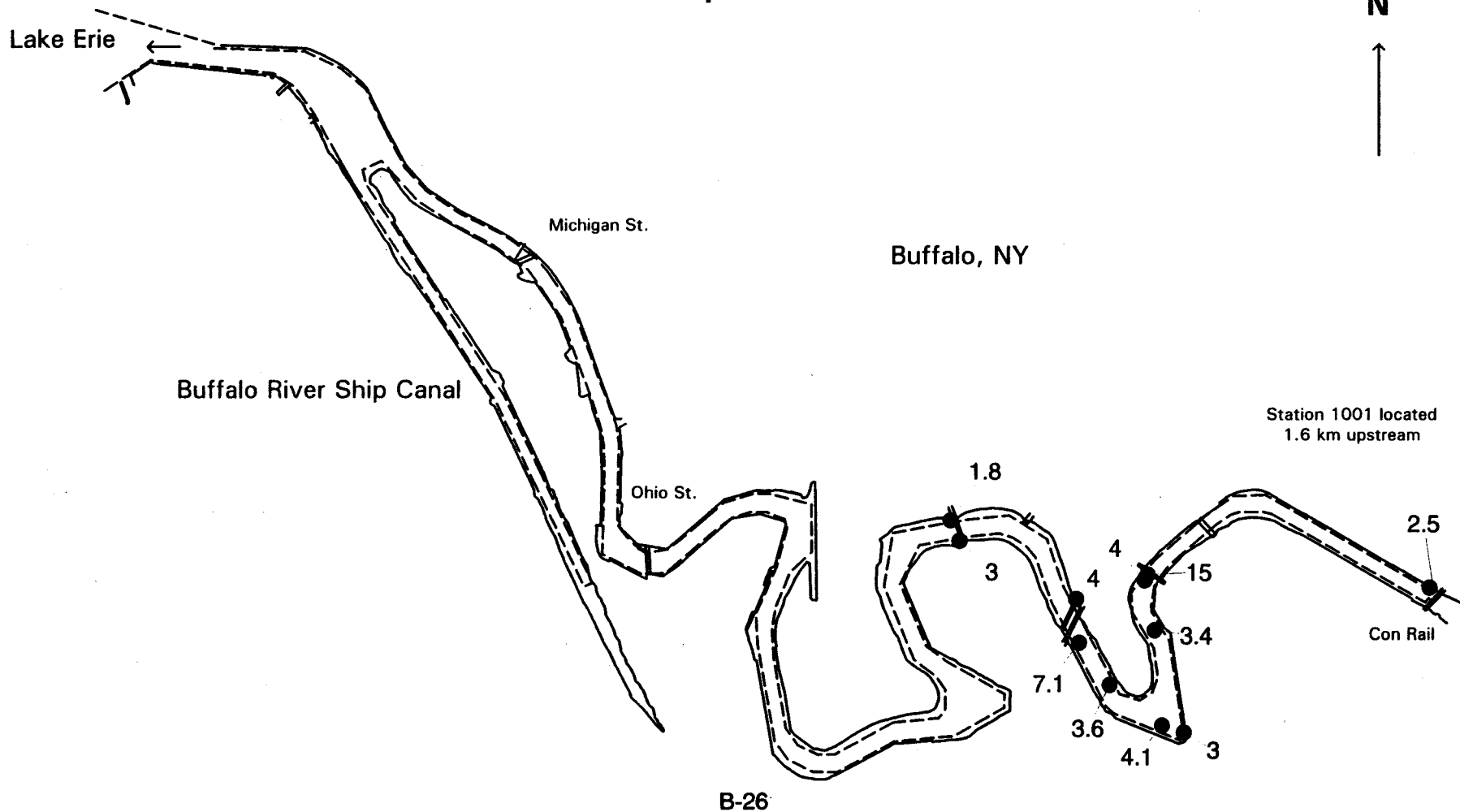
**BUFFALO RIVER SURVEY 3
IRON CONCENTRATIONS (%)
Depth 2-4 ft.**



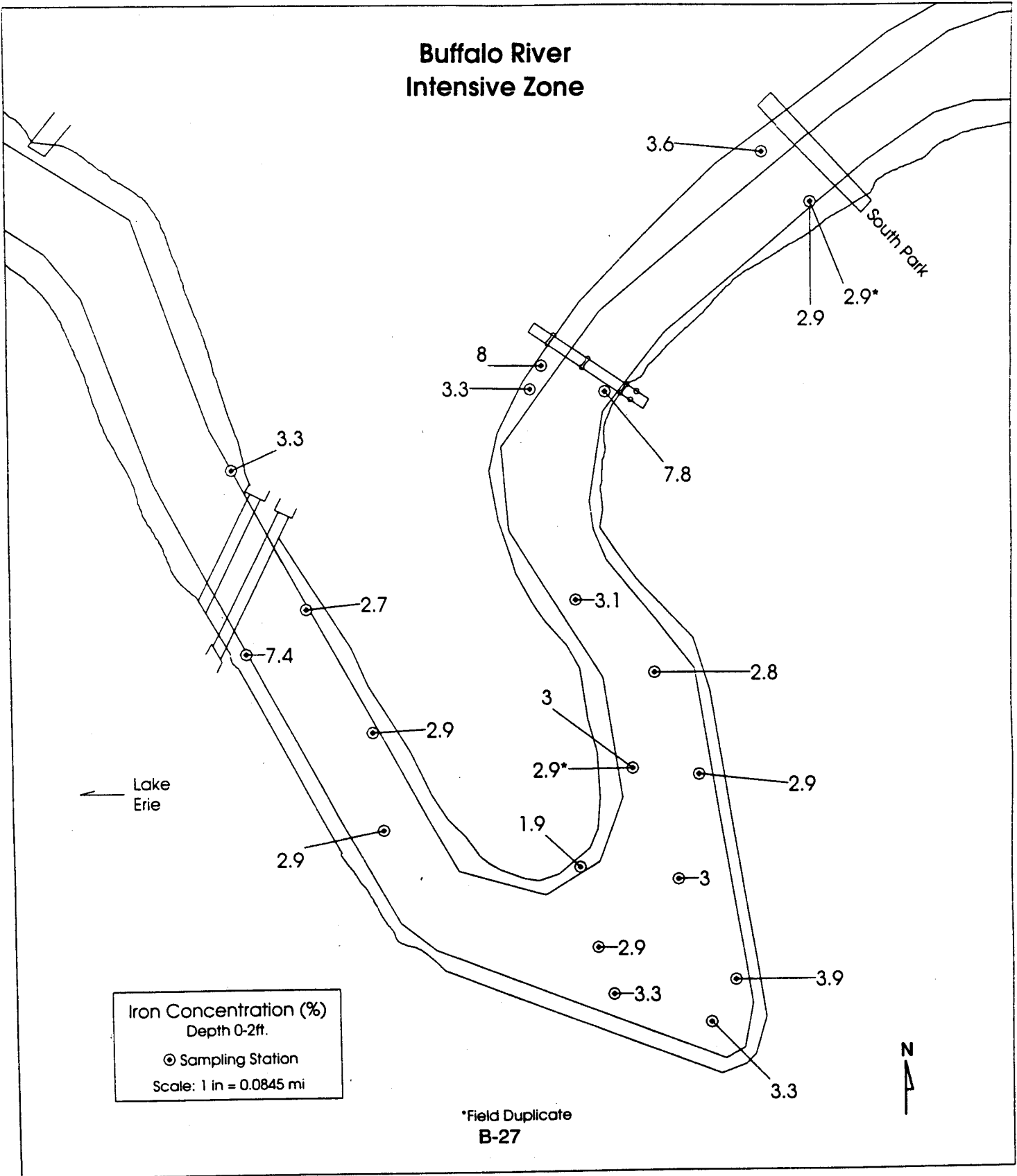
**BUFFALO RIVER SURVEY 3
IRON CONCENTRATIONS (%)
Depth 4-6 ft.**



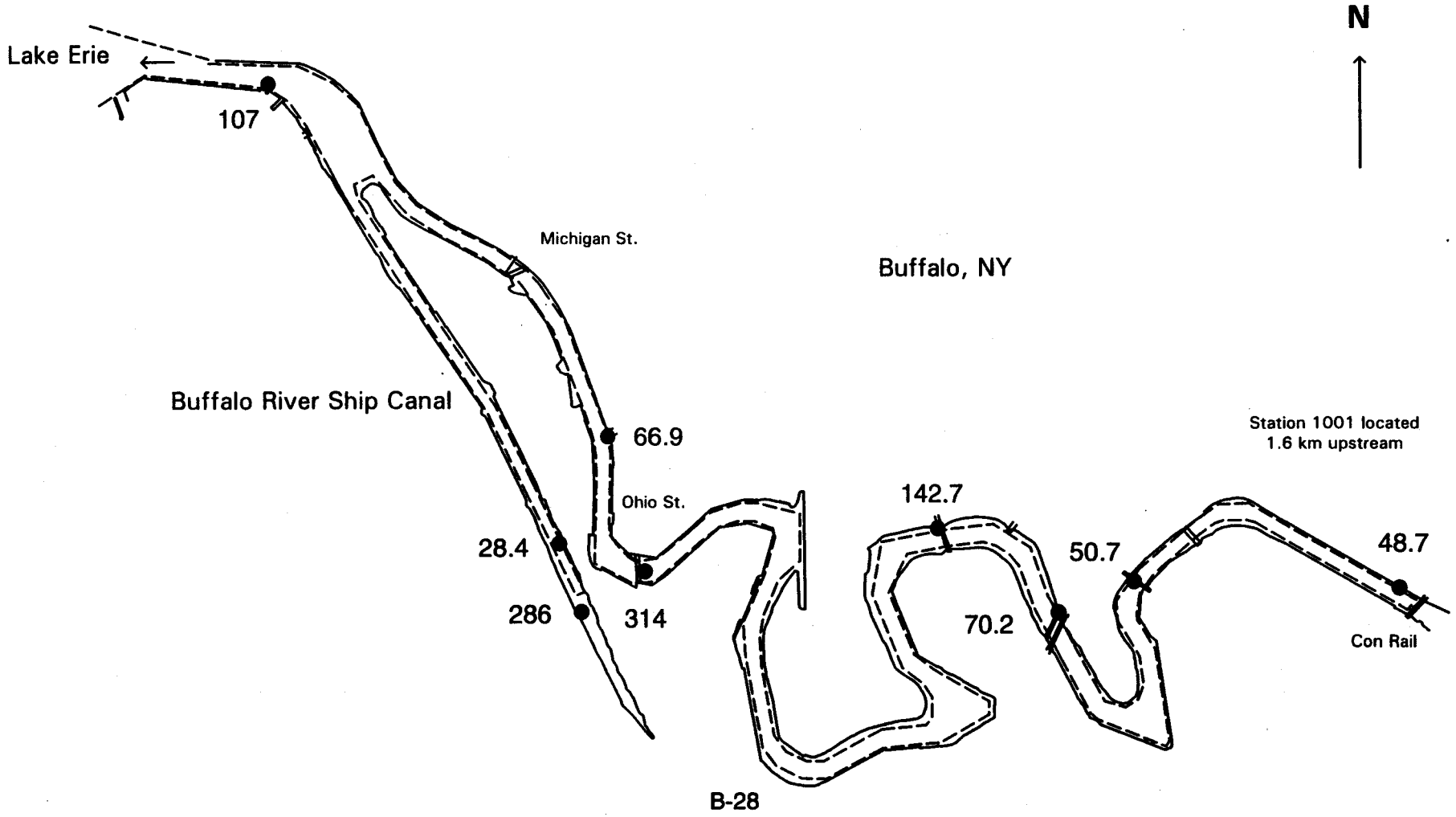
**BUFFALO RIVER SURVEY 3
IRON CONCENTRATIONS (%)
Depth 6-8 ft.**



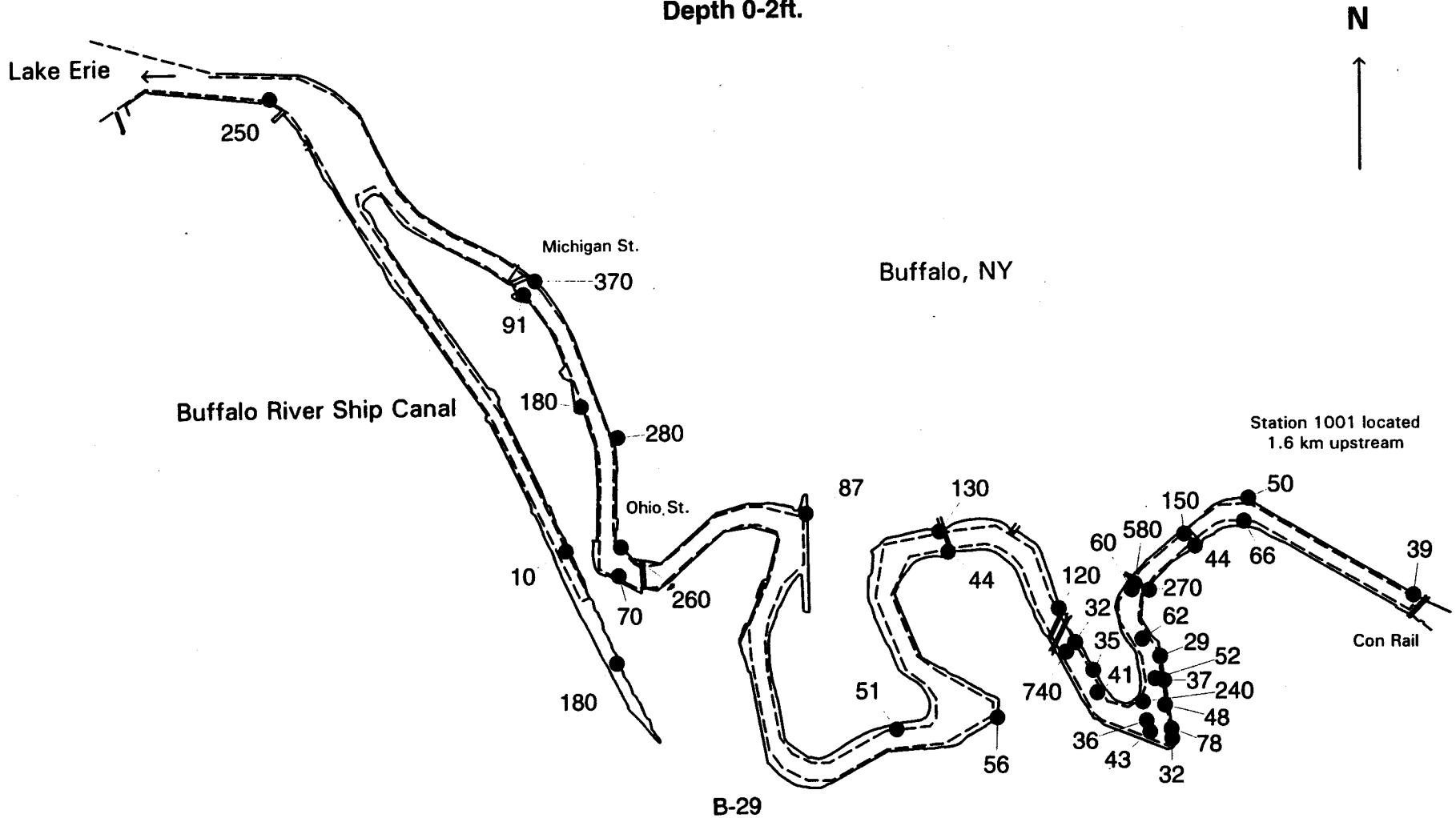
Buffalo River Intensive Zone



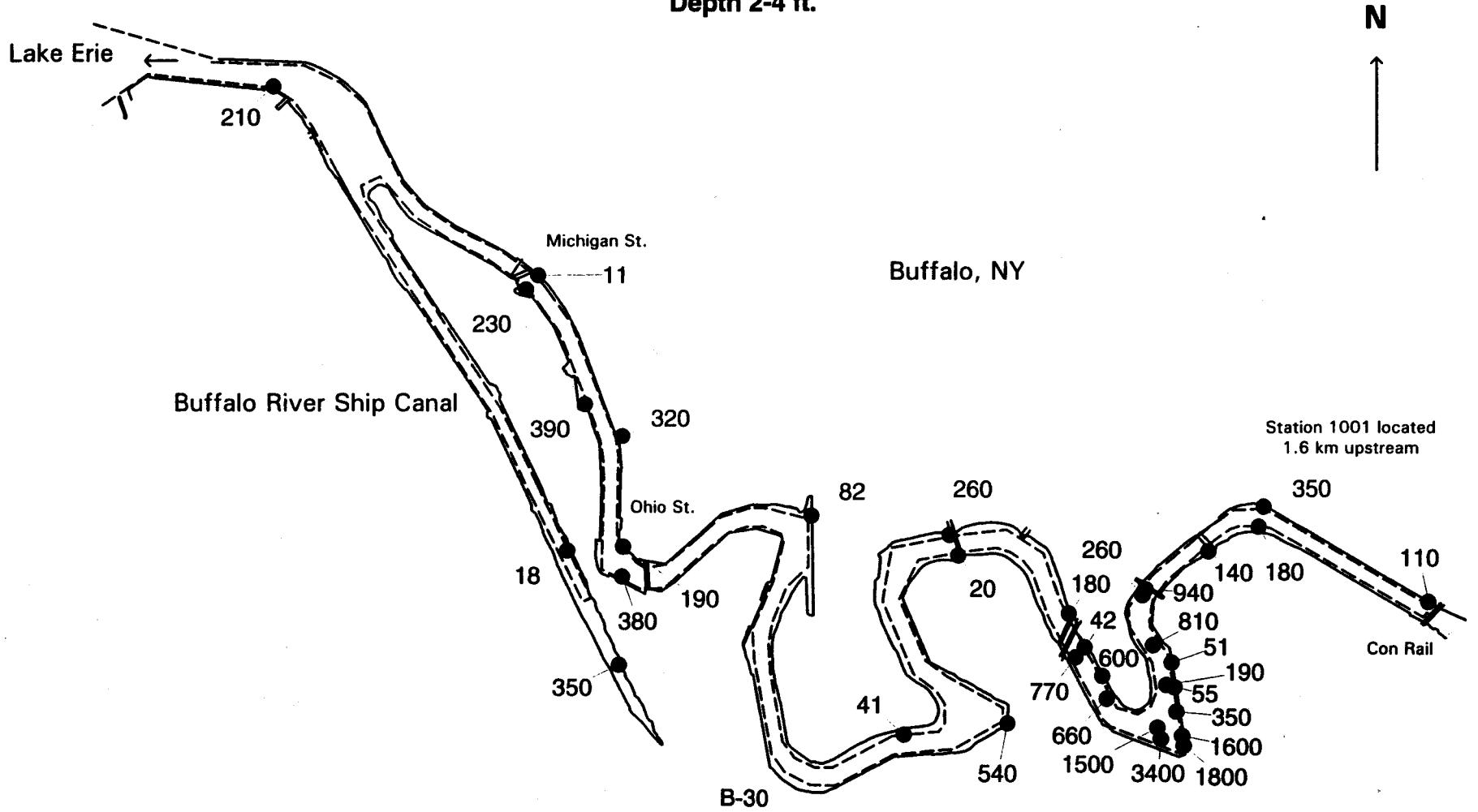
BUFFALO RIVER SURVEY 1 LEAD CONCENTRATIONS (ug/g dry wt)



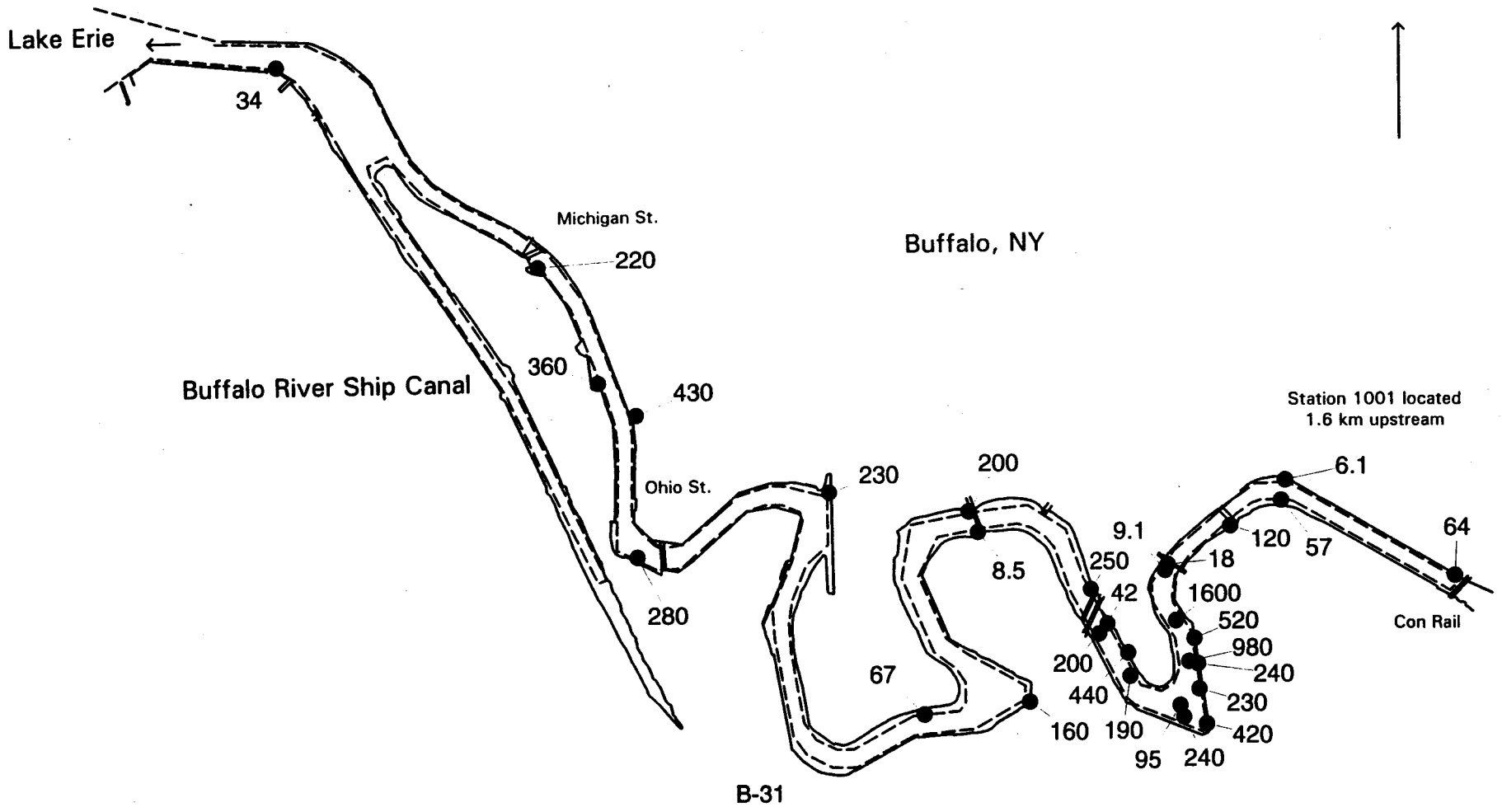
BUFFALO RIVER SURVEY 3
LEAD CONCENTRATIONS (ug/g dry wt)
Depth 0-2ft.



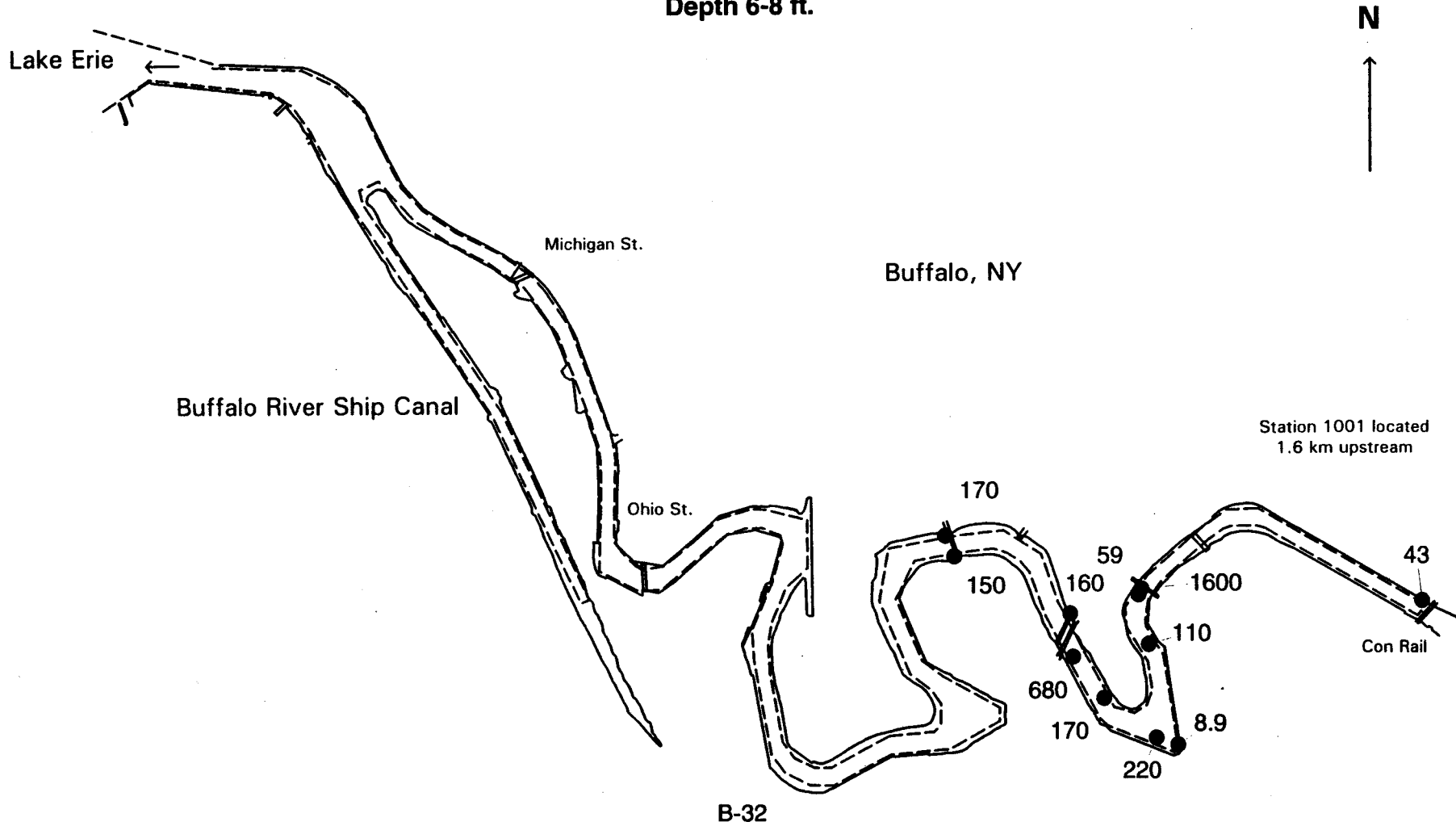
**BUFFALO RIVER SURVEY 3
LEAD CONCENTRATIONS (ug/g dry wt)
Depth 2-4 ft.**



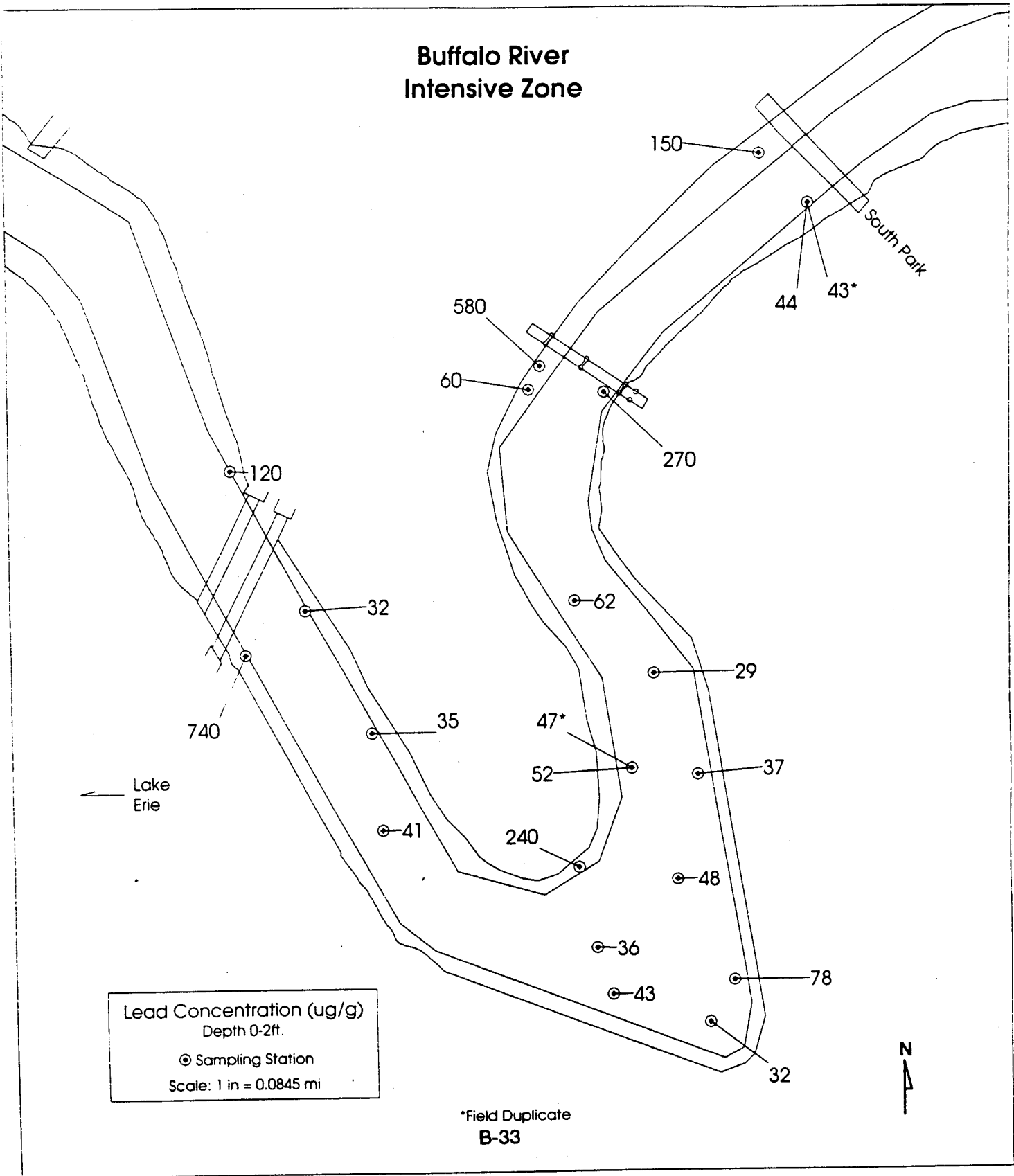
**BUFFALO RIVER SURVEY 3
LEAD CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.**



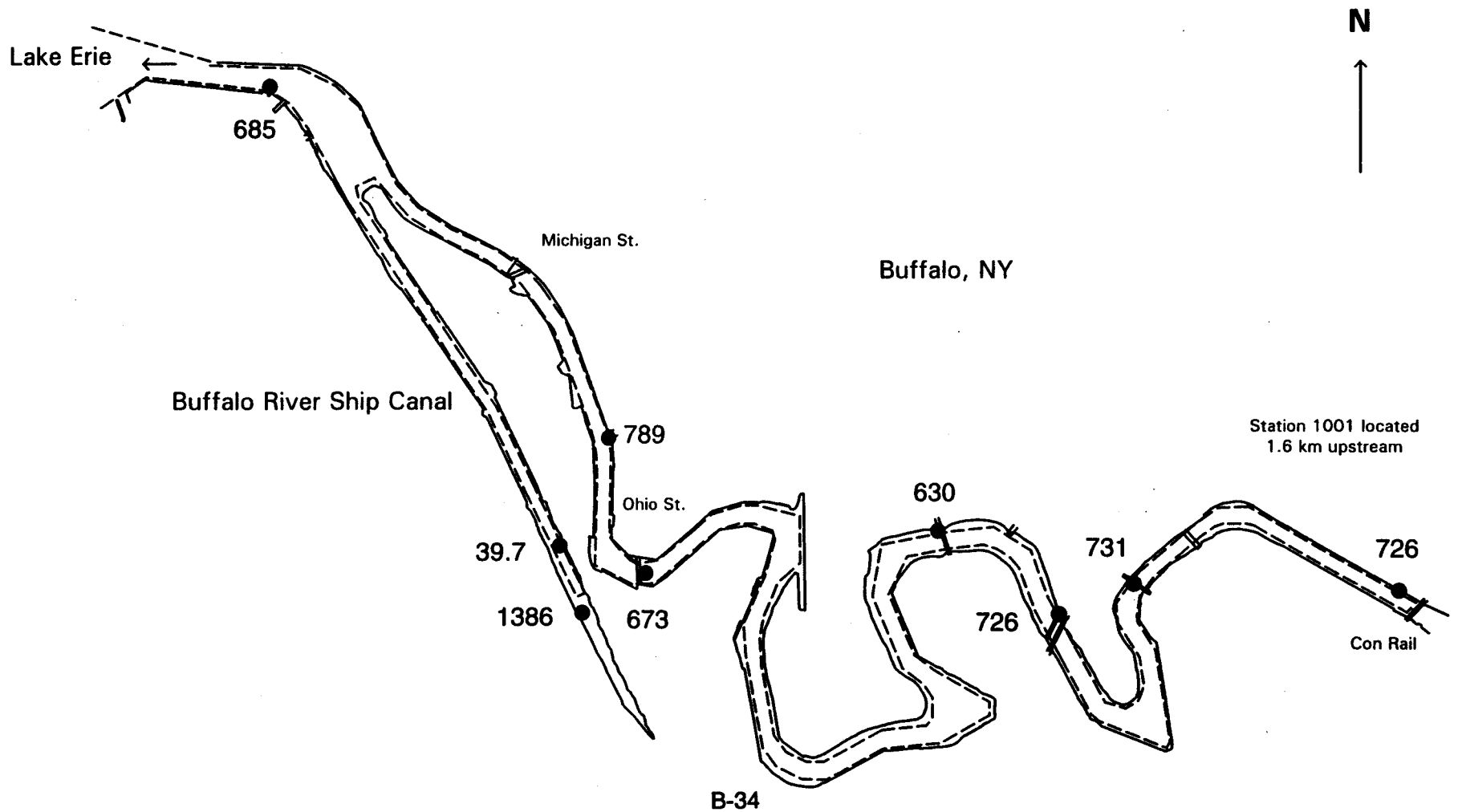
BUFFALO RIVER SURVEY 3
LEAD CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.



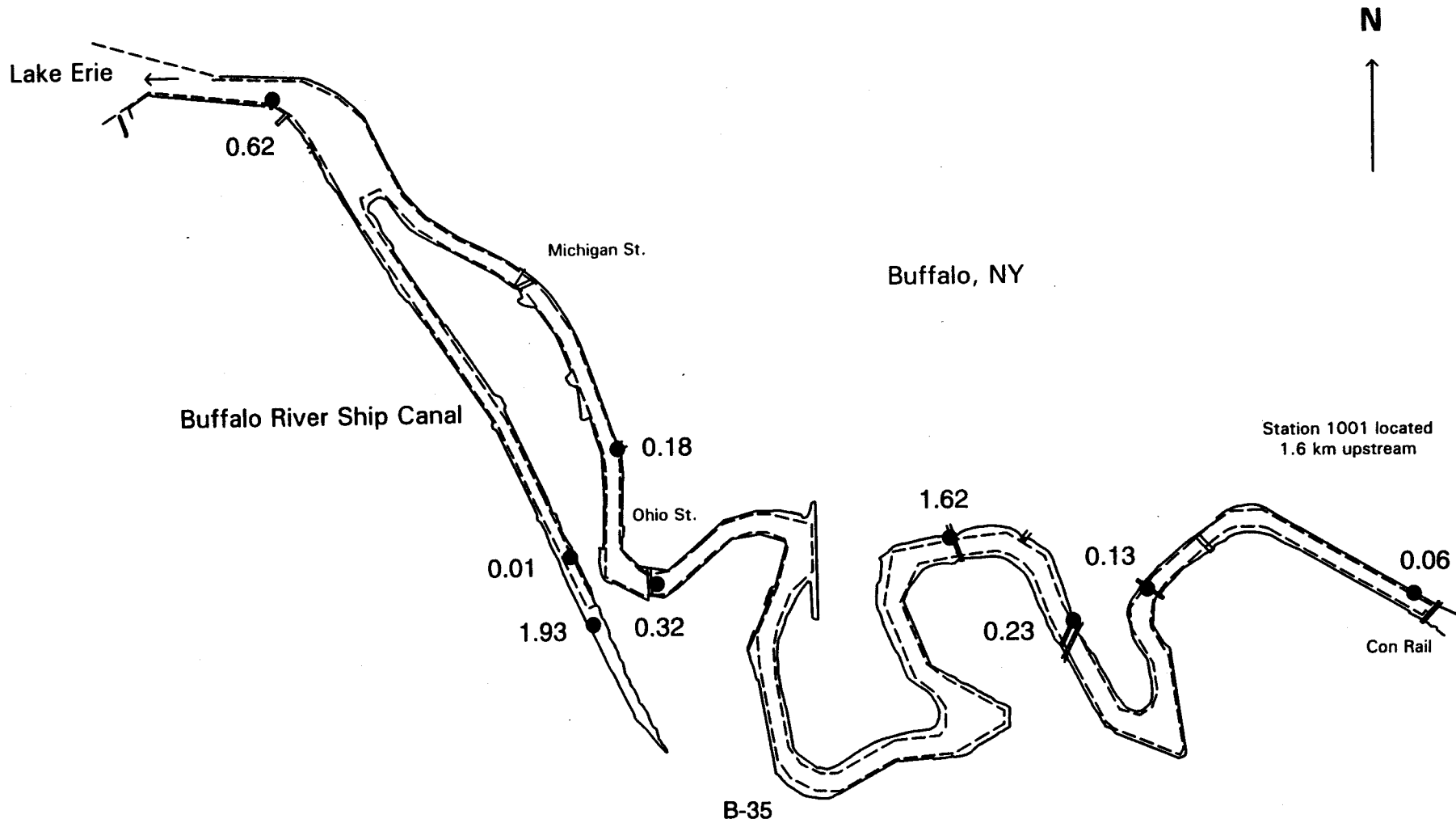
Buffalo River Intensive Zone



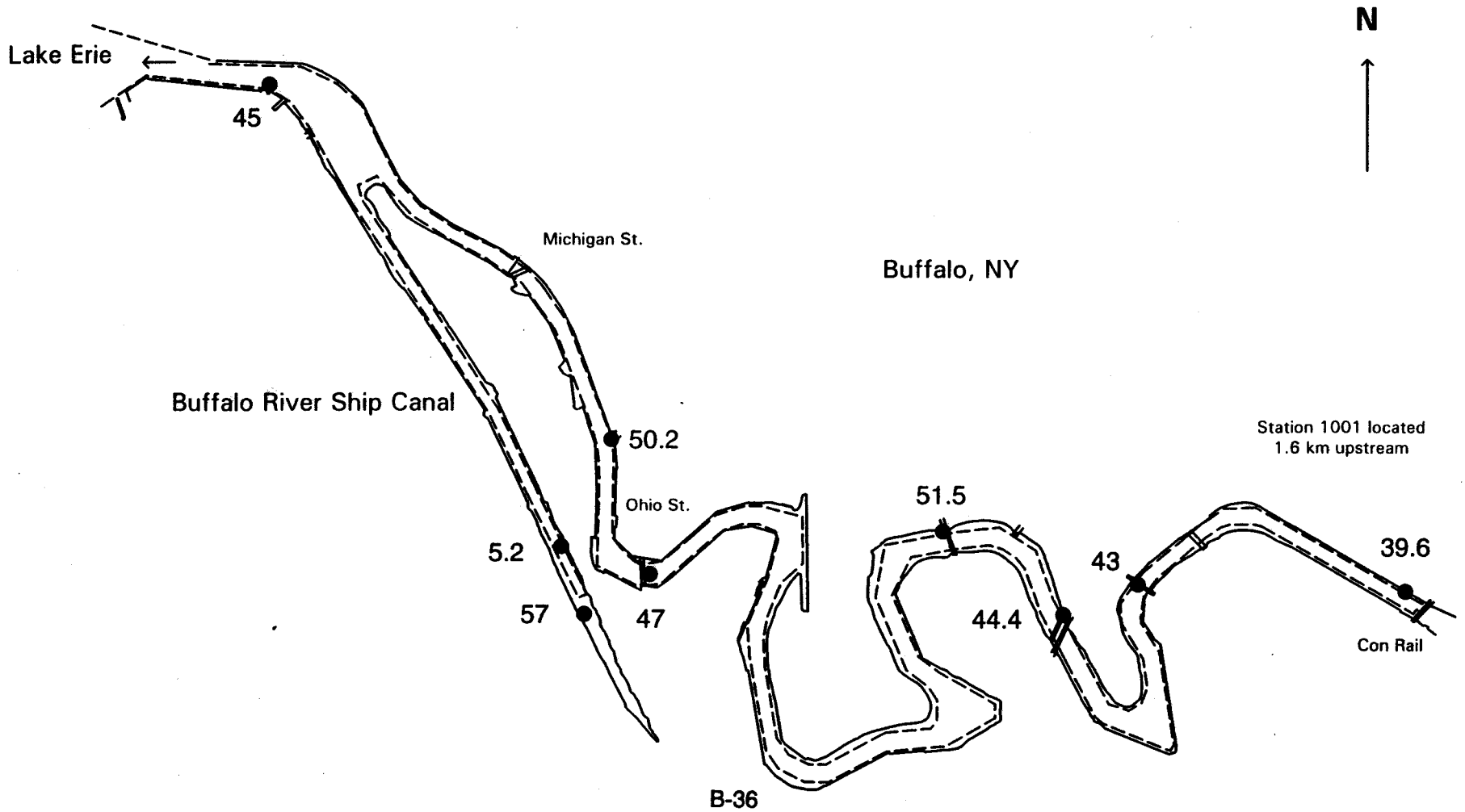
BUFFALO RIVER SURVEY 1
MANGANESE CONCENTRATIONS (ug/g dry wt)



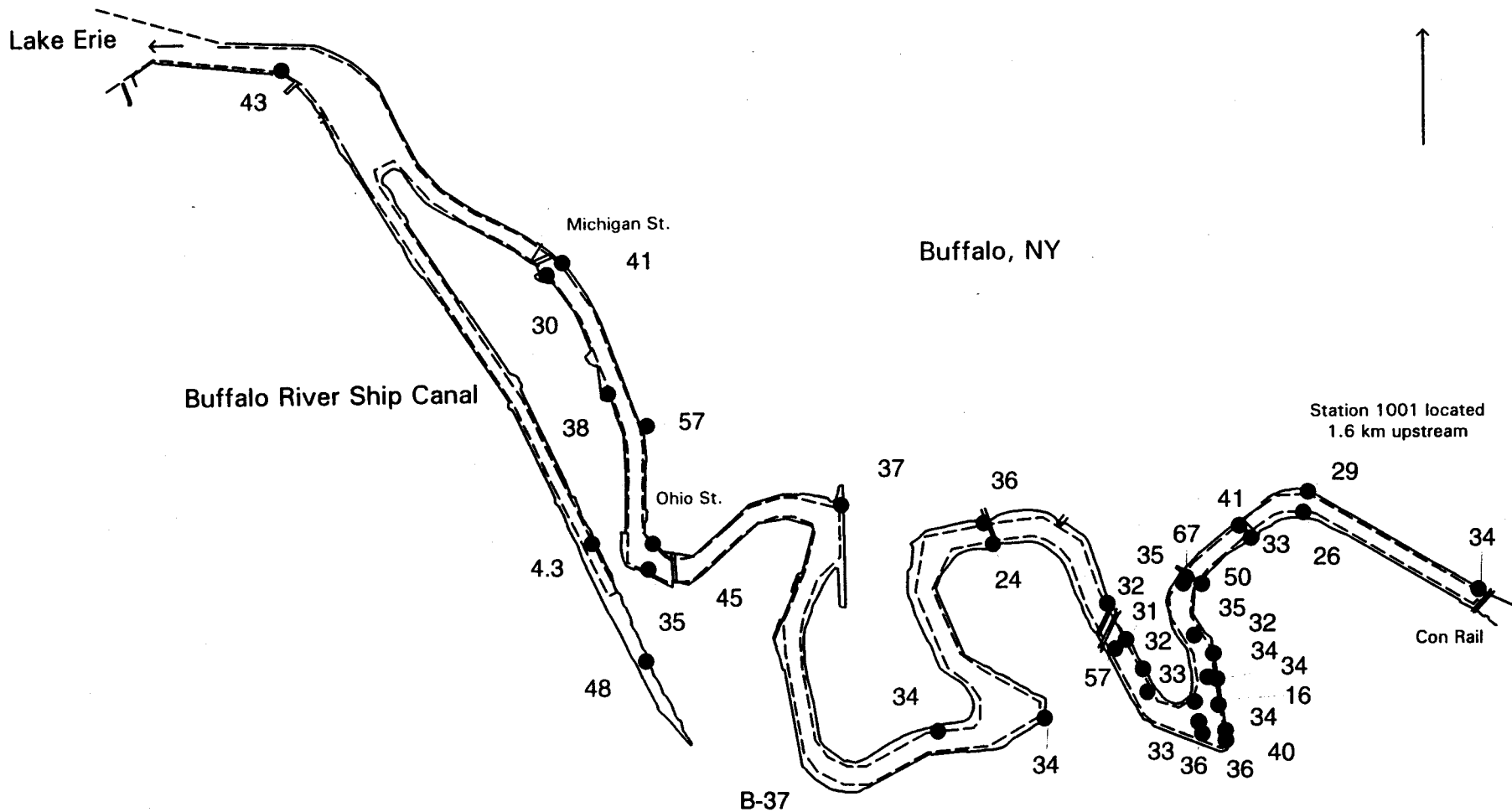
BUFFALO RIVER SURVEY 1 MERCURY CONCENTRATIONS (ug/g dry wt)



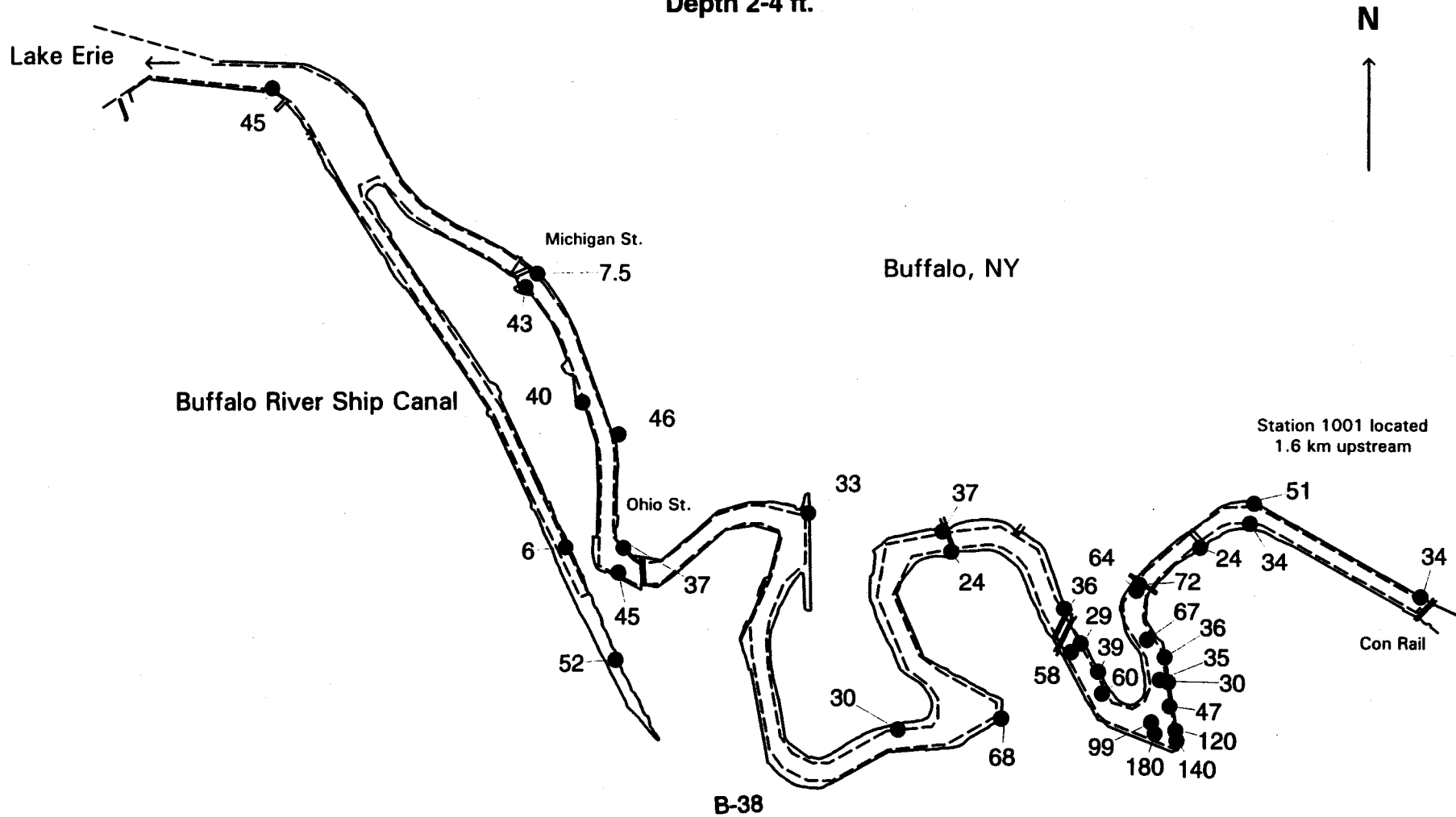
BUFFALO RIVER SURVEY 1 NICKEL CONCENTRATIONS (ug/g dry wt)



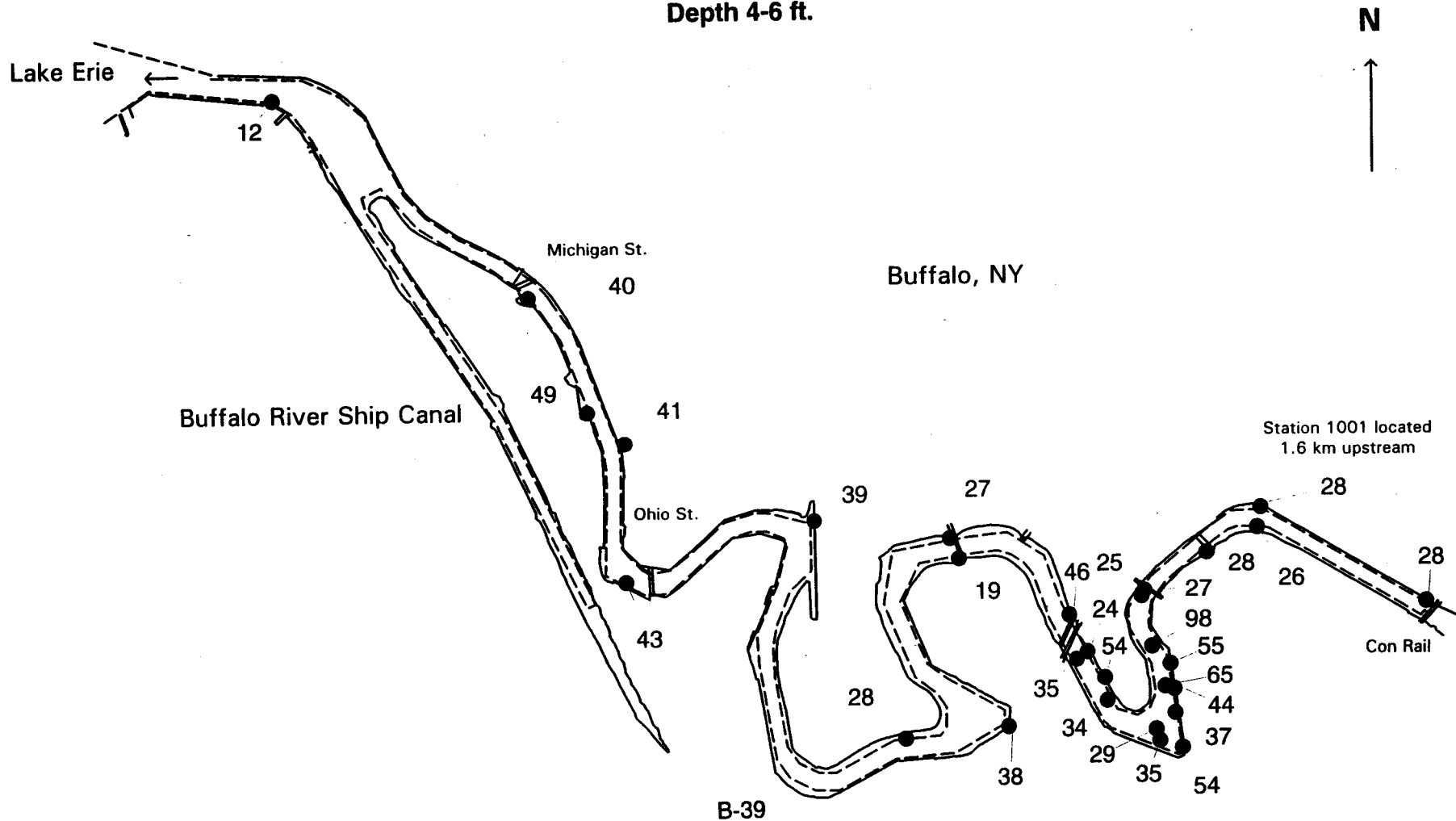
BUFFALO RIVER SURVEY 3
NICKEL CONCENTRATIONS (ug/g dry wt)
Depth 0-2ft.



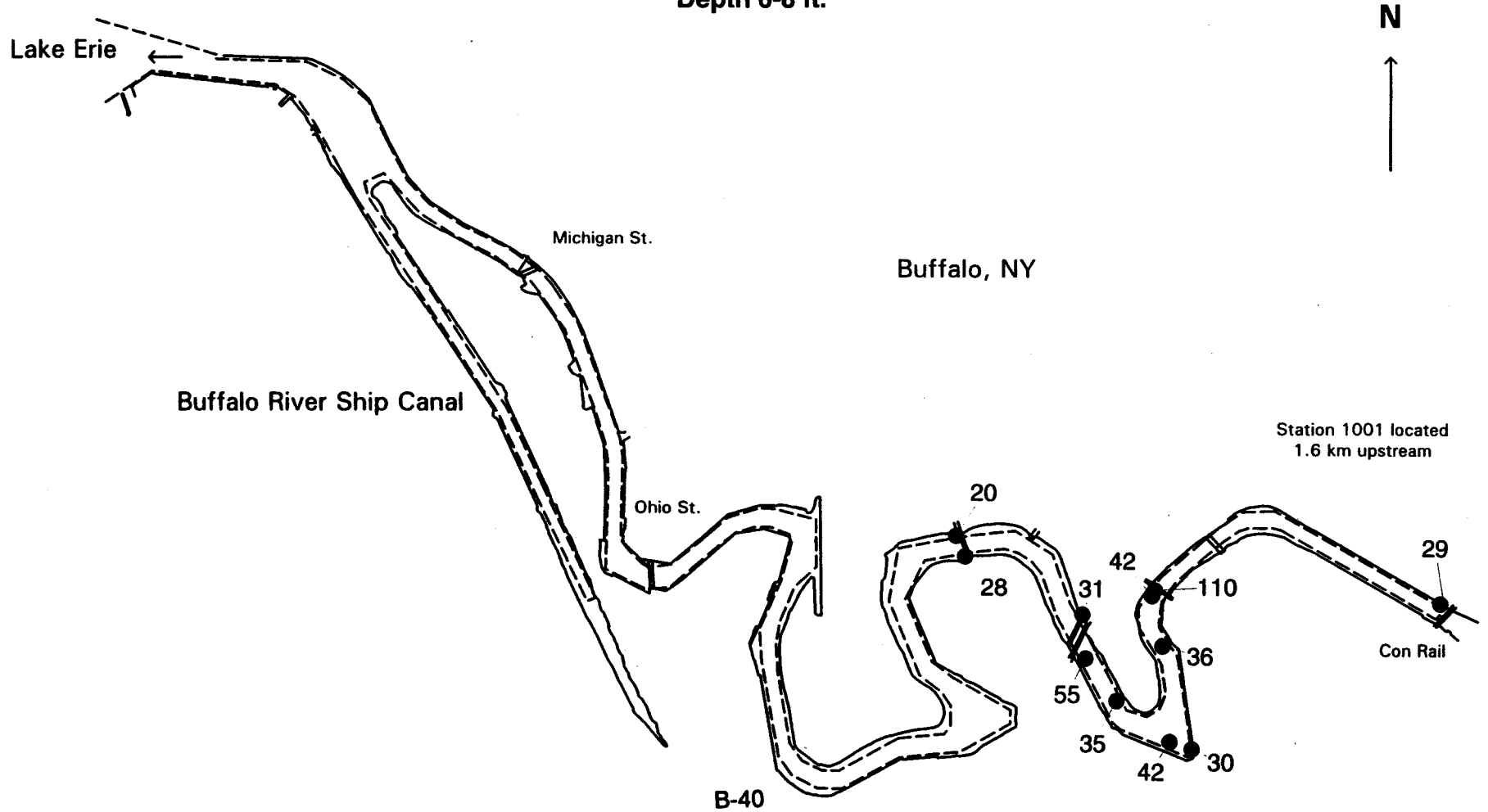
BUFFALO RIVER SURVEY 3
NICKEL CONCENTRATIONS (ug/g dry wt)
Depth 2-4 ft.



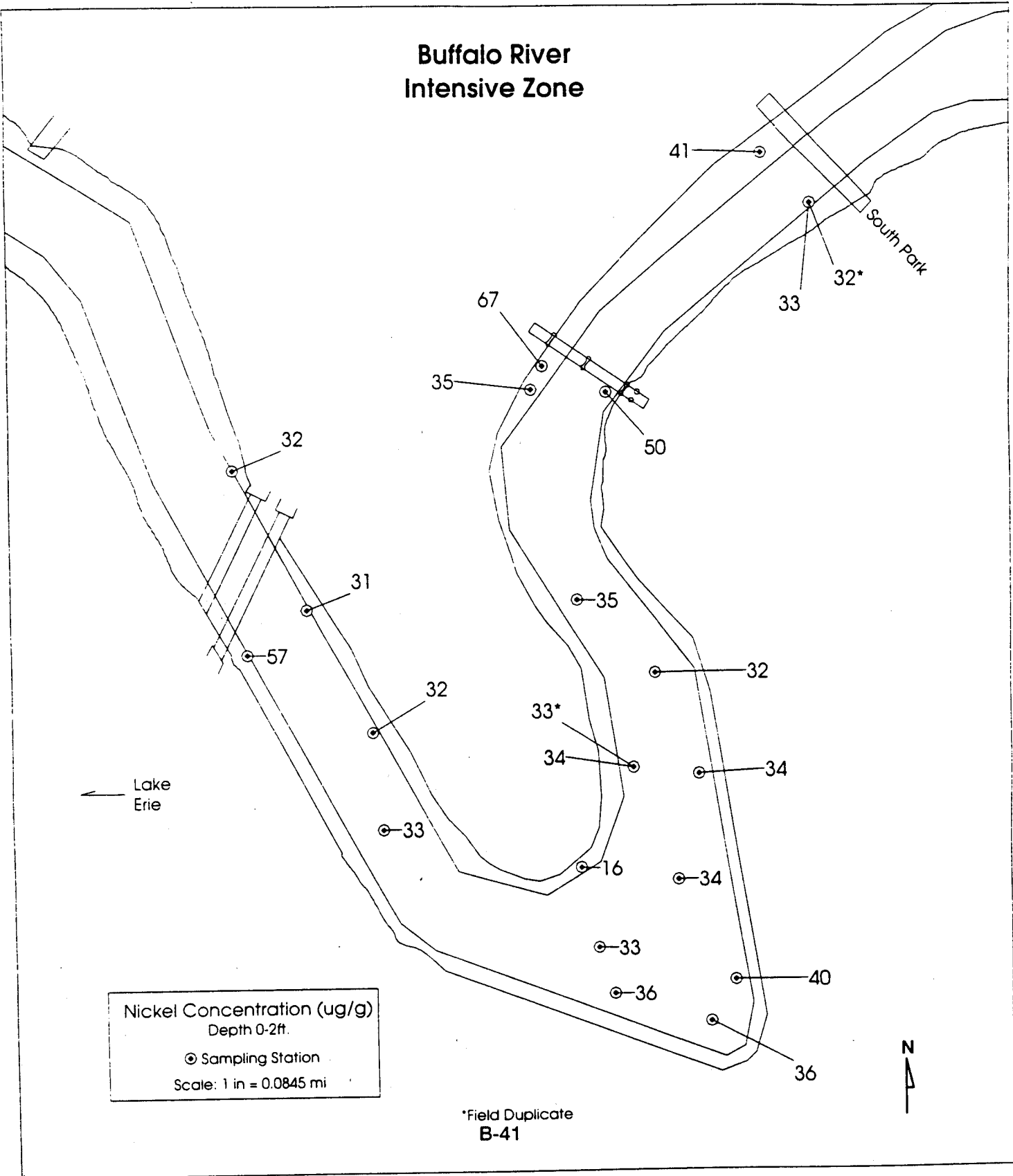
**BUFFALO RIVER SURVEY 3
NICKEL CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.**



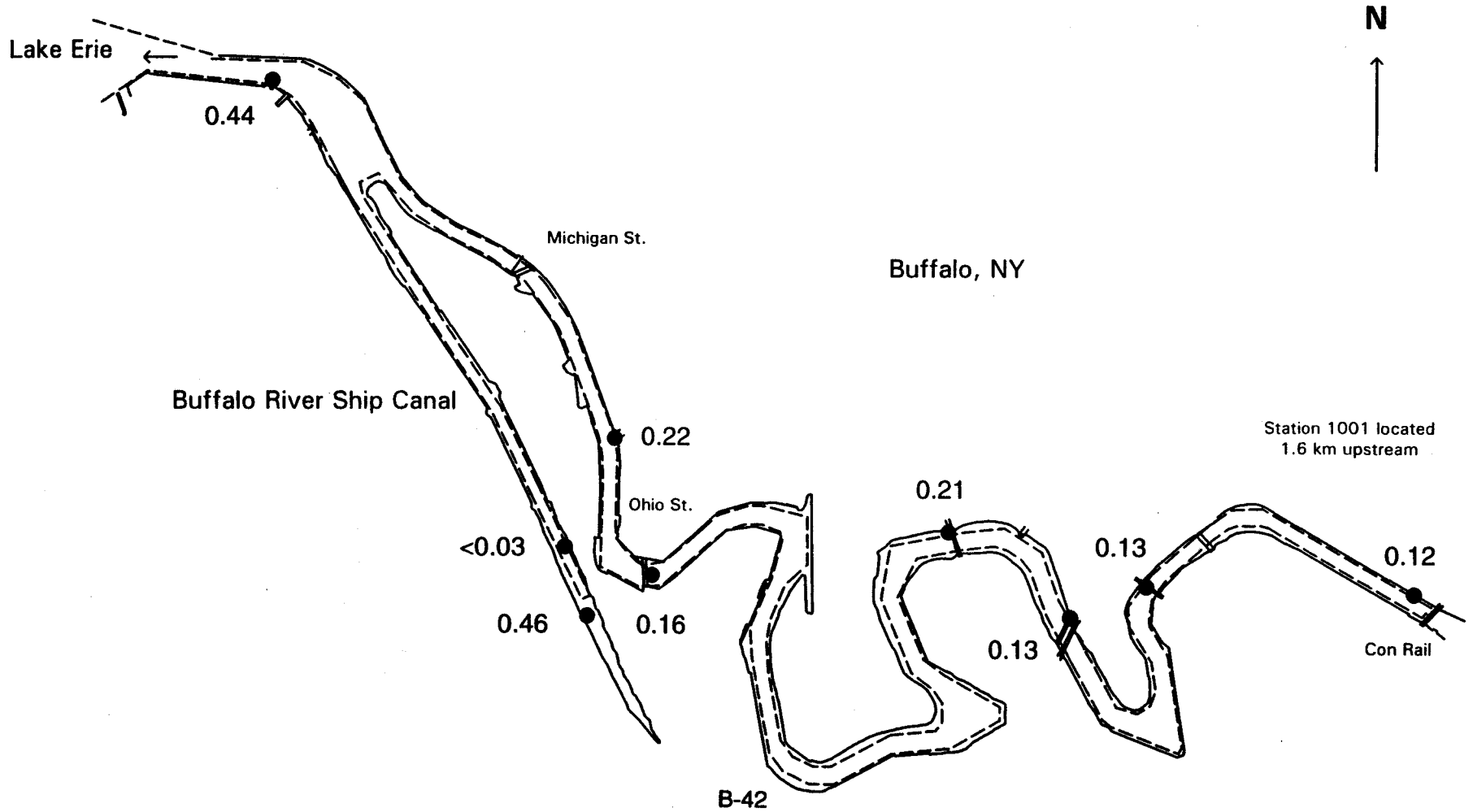
BUFFALO RIVER SURVEY 3
NICKEL CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.



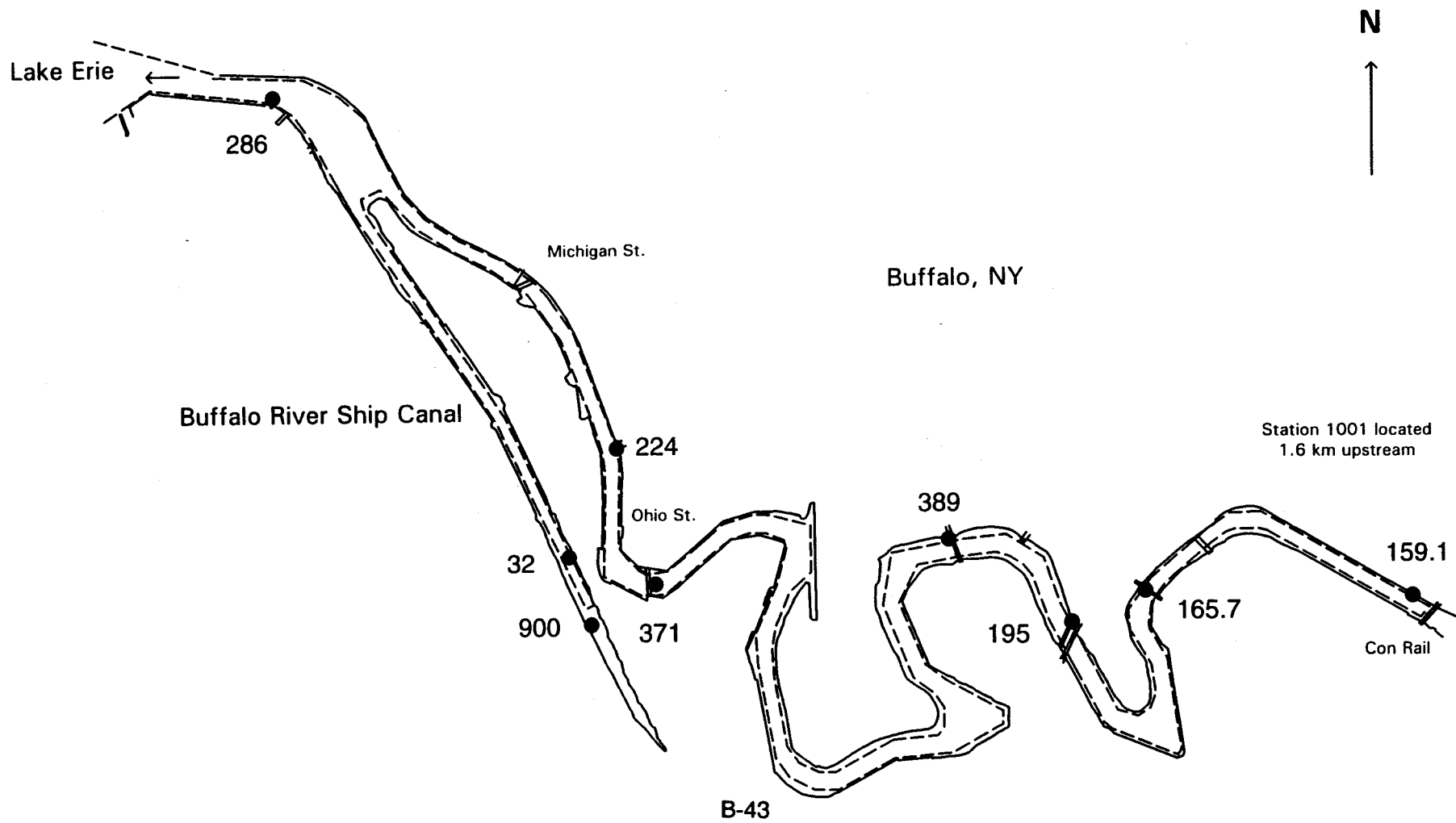
Buffalo River Intensive Zone



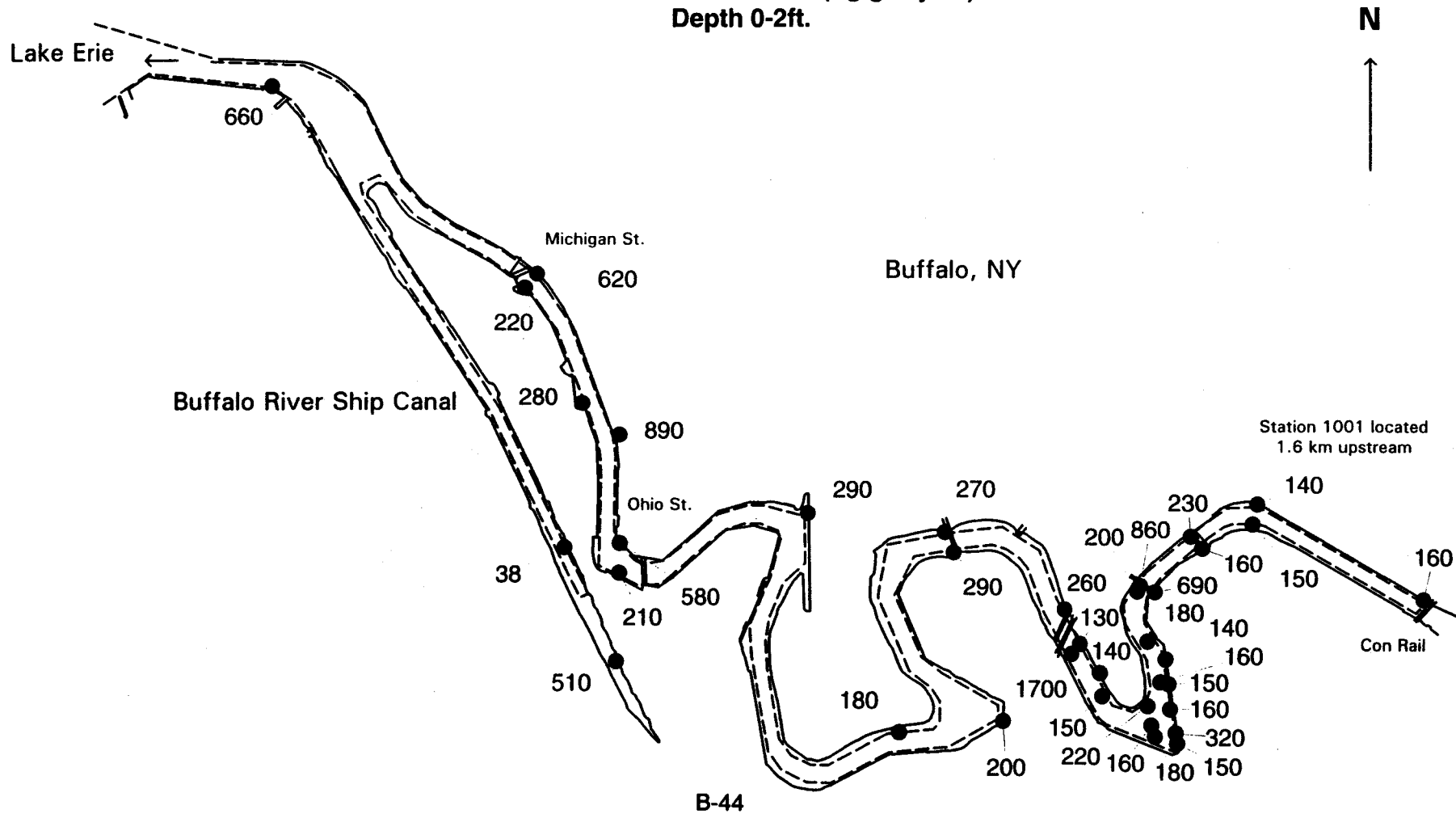
**BUFFALO RIVER SURVEY 1
SILVER CONCENTRATIONS (ug/g dry wt)**



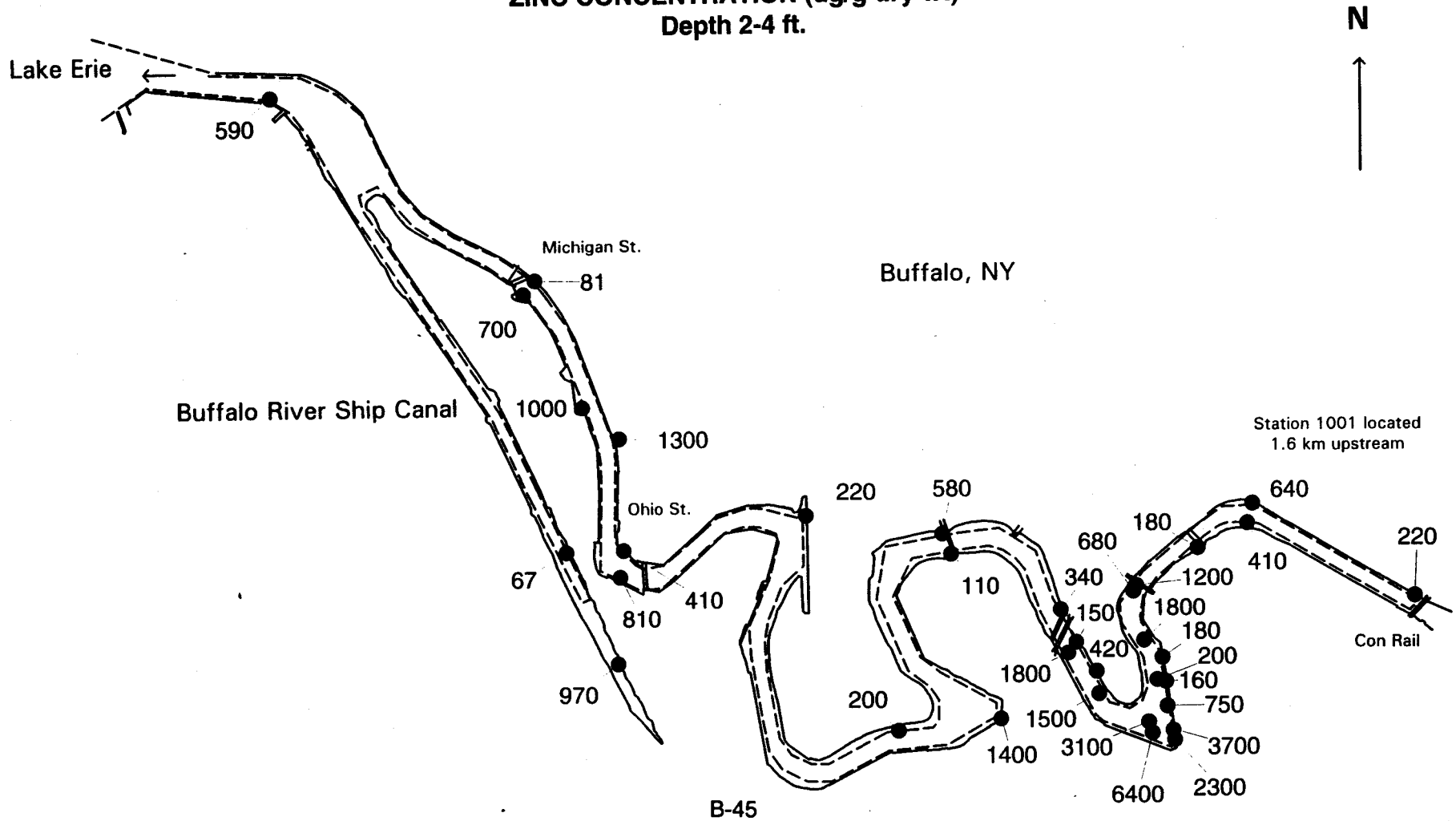
BUFFALO RIVER SURVEY 1 ZINC CONCENTRATIONS (ug/g dry wt)



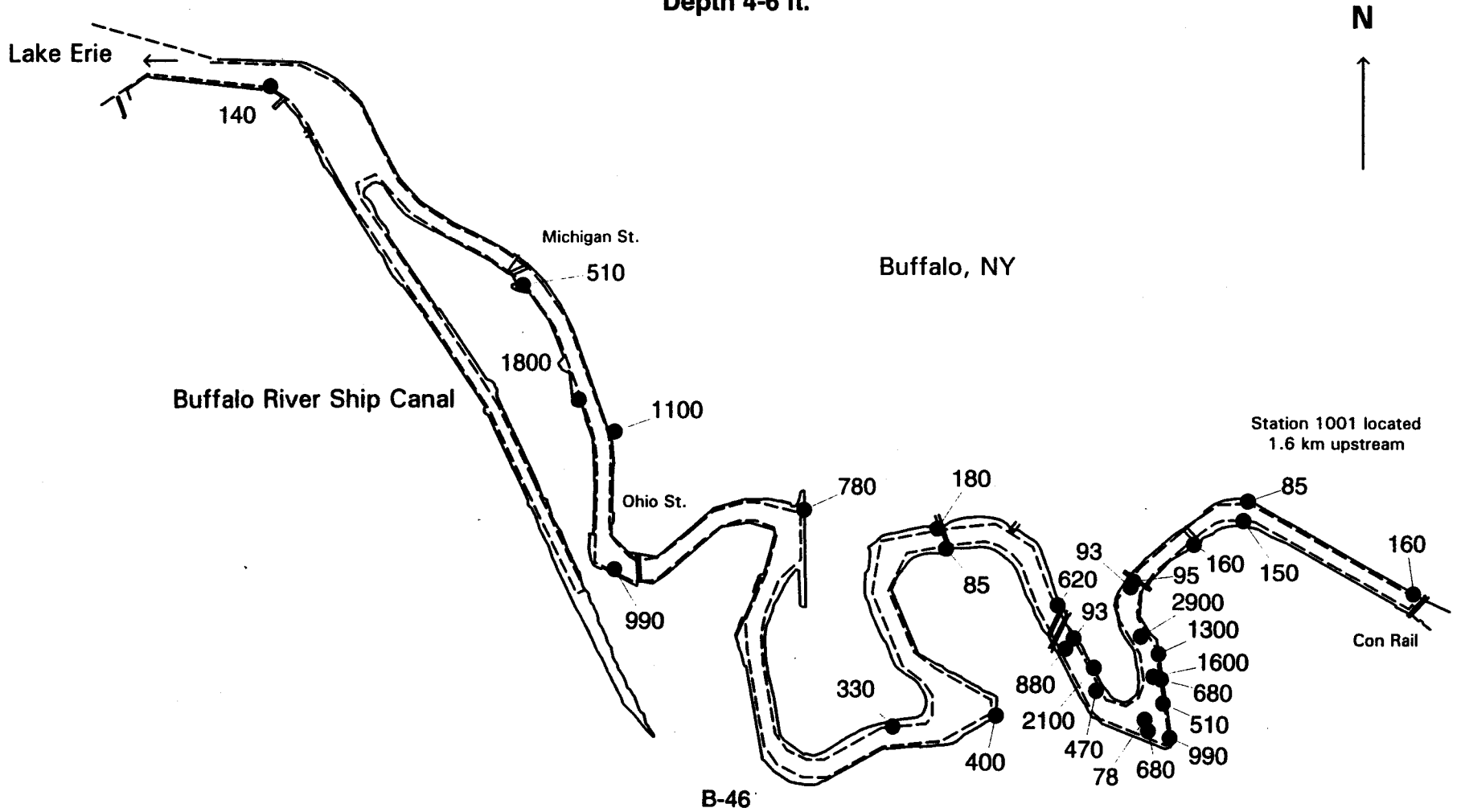
BUFFALO RIVER SURVEY 3
ZINC CONCENTRATIONS (ug/g dry wt)
Depth 0-2ft.



BUFFALO RIVER SURVEY 3
ZINC CONCENTRATION (ug/g dry wt)
Depth 2-4 ft.



BUFFALO RIVER SURVEY 3
ZINC CONCENTRATIONS (ug/g dry wt)
Depth 4-6 ft.



**BUFFALO RIVER SURVEY 3
ZINC CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.**



Lake Erie

Buffalo River Ship Canal

Michigan St.

Buffalo, NY

Ohio St.

Station 1001 located
1.6 km upstream

Con Rail

B-47

130

360

210

450

1700

530

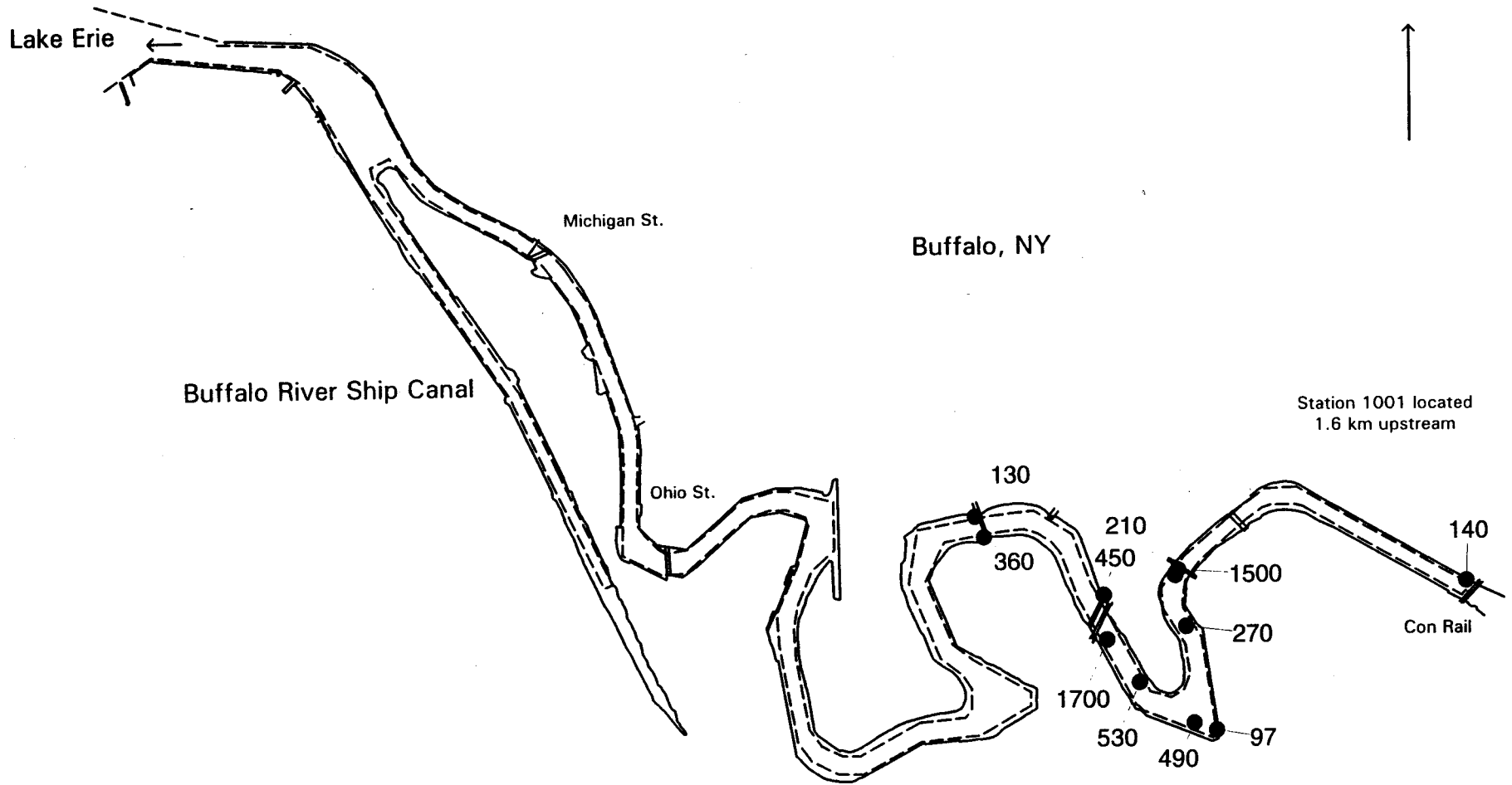
490

1500

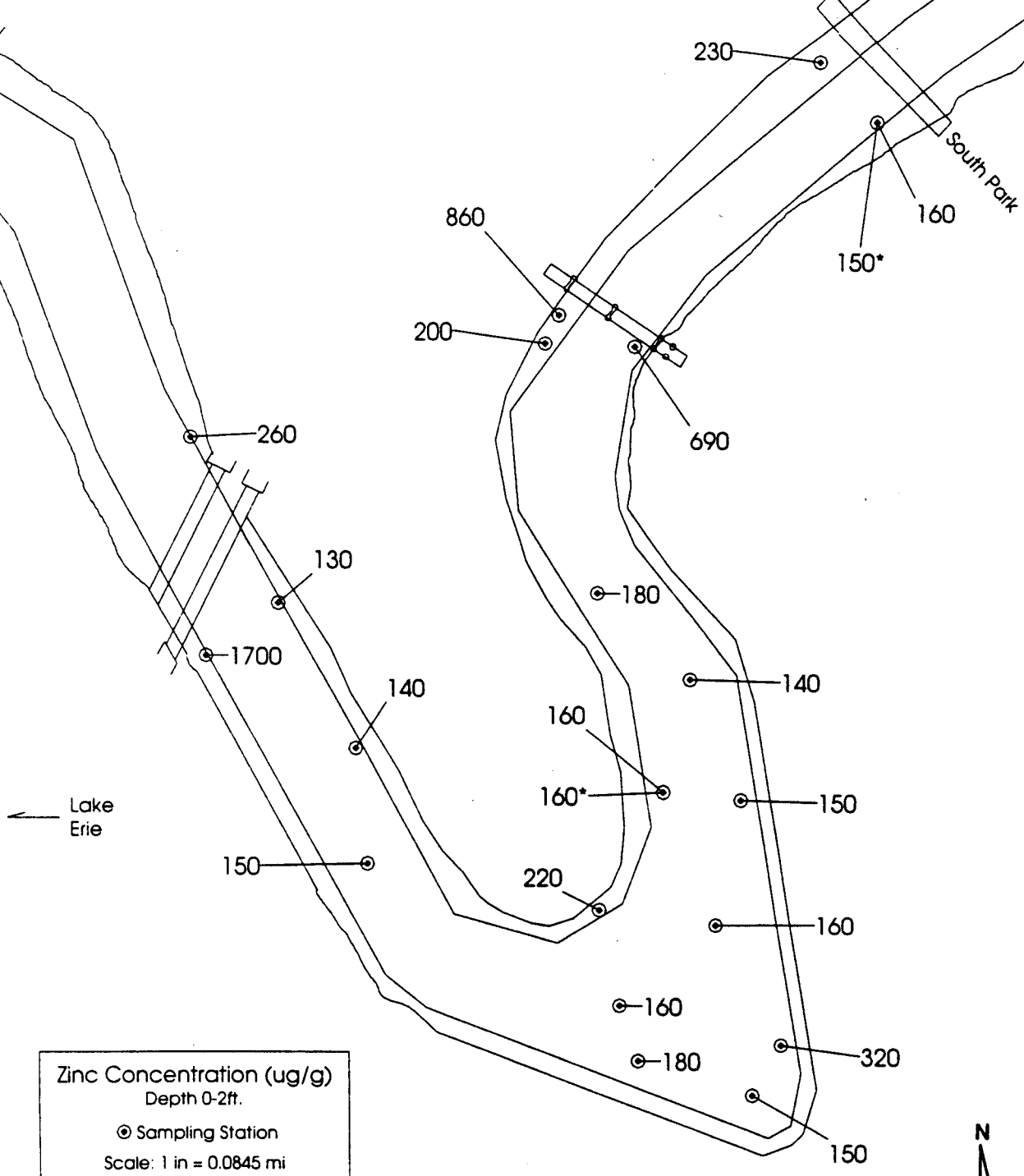
270

97

140



Buffalo River Intensive Zone

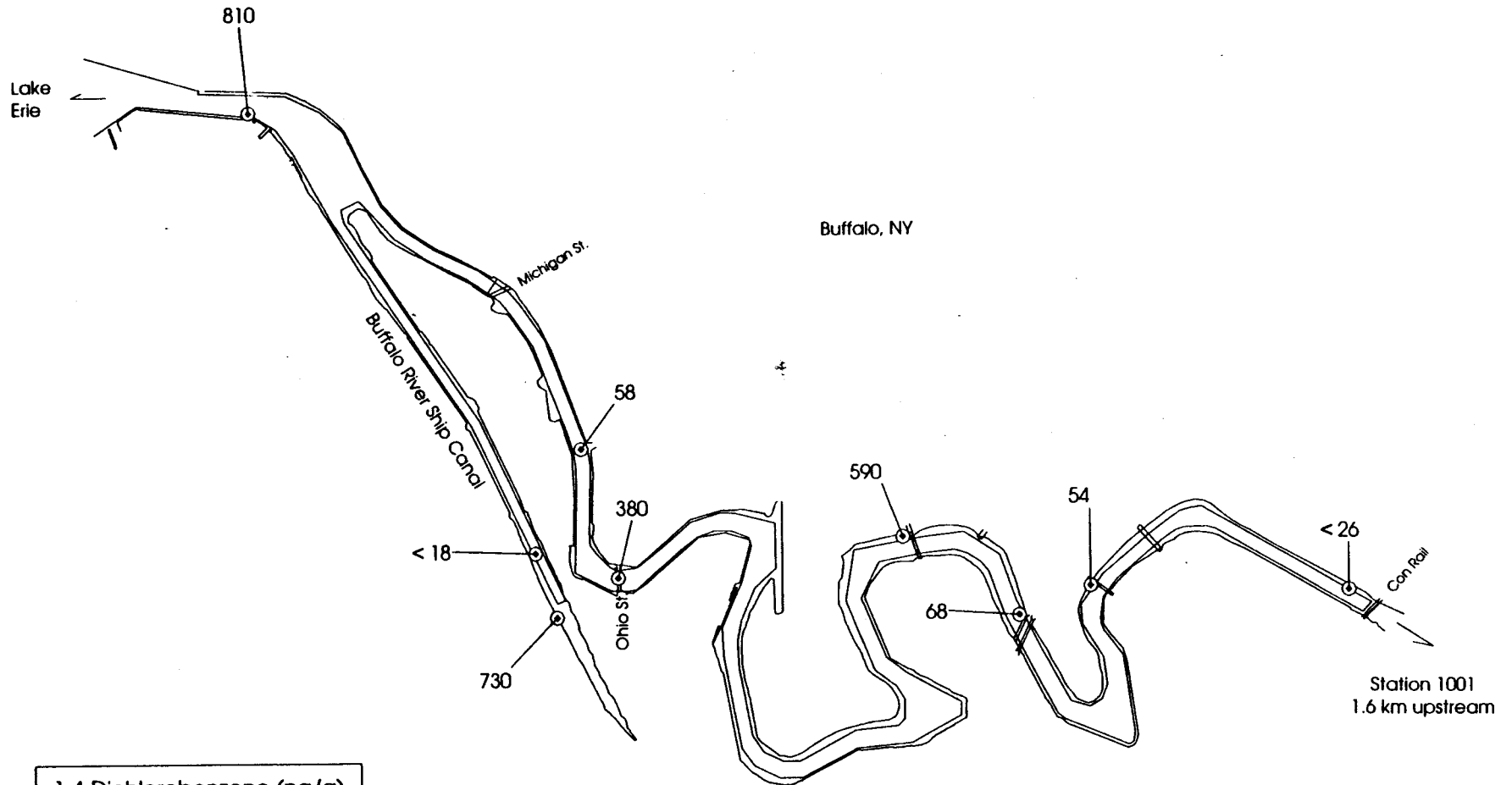


Zinc Concentration (ug/g)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-48



Buffalo River

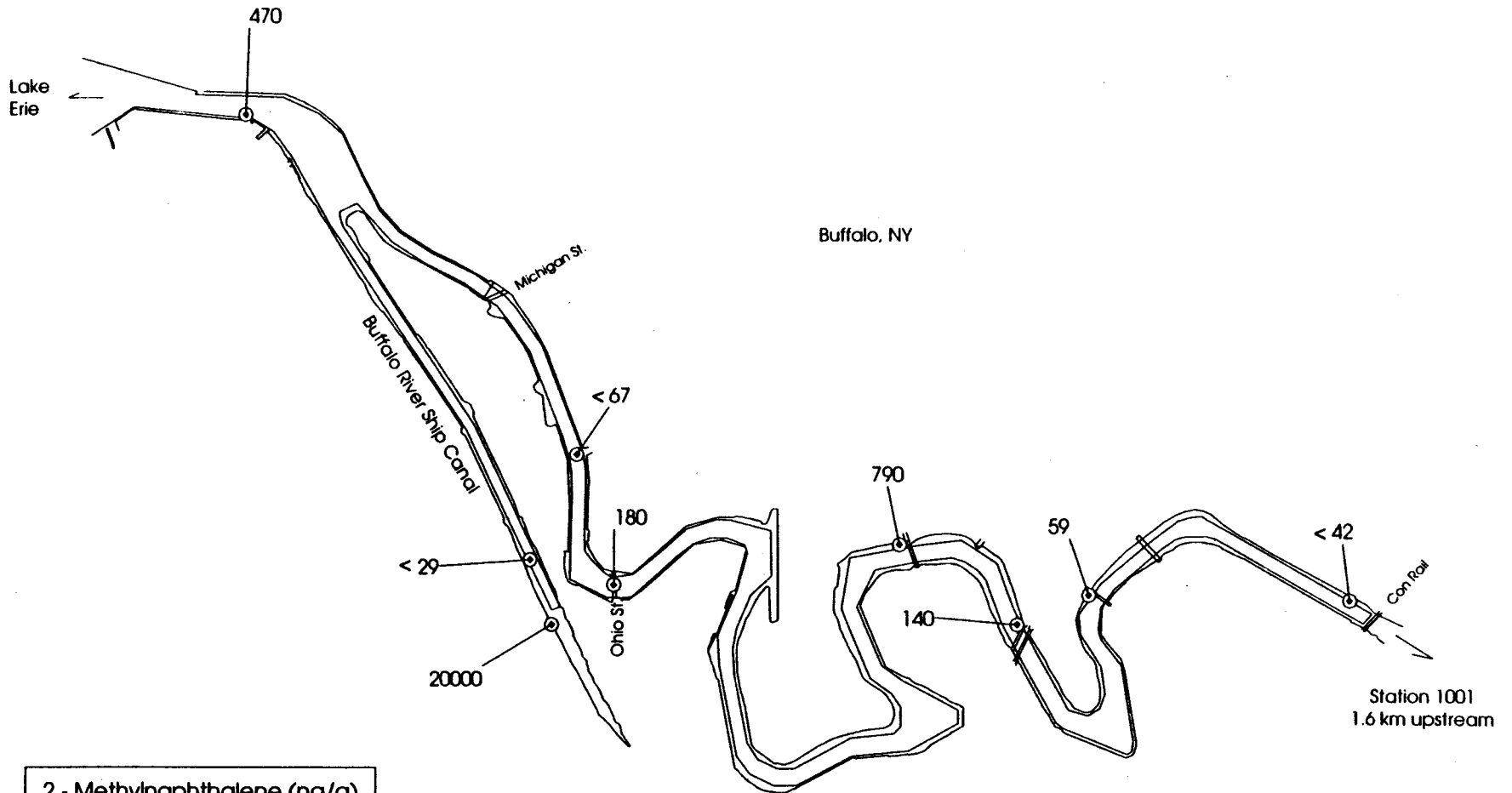


1,4-Dichlorobenzene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-49



Buffalo River

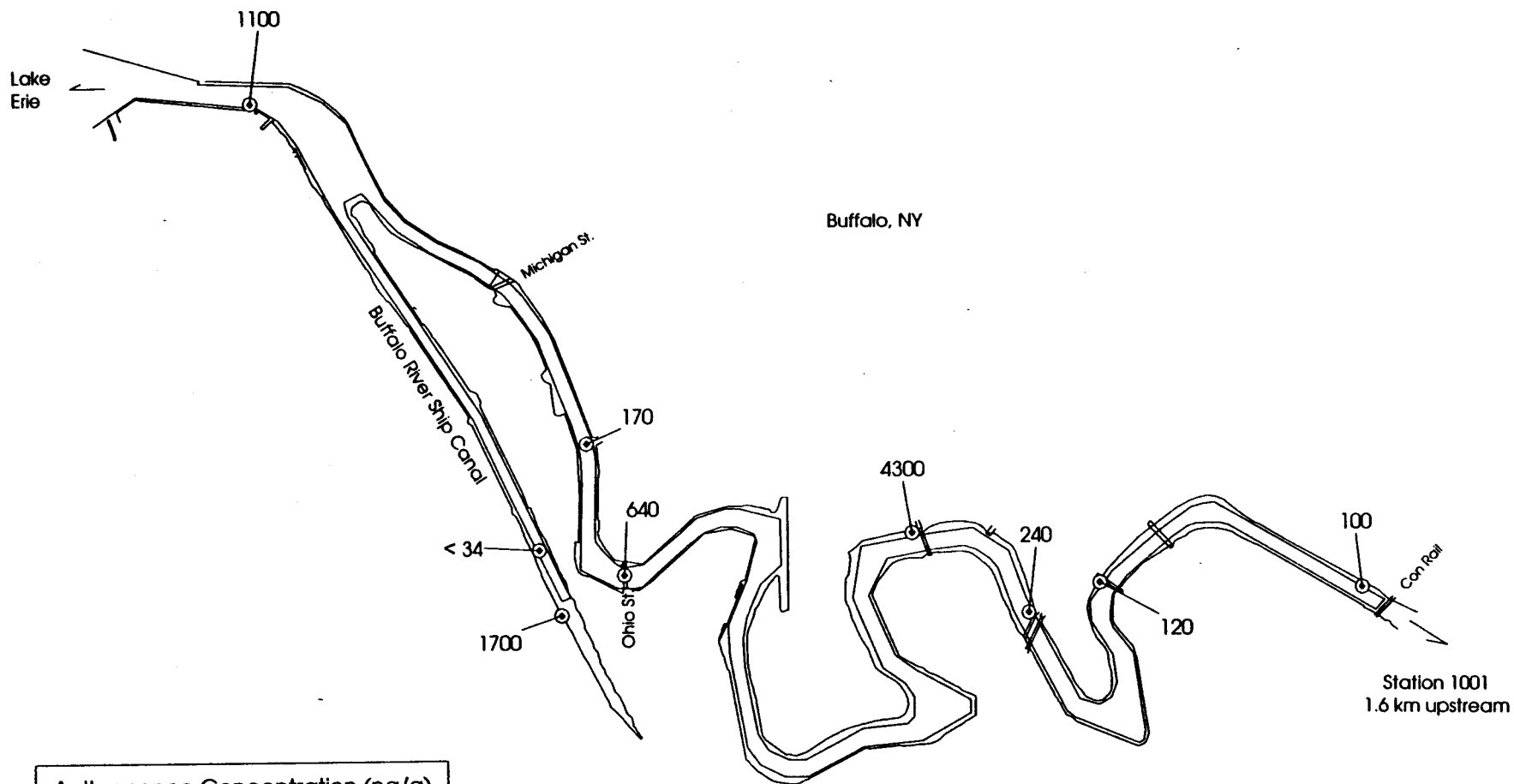


2 - Methylnaphthalene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-50



Buffalo River

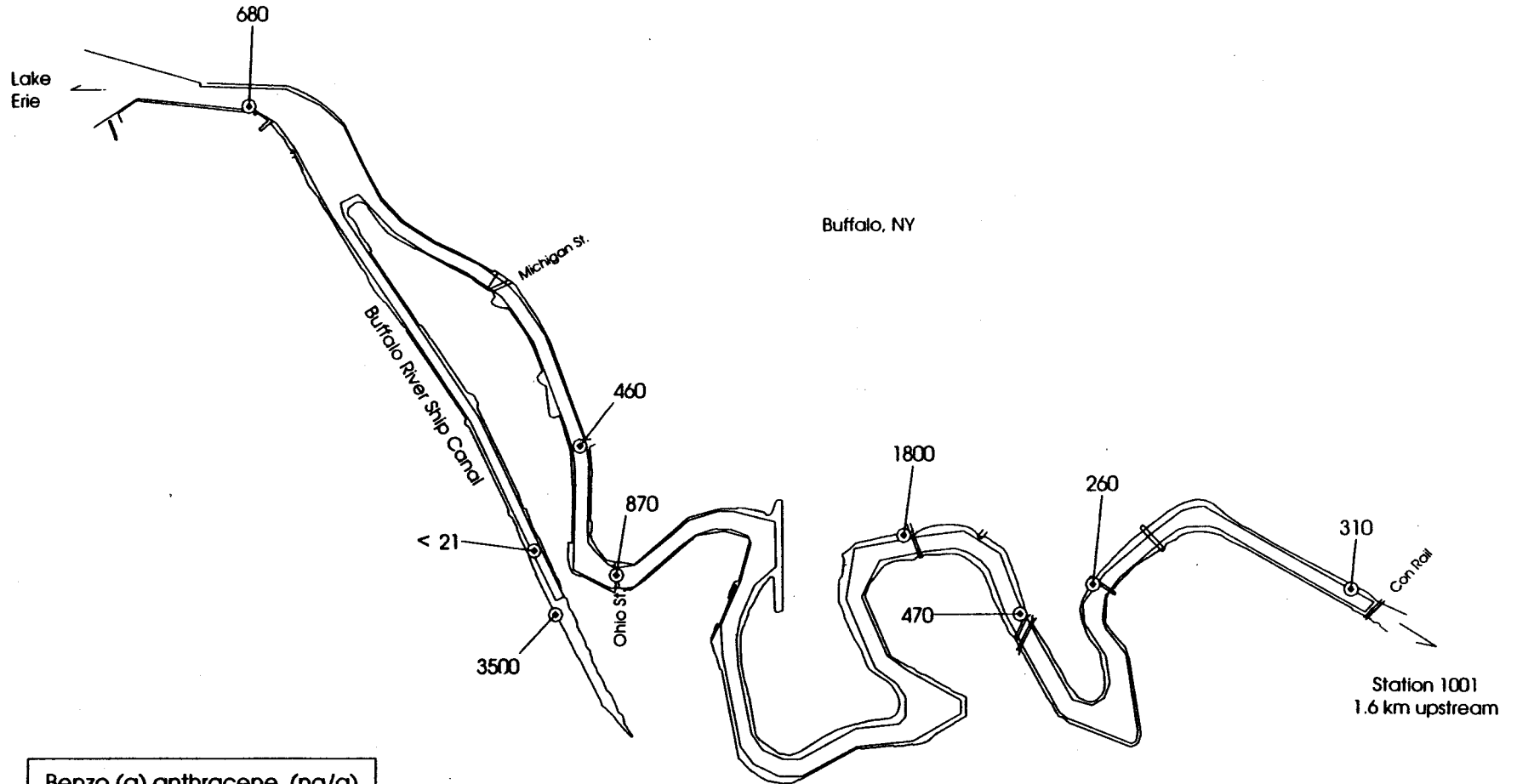


Anthracene Concentration (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-51



Buffalo River

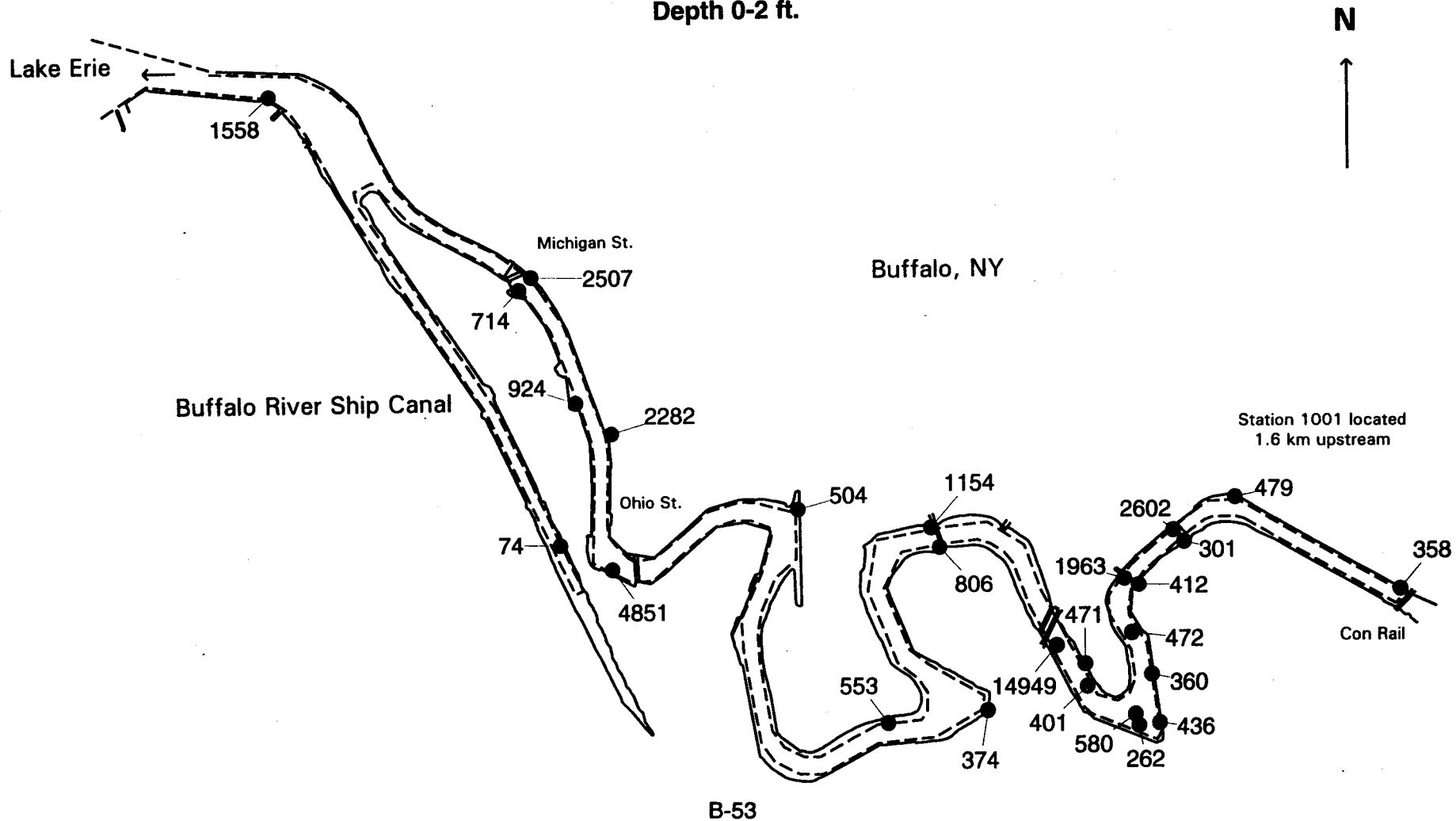


Benzo (a) anthracene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

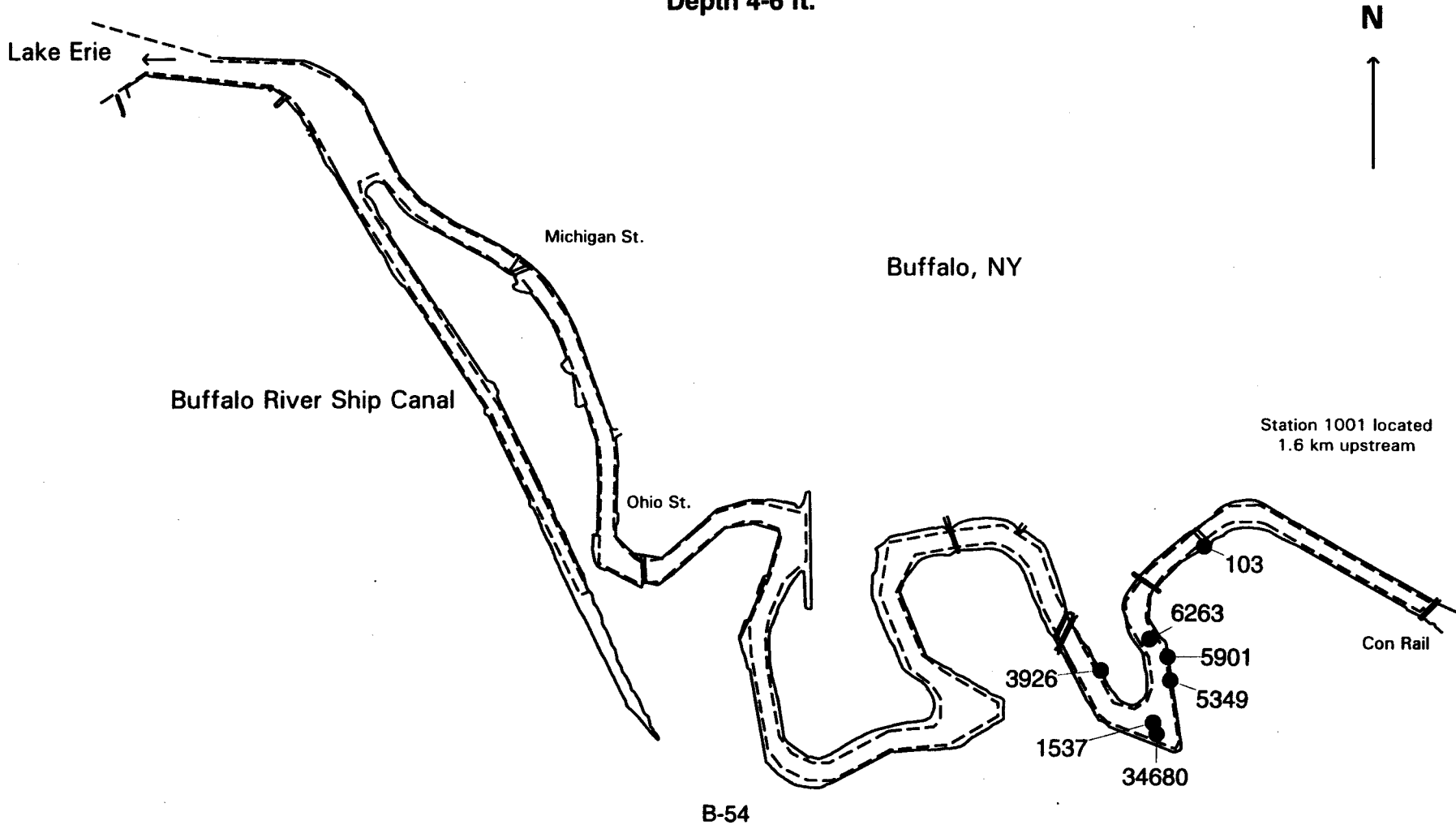
*Field Duplicate
B-52



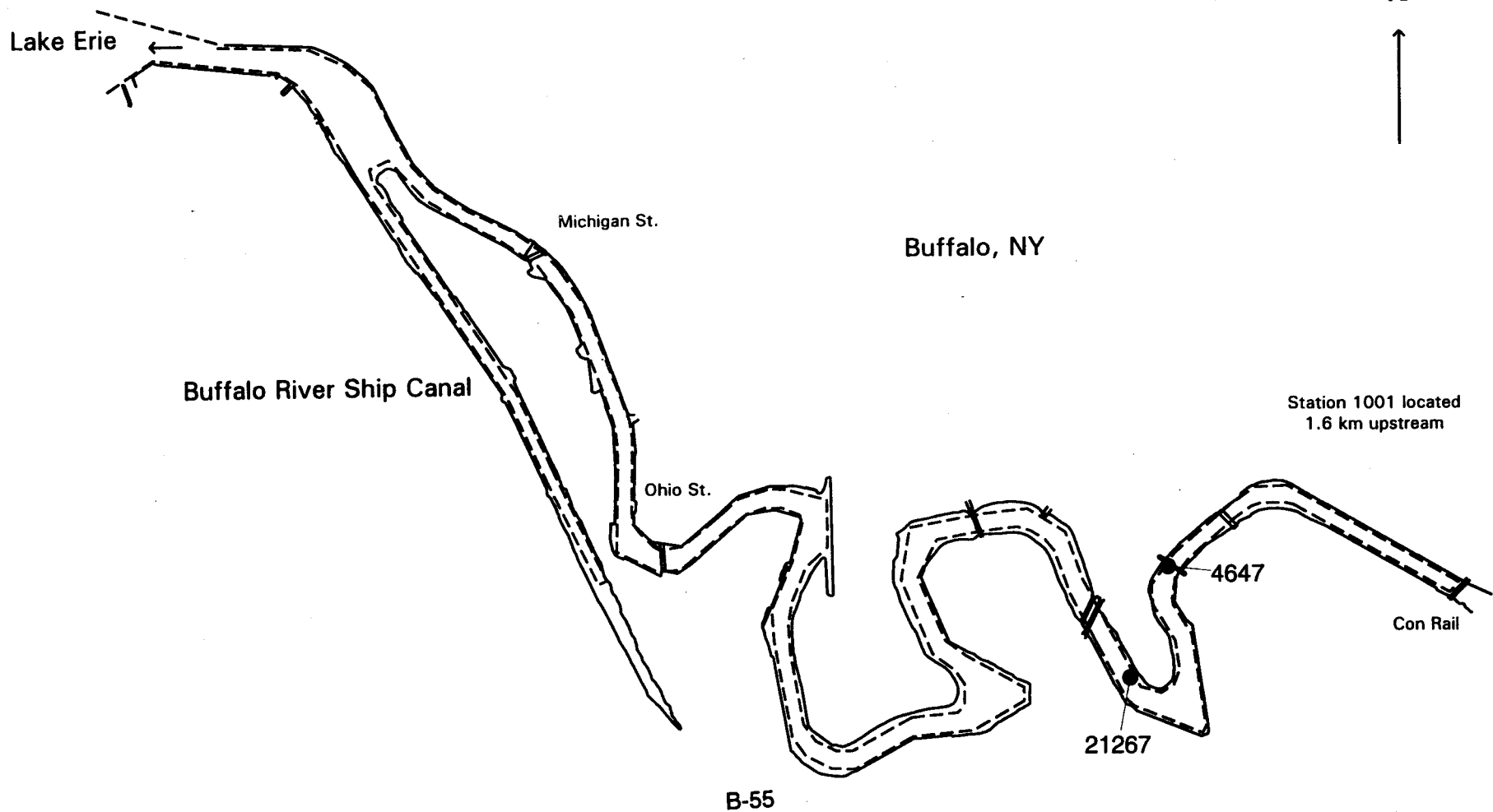
BUFFALO RIVER SURVEY 3
BENZ(A)ANTHRACENE CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



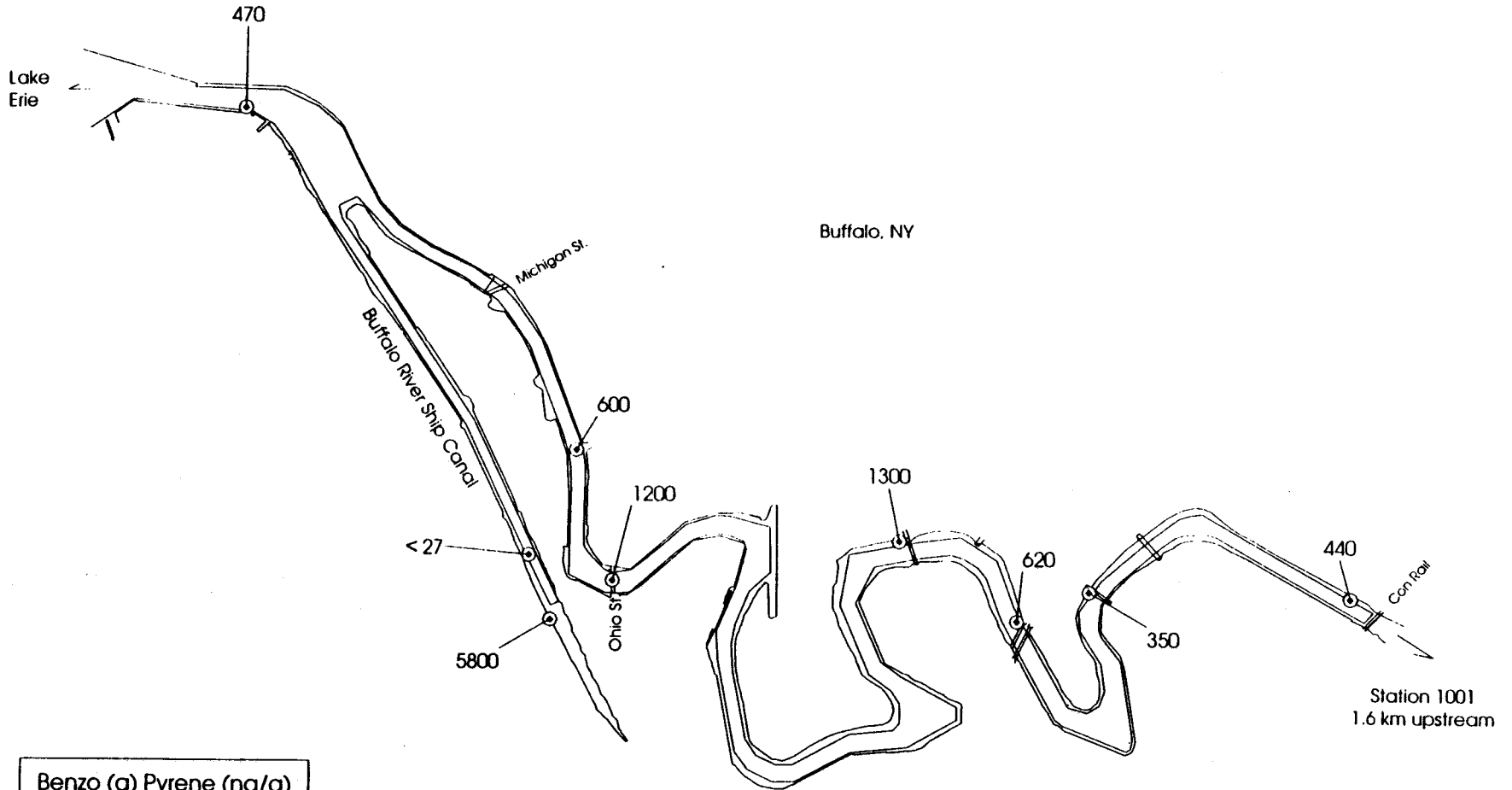
BUFFALO RIVER SURVEY 3
BENZ(A)ANTHRACENE CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



BUFFALO RIVER SURVEY 3
BENZ(A)ANTHRACENE CONCENTRATIONS (ng/g dry wt)
Depth 6-8 ft.



Buffalo River

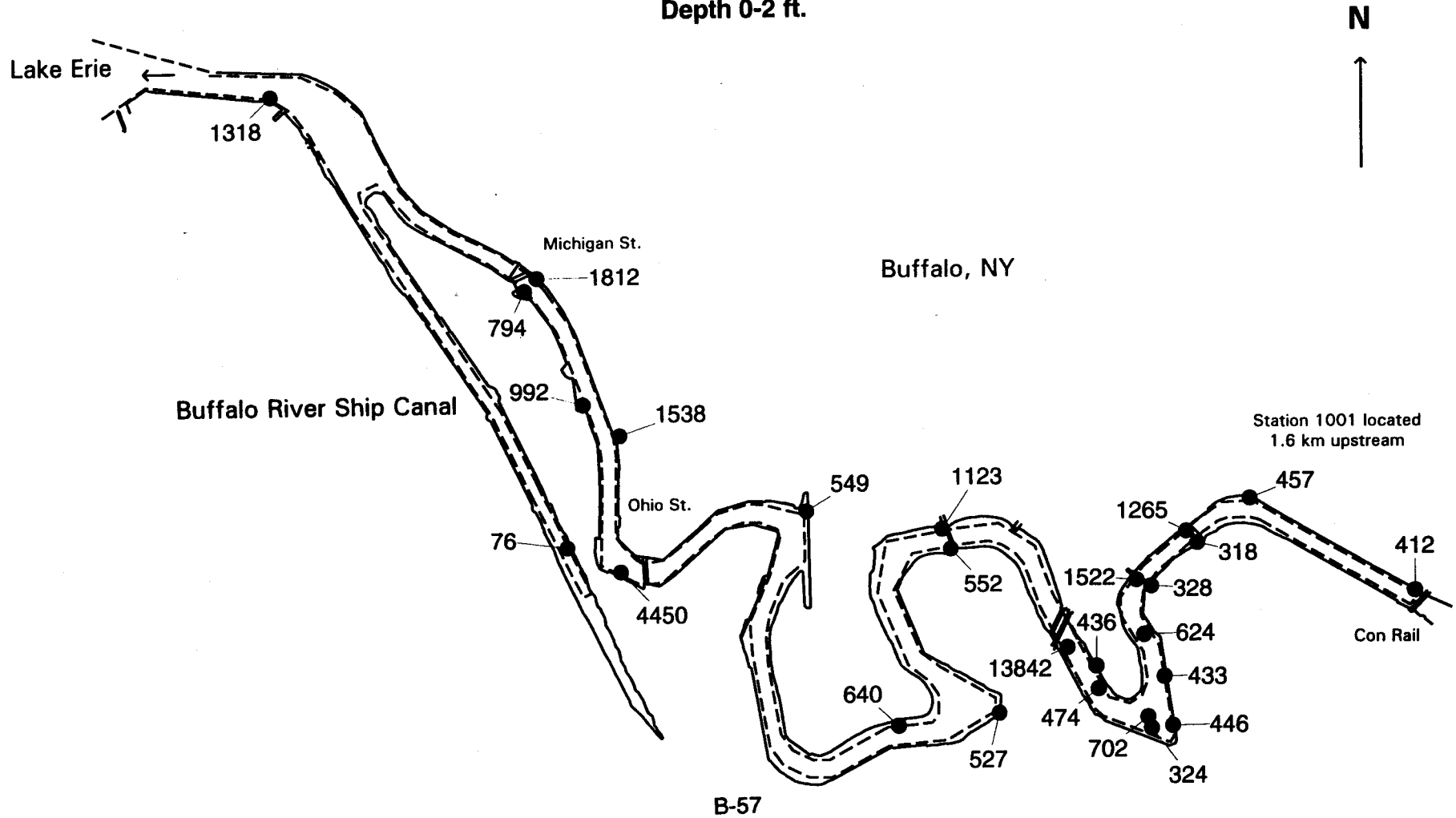


Benzo (a) Pyrene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

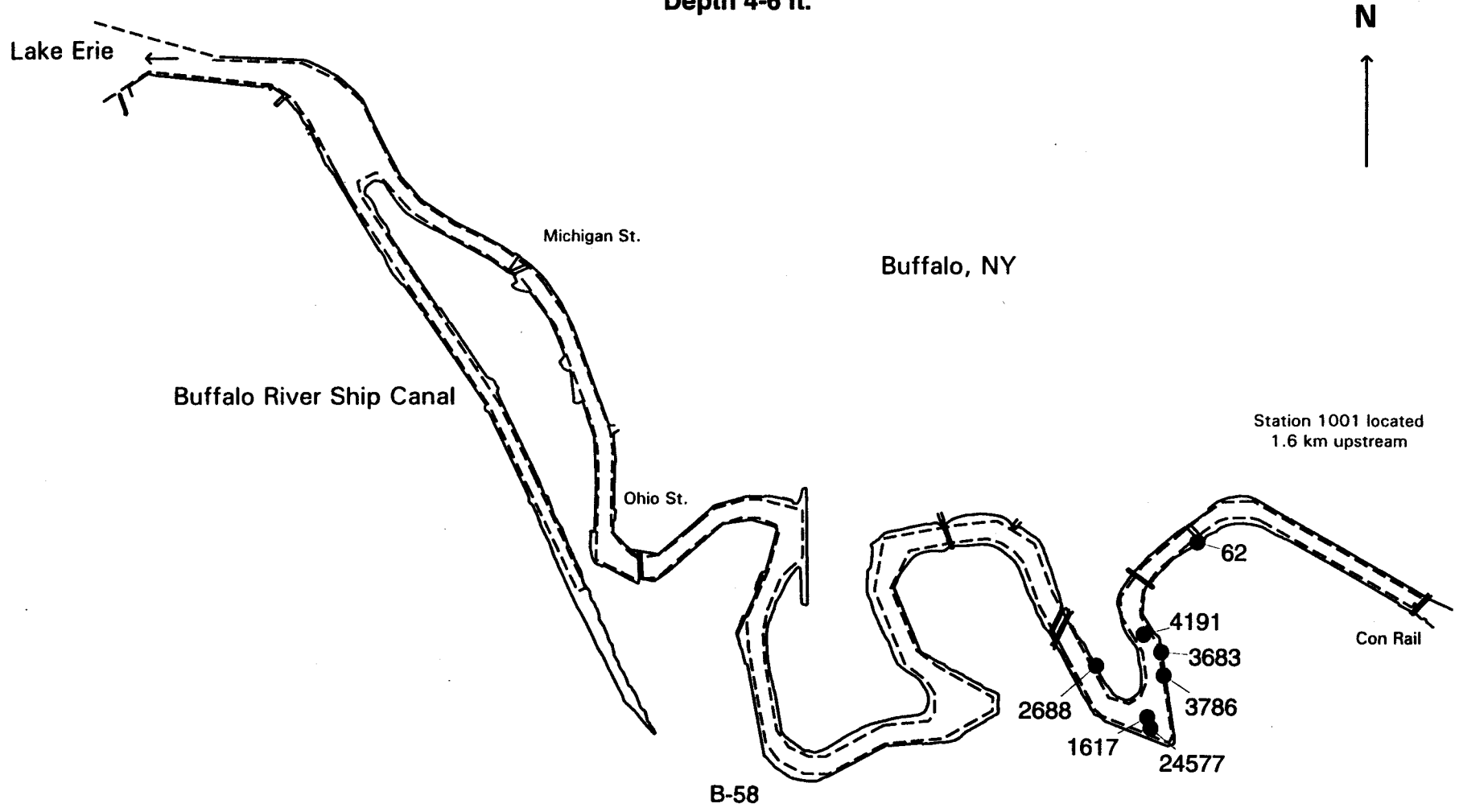
*Field Duplicate
B-56



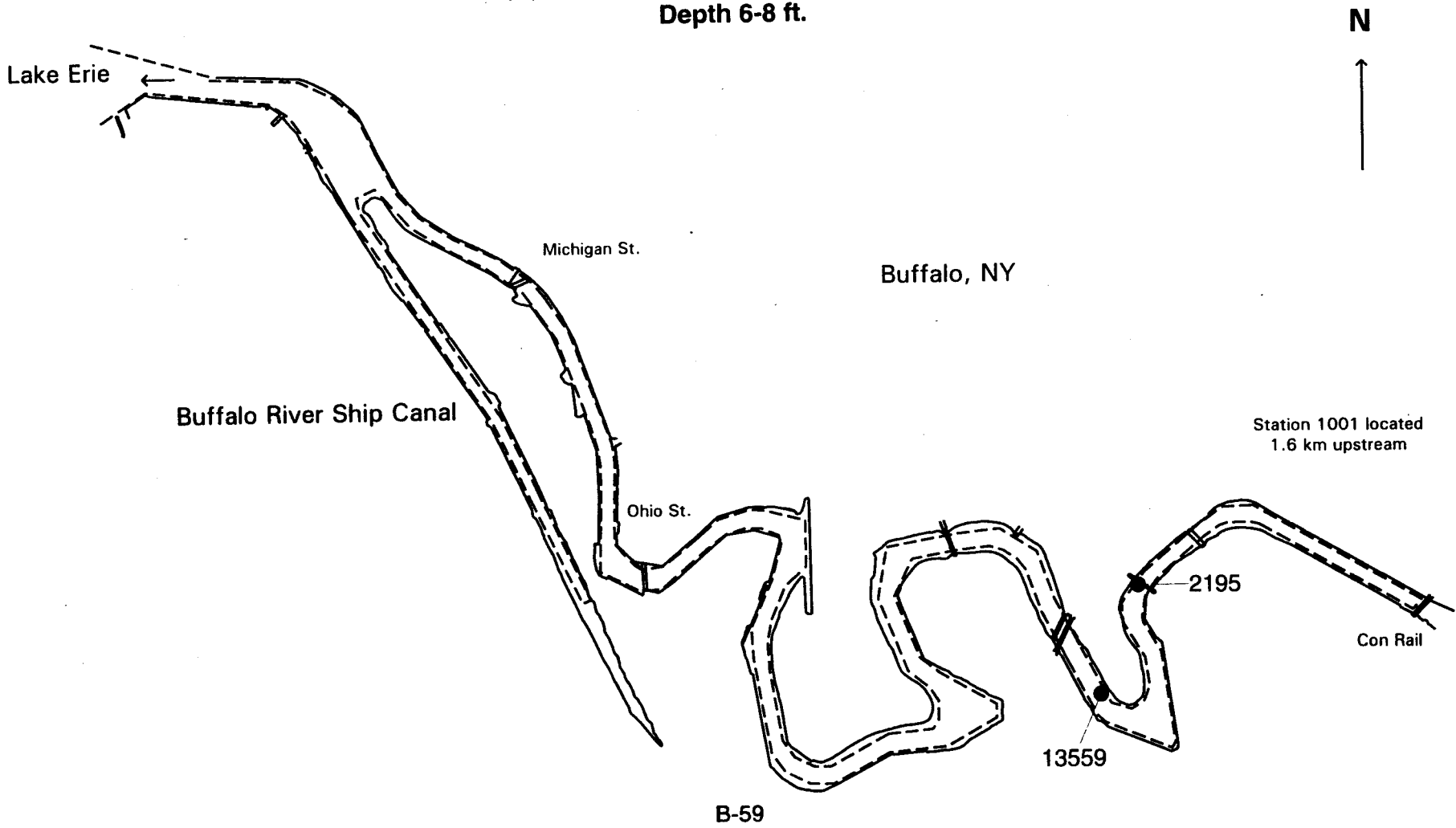
BUFFALO RIVER SURVEY 3
BENZO(A)PYRENE CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



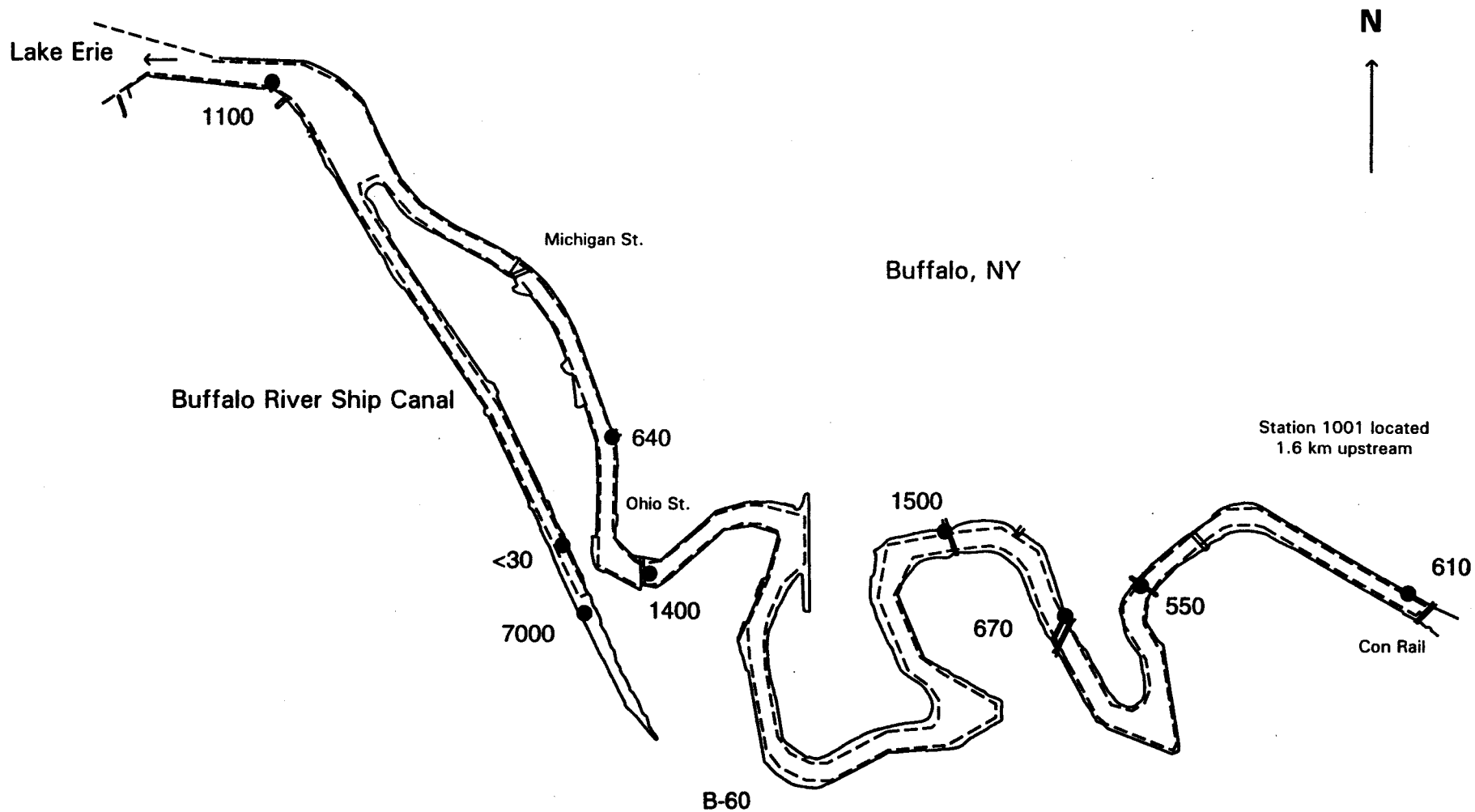
BUFFALO RIVER SURVEY 3
BENZO(A)PYRENE CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



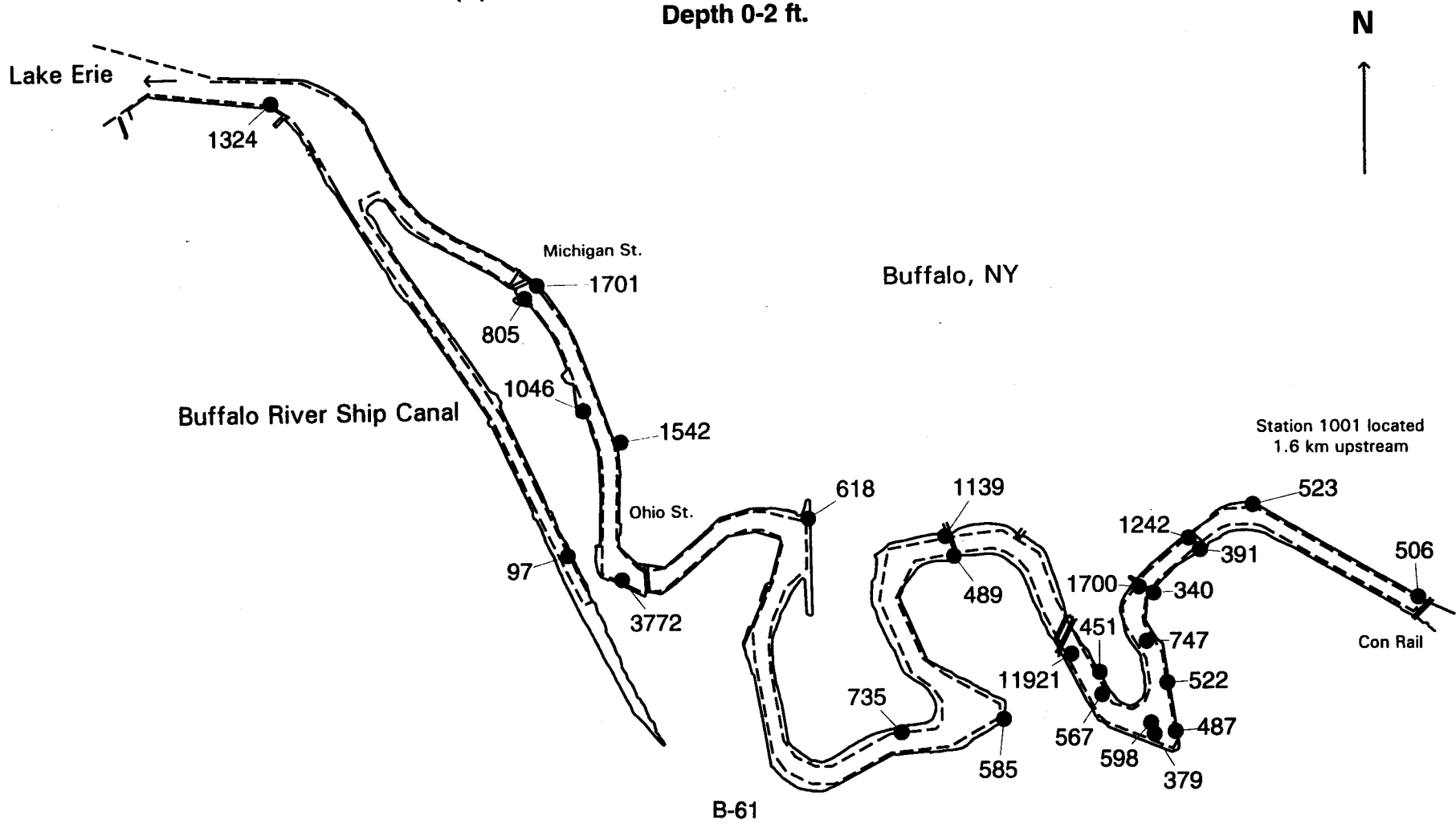
BUFFALO RIVER SURVEY 3
BENZO(A)PYRENE CONCENTRATIONS (ng/g dry wt)
Depth 6-8 ft.



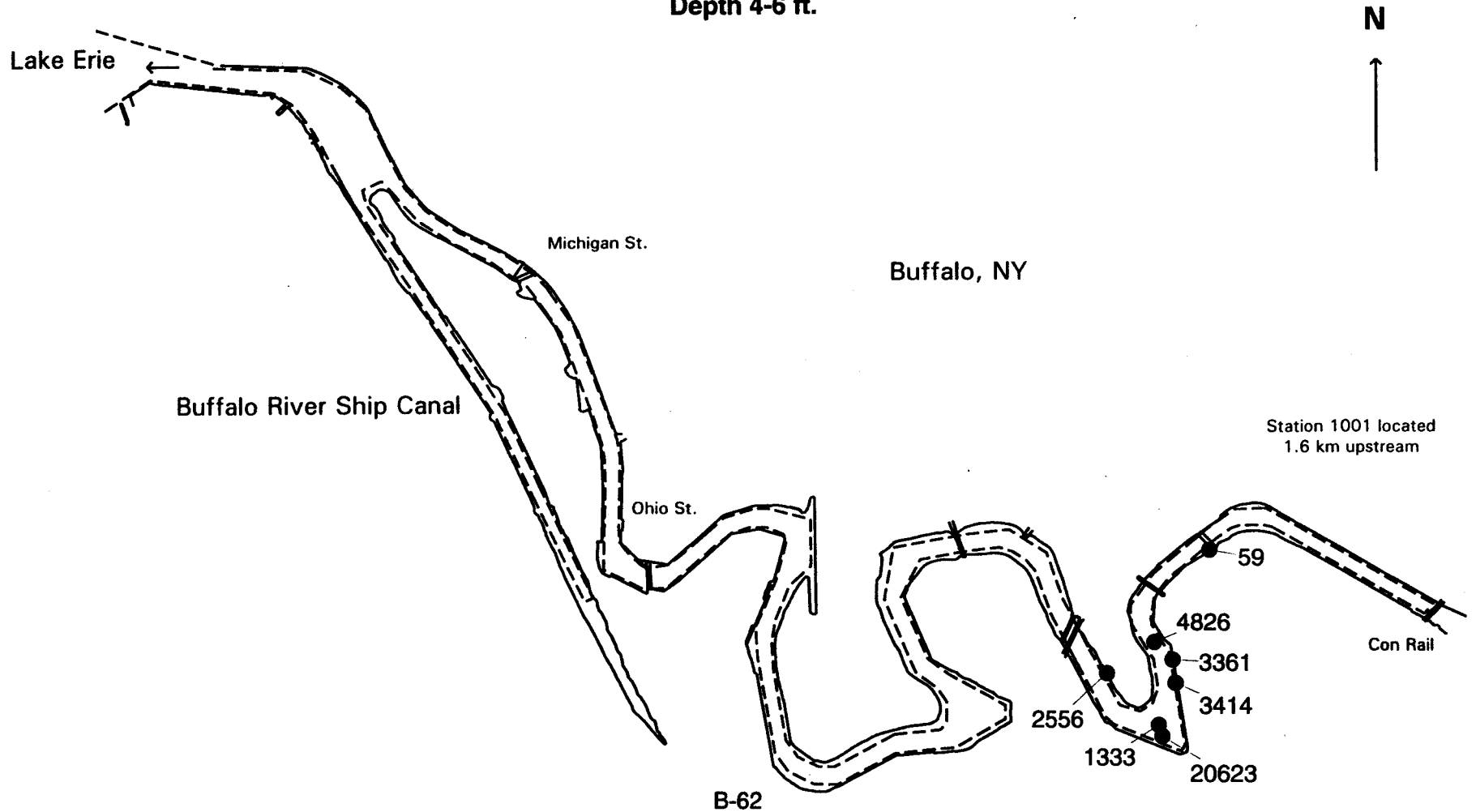
BUFFALO RIVER SURVEY 1
BENZO(B)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)



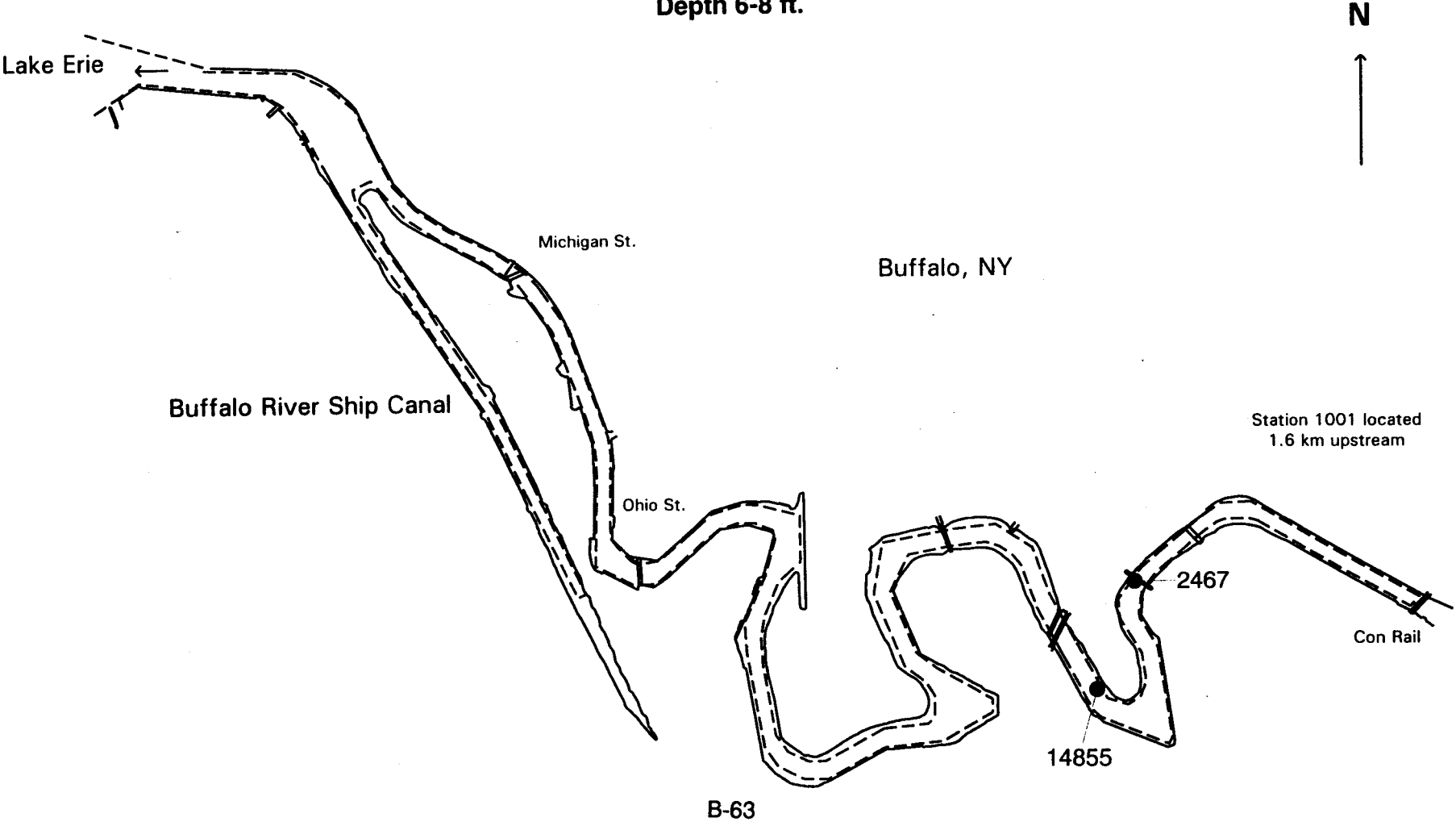
BUFFALO RIVER SURVEY 3
BENZO(B)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



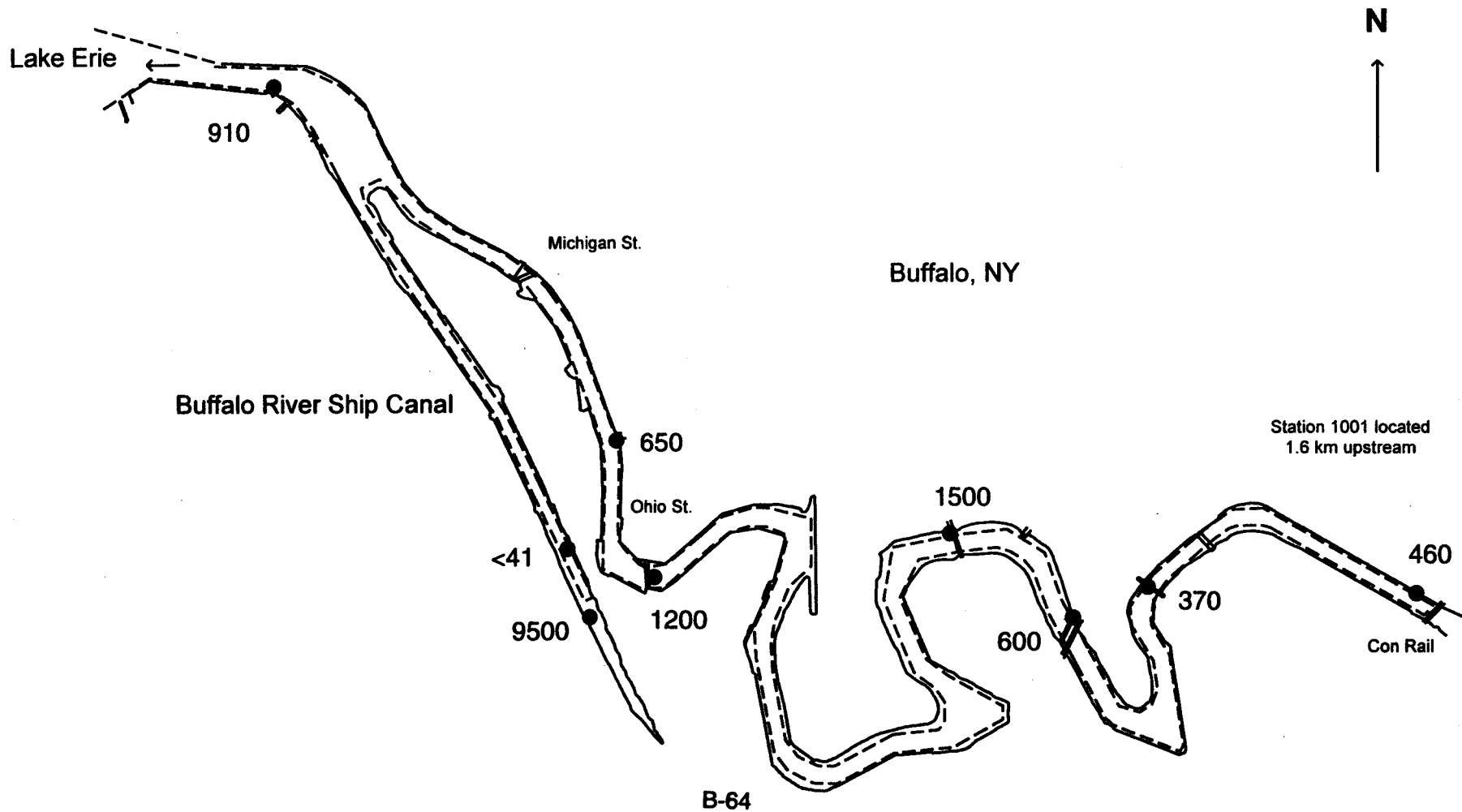
BUFFALO RIVER SURVEY 3
BENZO(B)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



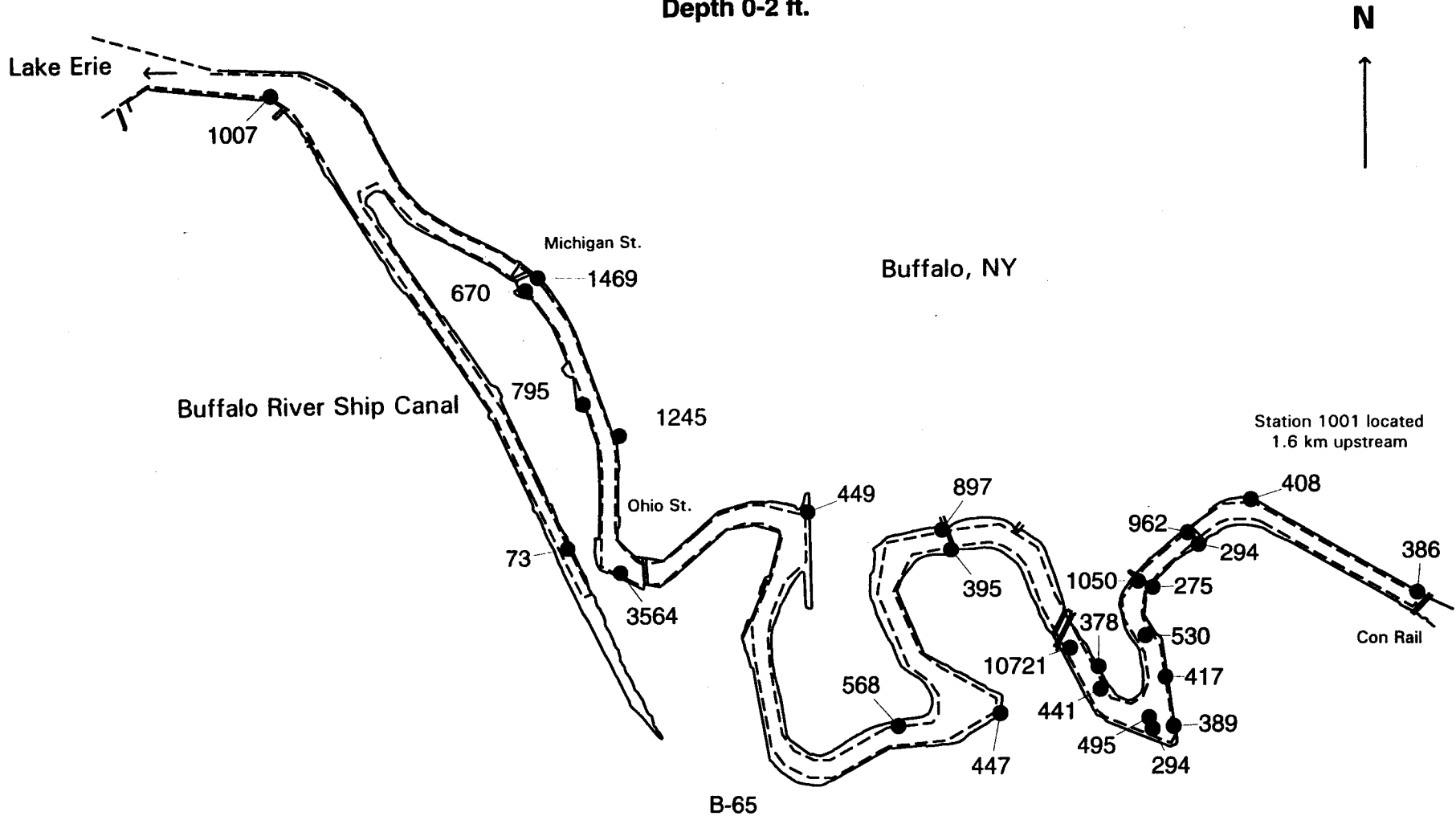
BUFFALO RIVER SURVEY 3
BENZO(B)FLUORANTHENE CONCENTRATIONS (ug/g dry wt)
Depth 6-8 ft.



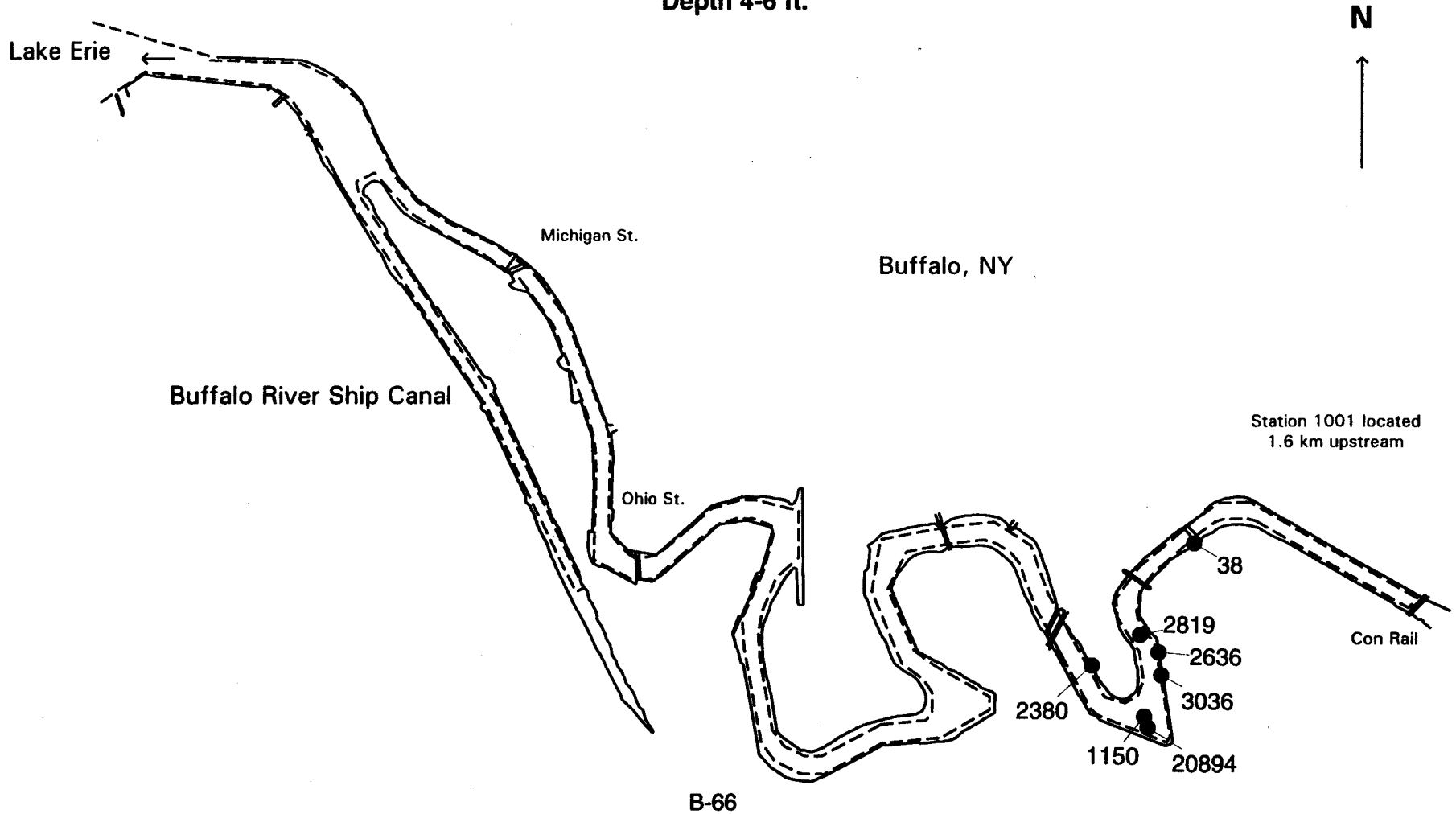
BUFFALO RIVER SURVEY 1
BENZO(K)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)



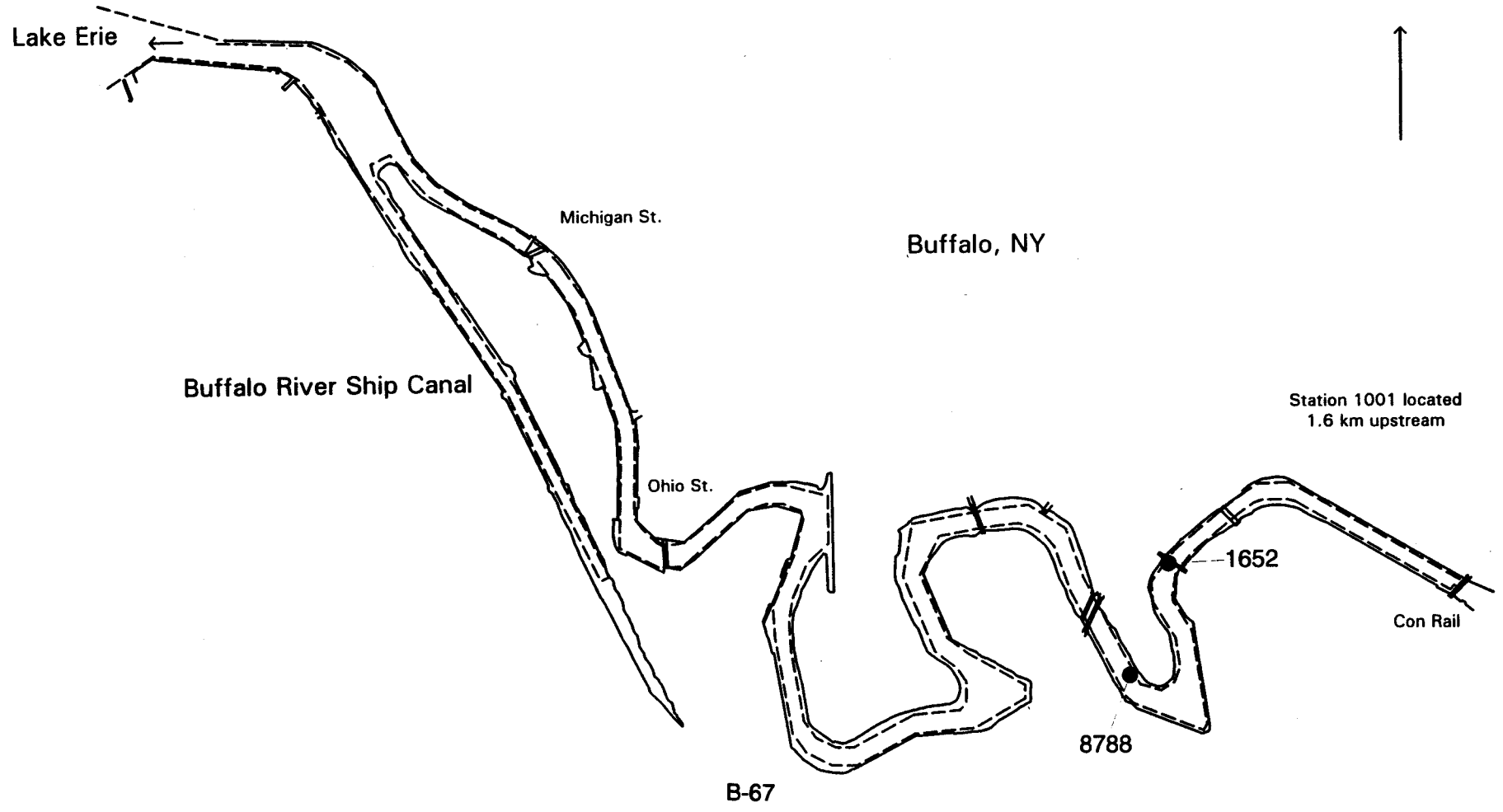
BUFFALO RIVER SURVEY 3
BENZO(K)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



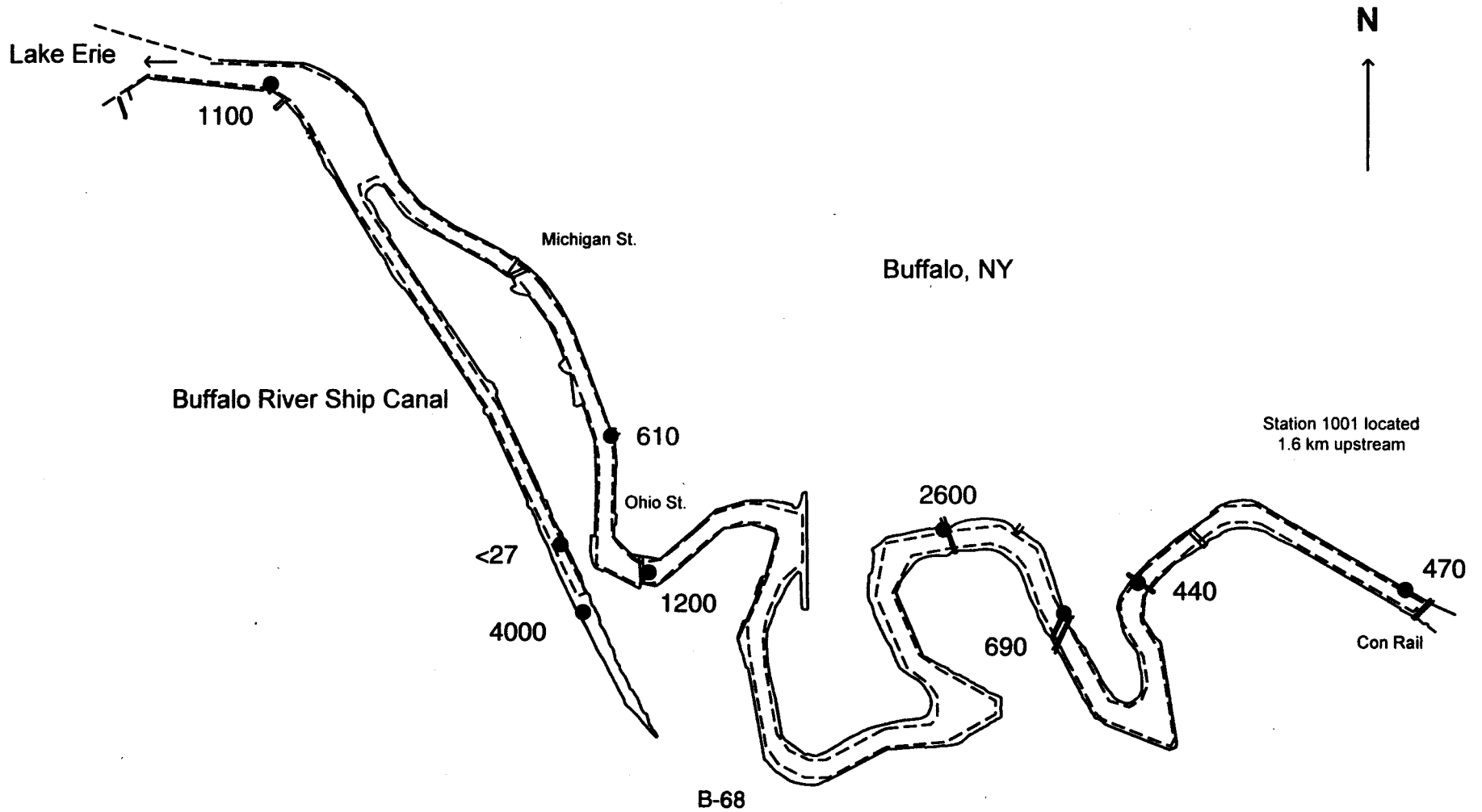
BUFFALO RIVER SURVEY 3
BENZO(K)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



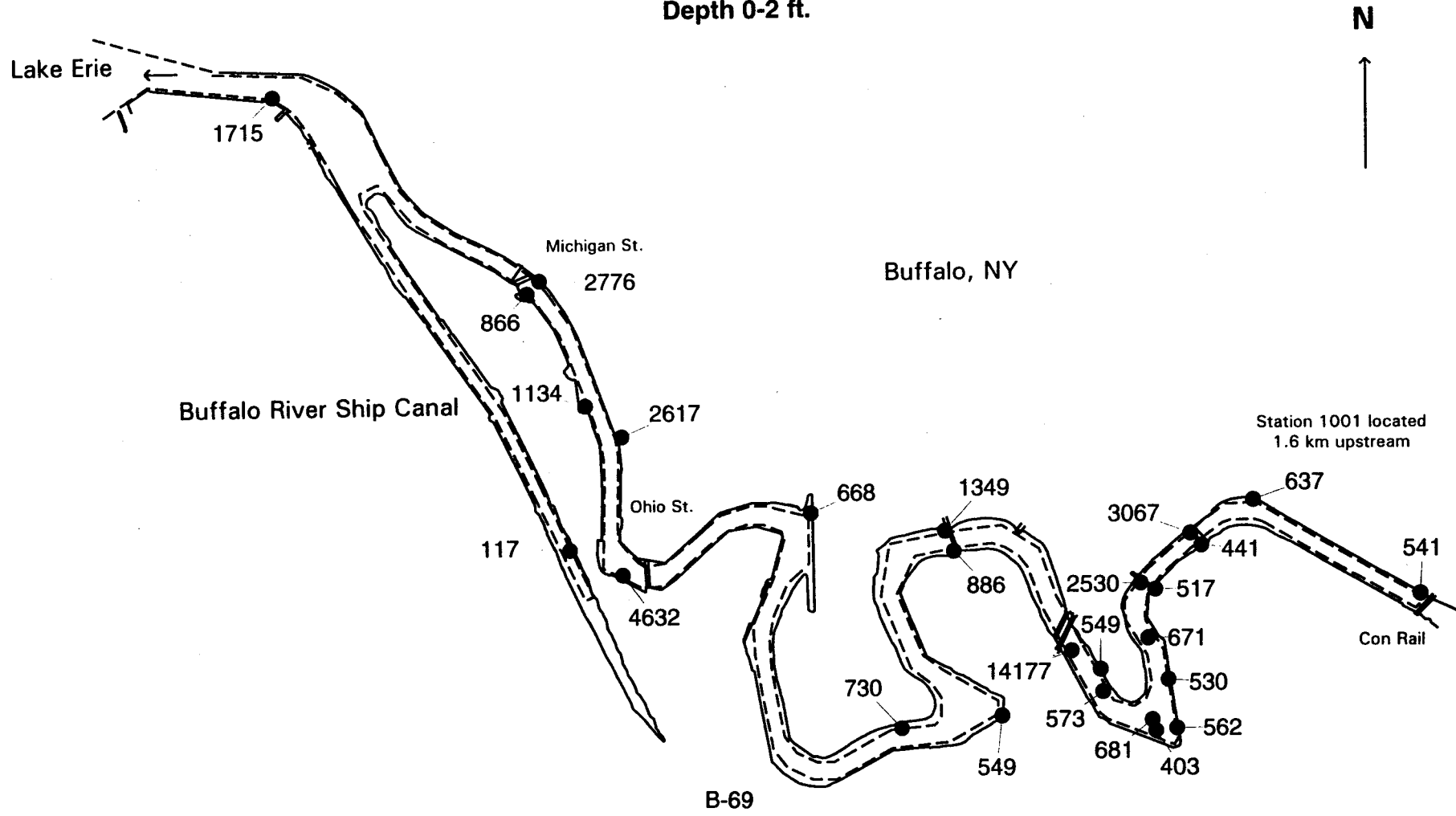
BUFFALO RIVER SURVEY 3
BENZO(K)FLUORANTHENE CONCENTRATIONS (ng/g dry wt)
Depth 6-8 ft.



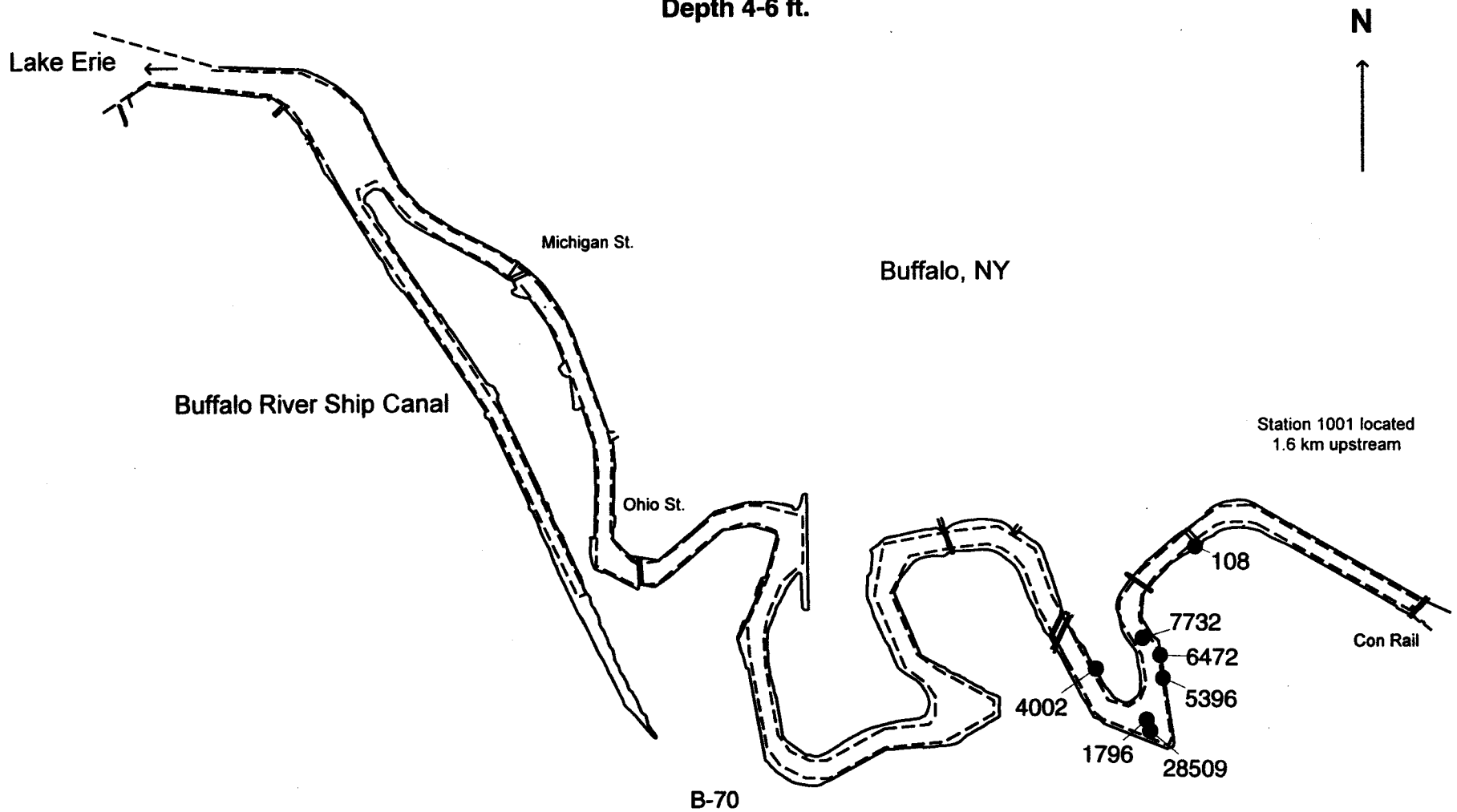
BUFFALO RIVER SURVEY 1 CHRYSENE CONCENTRATIONS (ng/g dry wt)



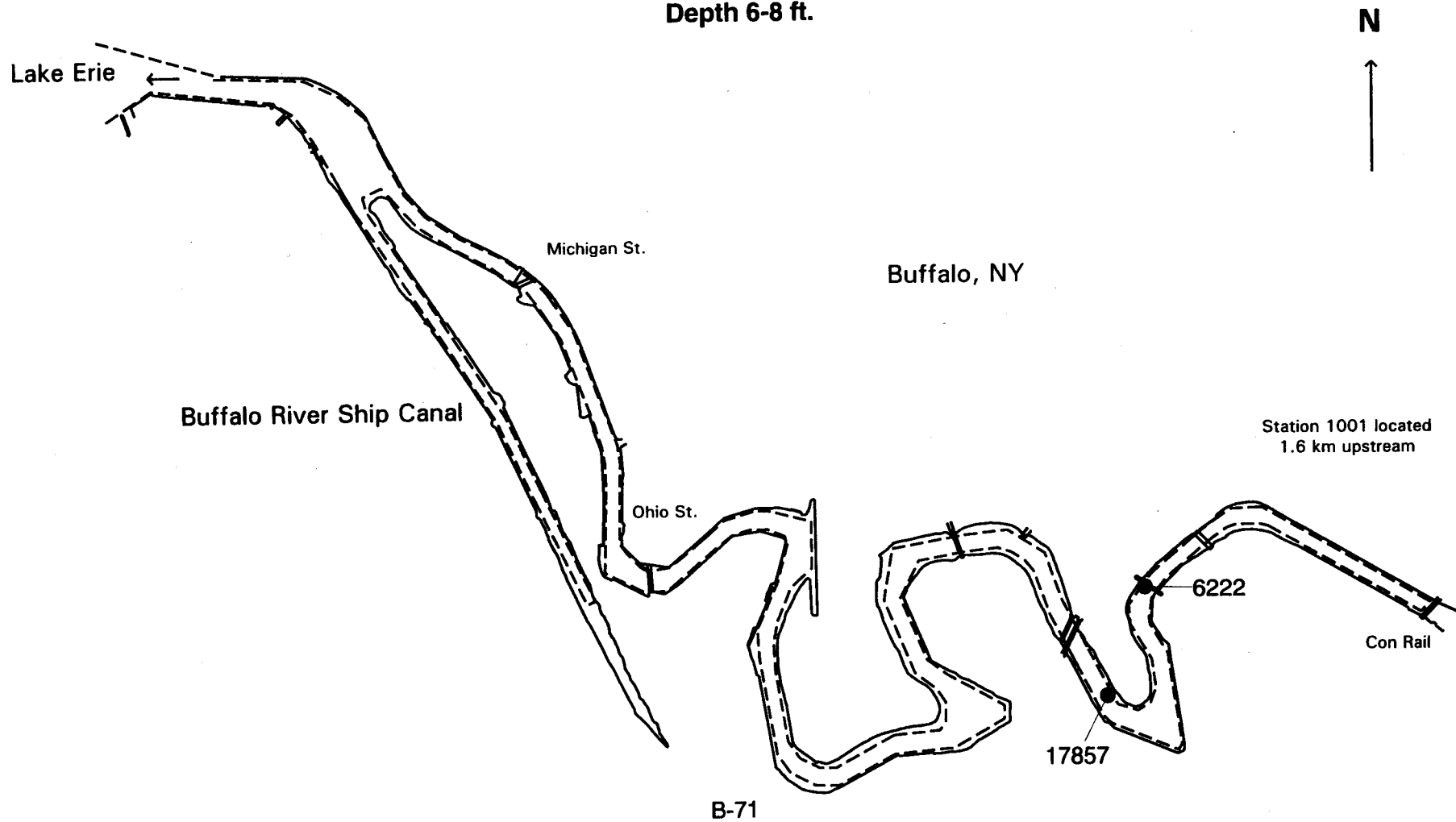
BUFFALO RIVER SURVEY 3
CHRYSENE CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



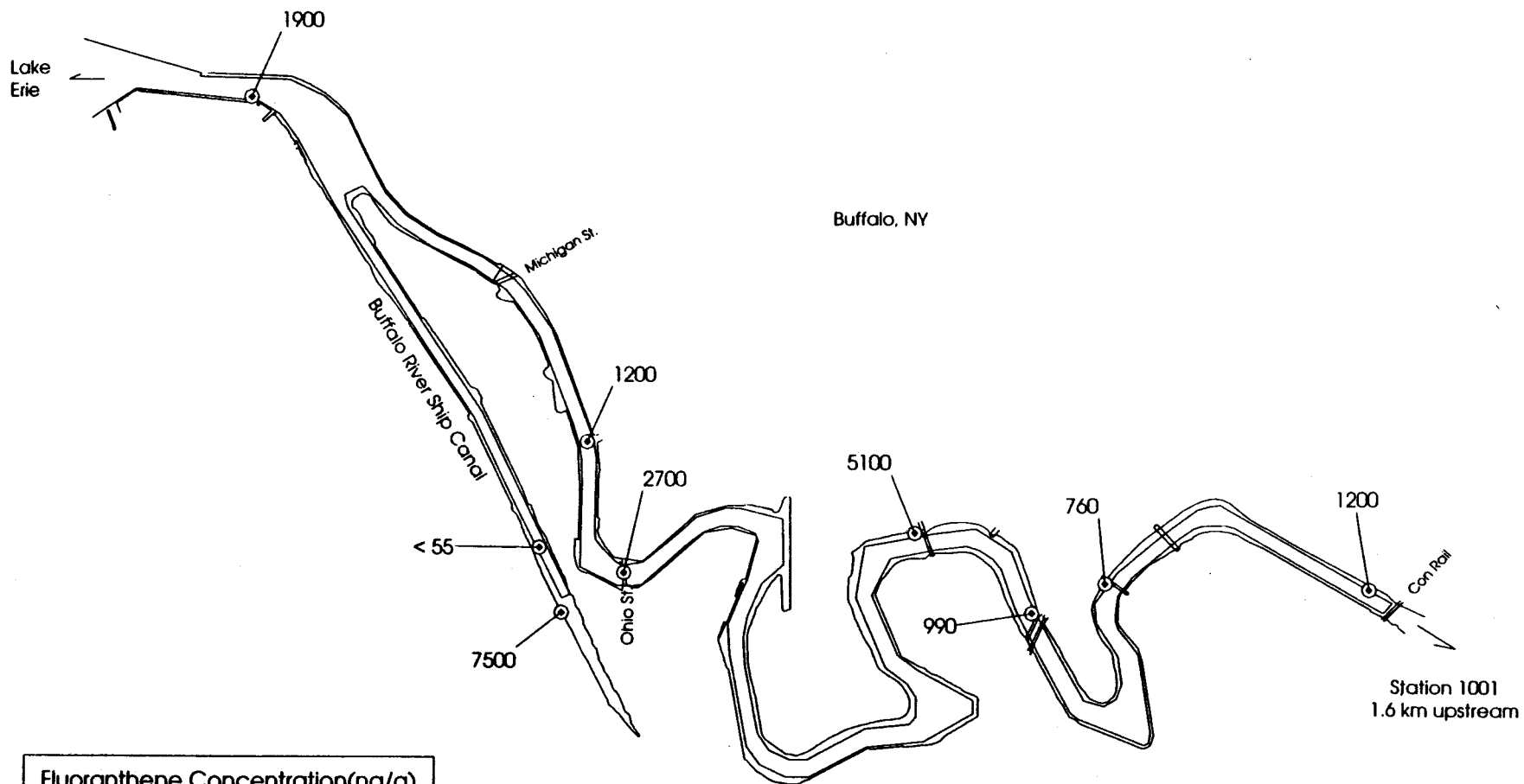
BUFFALO RIVER SURVEY 3
CHRYSENE CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



BUFFALO RIVER SURVEY 3
CHRYSENE CONCENTRATIONS (ng/g dry wt)
Depth 6-8 ft.



Buffalo River

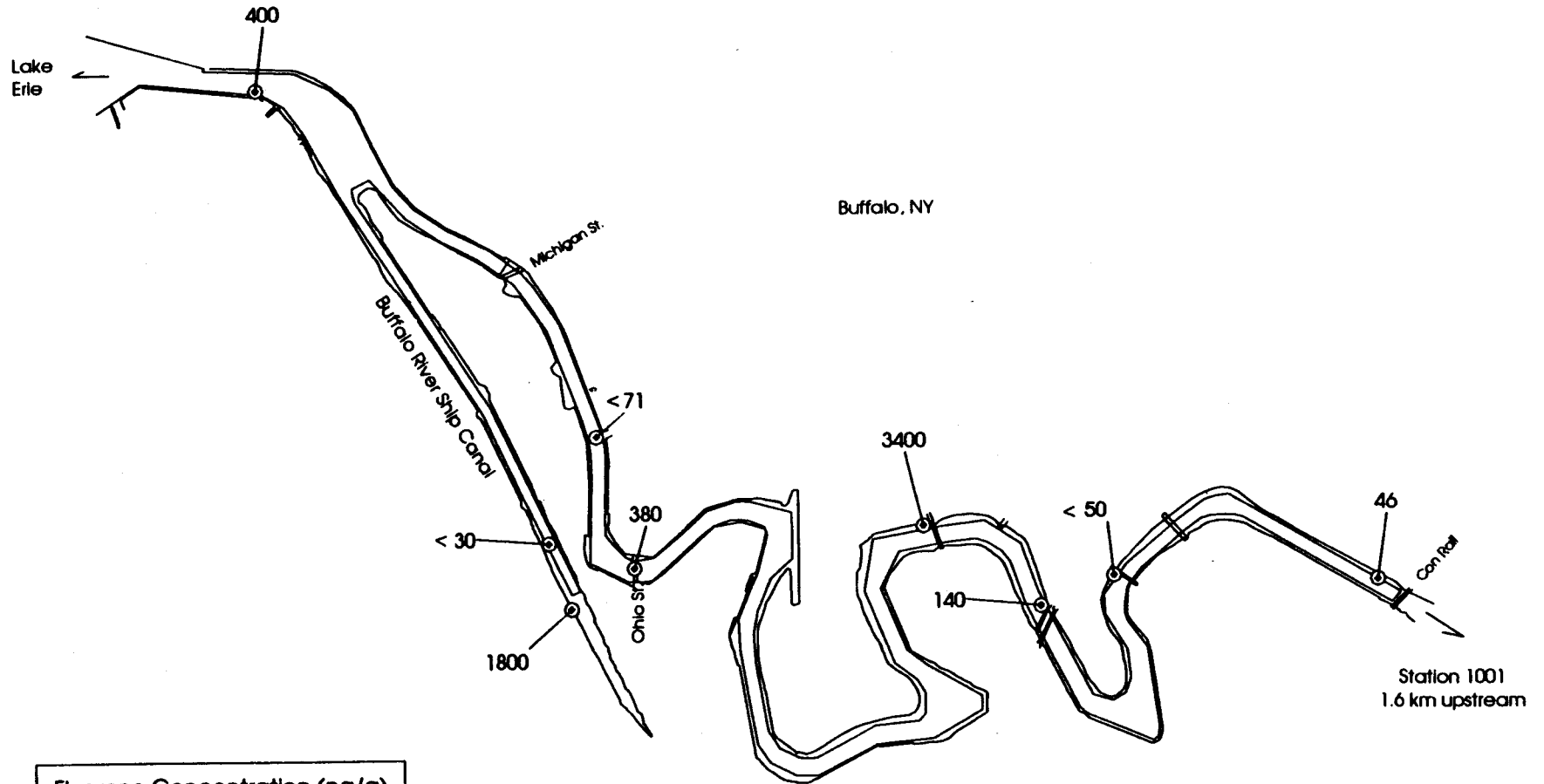


Fluoranthene Concentration(ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-72



Buffalo River



Fluorene Concentration (ng/g)

Surface Samples

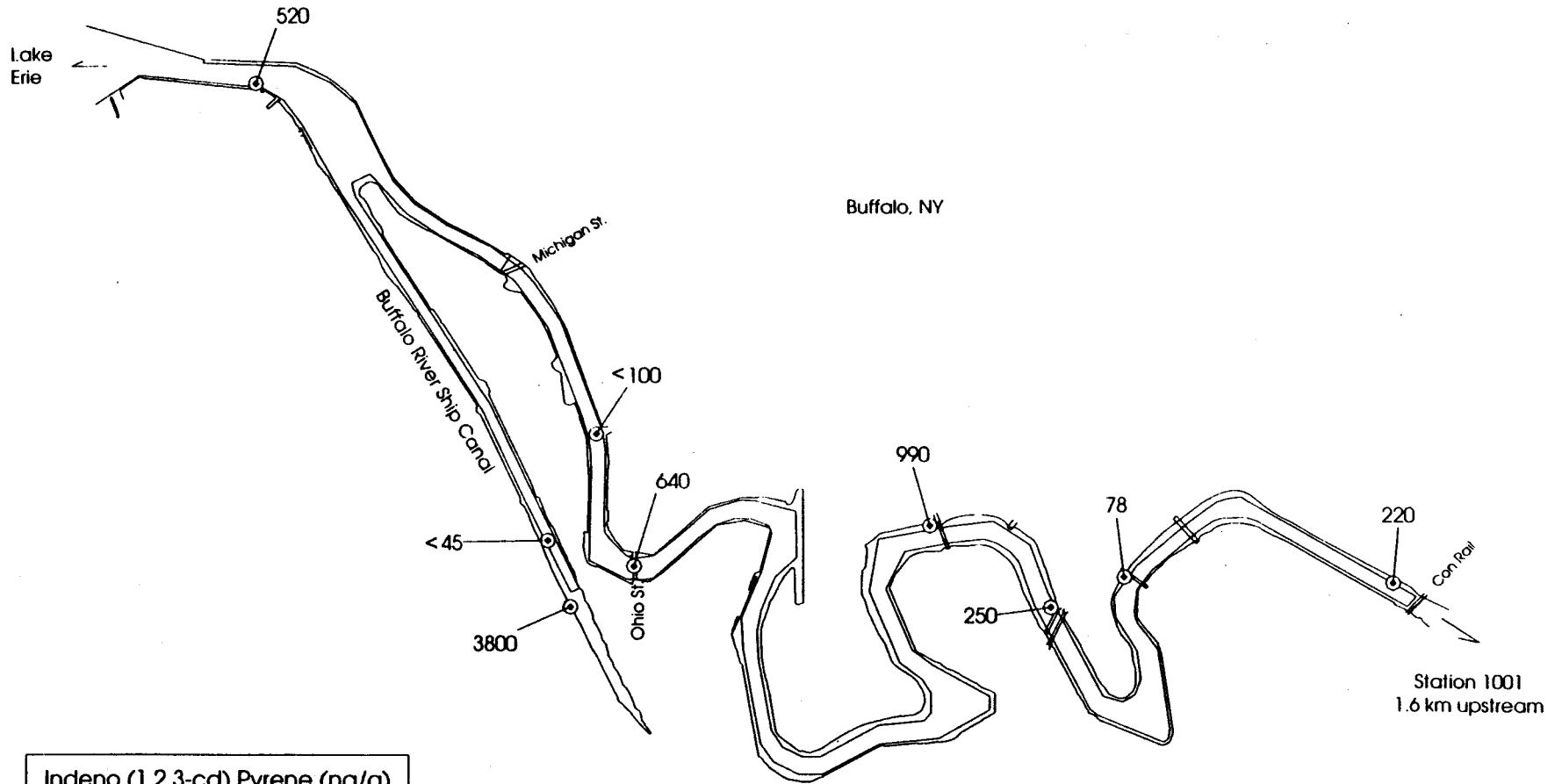
⊙ Sampling Station

Scale: 1 in = 0.450 mi

*Field Duplicate
B-73



Buffalo River

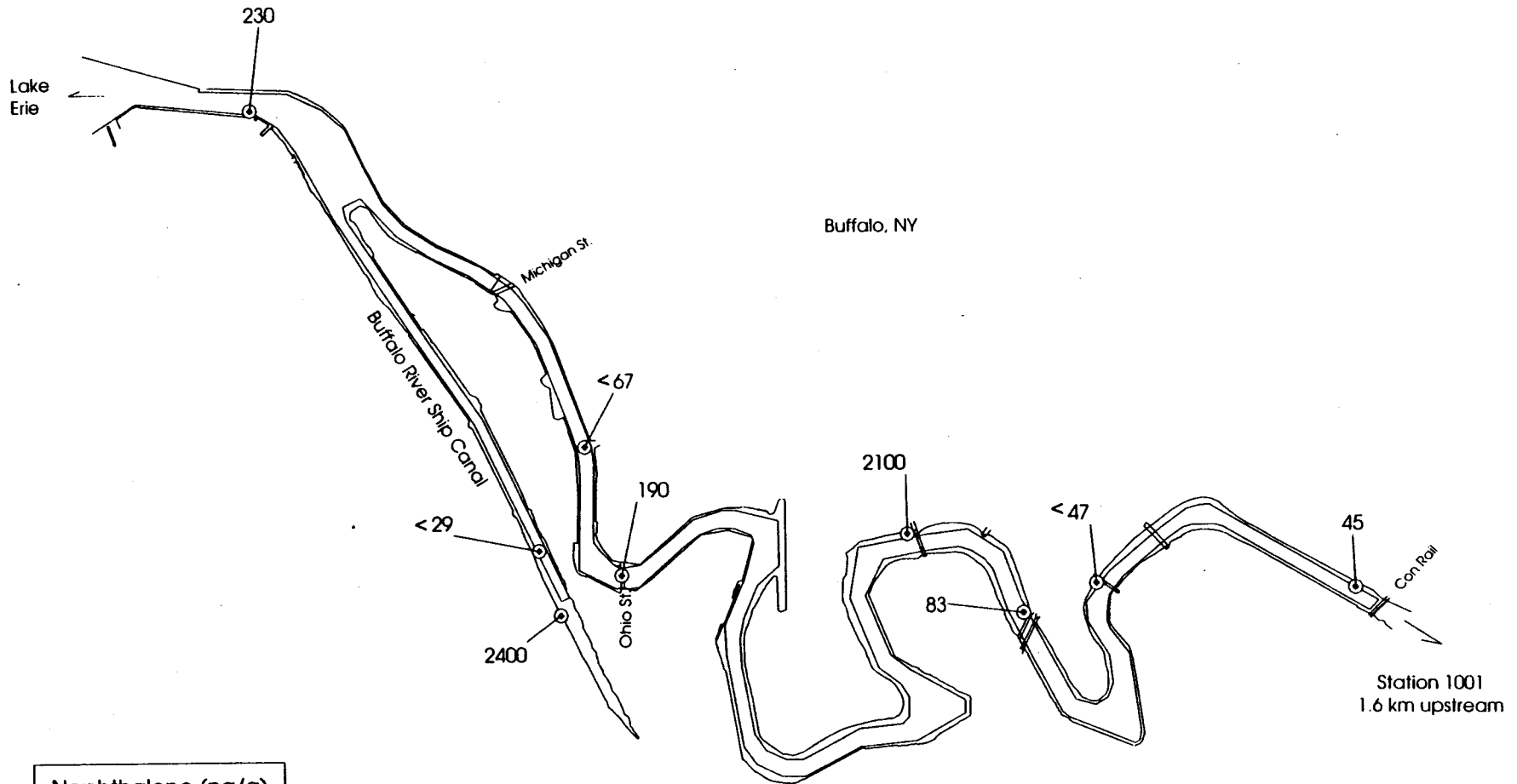


Indeno (1,2,3-cd) Pyrene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-74



Buffalo River

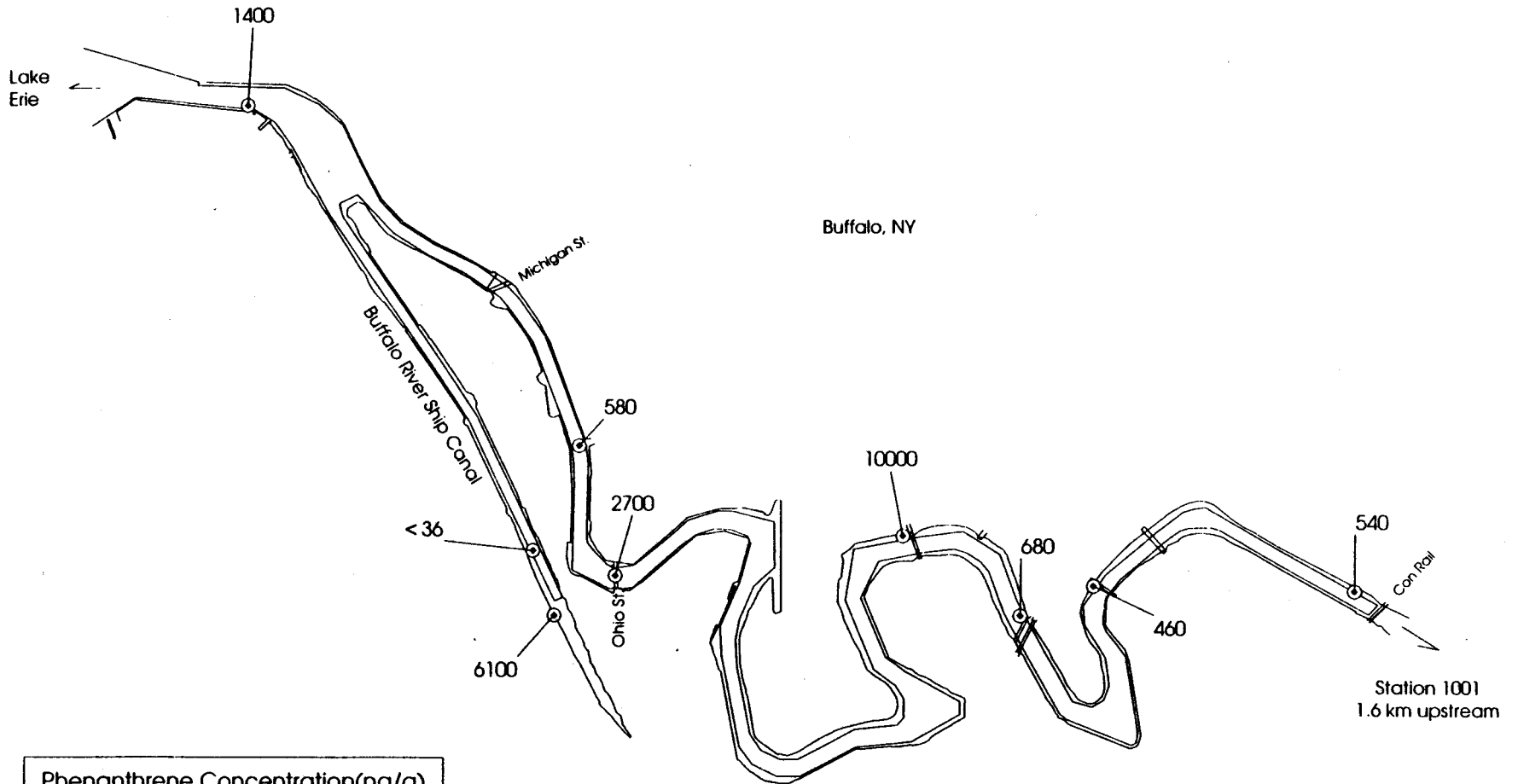


Naphthalene (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-75



Buffalo River

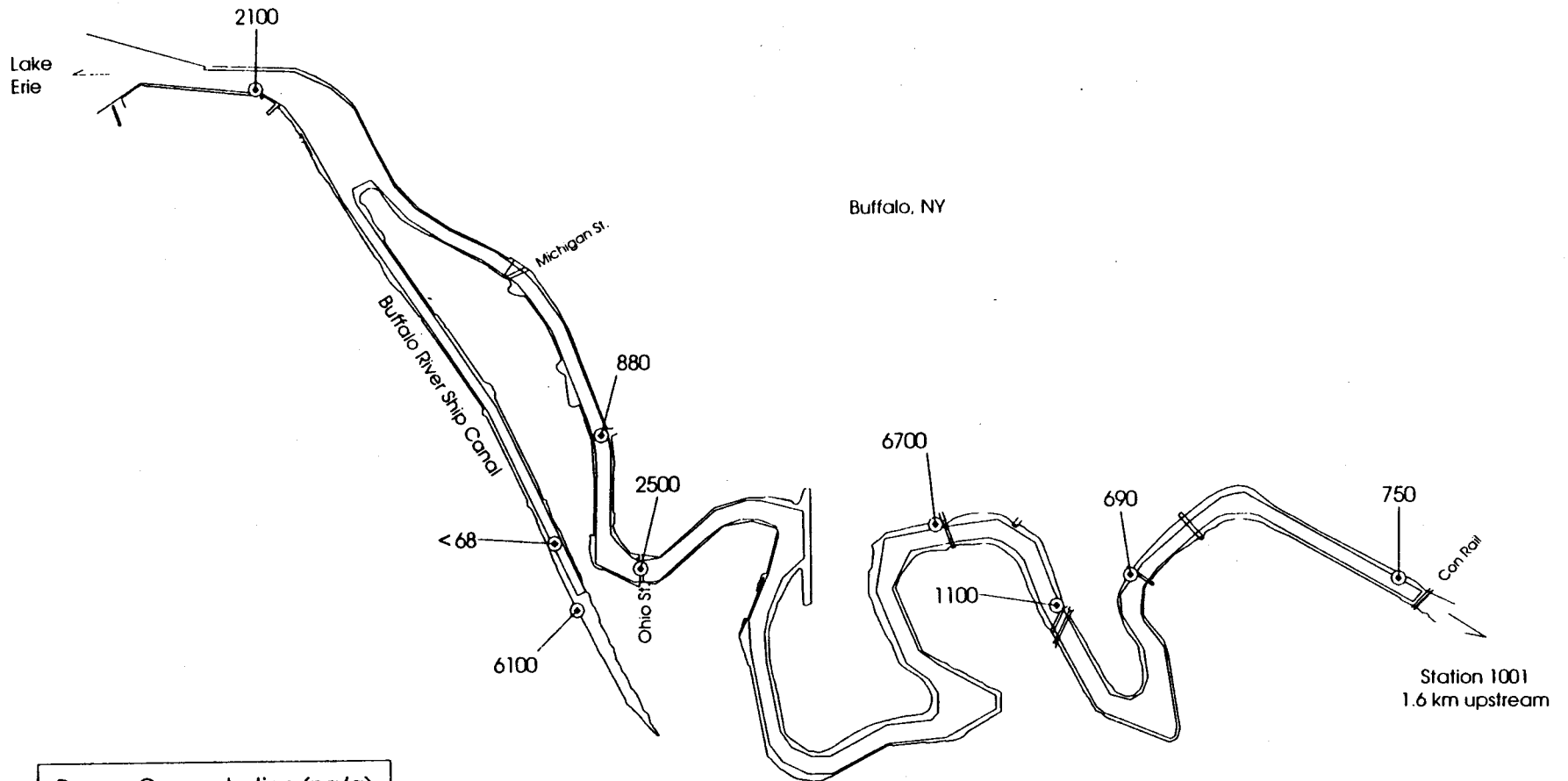


Phenanthrene Concentration(ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-76



Buffalo River



Pyrene Concentration (ng/g)

Surface Samples

⊙ Sampling Station

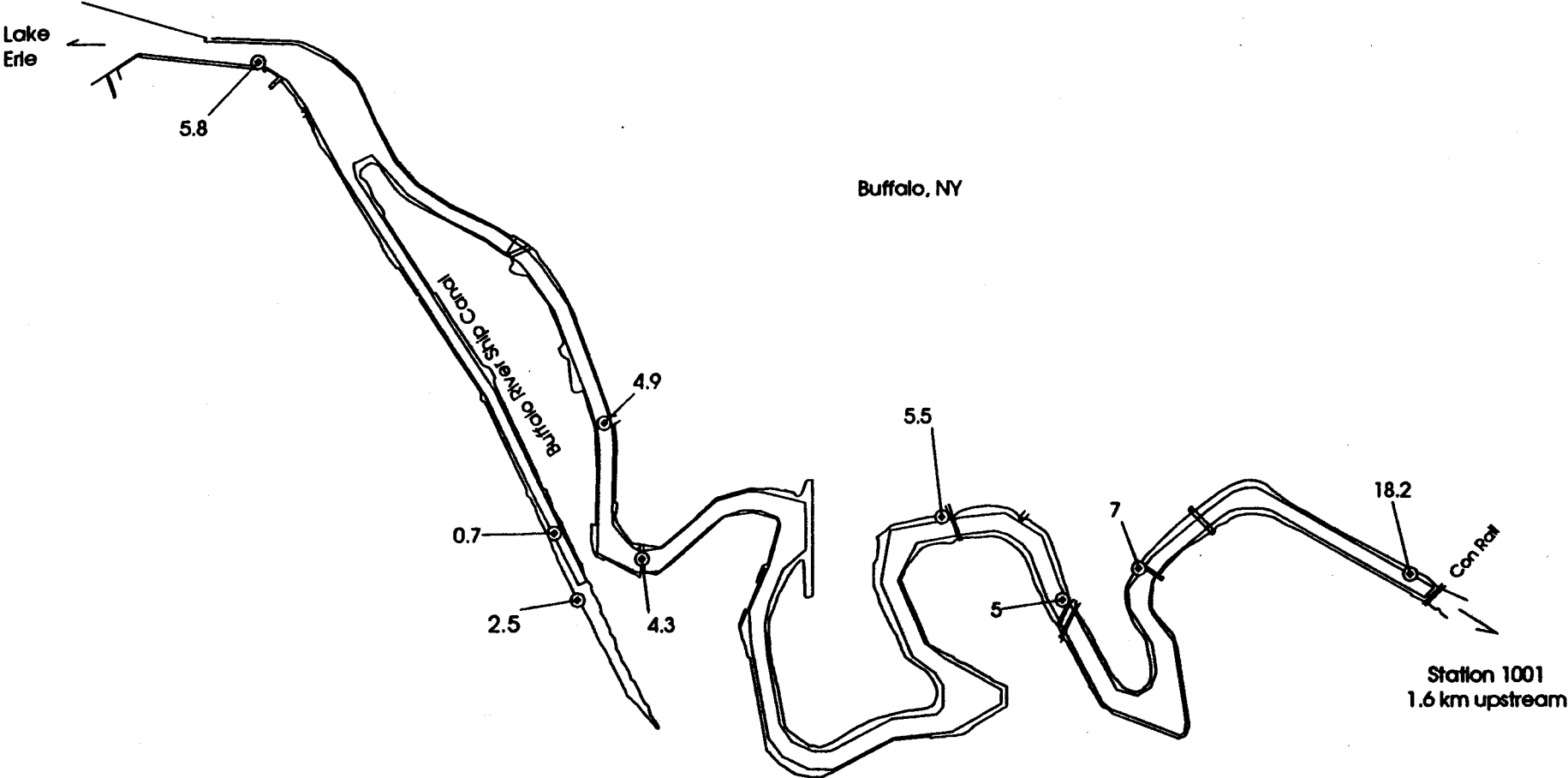
Scale: 1 in = 0.450 mi

*Field Duplicate

B-77



Buffalo River

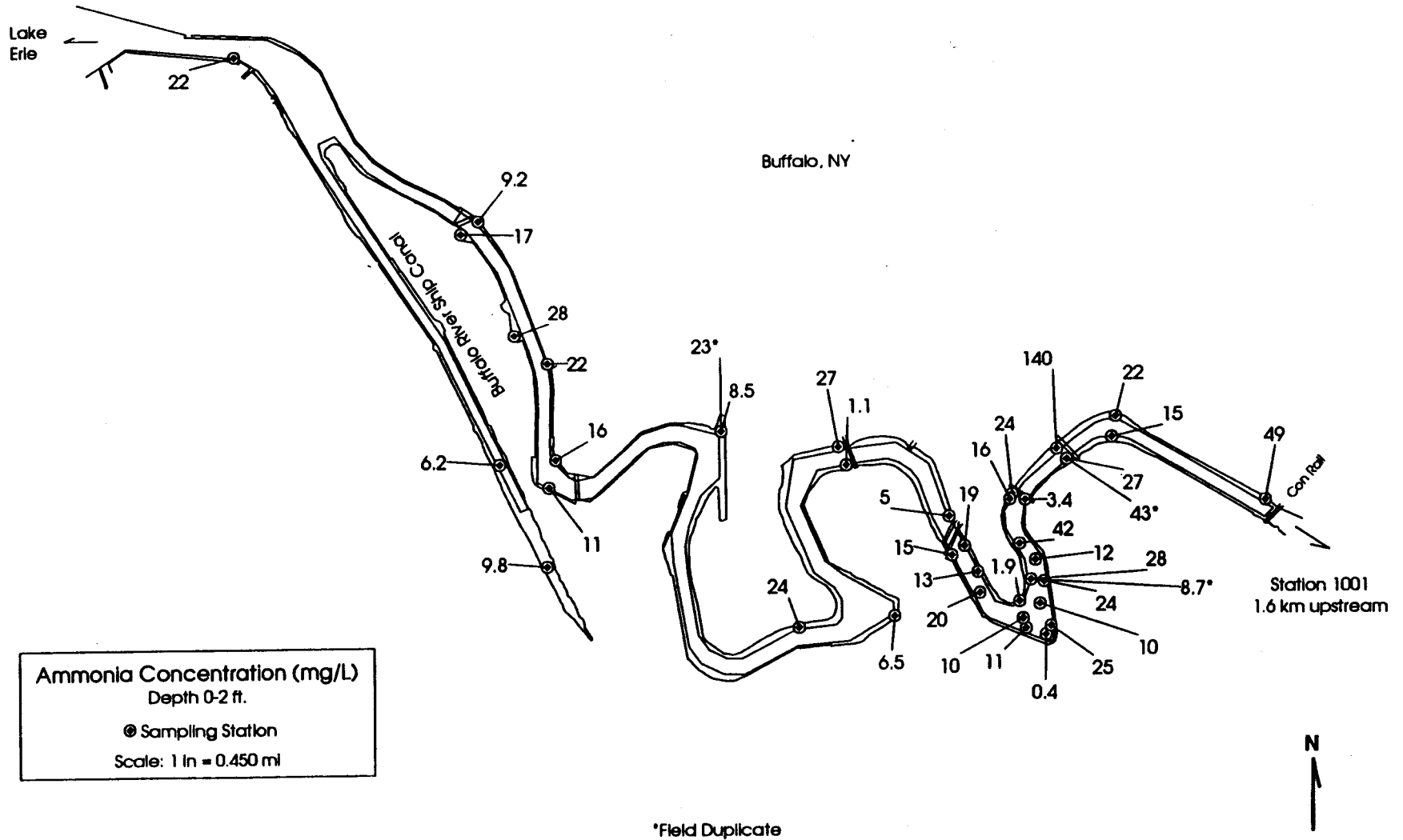


Ammonia Concentration (mg/L)
Surface Samples
● Sampling Station
Scale: 1 in = 0.450 mi

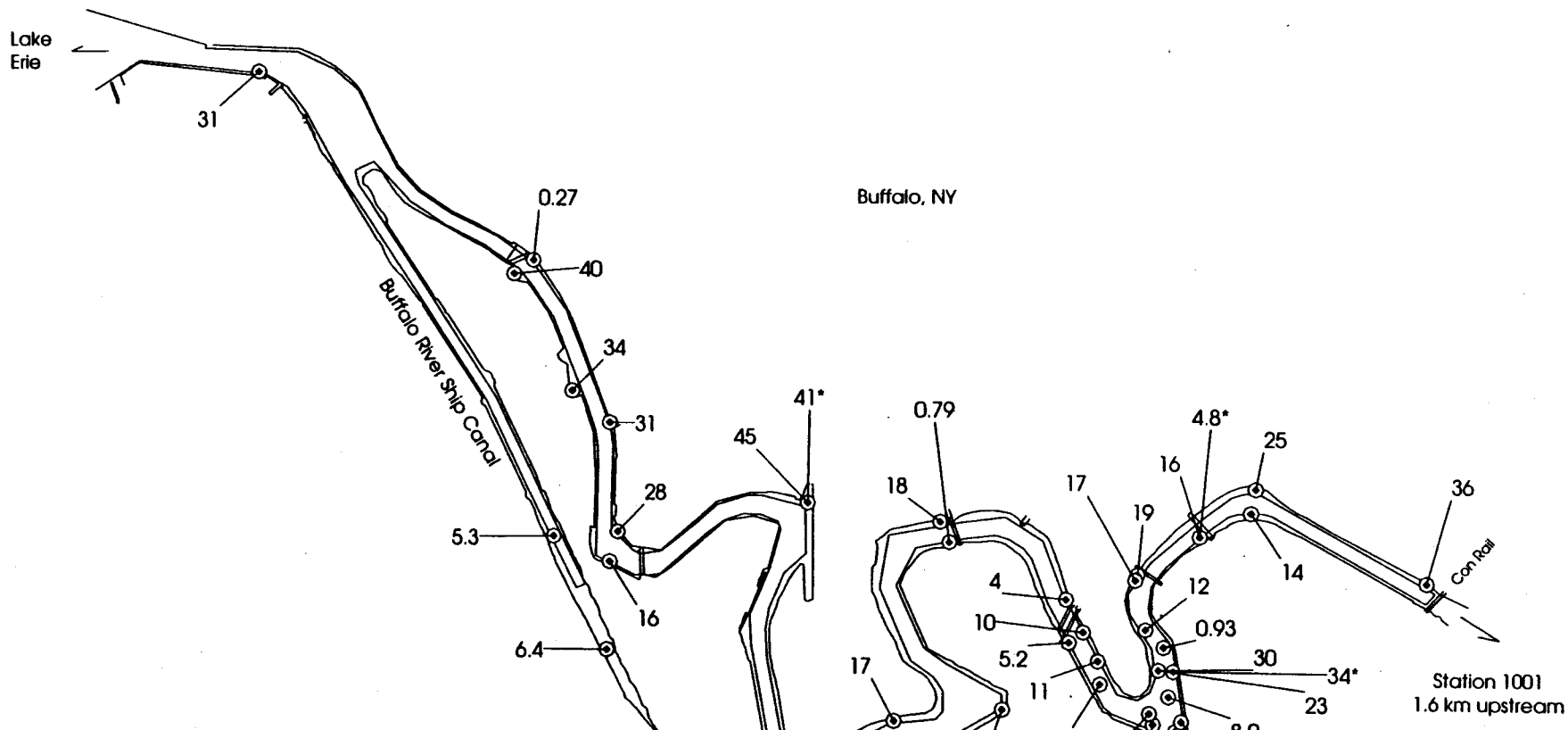
*Field Duplicate
B-78



Buffalo River



Buffalo River

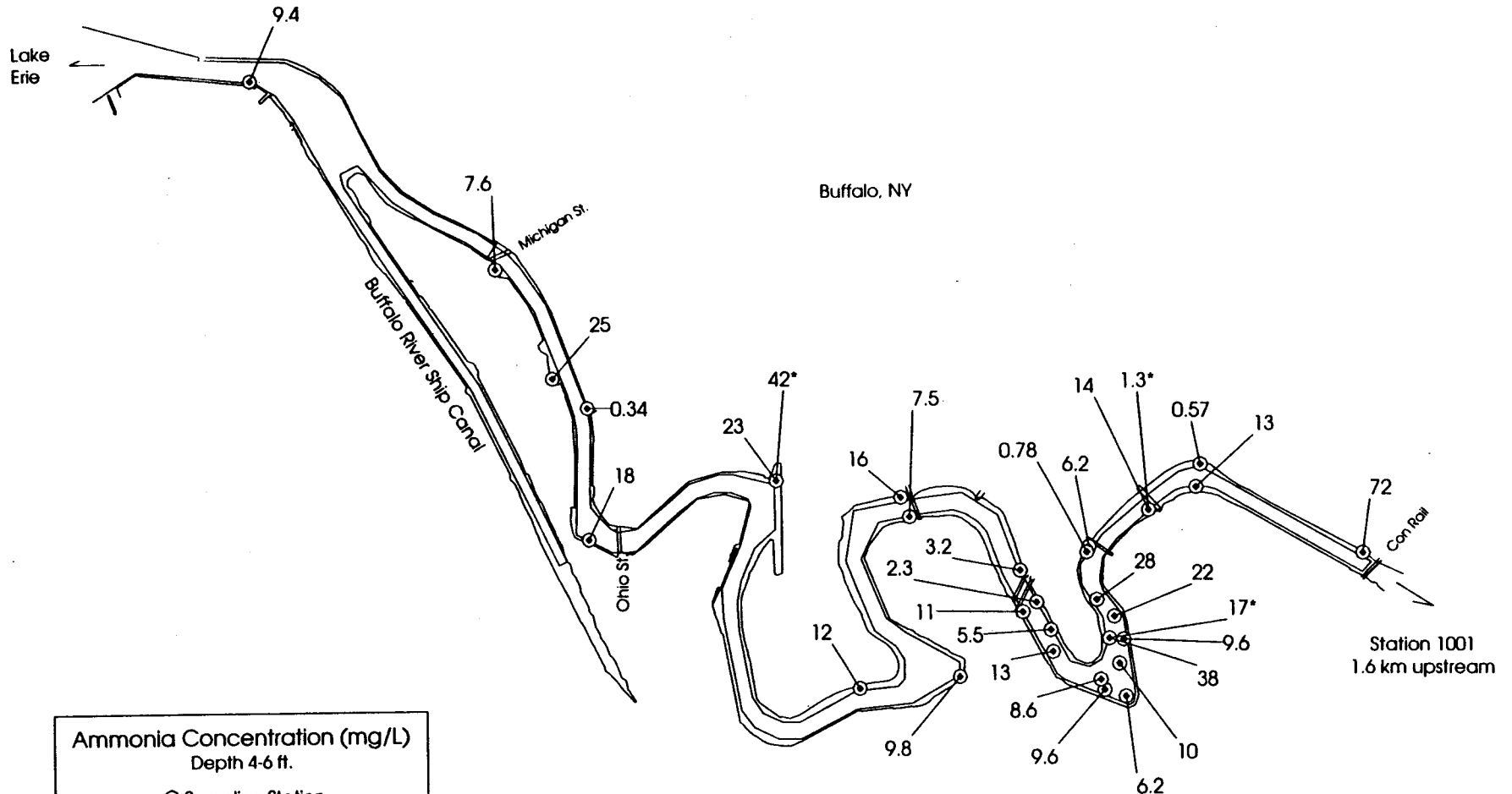


Ammonia Concentration (mg/L)
 Depth 2-4 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-80



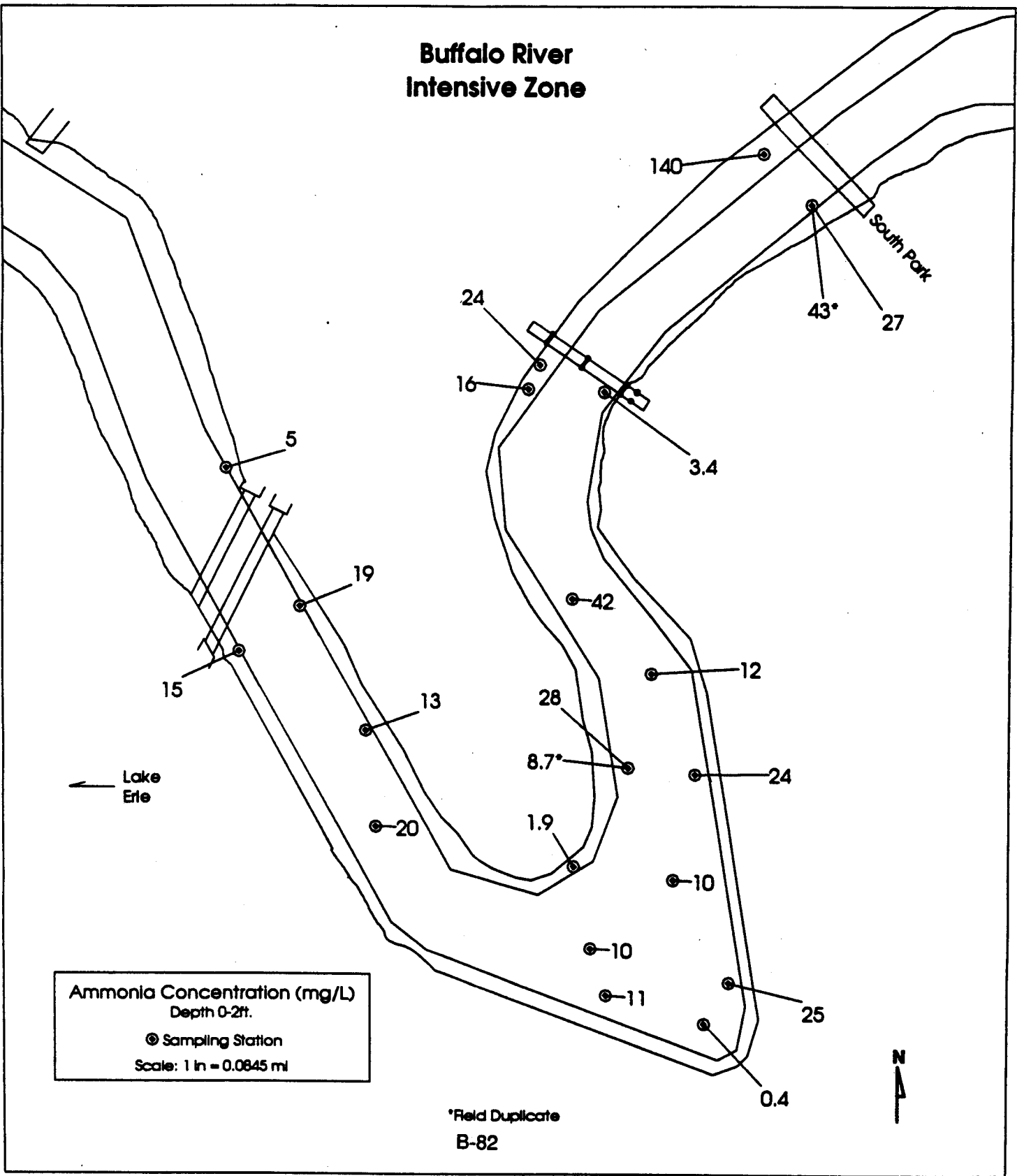
Buffalo River



*Field Duplicate
B-81



Buffalo River Intensive Zone

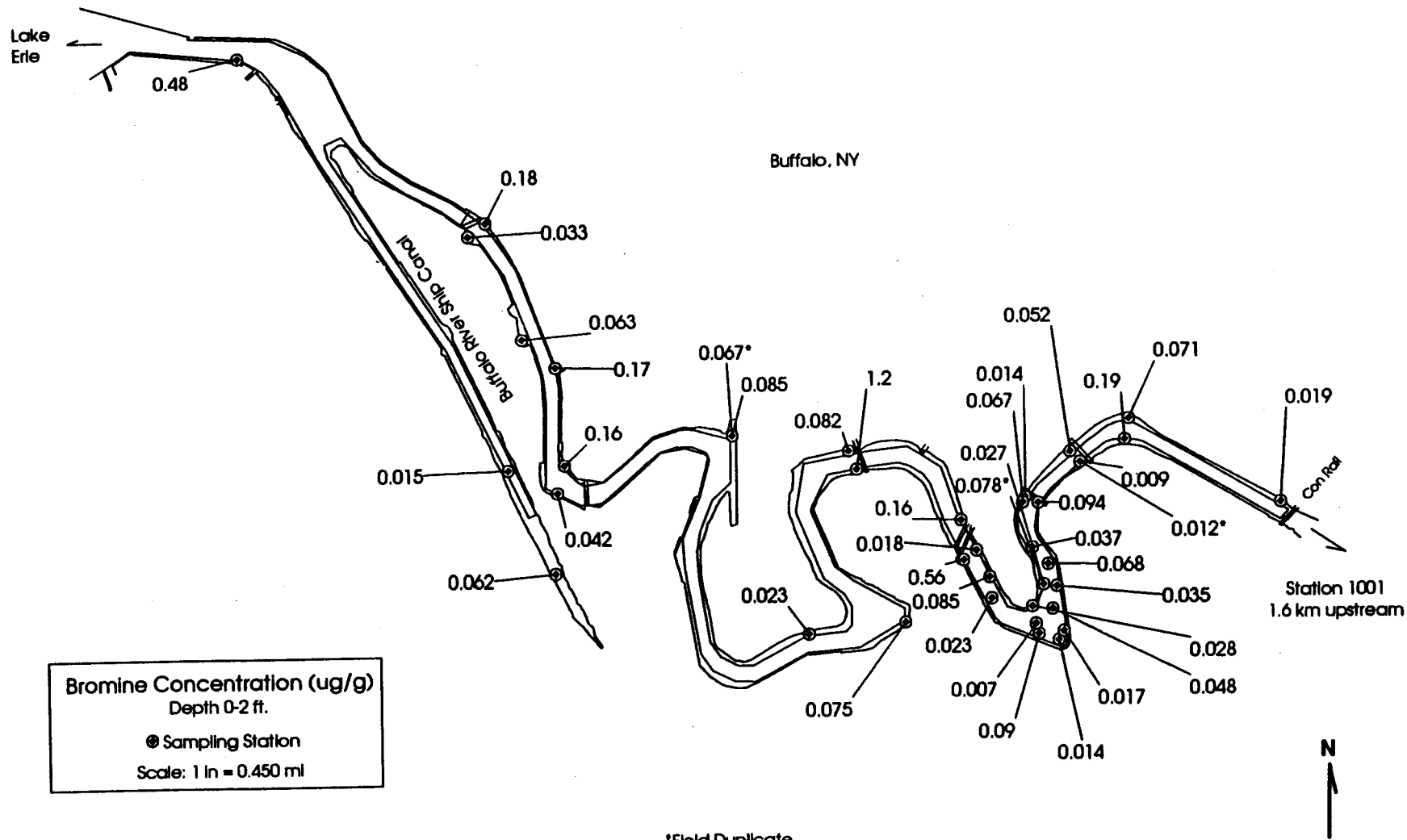


Ammonia Concentration (mg/L)
Depth 0-2ft.
● Sampling Station
Scale: 1 in = 0.0845 mi

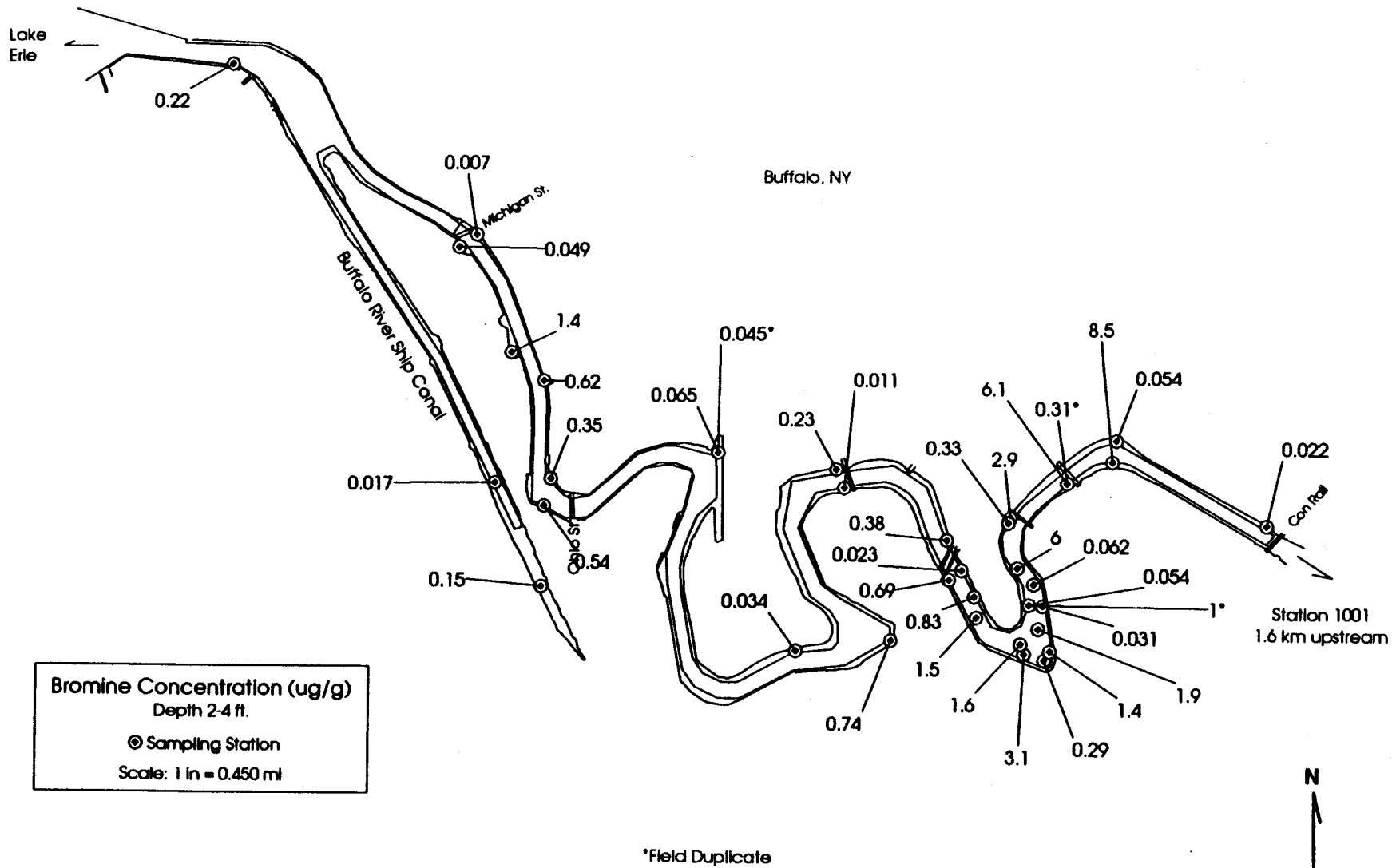
*Field Duplicate
B-82



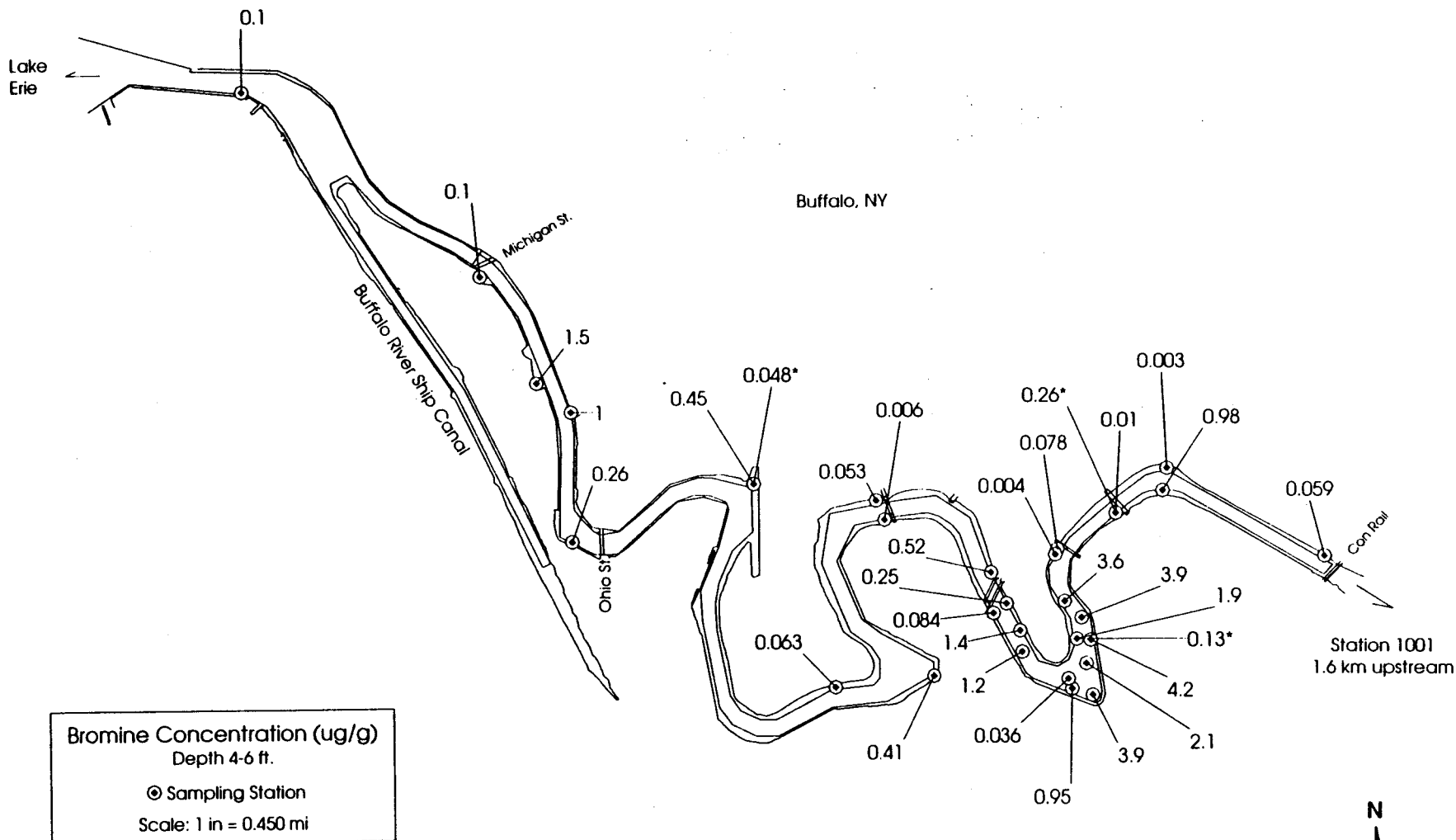
Buffalo River



Buffalo River



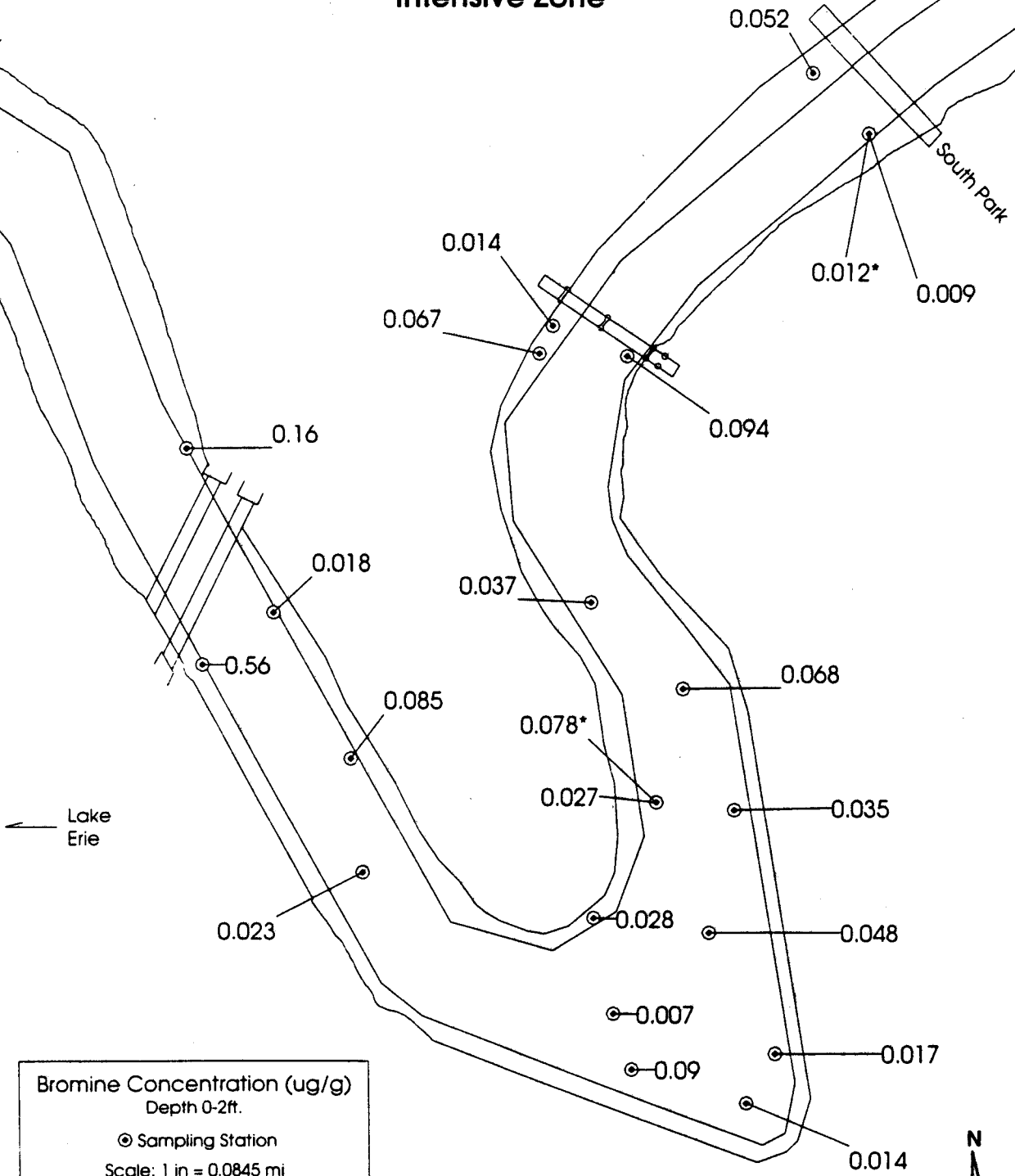
Buffalo River



*Field Duplicate
B-85



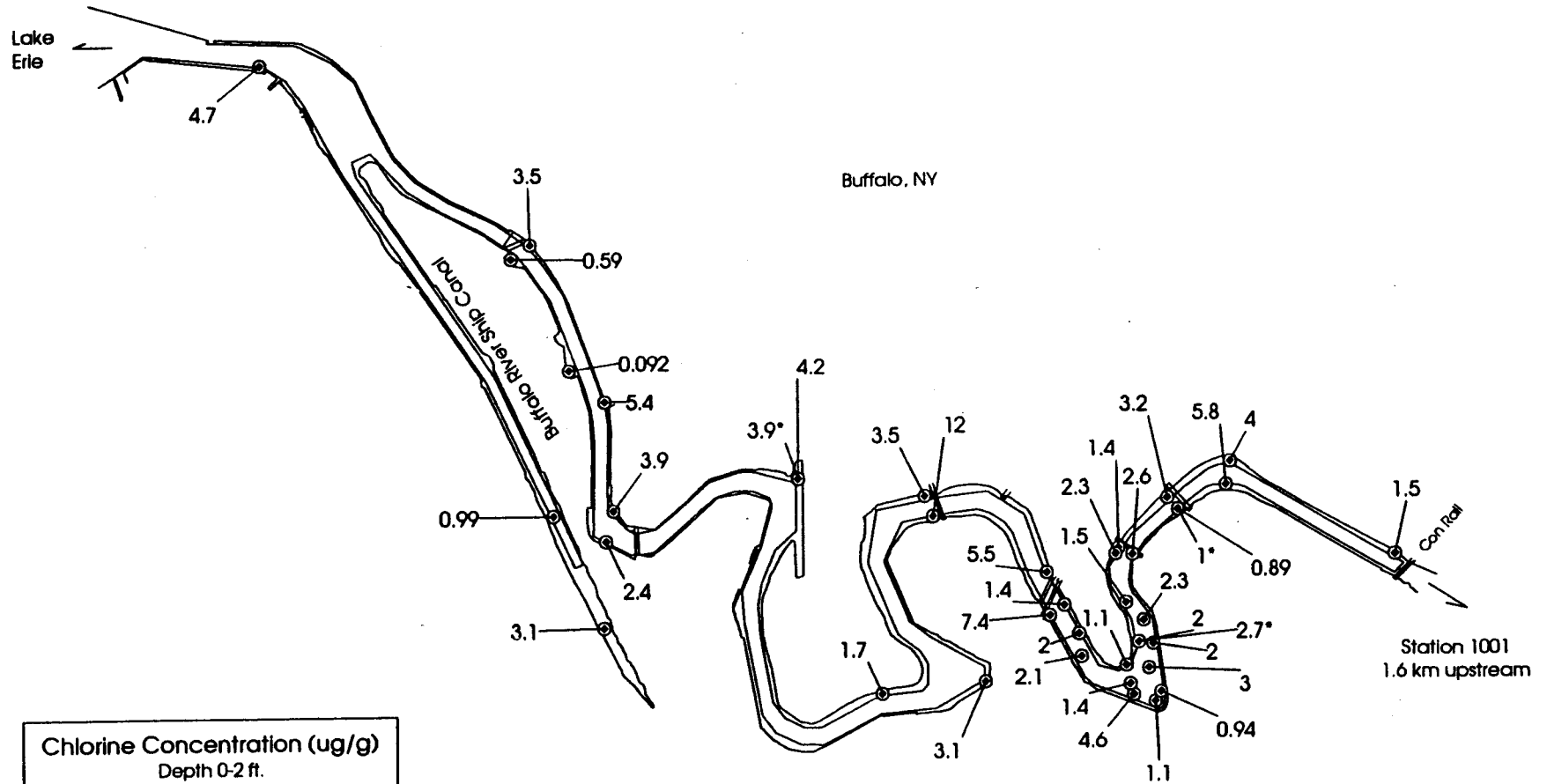
Buffalo River Intensive Zone



*Field Duplicate

B-86

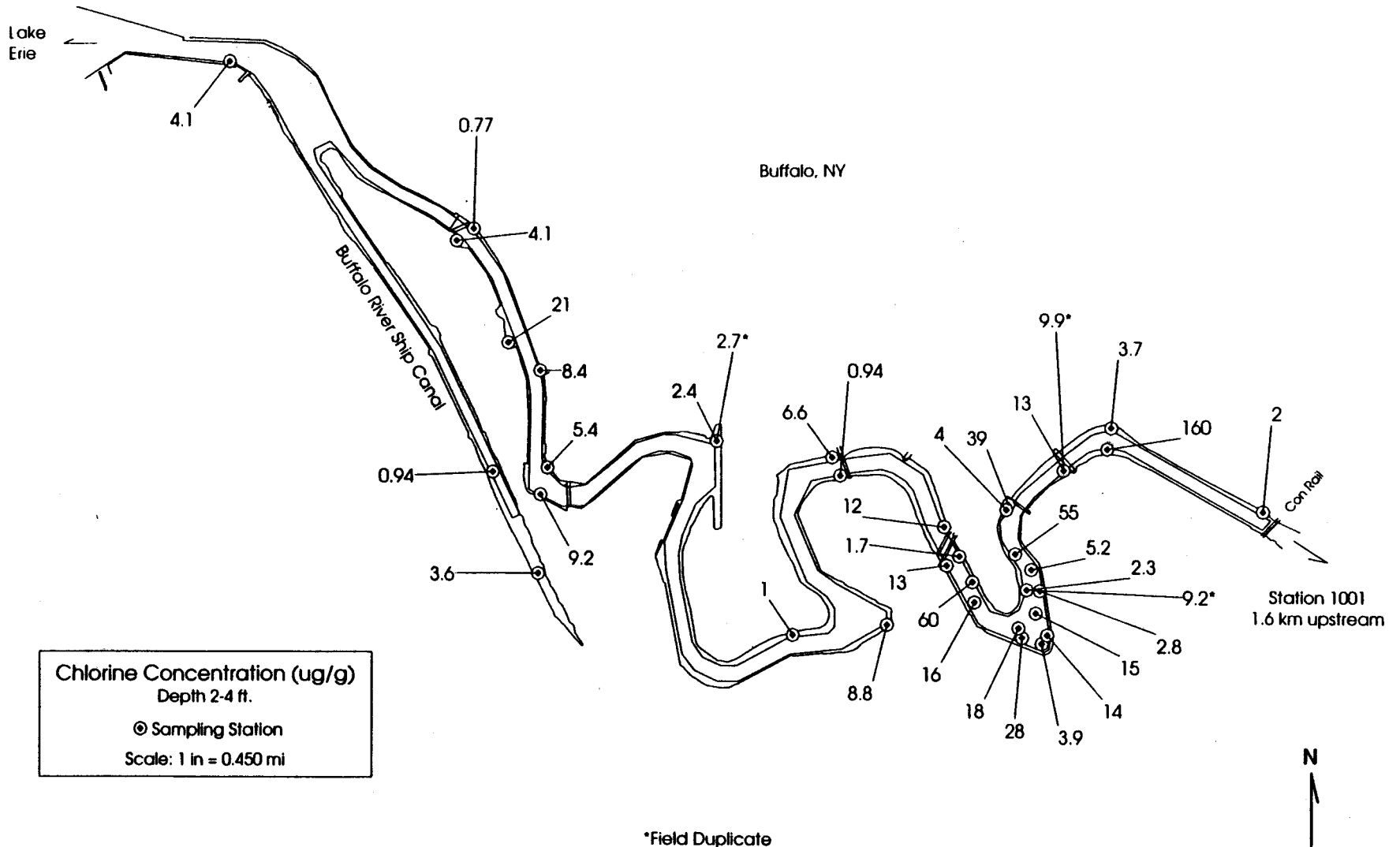
Buffalo River



Chlorine Concentration (ug/g)
 Depth 0-2 ft.
 ● Sampling Station
 Scale: 1 in = 0.450 ml

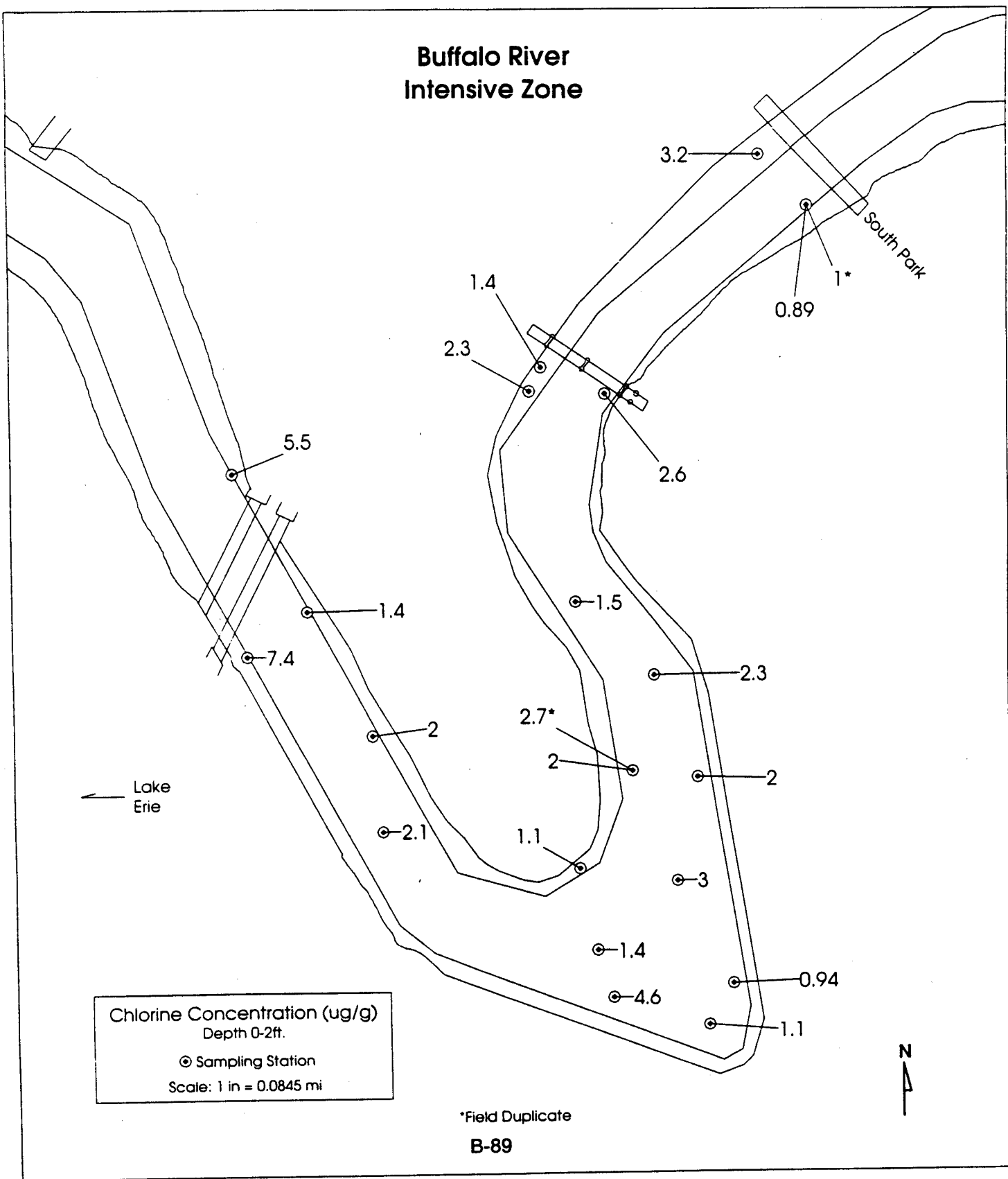
*Field Duplicate

Buffalo River

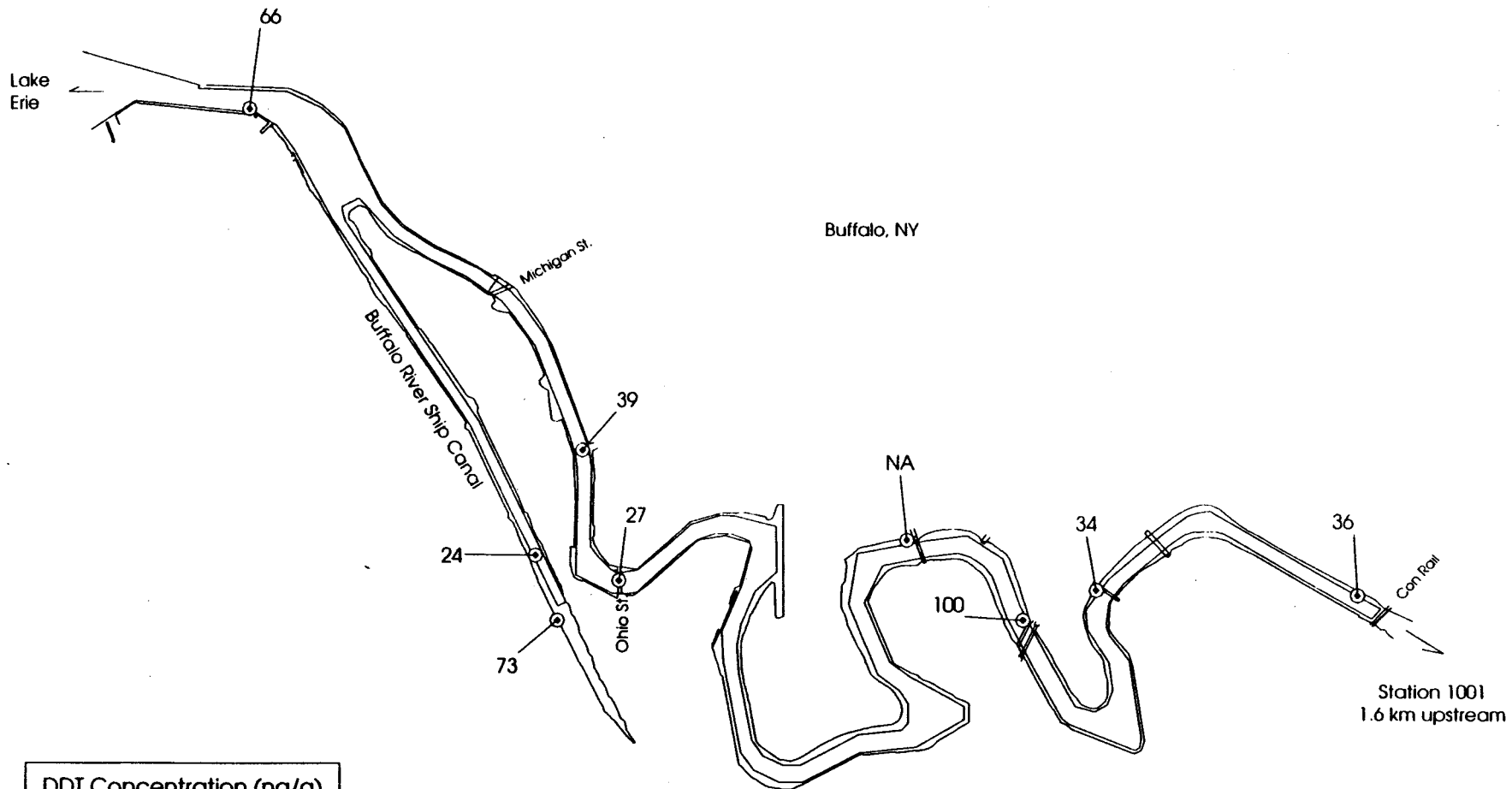


*Field Duplicate
 B-88

Buffalo River Intensive Zone



Buffalo River

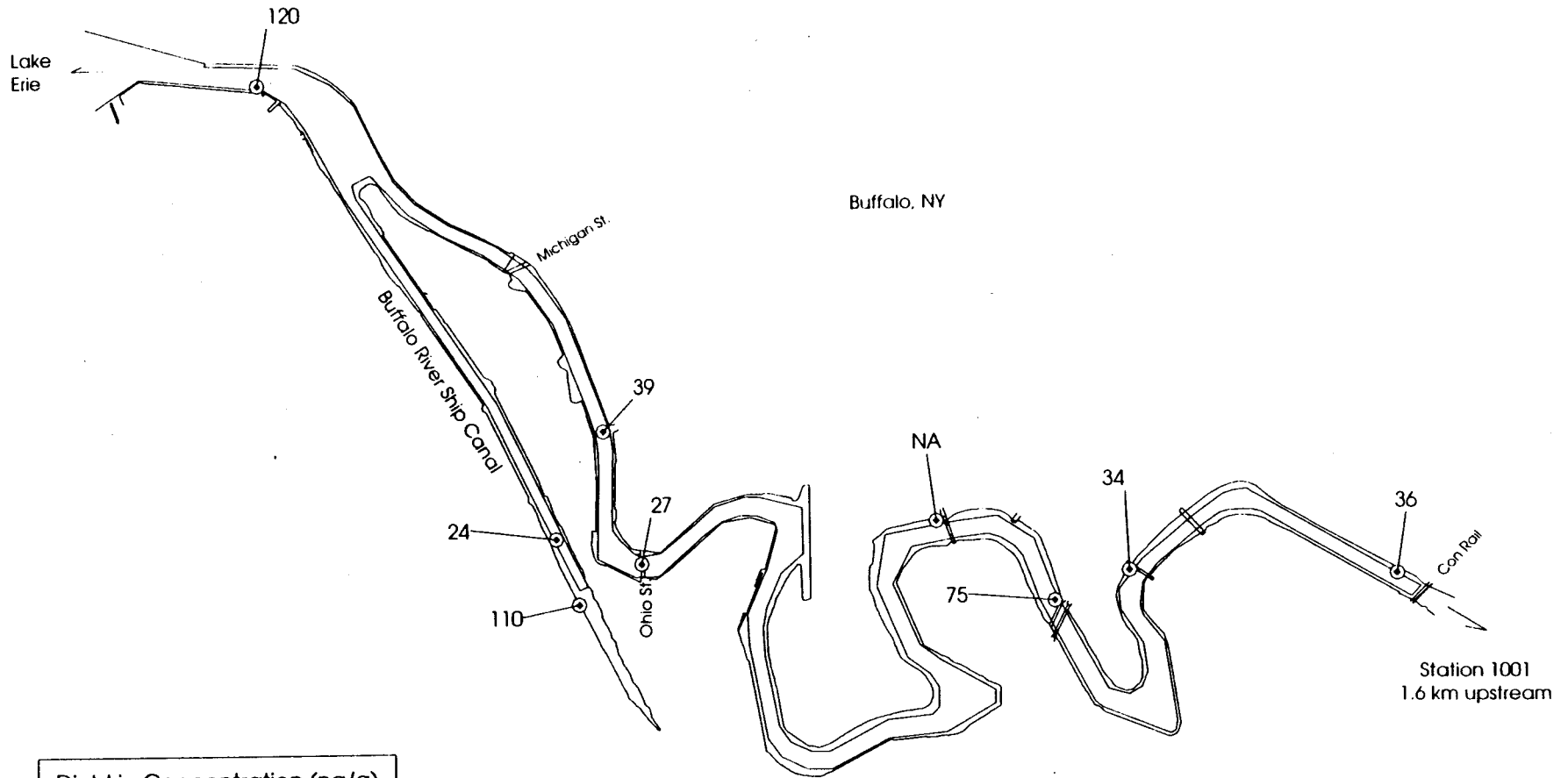


DDT Concentration (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
NA indicates not applicable.



Buffalo River

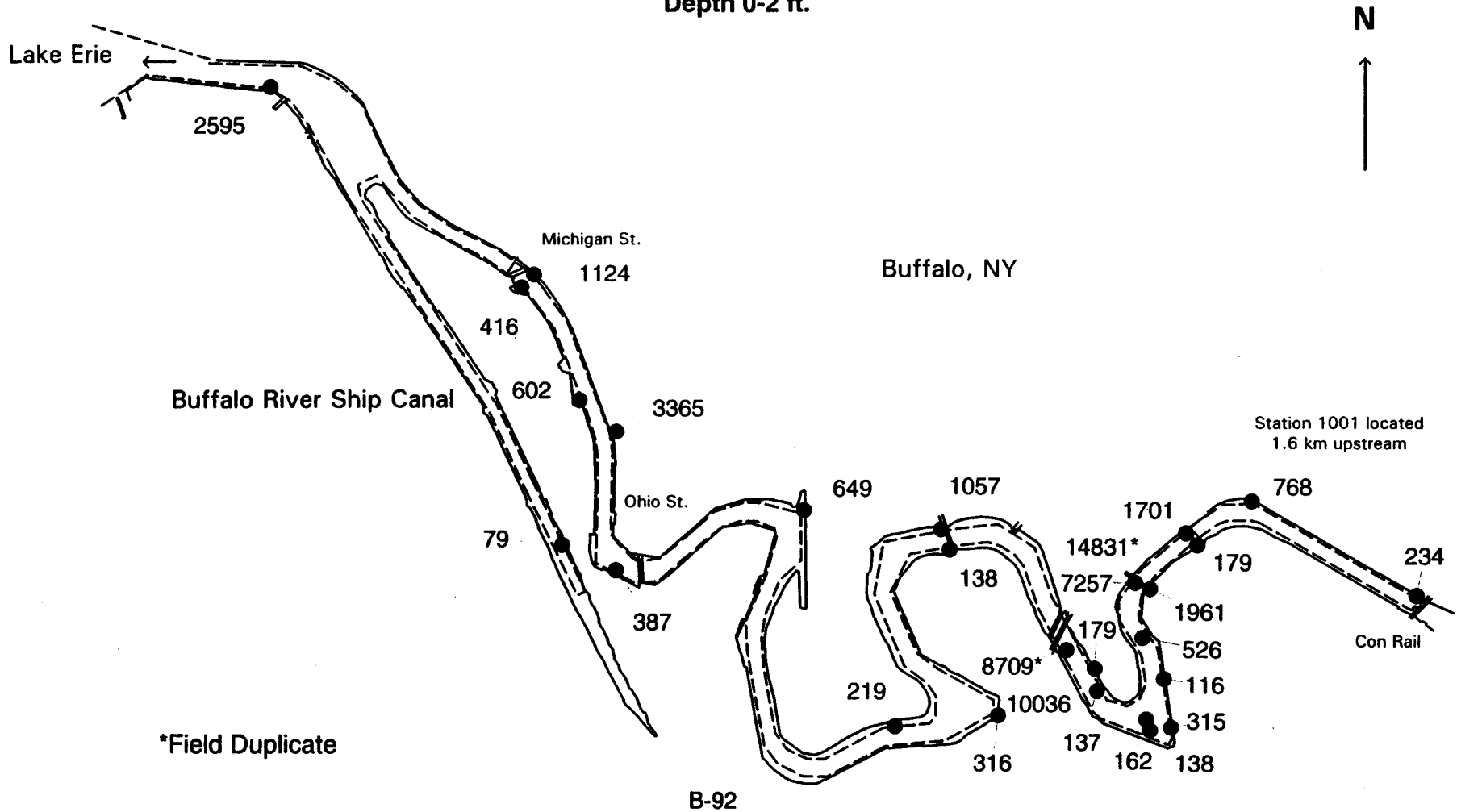


Dieldrin Concentration (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

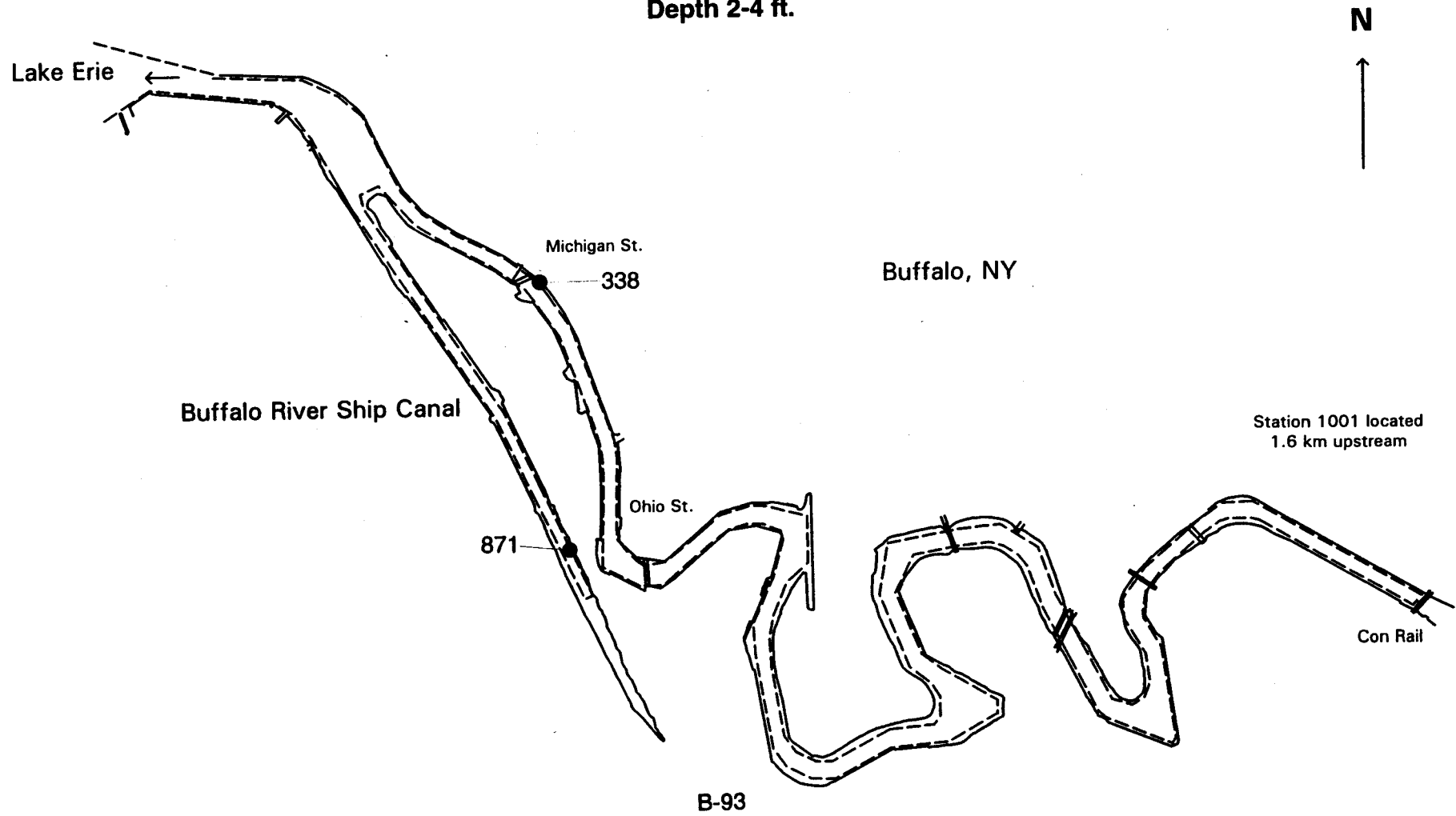
*Field Duplicate
NA indicates not applicable.



BUFFALO RIVER SURVEY 3
PCB CONCENTRATIONS (ng/g dry wt)
Depth 0-2 ft.



BUFFALO RIVER SURVEY 3
PCB CONCENTRATION (ng/g dry wt)
Depth 2-4 ft.



Lake Erie

Michigan St.

338

Buffalo, NY

Buffalo River Ship Canal

Station 1001 located
1.6 km upstream

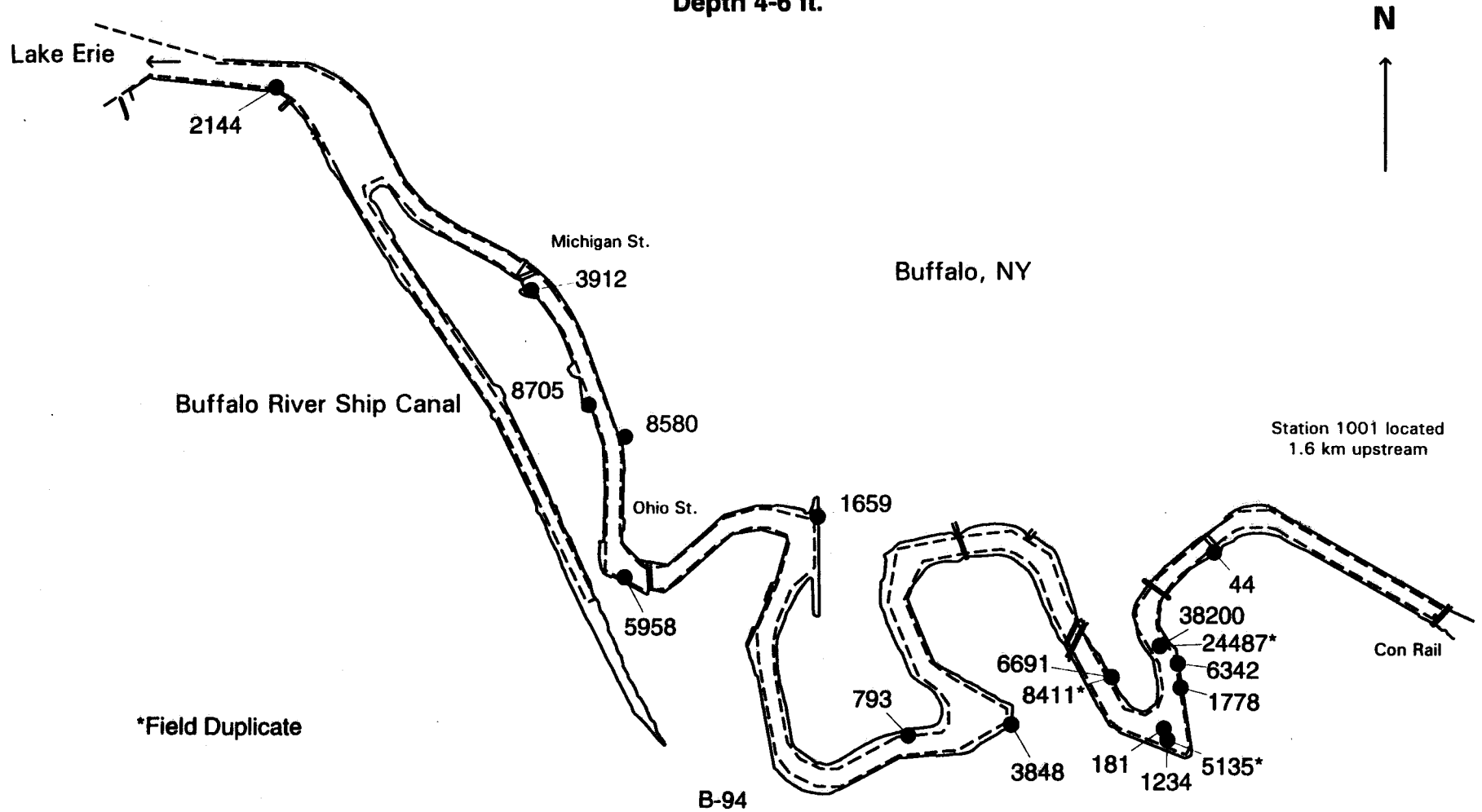
Ohio St.

871

Con Rail

B-93

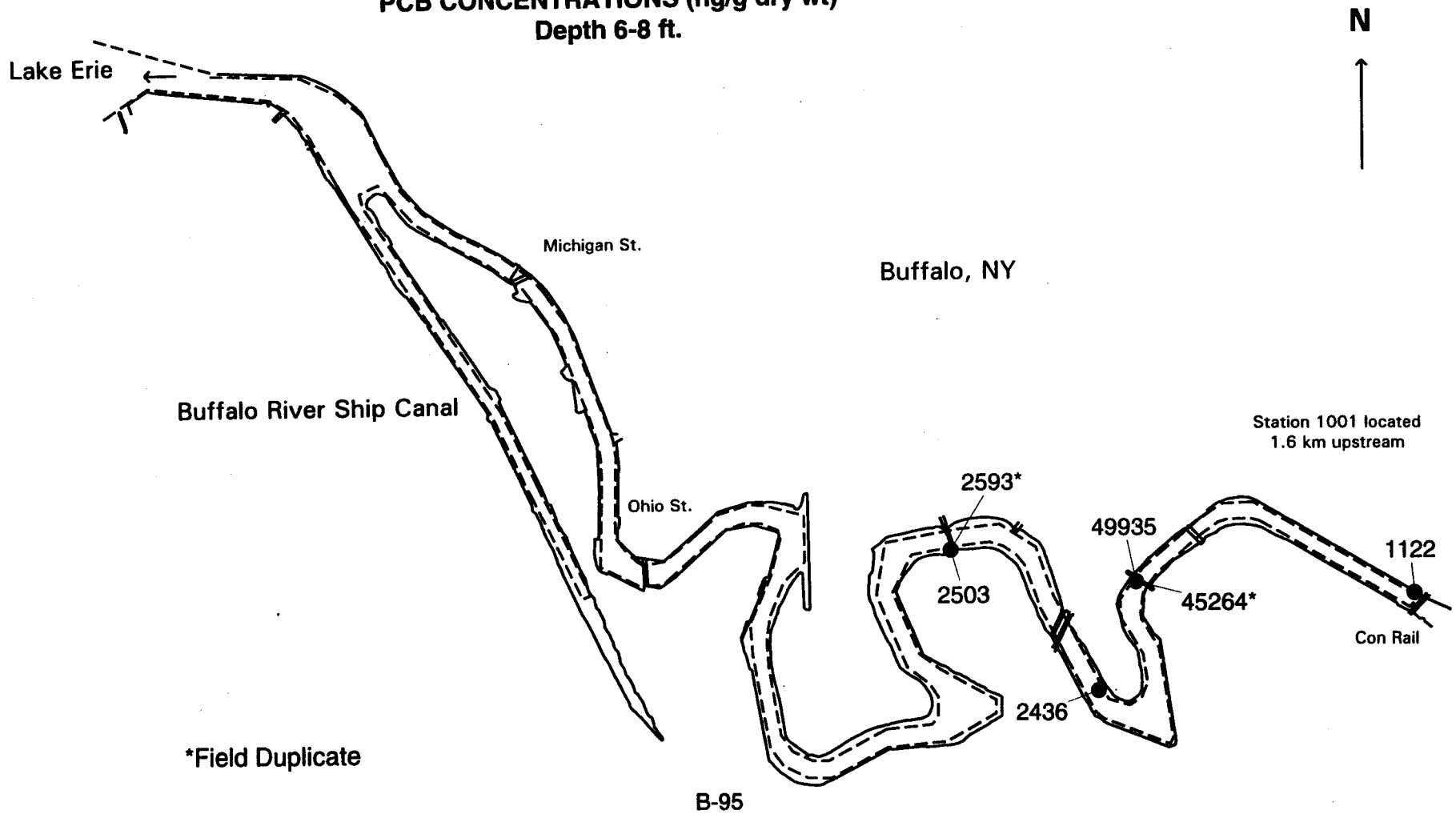
BUFFALO RIVER SURVEY 3
PCB CONCENTRATIONS (ng/g dry wt)
Depth 4-6 ft.



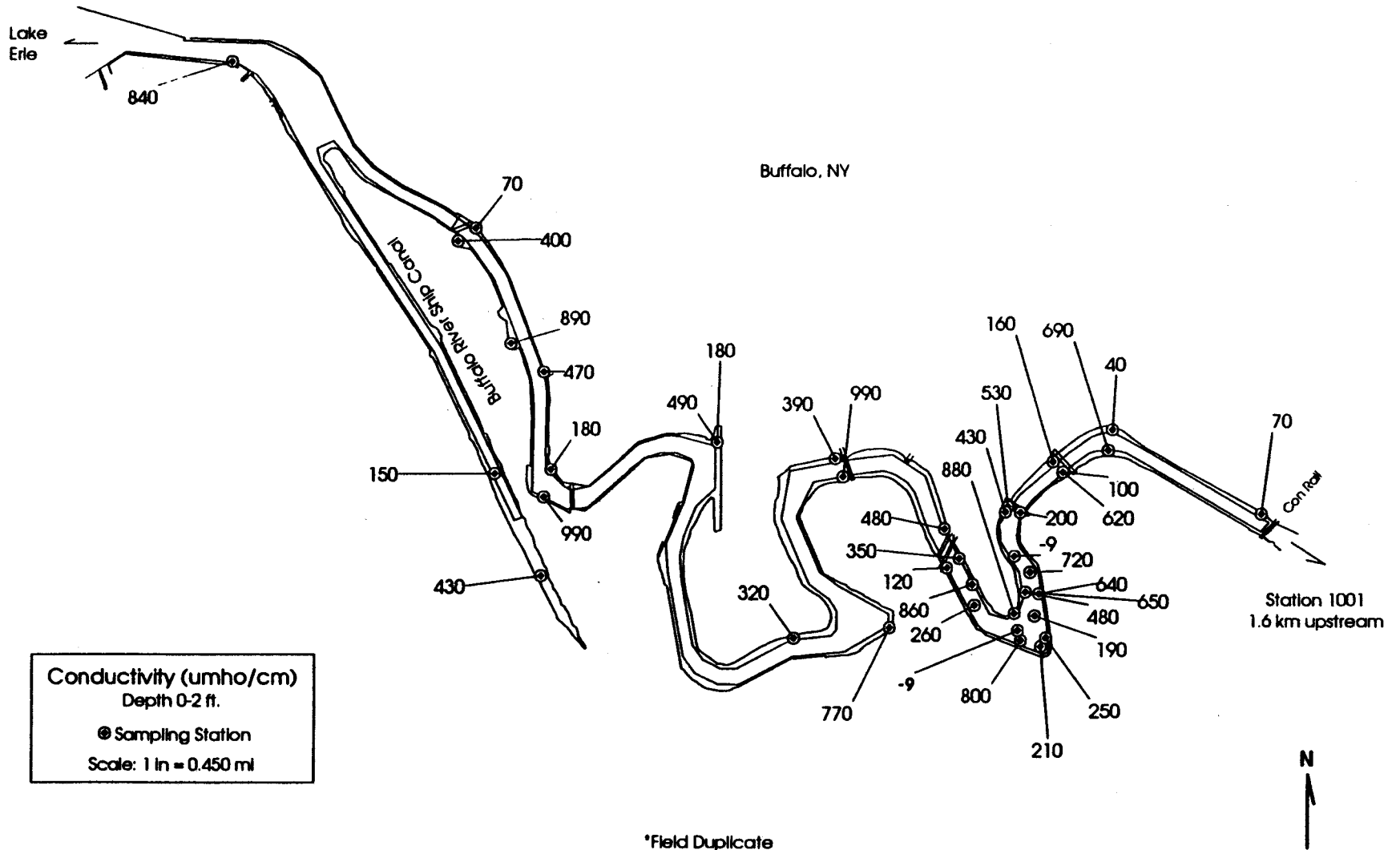
*Field Duplicate

Station 1001 located
1.6 km upstream

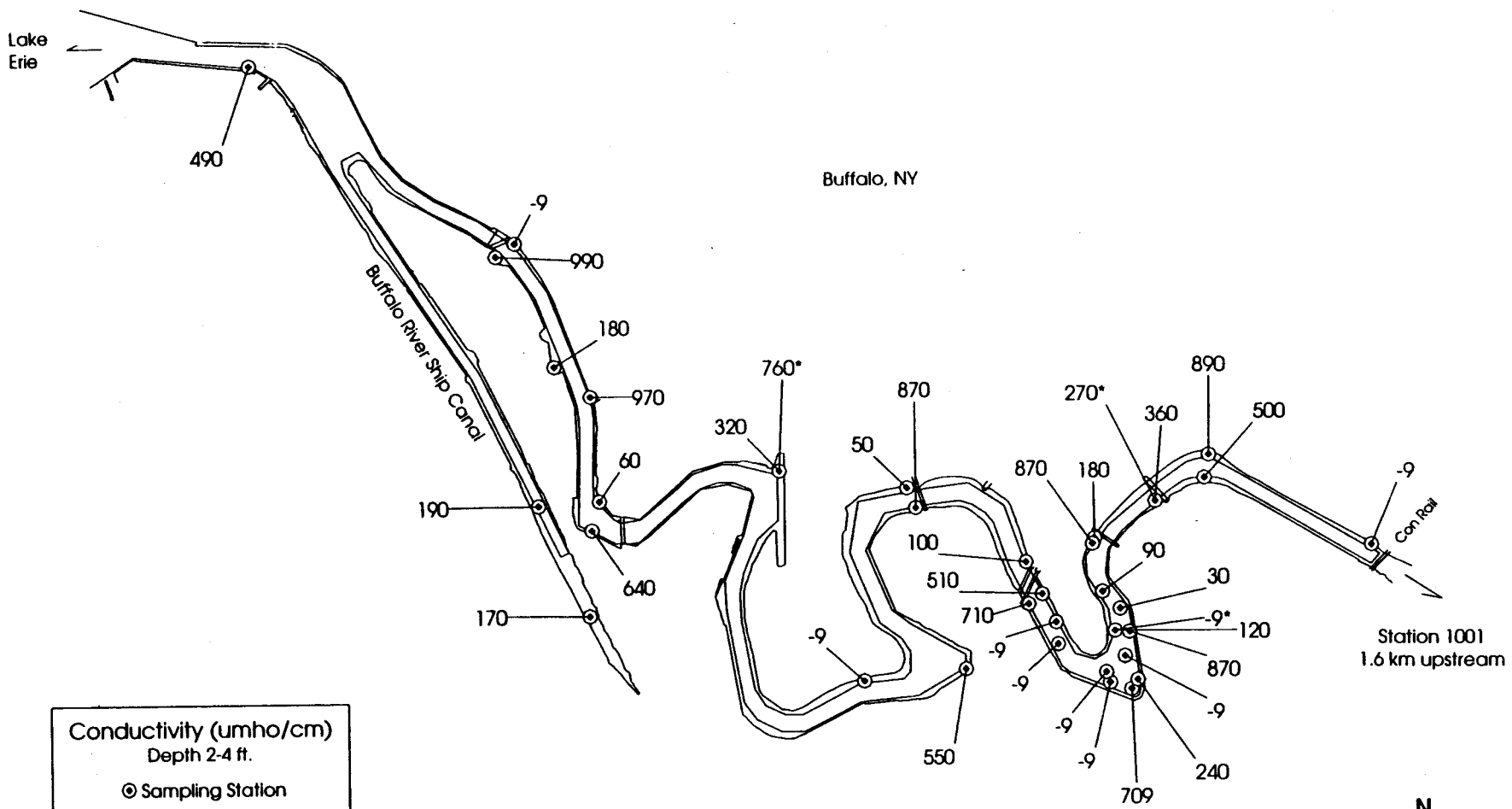
**BUFFALO RIVER SURVEY 3
PCB CONCENTRATIONS (ng/g dry wt)
Depth 6-8 ft.**



Buffalo River



Buffalo River

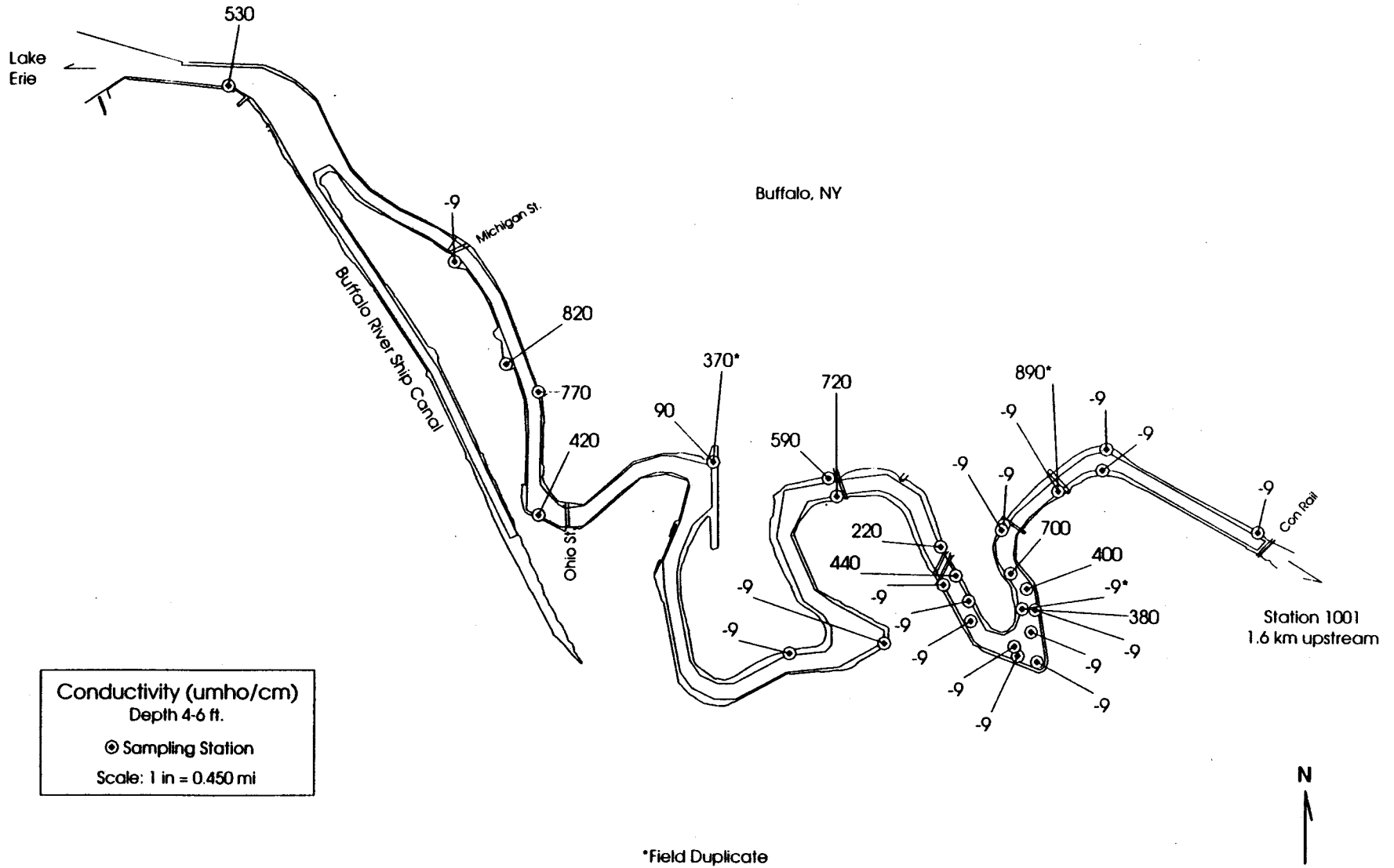


Conductivity ($\mu\text{mho/cm}$)
 Depth 2-4 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-97

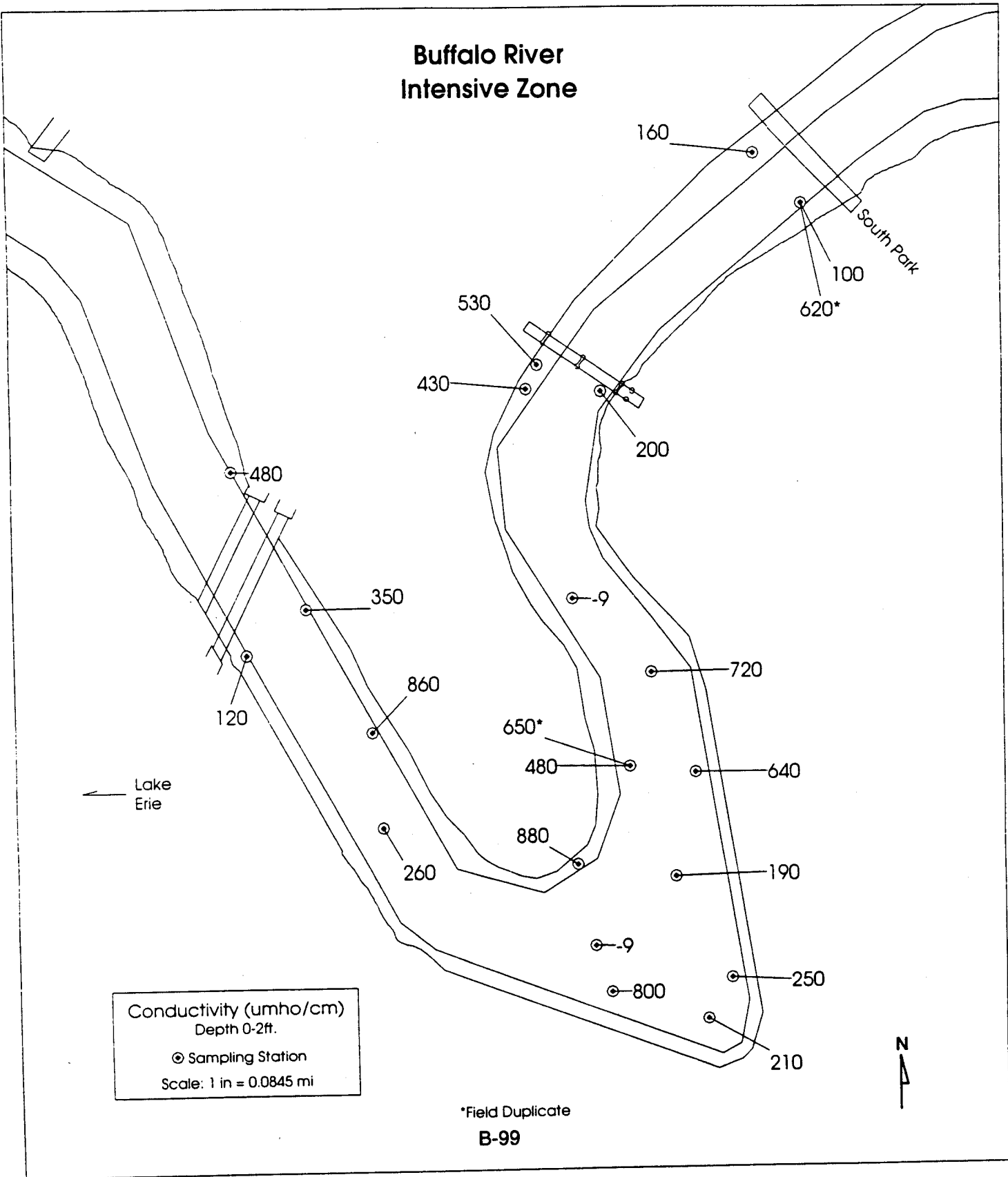


Buffalo River

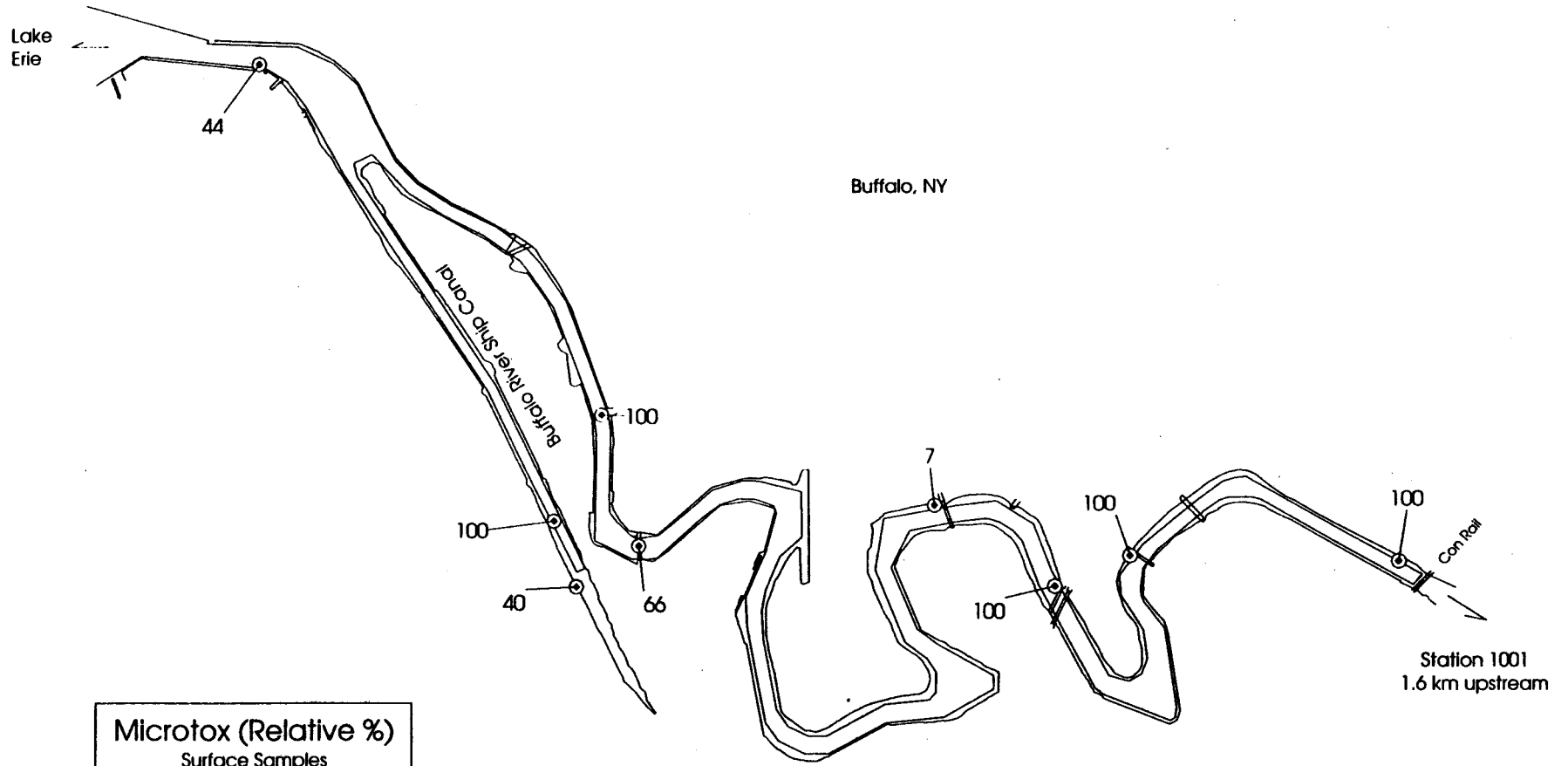


*Field Duplicate
B-98

Buffalo River Intensive Zone



Buffalo River

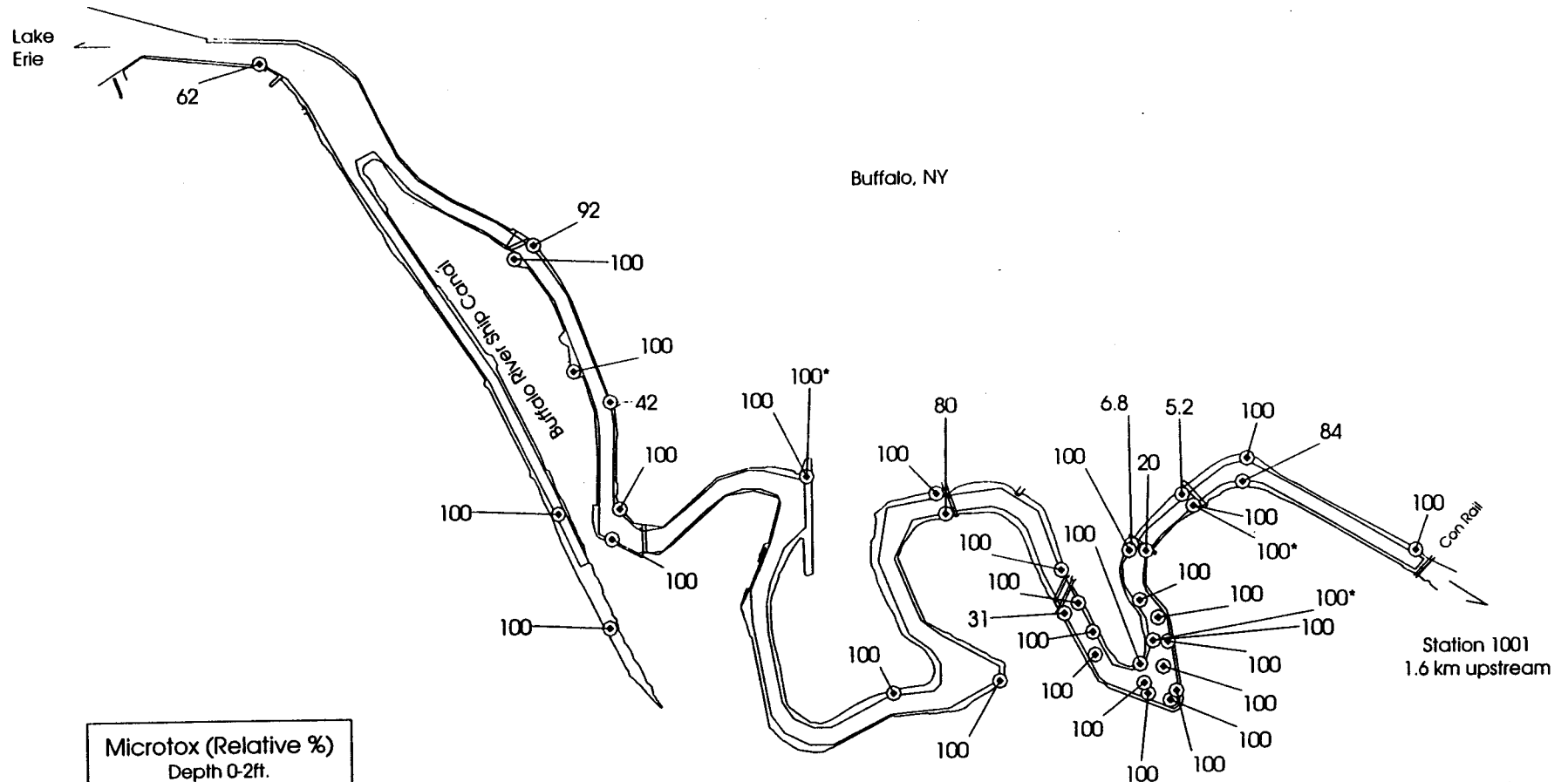


Microtox (Relative %)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-100



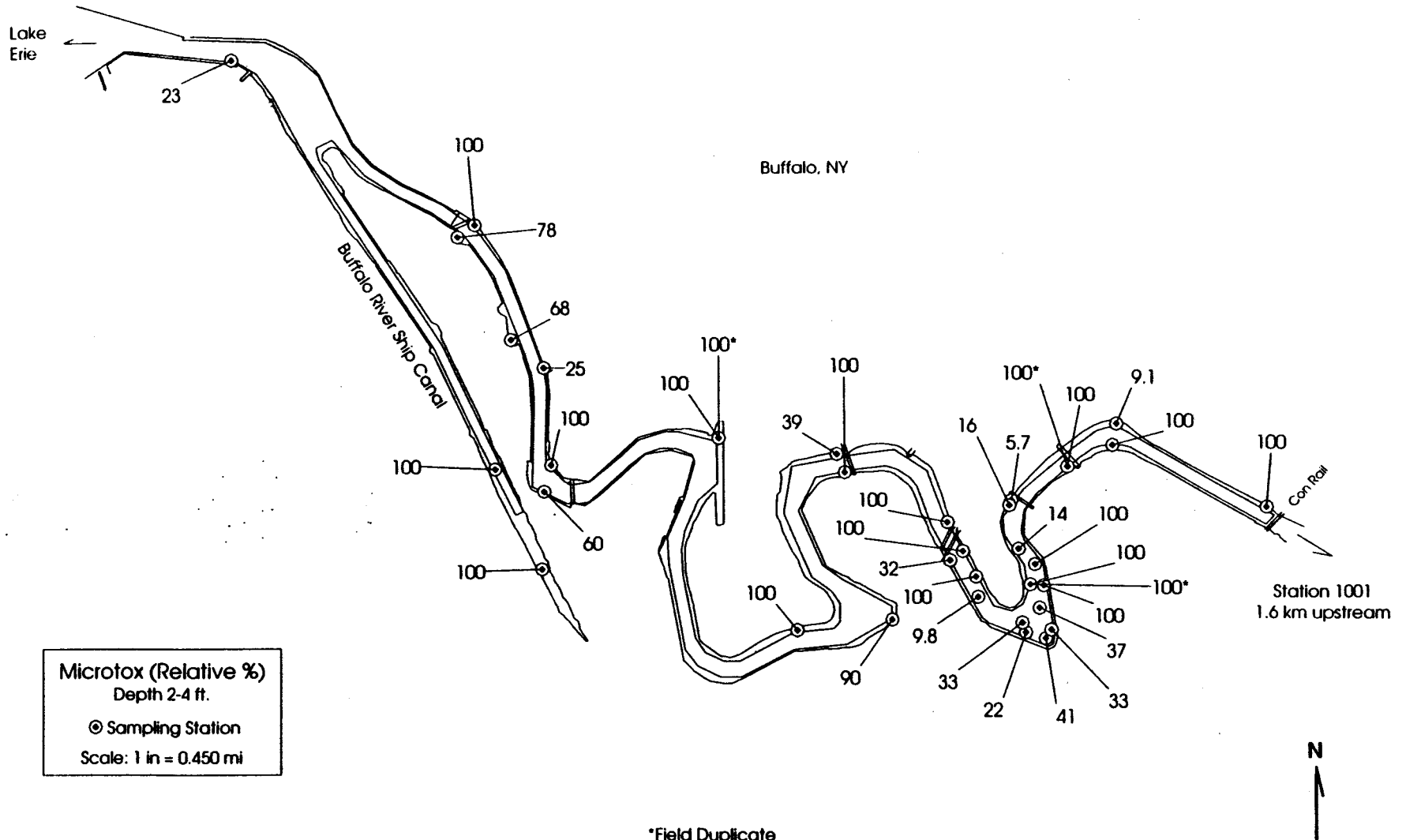
Buffalo River



*Field Duplicate
B-101

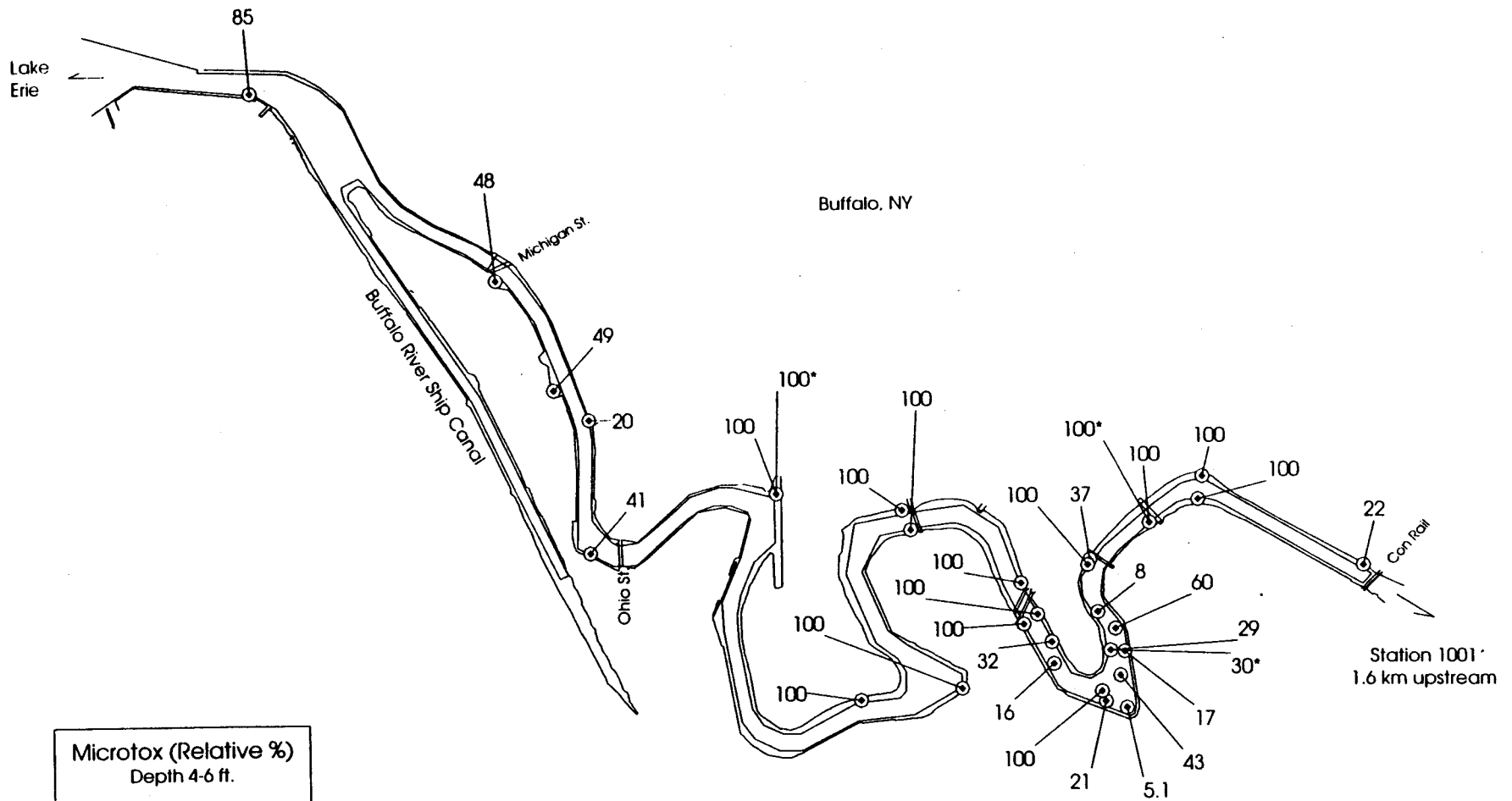


Buffalo River



*Field Duplicate
B-102

Buffalo River

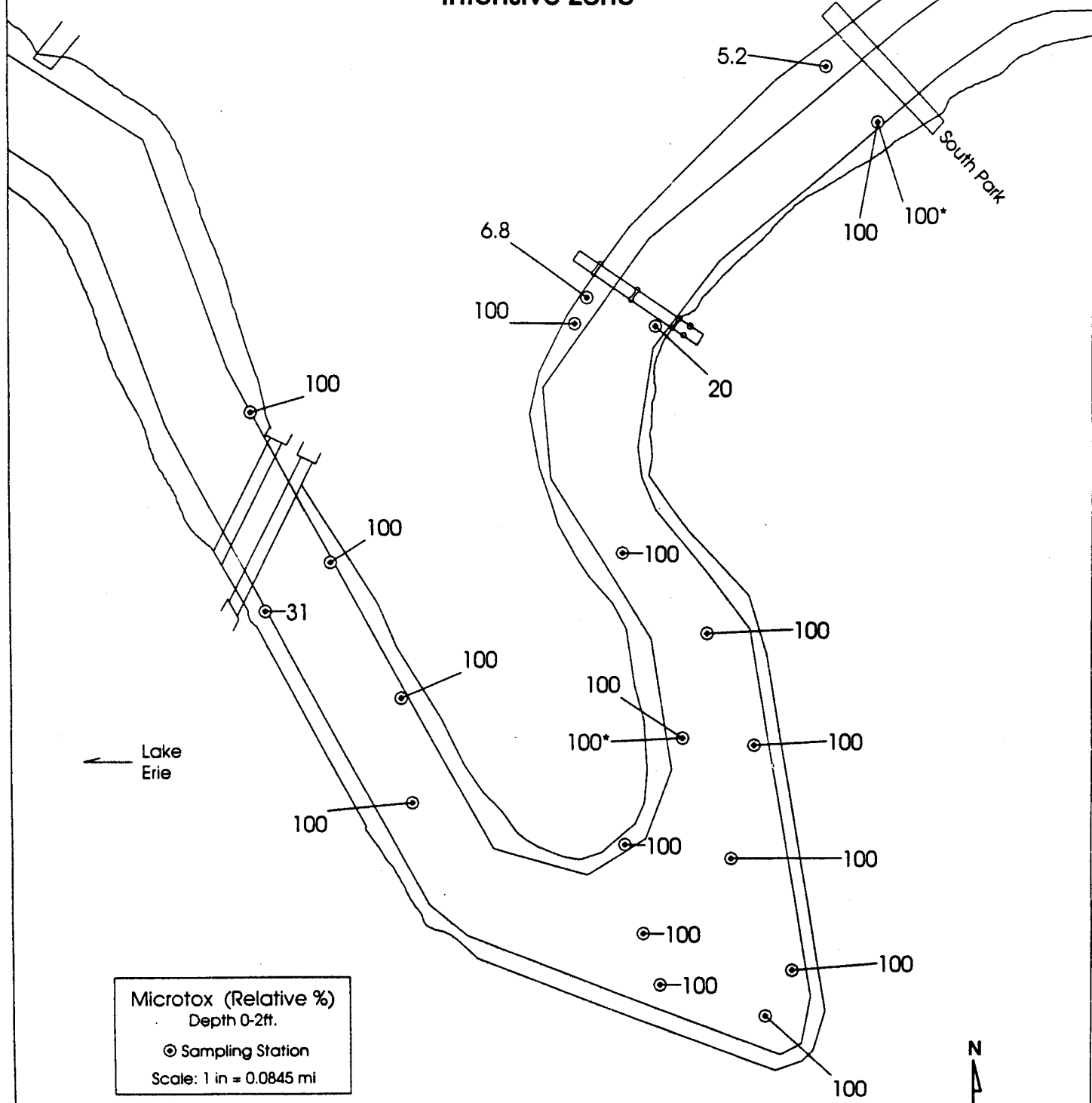


Microtox (Relative %)
Depth 4-6 ft.
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-103



Buffalo River Intensive Zone

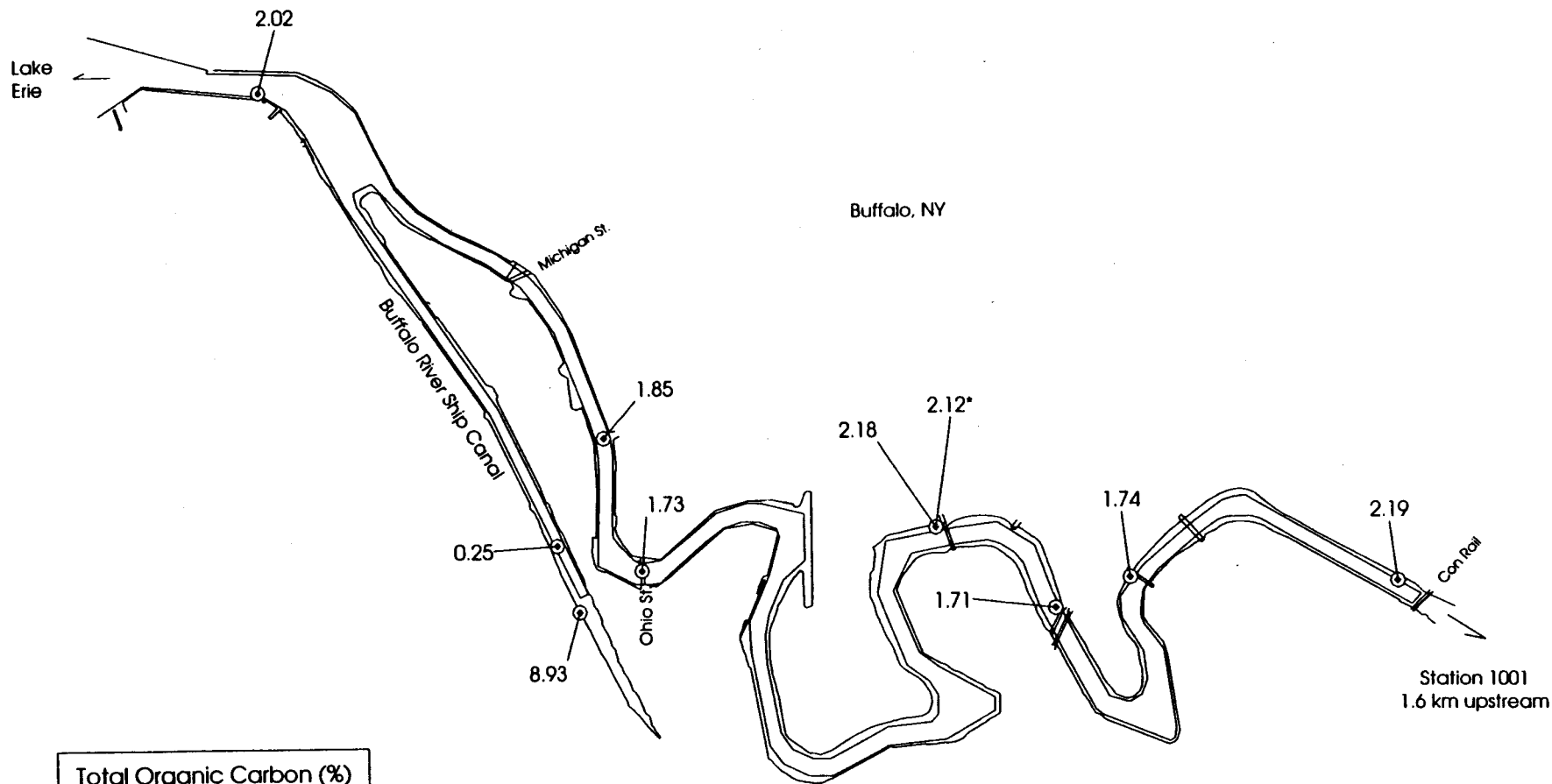


Microtox (Relative %)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-104



Buffalo River



Total Organic Carbon (%)
Surface Samples

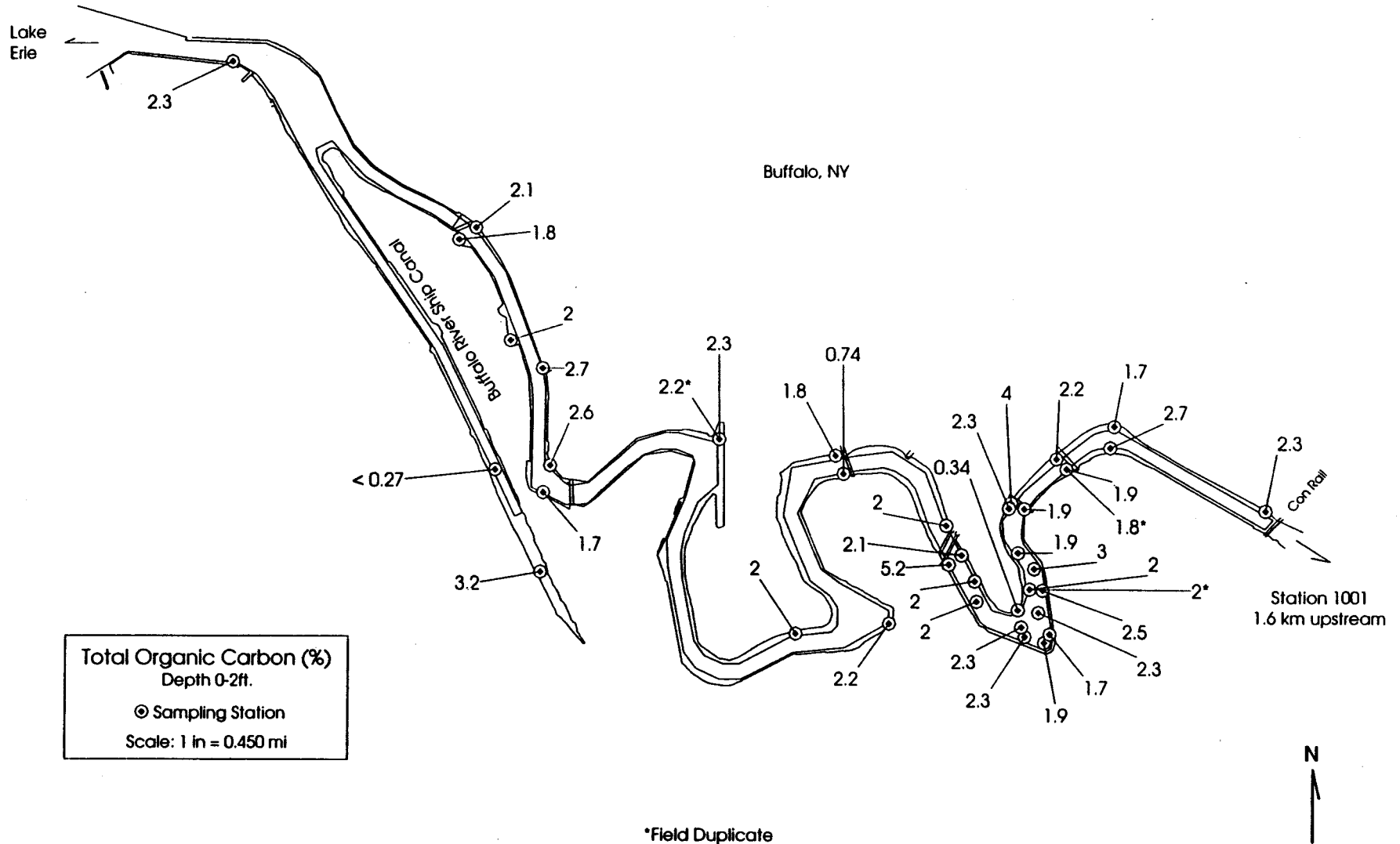
⊙ Sampling Station

Scale: 1 in = 0.450 mi

*Field Duplicate
B-105



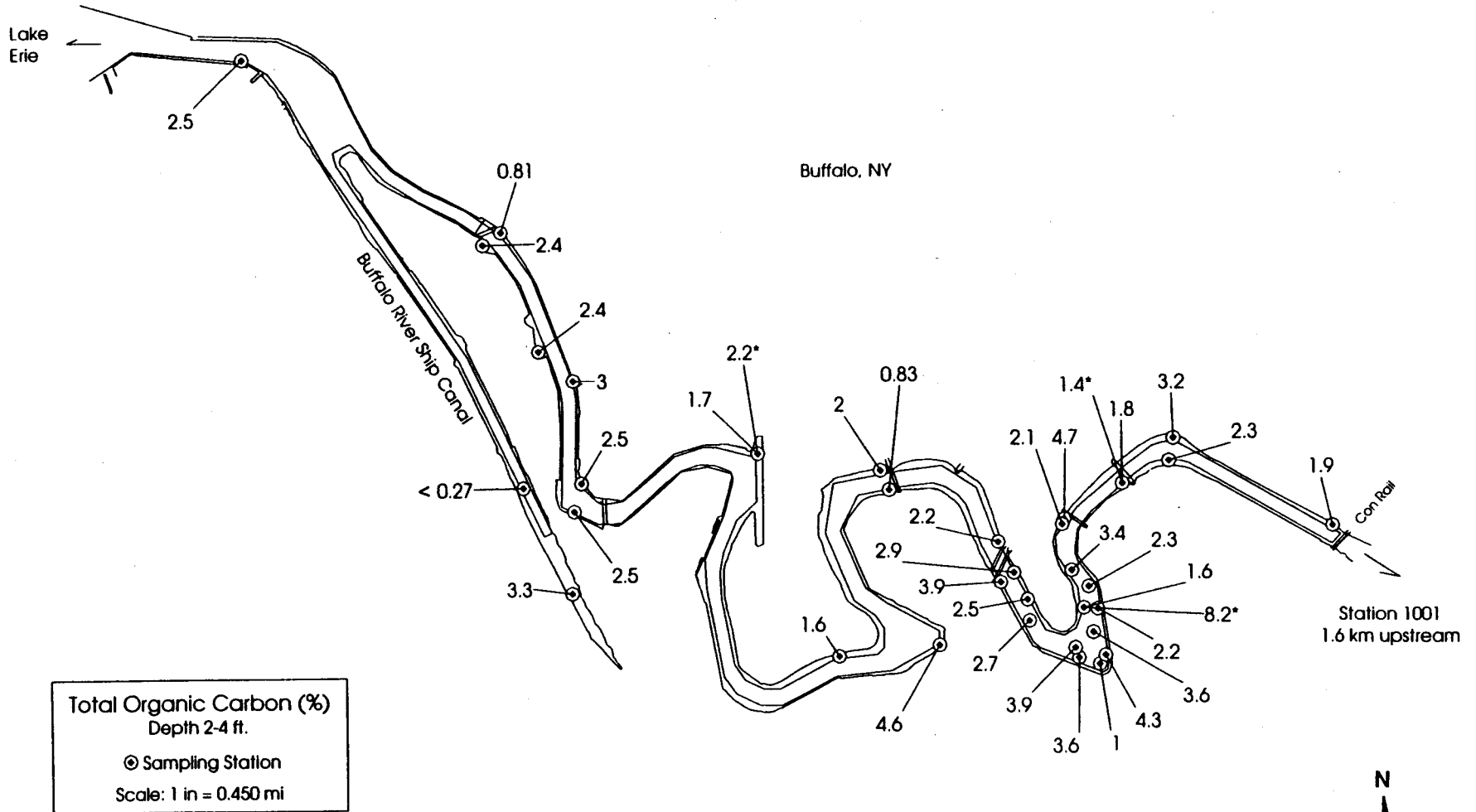
Buffalo River



*Field Duplicate
B-106



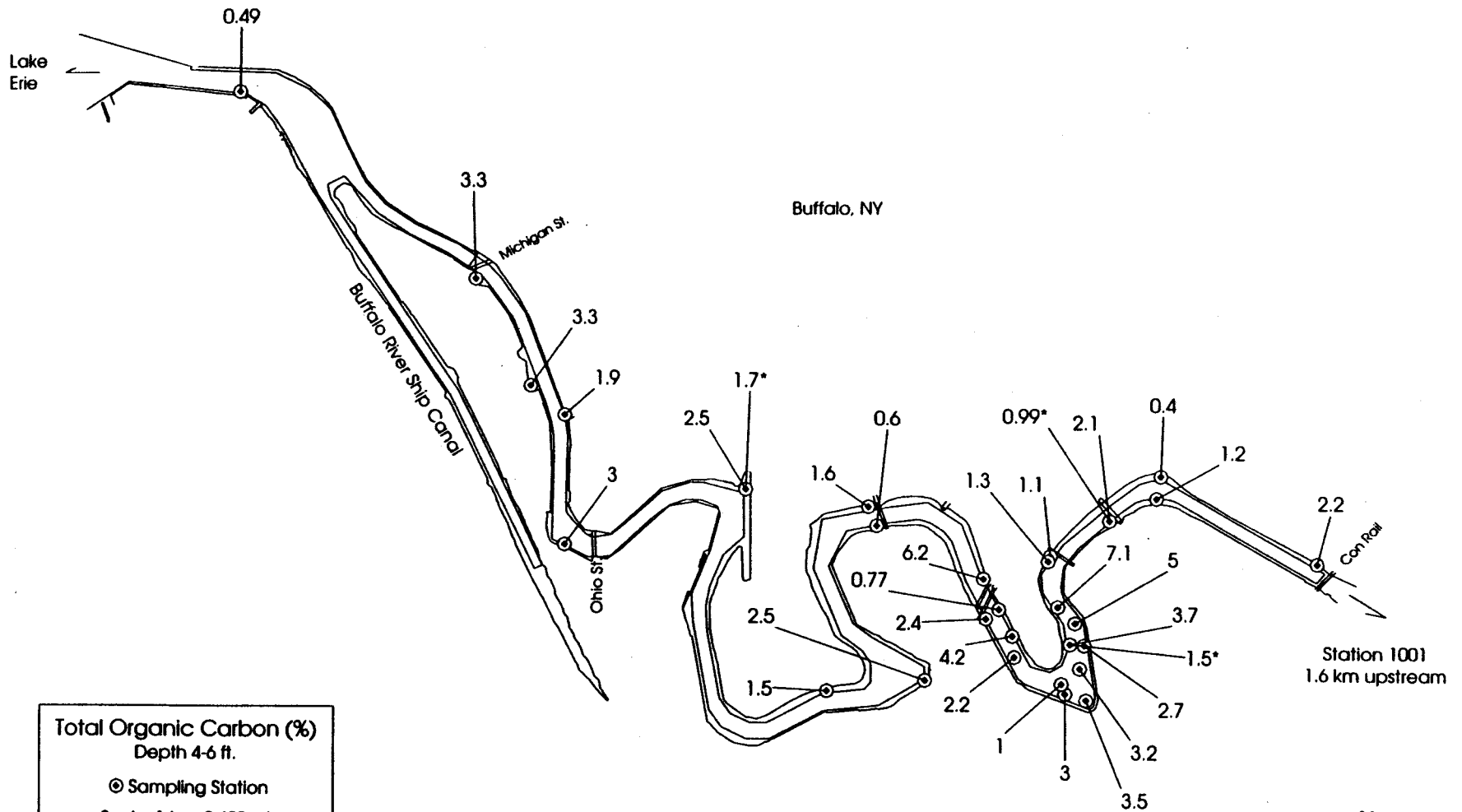
Buffalo River



*Field Duplicate
B-107



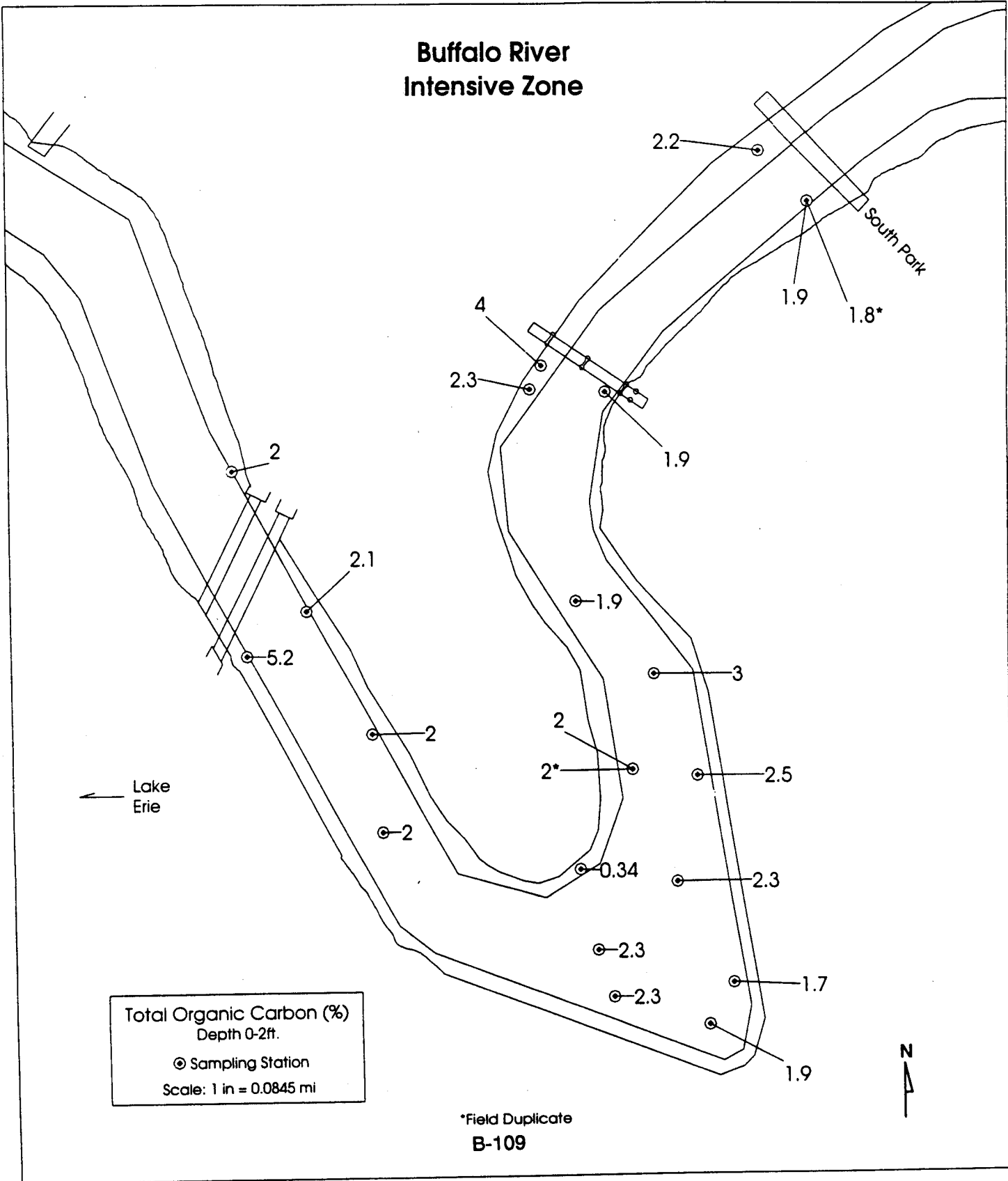
Buffalo River



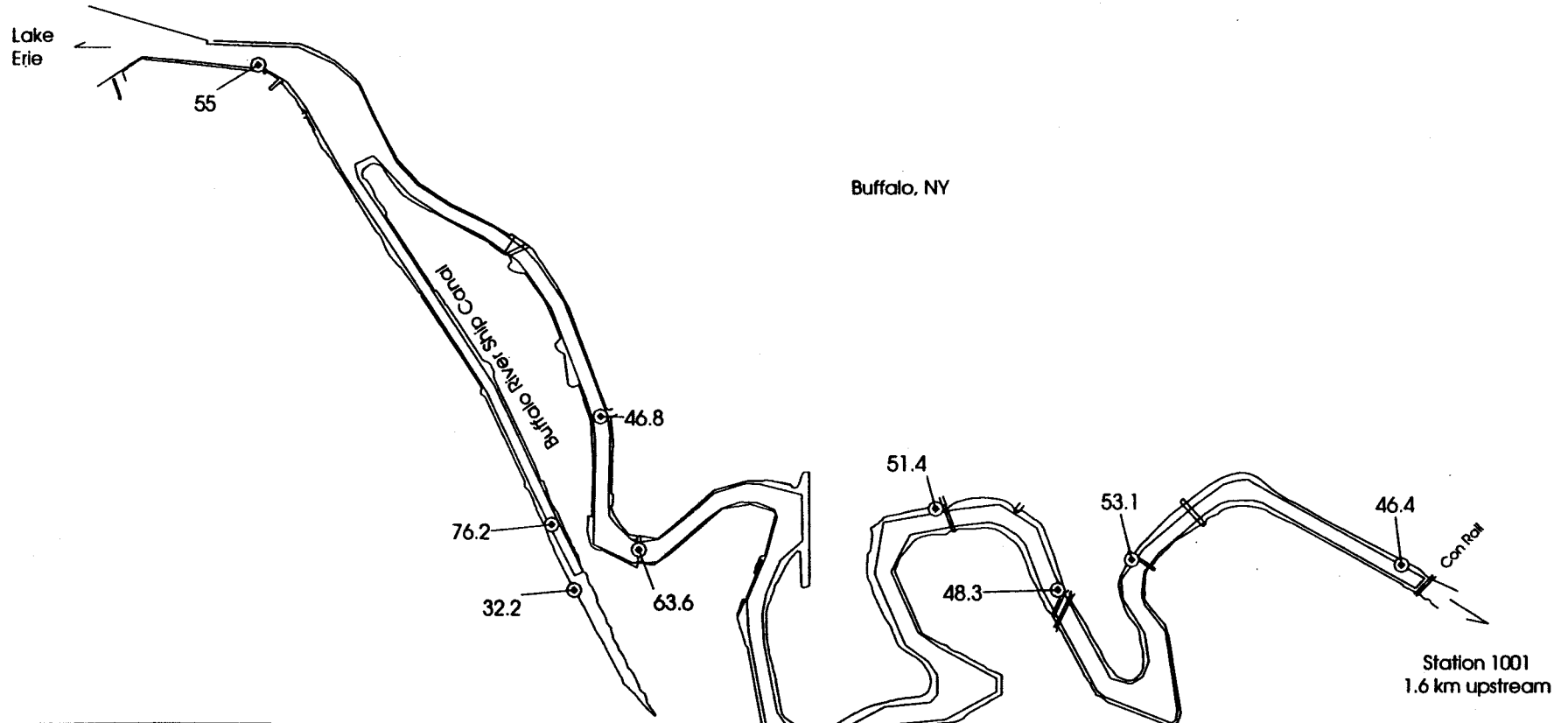
*Field Duplicate
 B-108



Buffalo River Intensive Zone



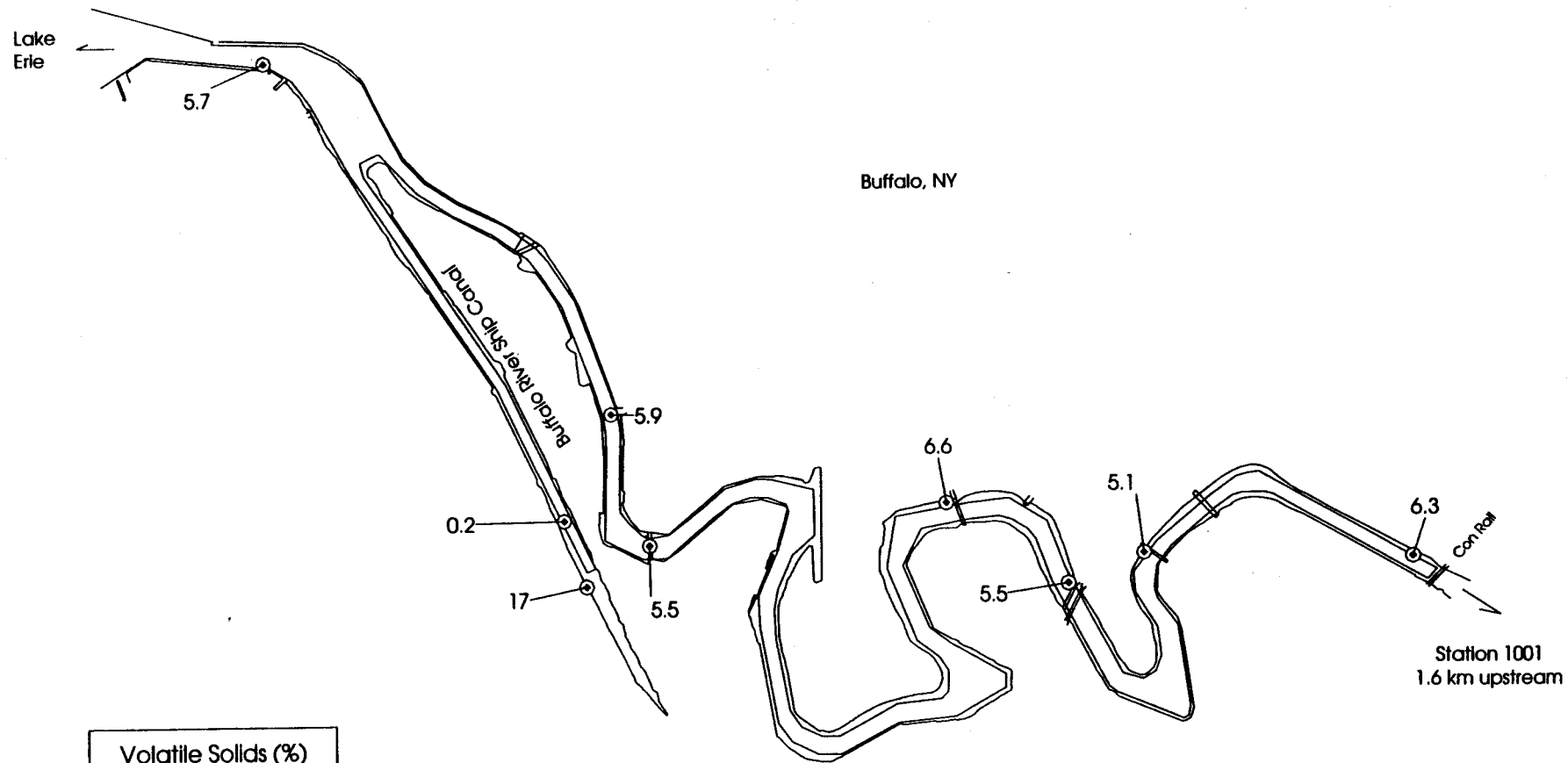
Buffalo River



Total Solids (%)
Surface Samples
© Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-110

Buffalo River

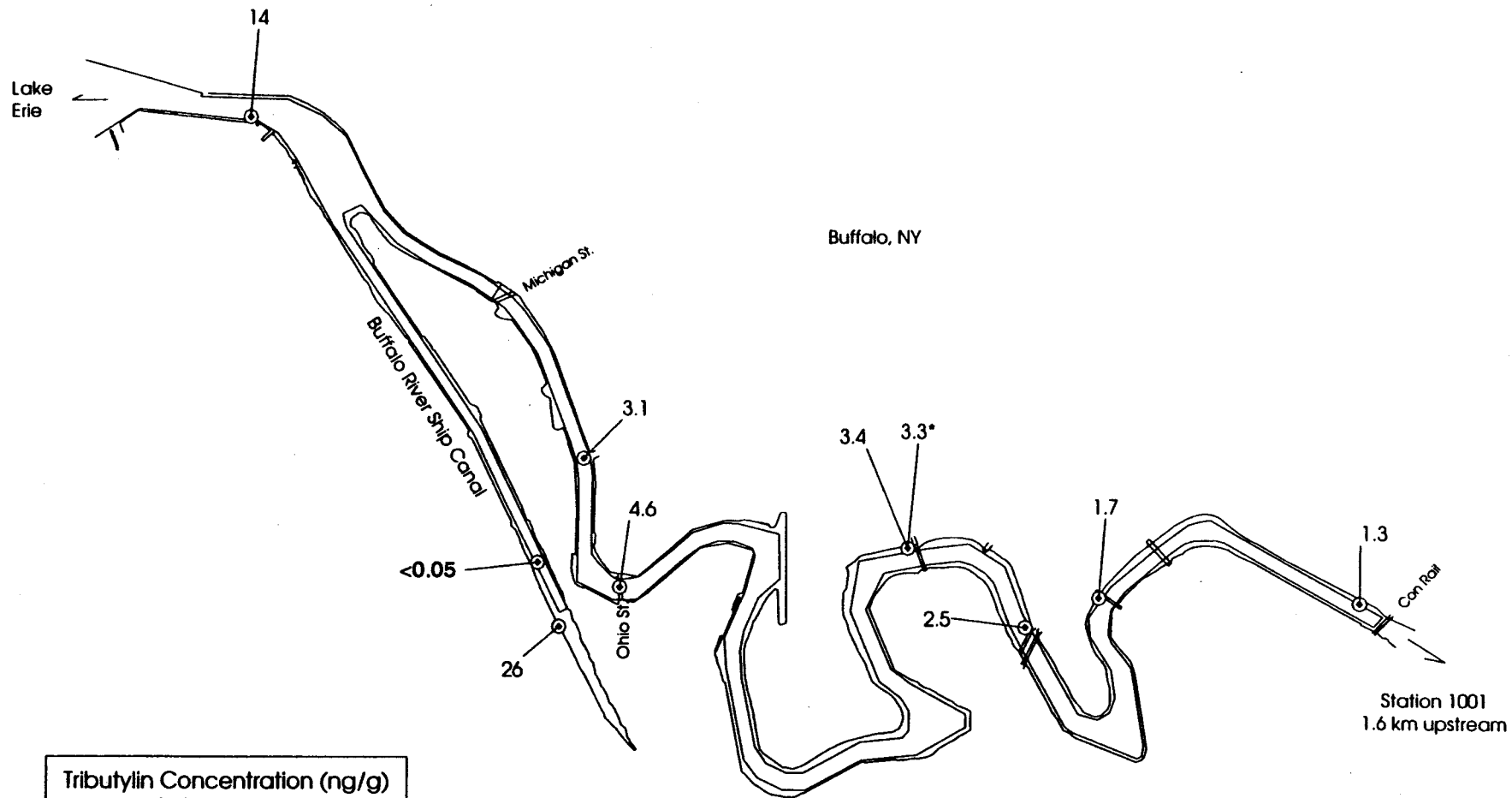


Volatile Solids (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-111



Buffalo River

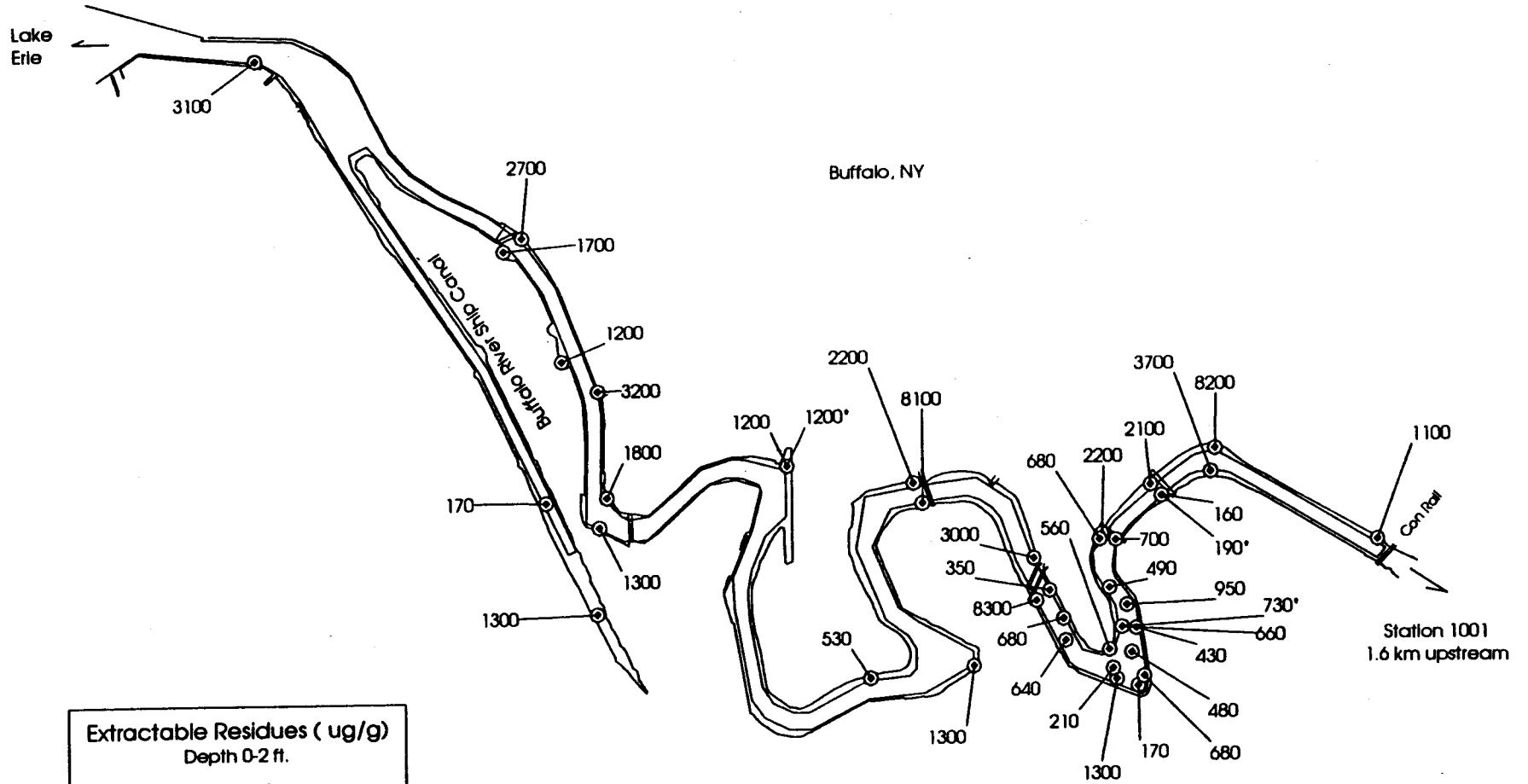


Tributulin Concentration (ng/g)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-112



Buffalo River

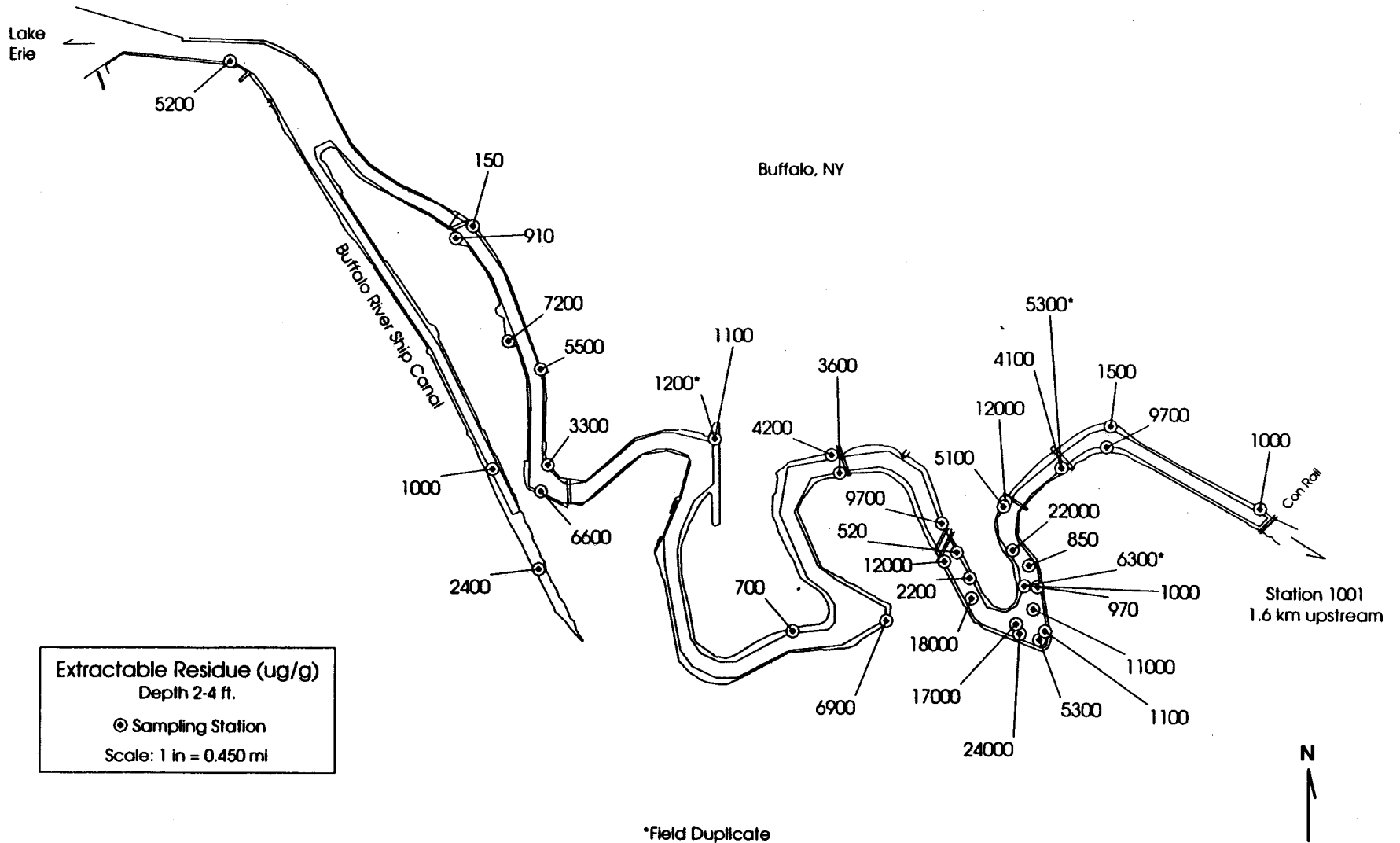


Extractable Residues (ug/g)
 Depth 0-2 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-113



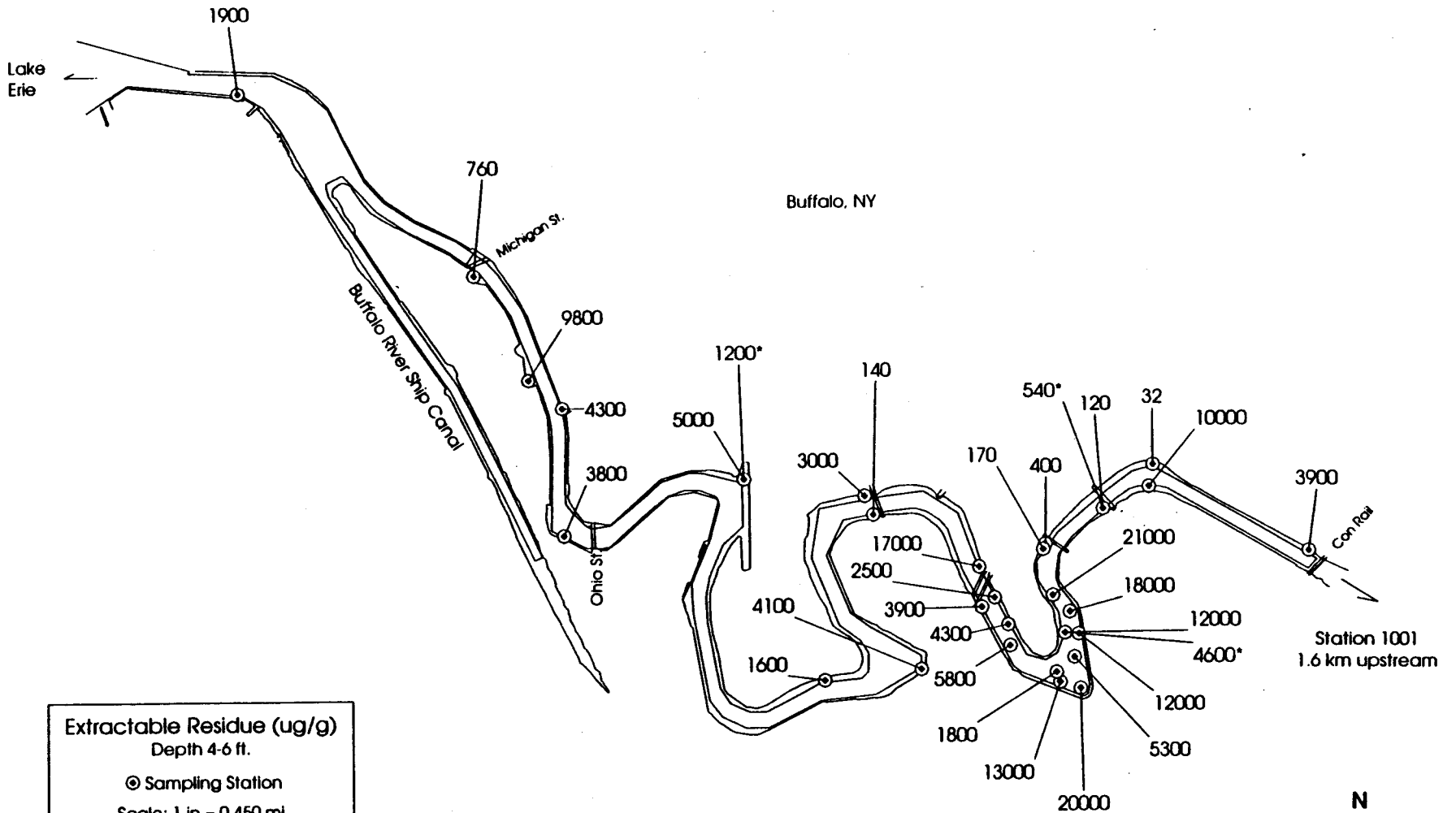
Buffalo River



Extractable Residue (ug/g)
 Depth 2-4 ft.
 ⊙ Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-114

Buffalo River

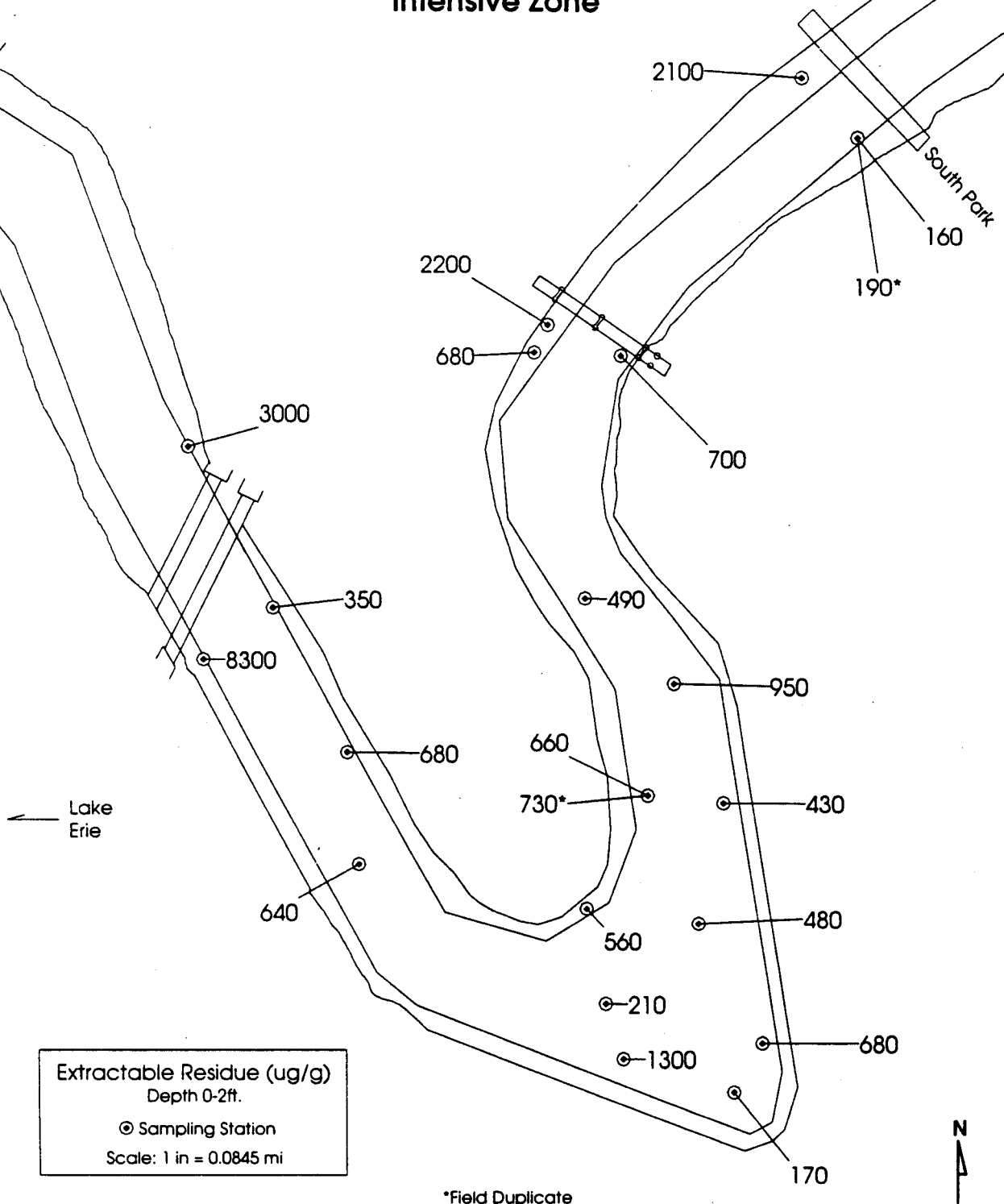


Extractable Residue (ug/g)
 Depth 4-6 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-115



Buffalo River Intensive Zone

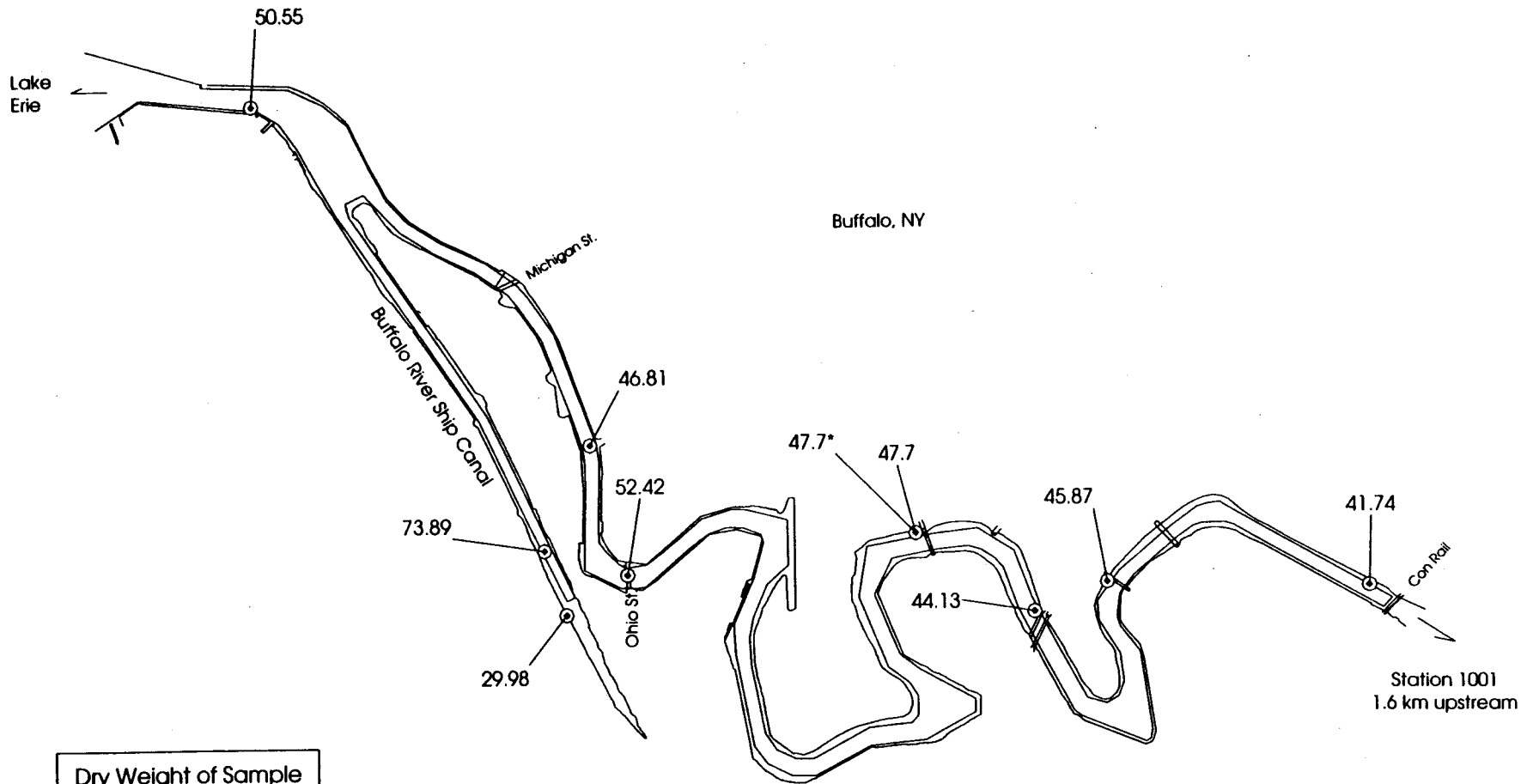


Extractable Residue (ug/g)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-116



Buffalo River

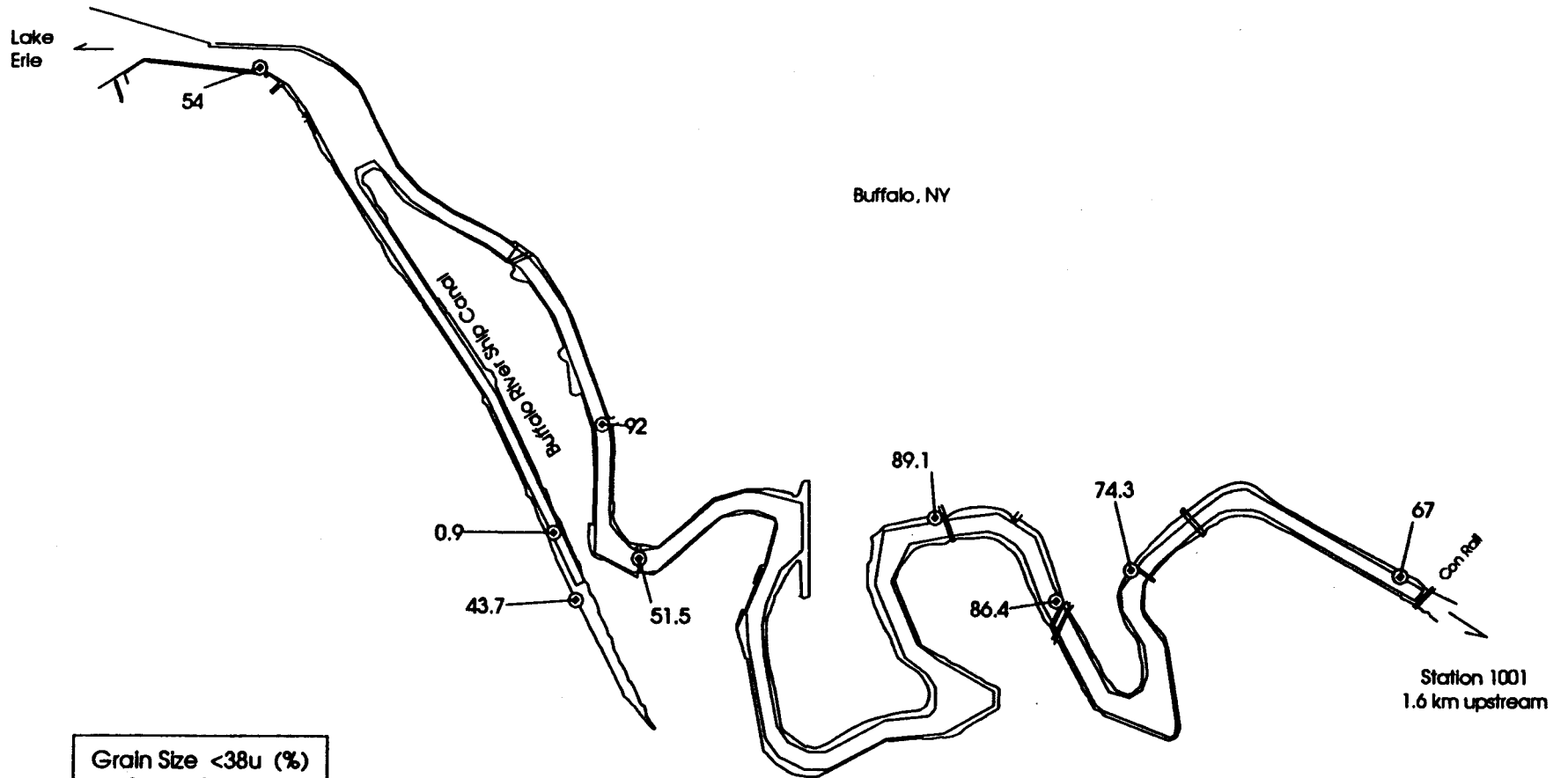


Dry Weight of Sample
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-117



Buffalo River

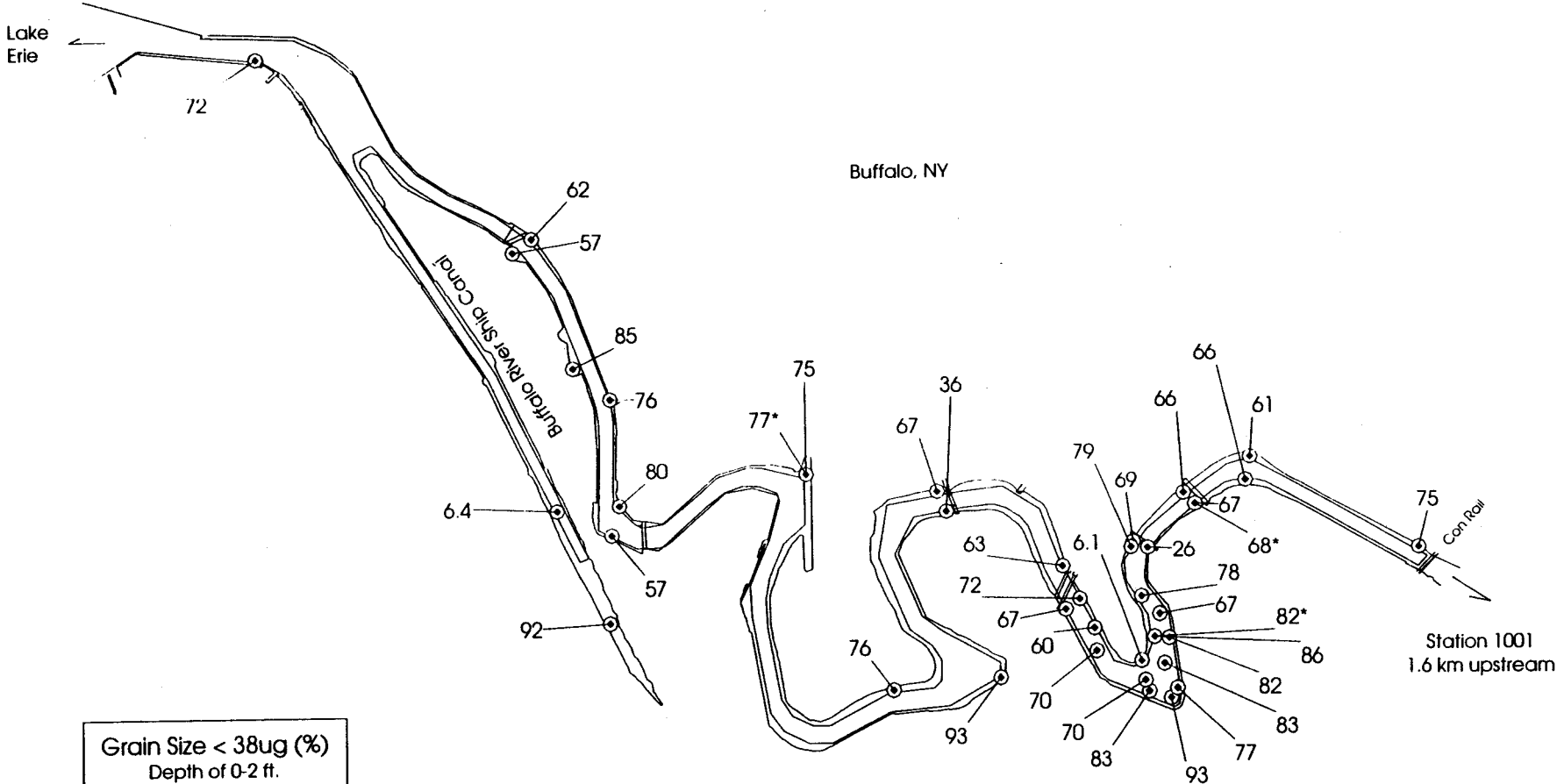


Grain Size <math><38\mu</math> (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-118



Buffalo River

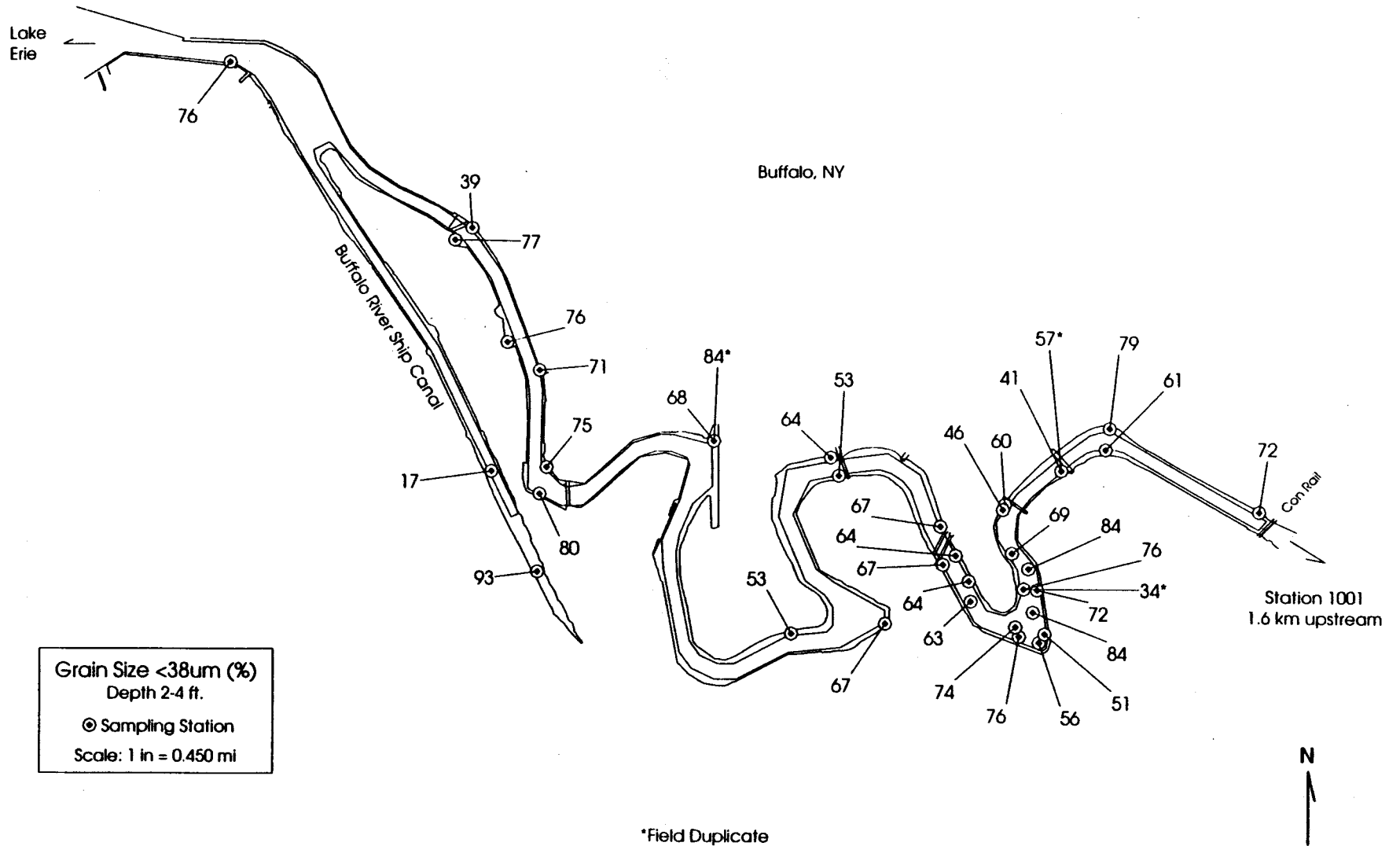


Grain Size < 38ug (%)
Depth of 0-2 ft.
⊙ Sampling Station
Scale: 1 in = 0.450 mi

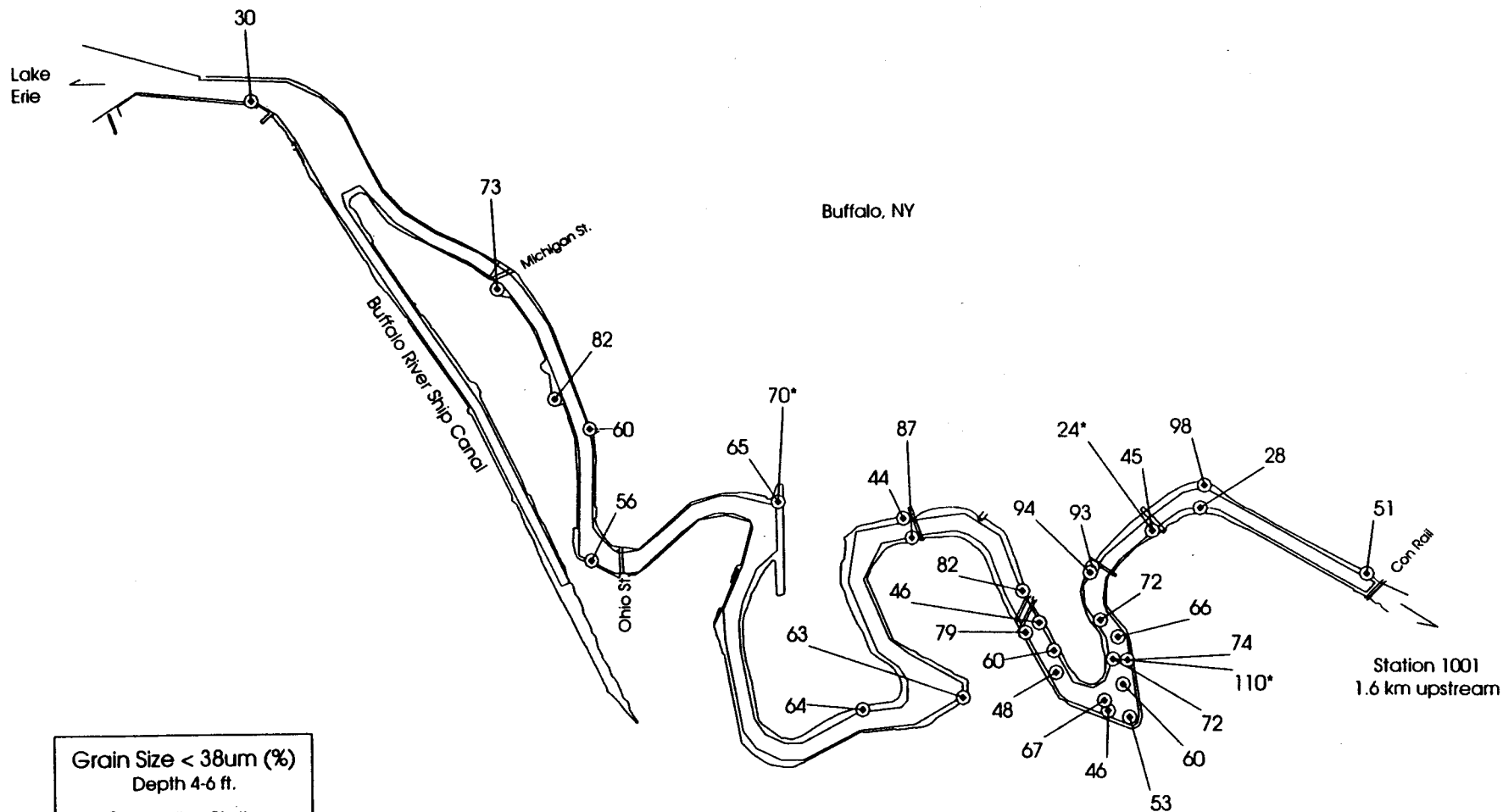
*Field Duplicate
B-119



Buffalo River



Buffalo River

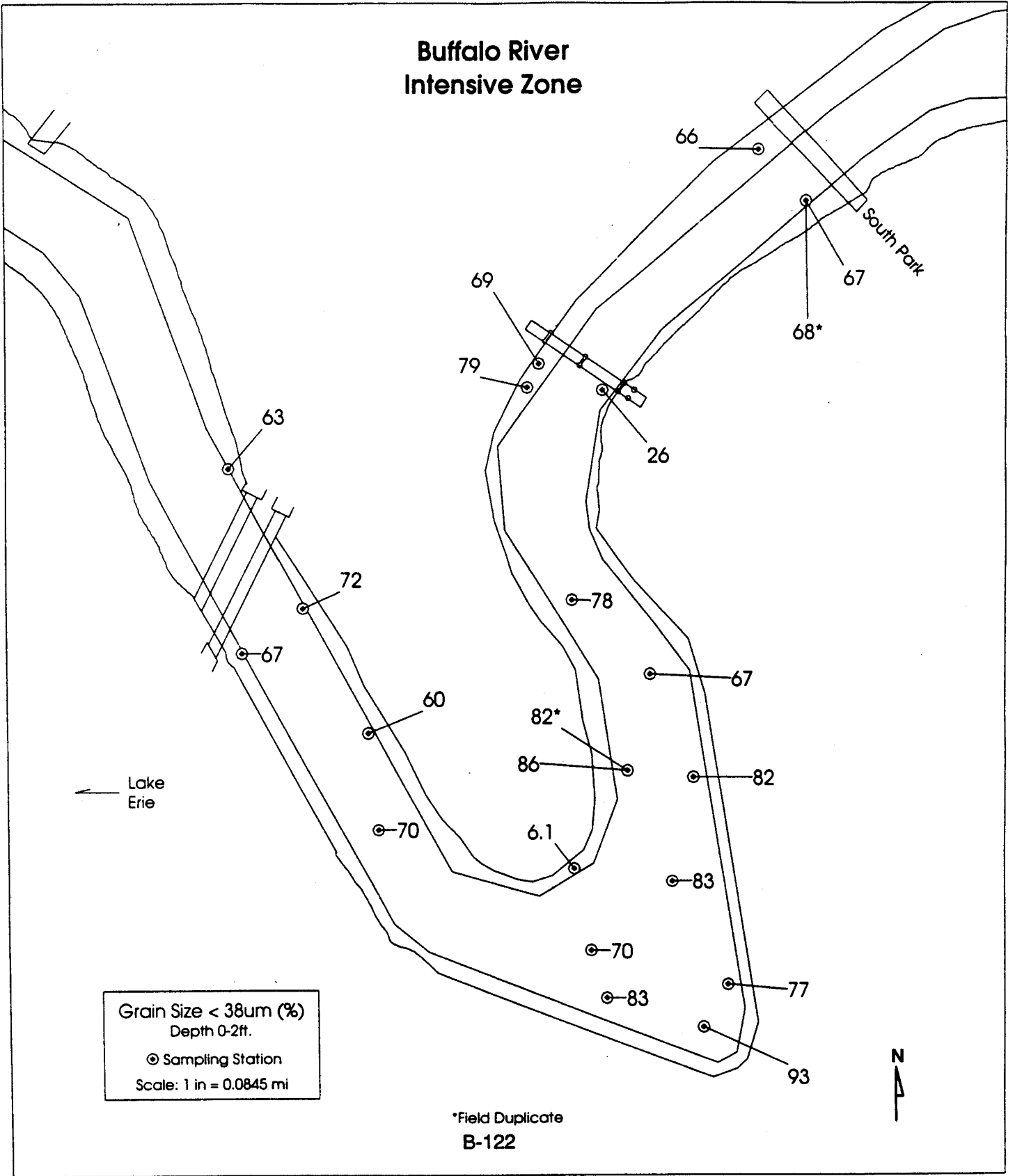


Grain Size < 38um (%)
Depth 4-6 ft.
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-121

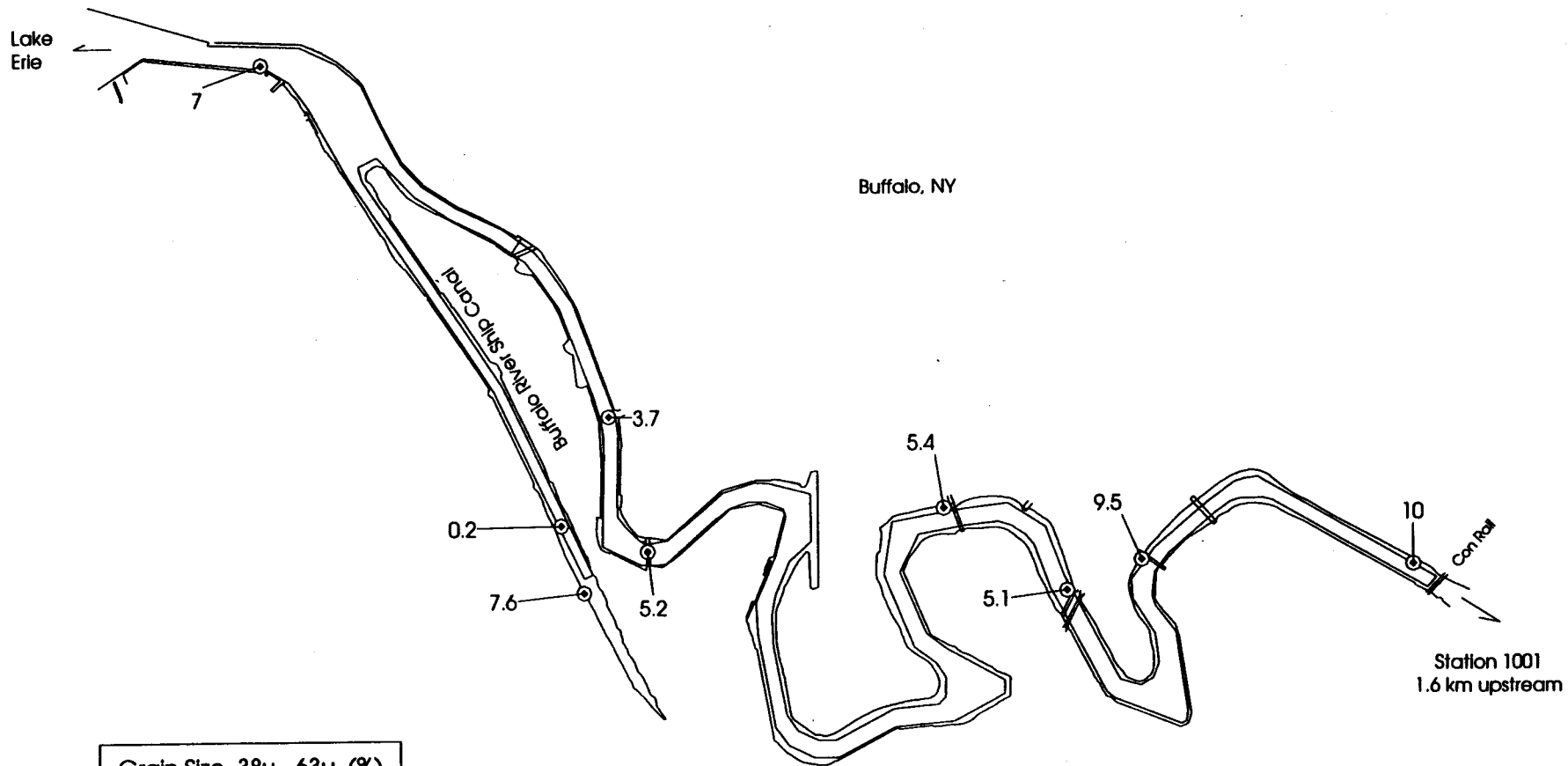


Buffalo River Intensive Zone



*Field Duplicate
B-122

Buffalo River

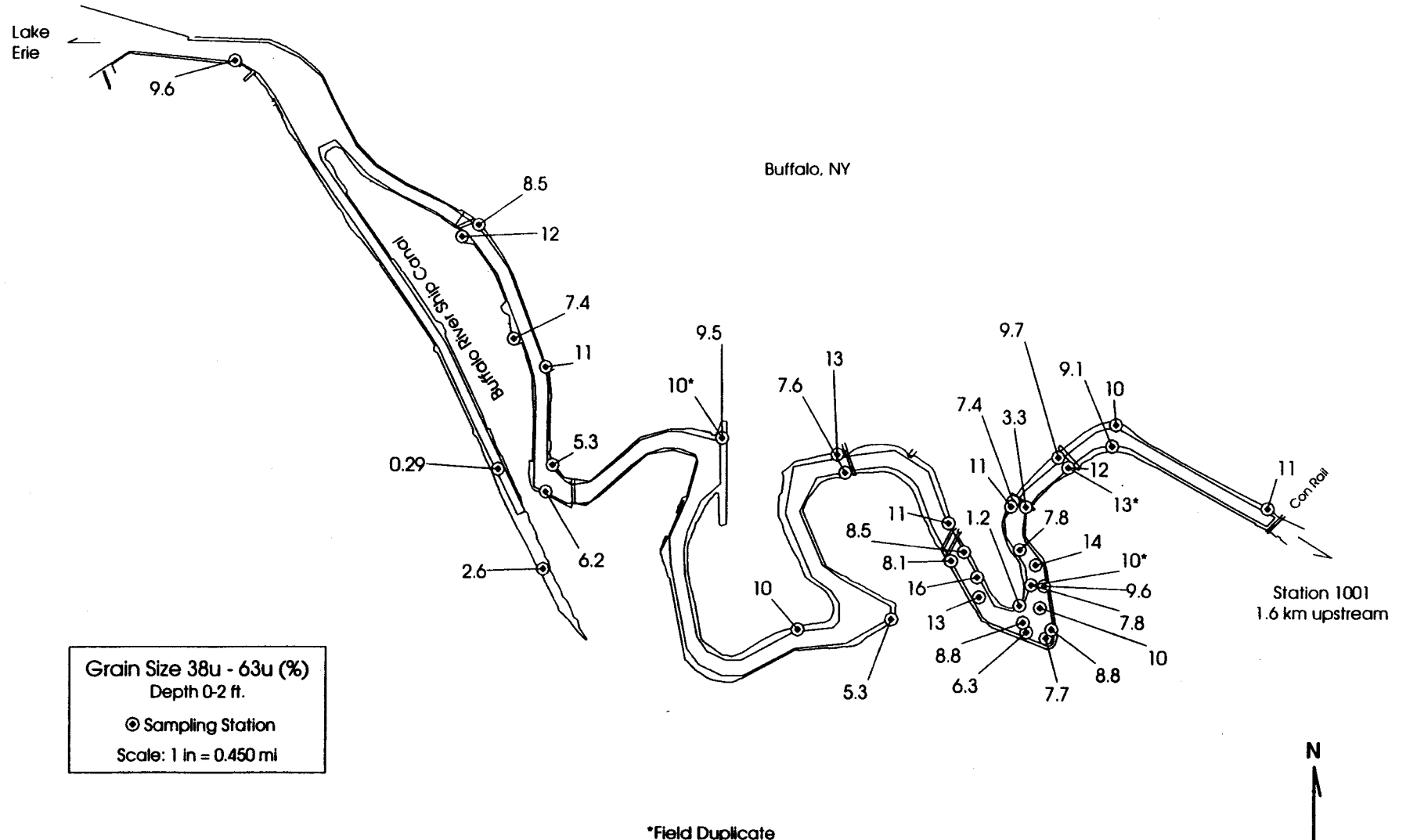


Grain Size 38u - 63u (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-123



Buffalo River

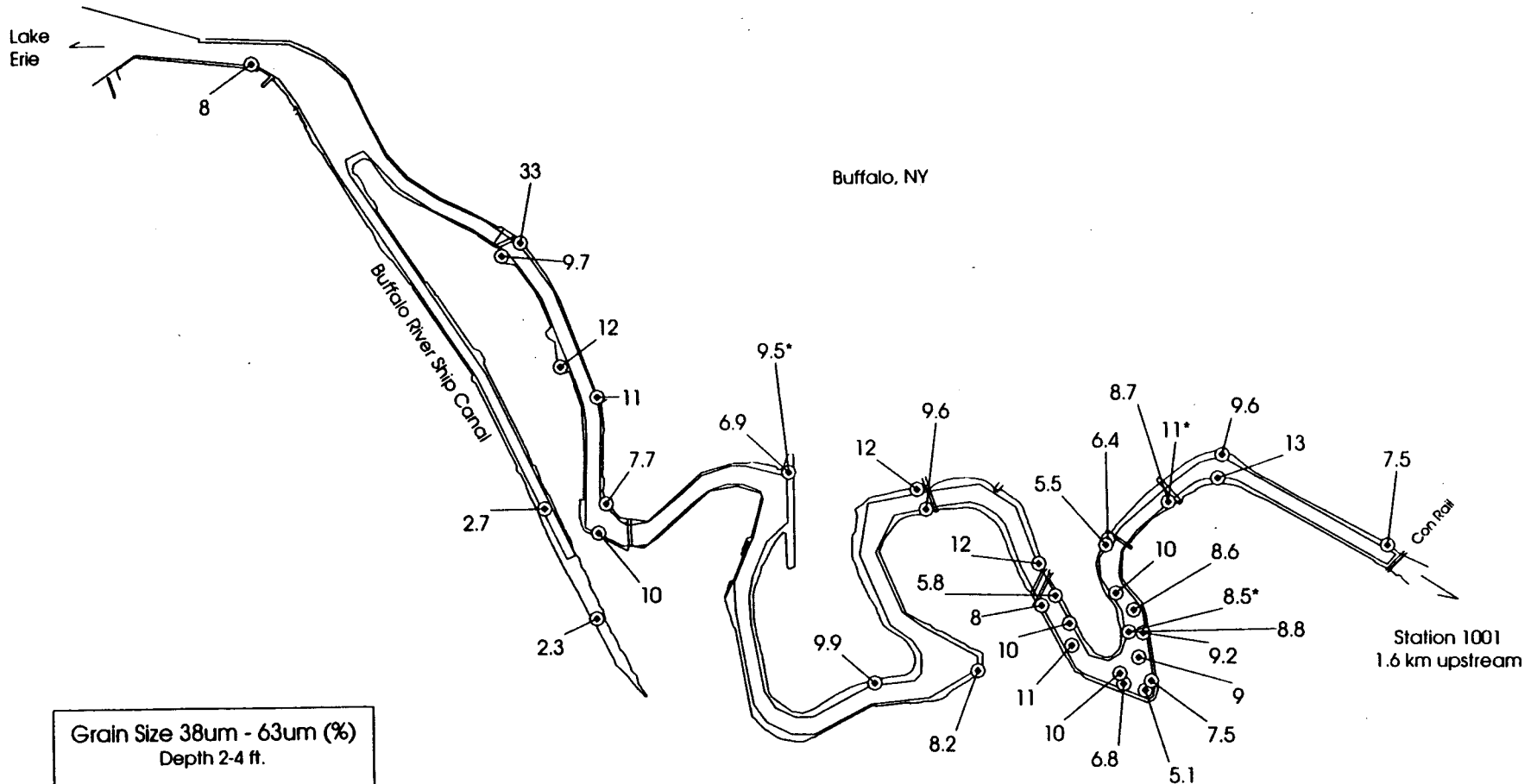


Grain Size 38u - 63u (%)
Depth 0-2 ft.
© Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-124



Buffalo River

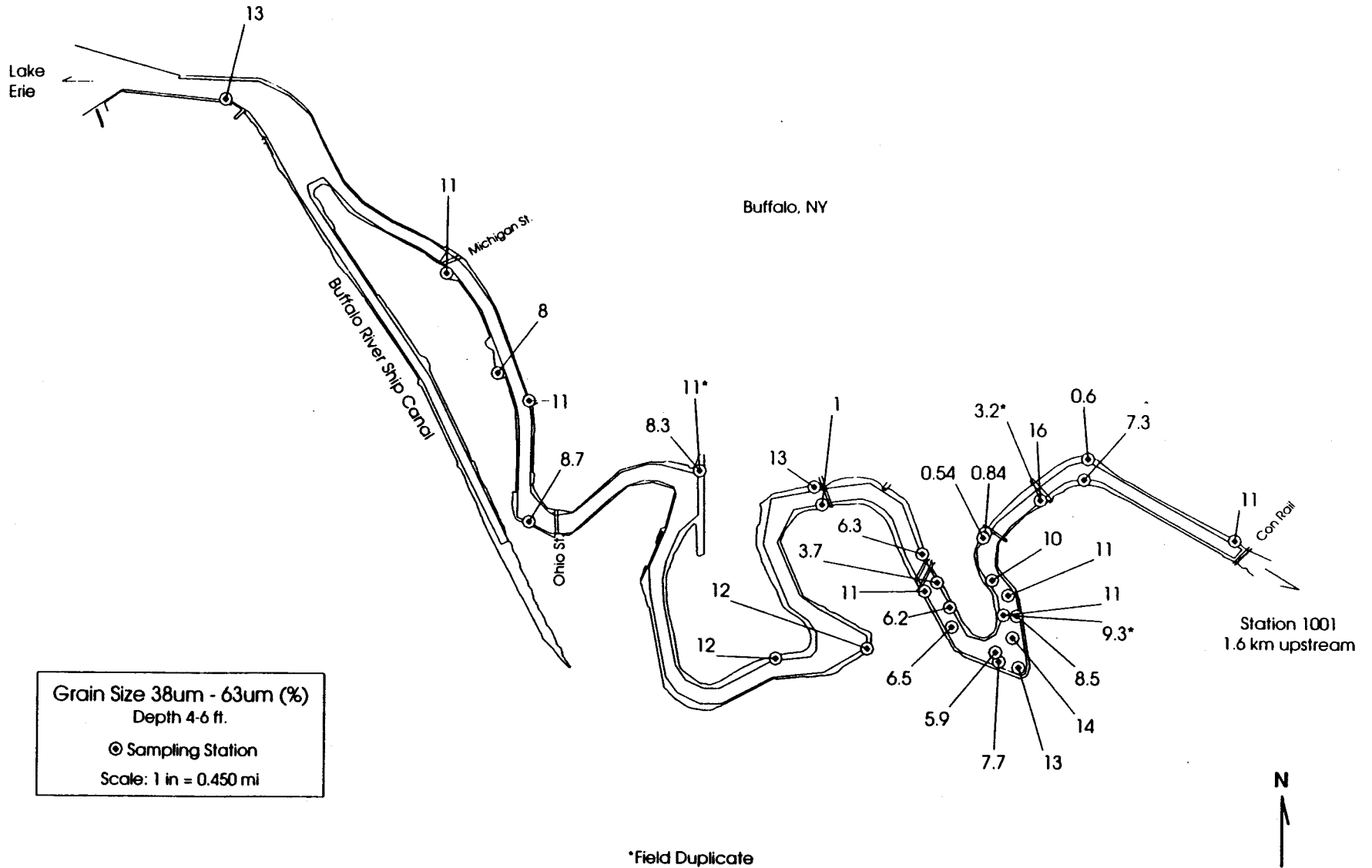


Grain Size 38um - 63um (%)
Depth 2-4 ft.
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-125



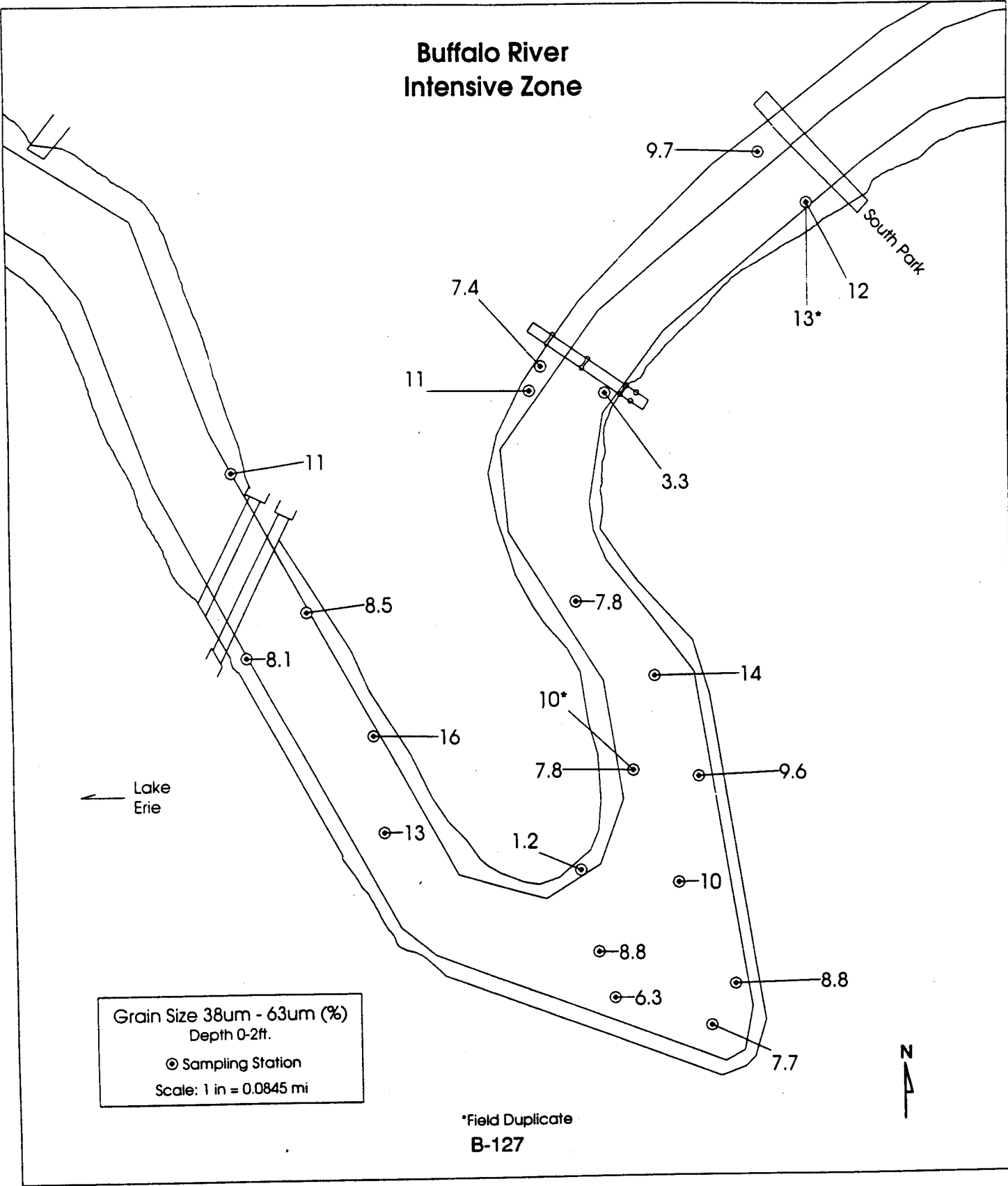
Buffalo River



Grain Size 38um - 63um (%)
 Depth 4-6 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-126

Buffalo River Intensive Zone

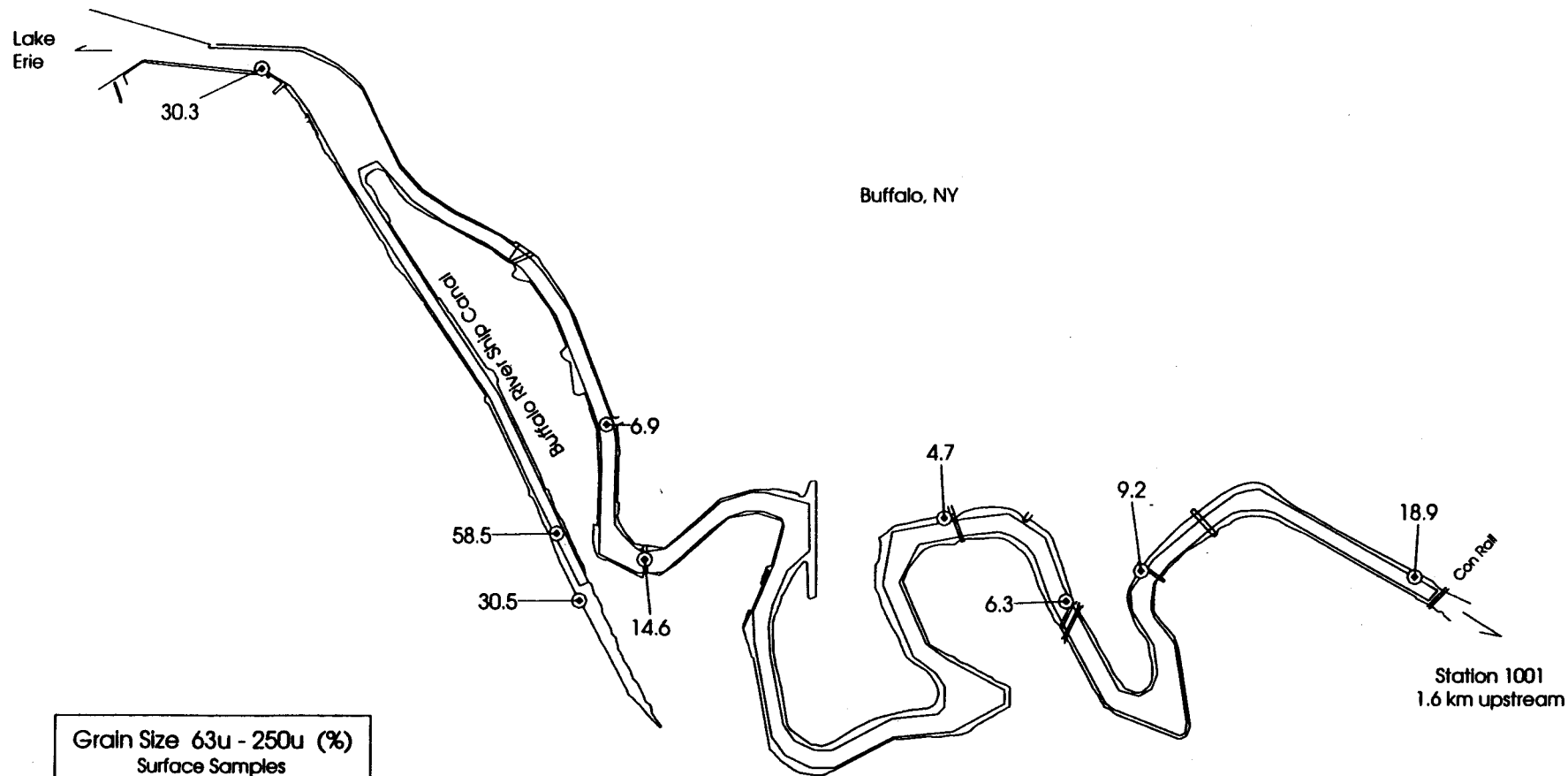


Grain Size 38um - 63um (%)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-127



Buffalo River

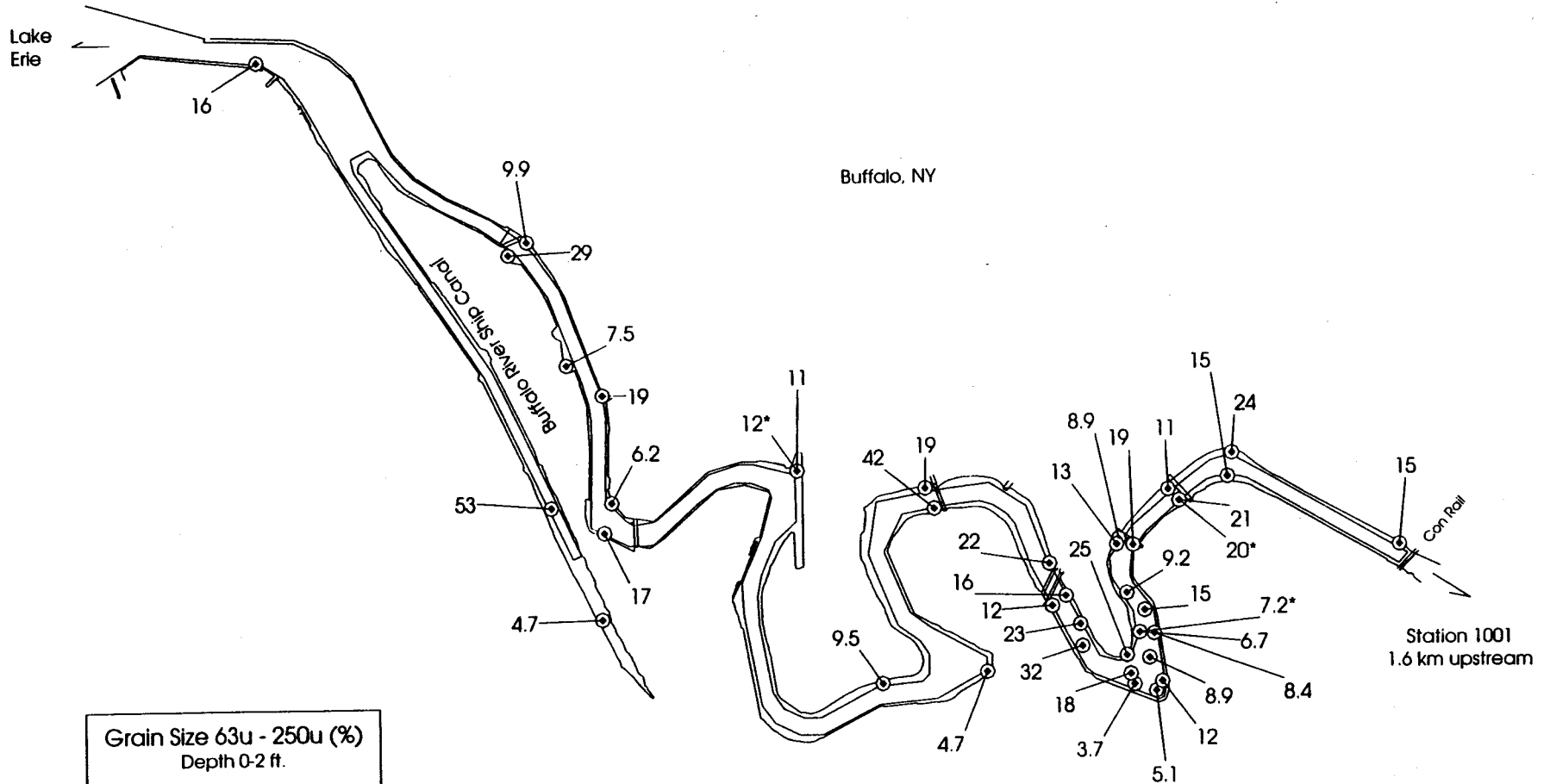


Grain Size 63u - 250u (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-128



Buffalo River

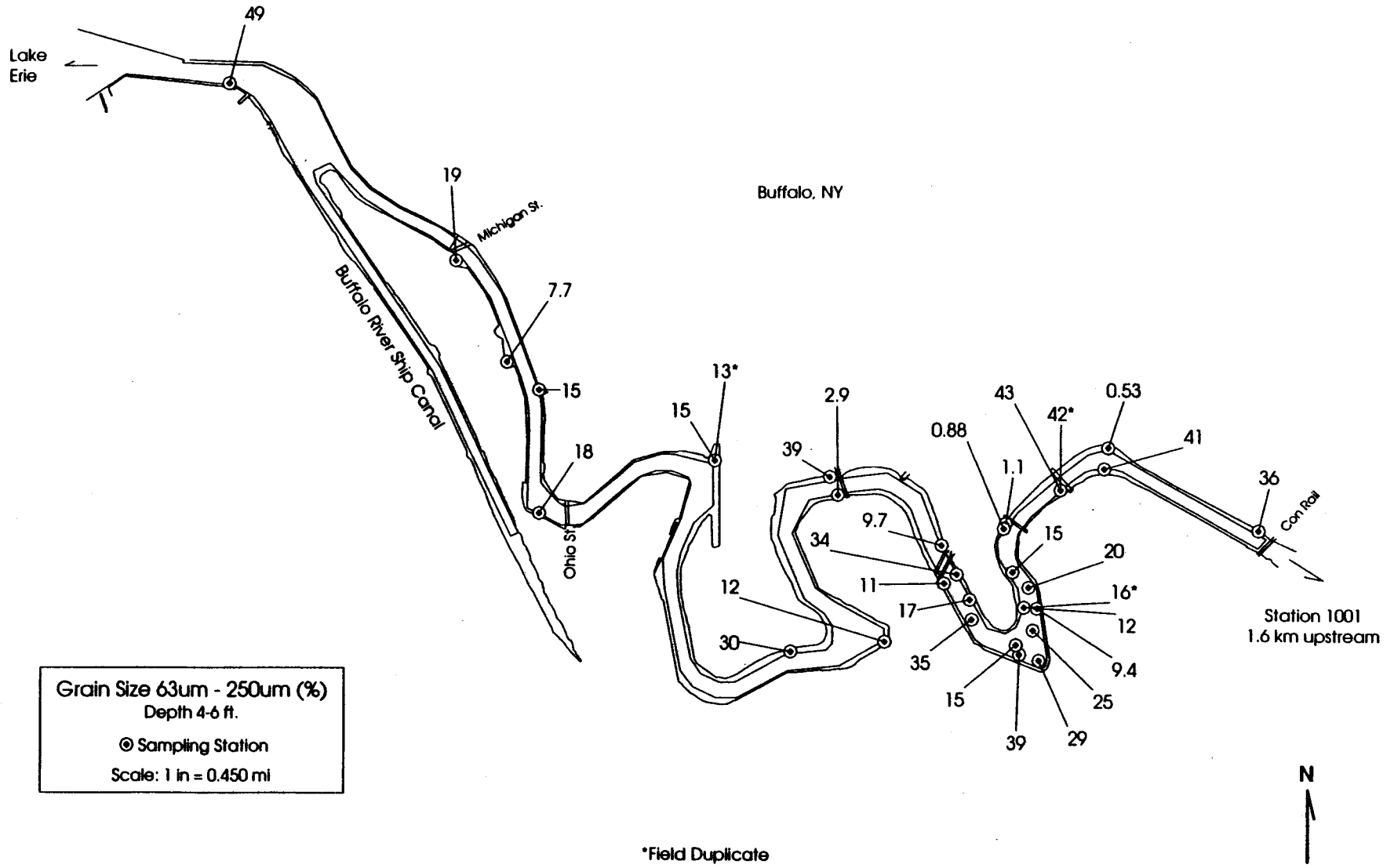


Grain Size 63u - 250u (%)
 Depth 0-2 ft.
 ● Sampling Station
 Scale: 1 in = 0.450 mi



*Field Duplicate
 B-129

Buffalo River

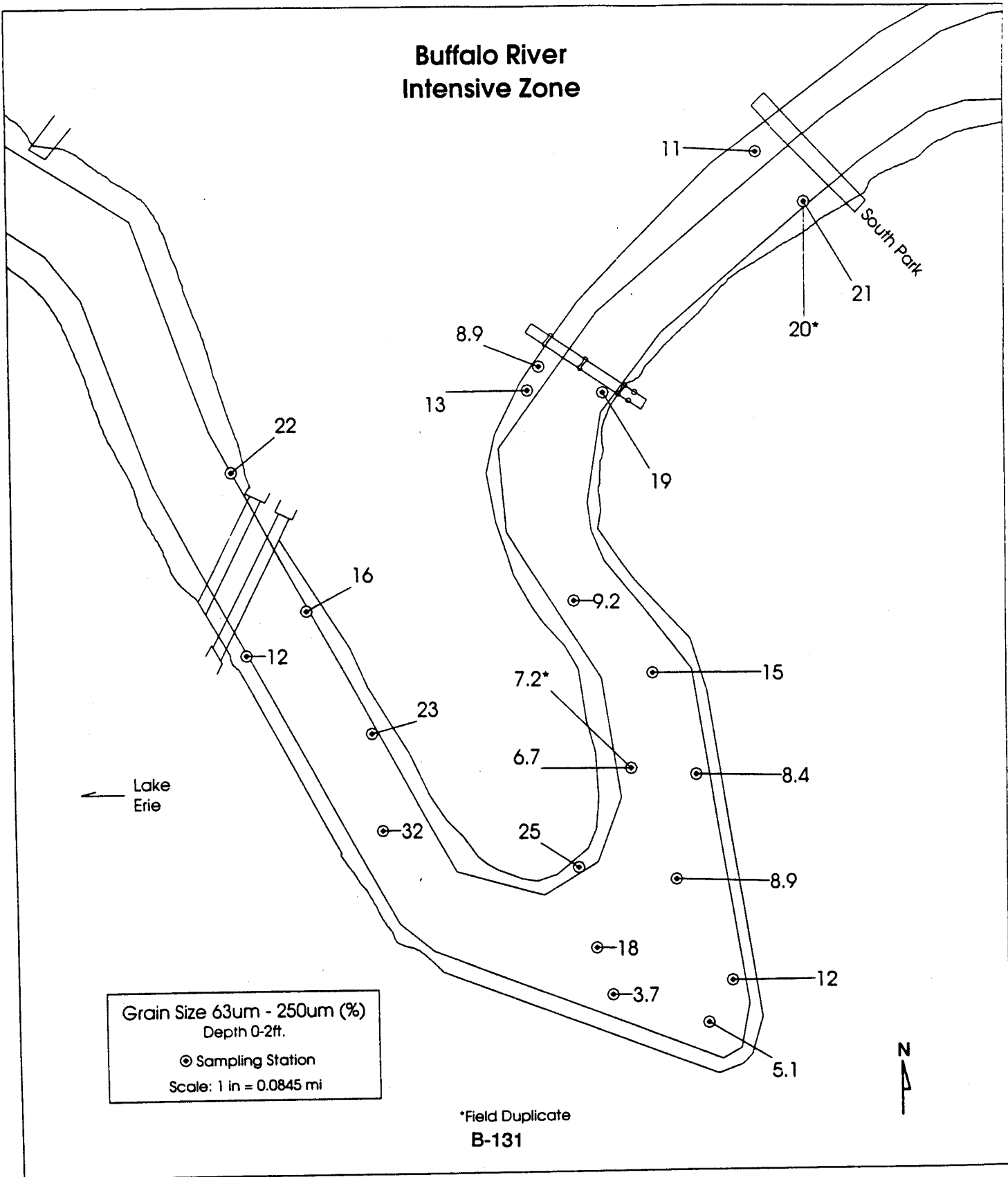


Grain Size 63um - 250um (%)
Depth 4-6 ft.
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-130



Buffalo River Intensive Zone

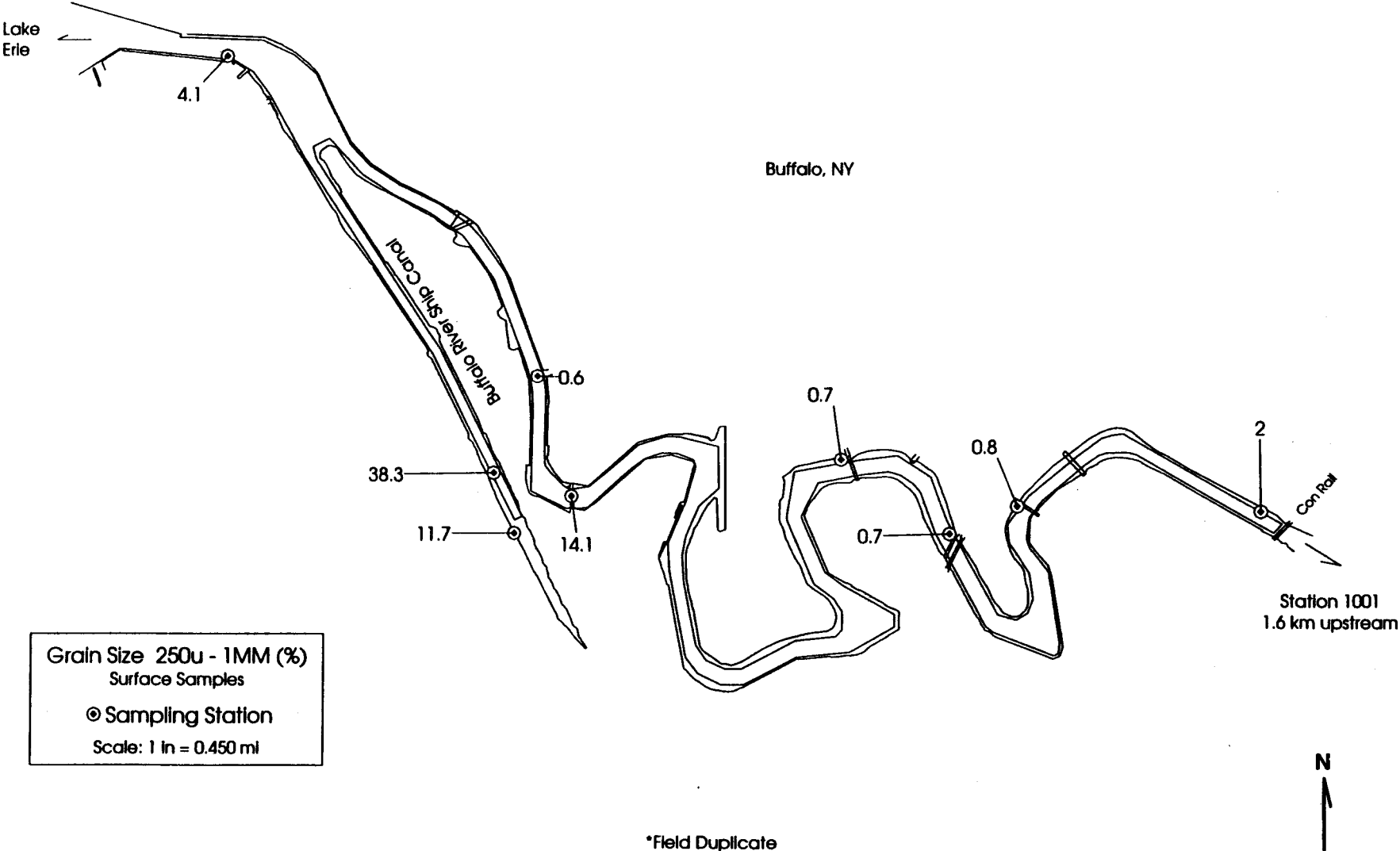


Grain Size 63um - 250um (%)
Depth 0-2ft.
● Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-131



Buffalo River

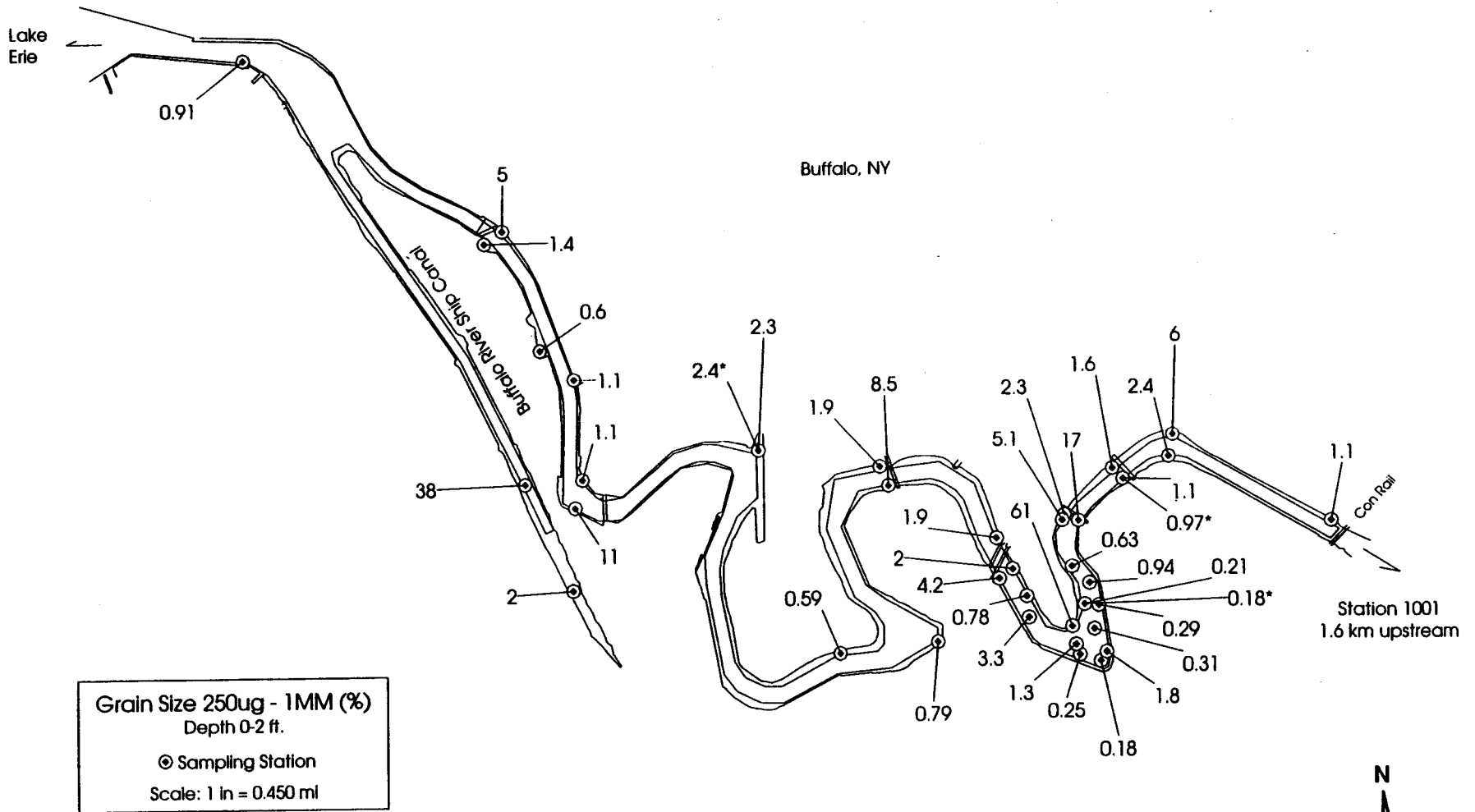


Grain Size 250u - 1MM (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-132



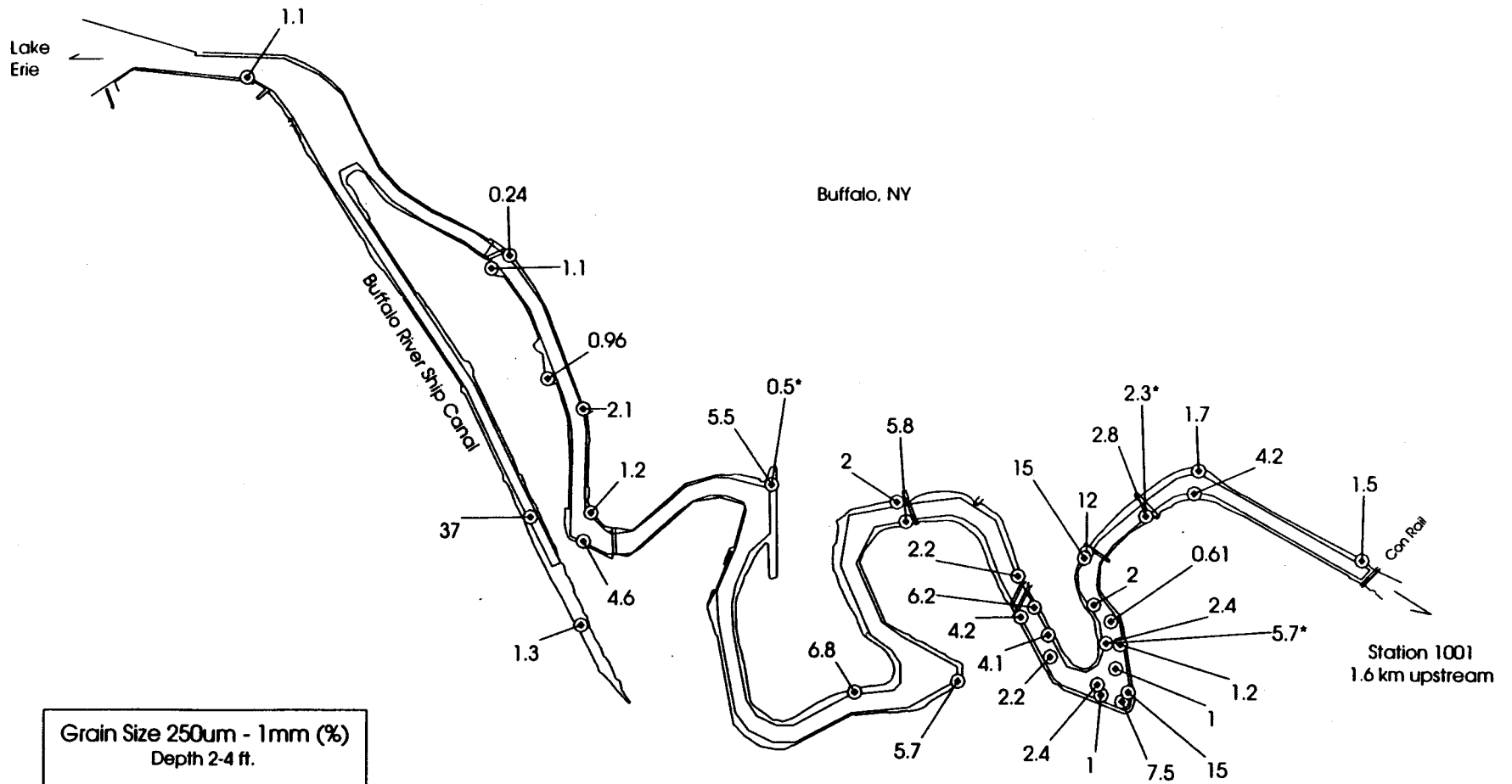
Buffalo River



*Field Duplicate
B-133



Buffalo River

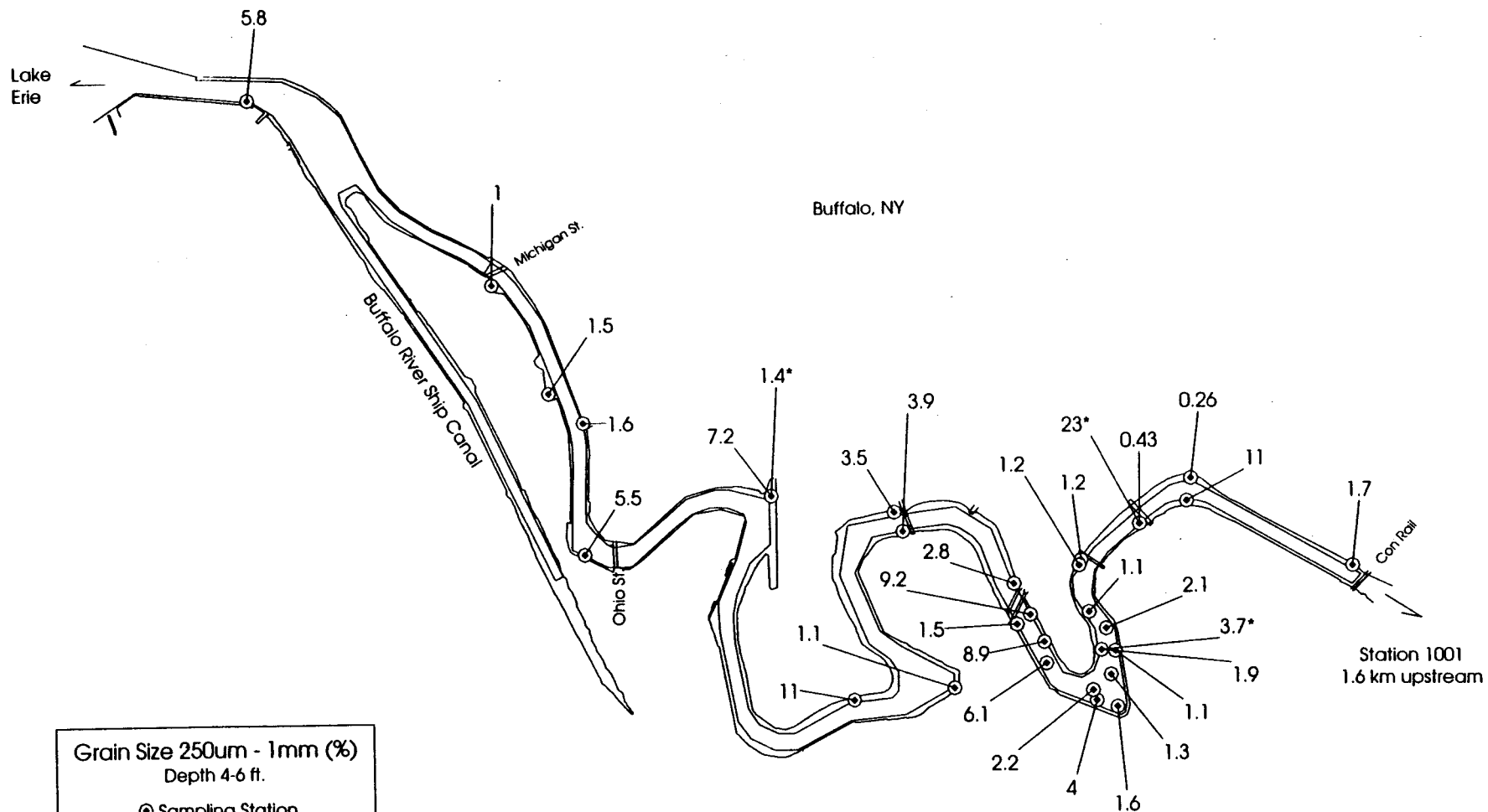


Grain Size 250um - 1mm (%)
 Depth 2-4 ft.
 © Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-134



Buffalo River

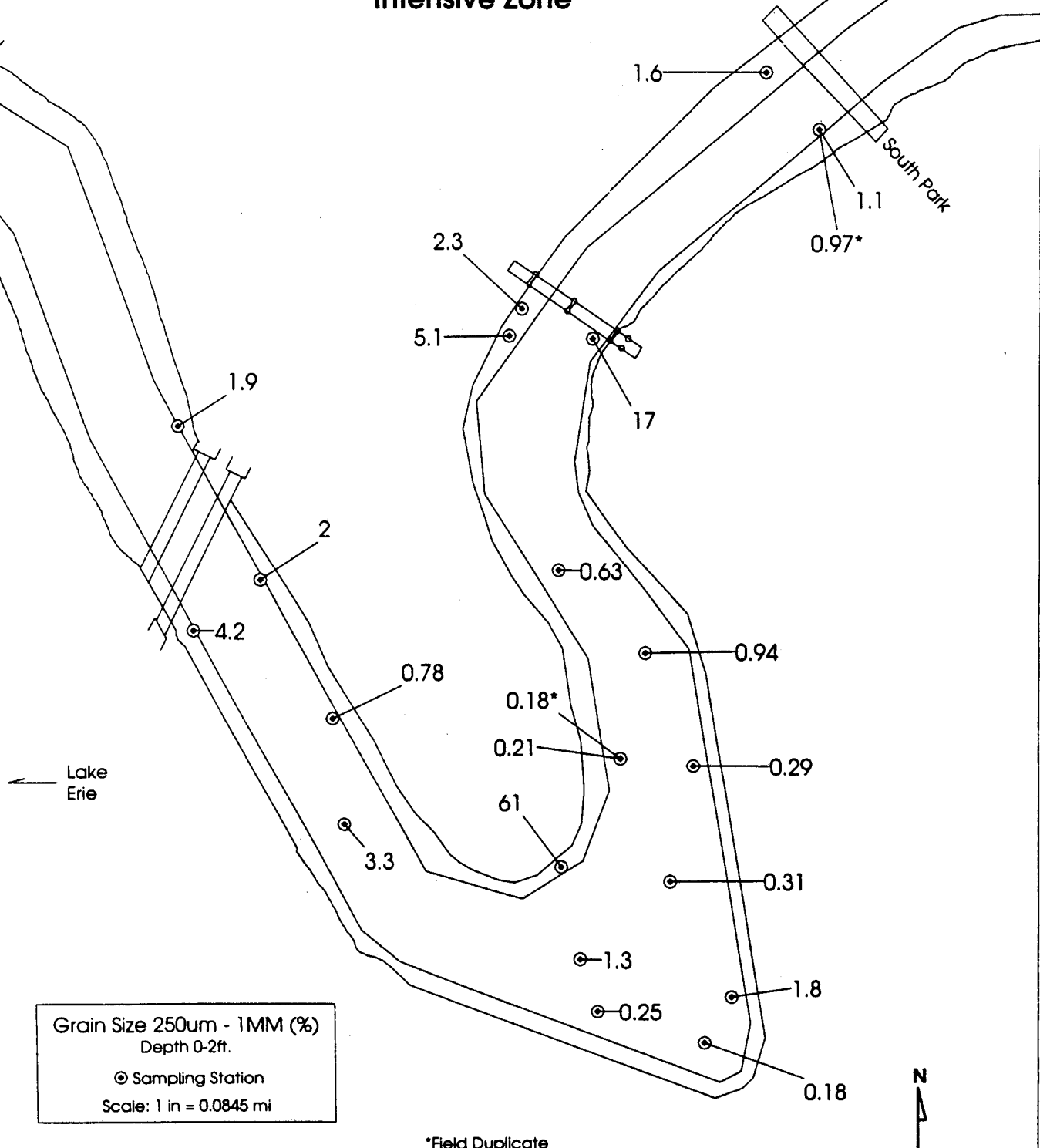


Grain Size 250µm - 1mm (%)
 Depth 4-6 ft.
 ⊙ Sampling Station
 Scale: 1 in = 0.450 mi

*Field Duplicate
 B-135

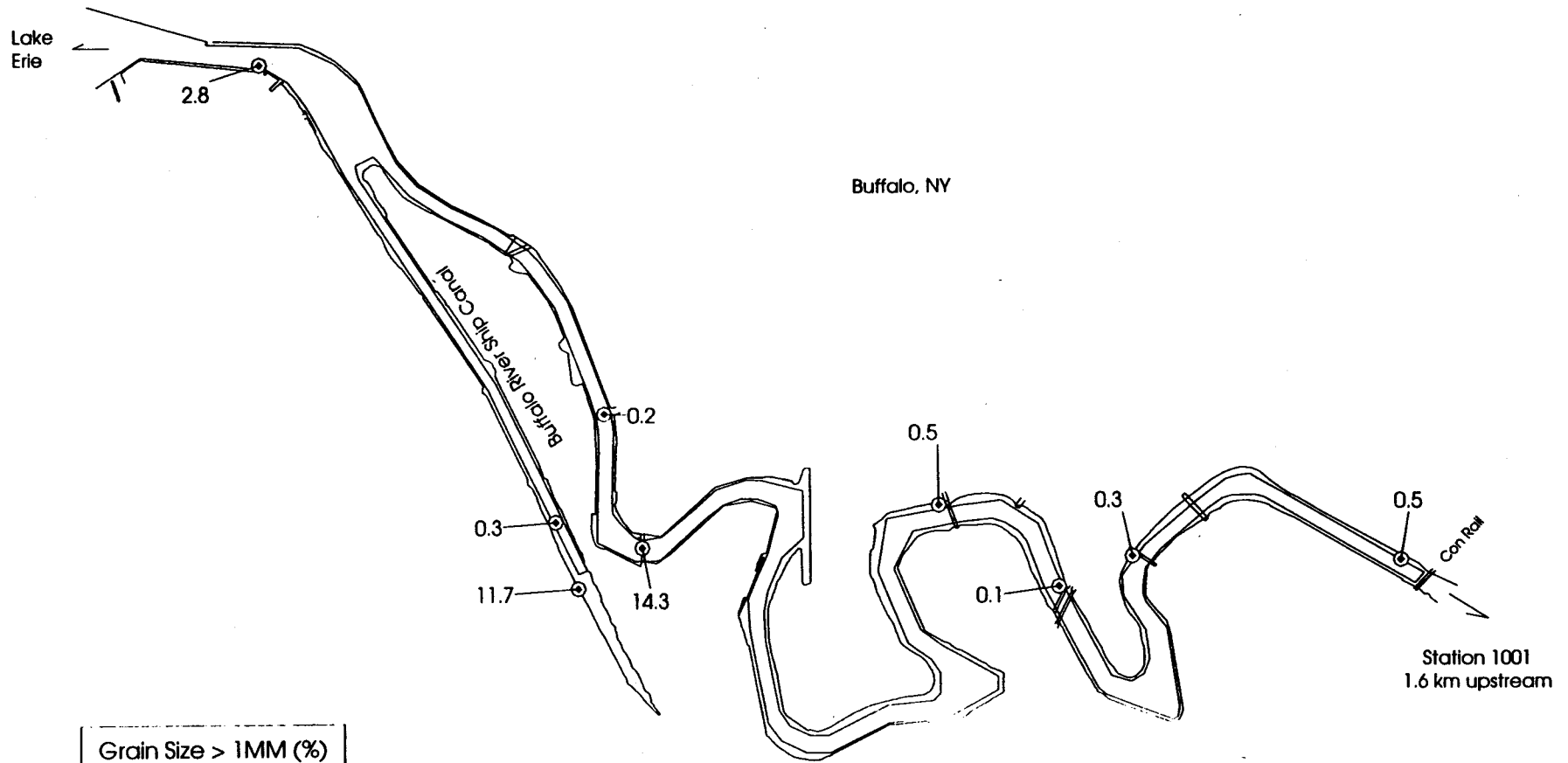


Buffalo River Intensive Zone



*Field Duplicate
B-136

Buffalo River

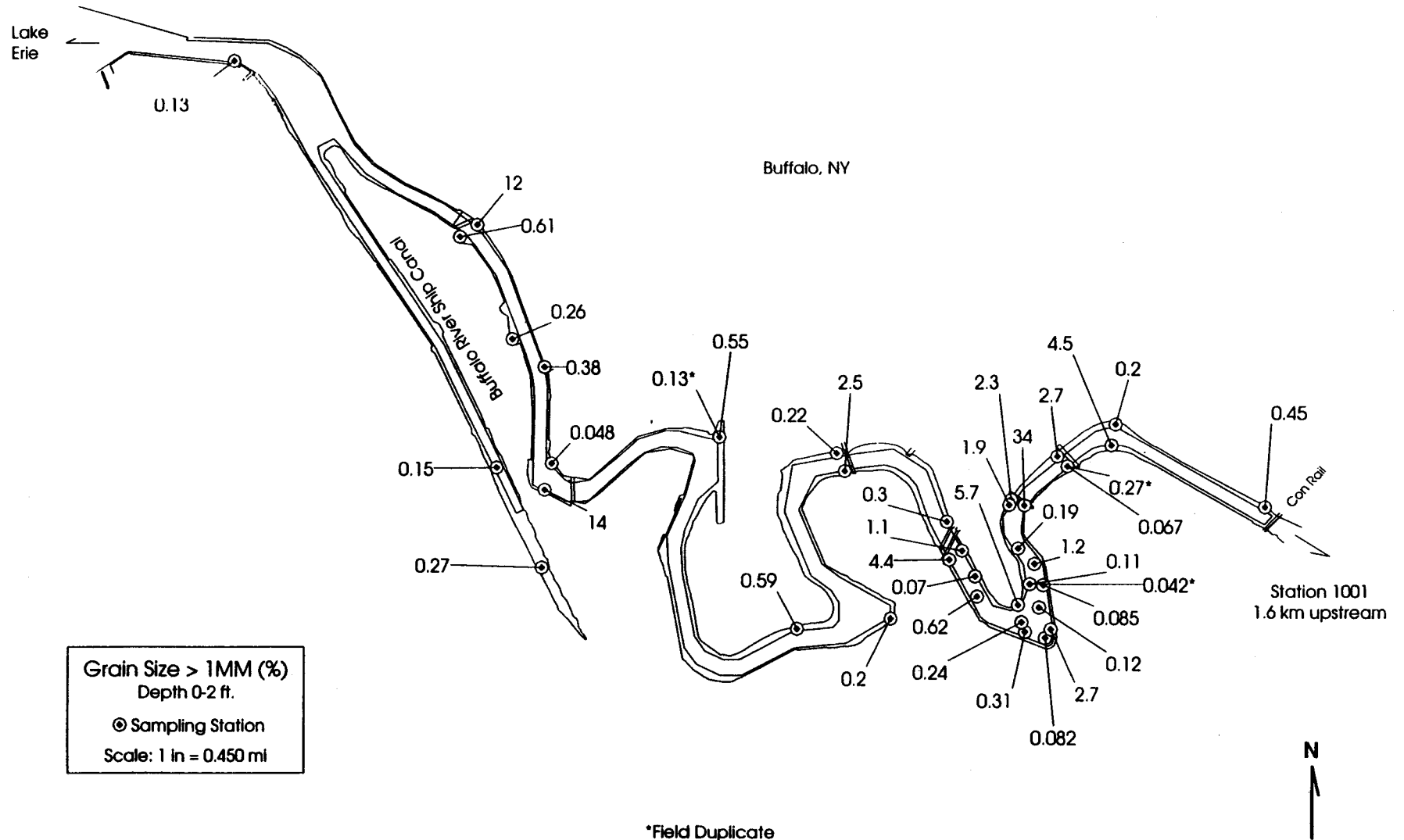


Grain Size > 1MM (%)
Surface Samples
⊙ Sampling Station
Scale: 1 in = 0.450 mi

*Field Duplicate
B-137

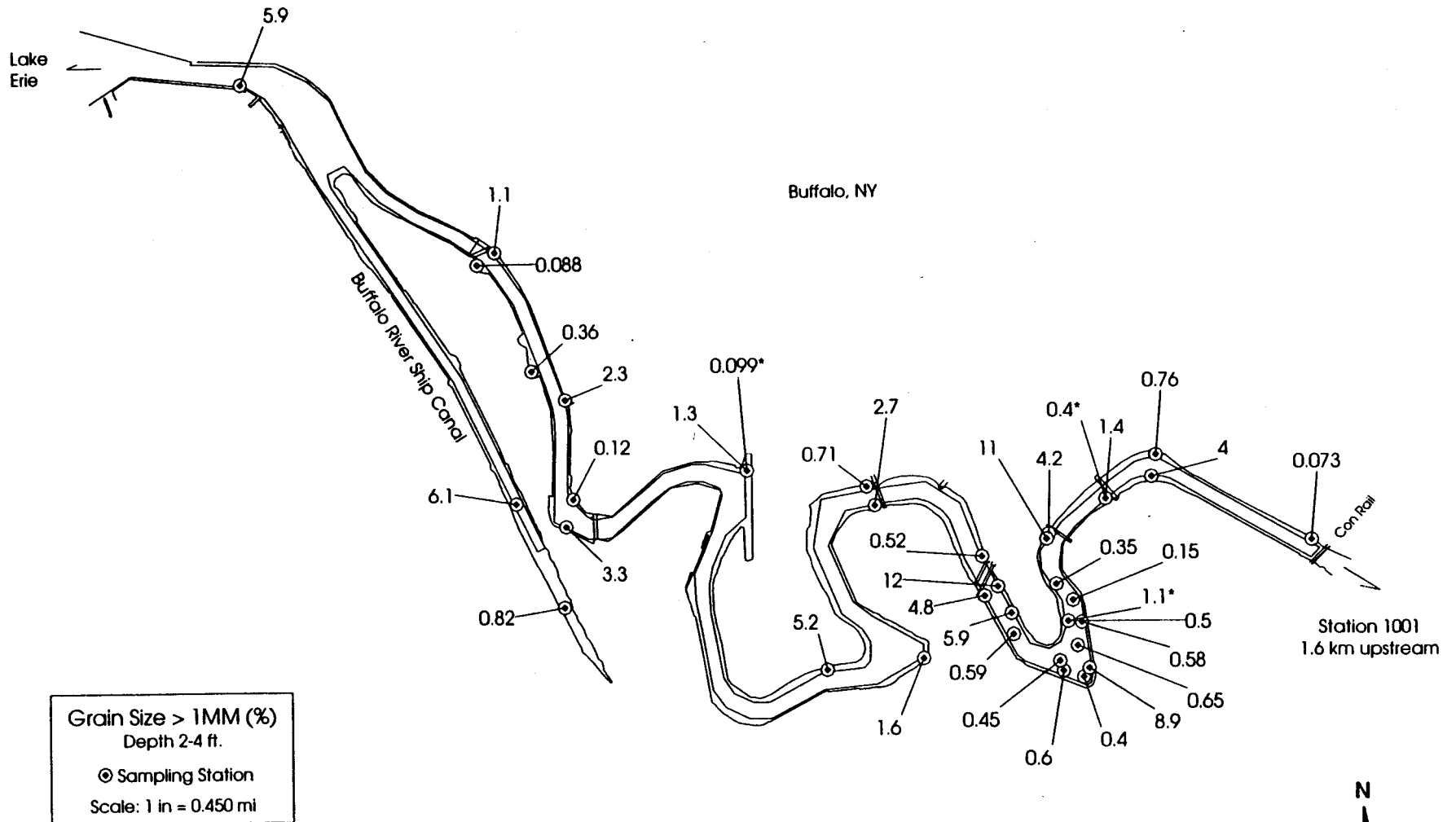


Buffalo River



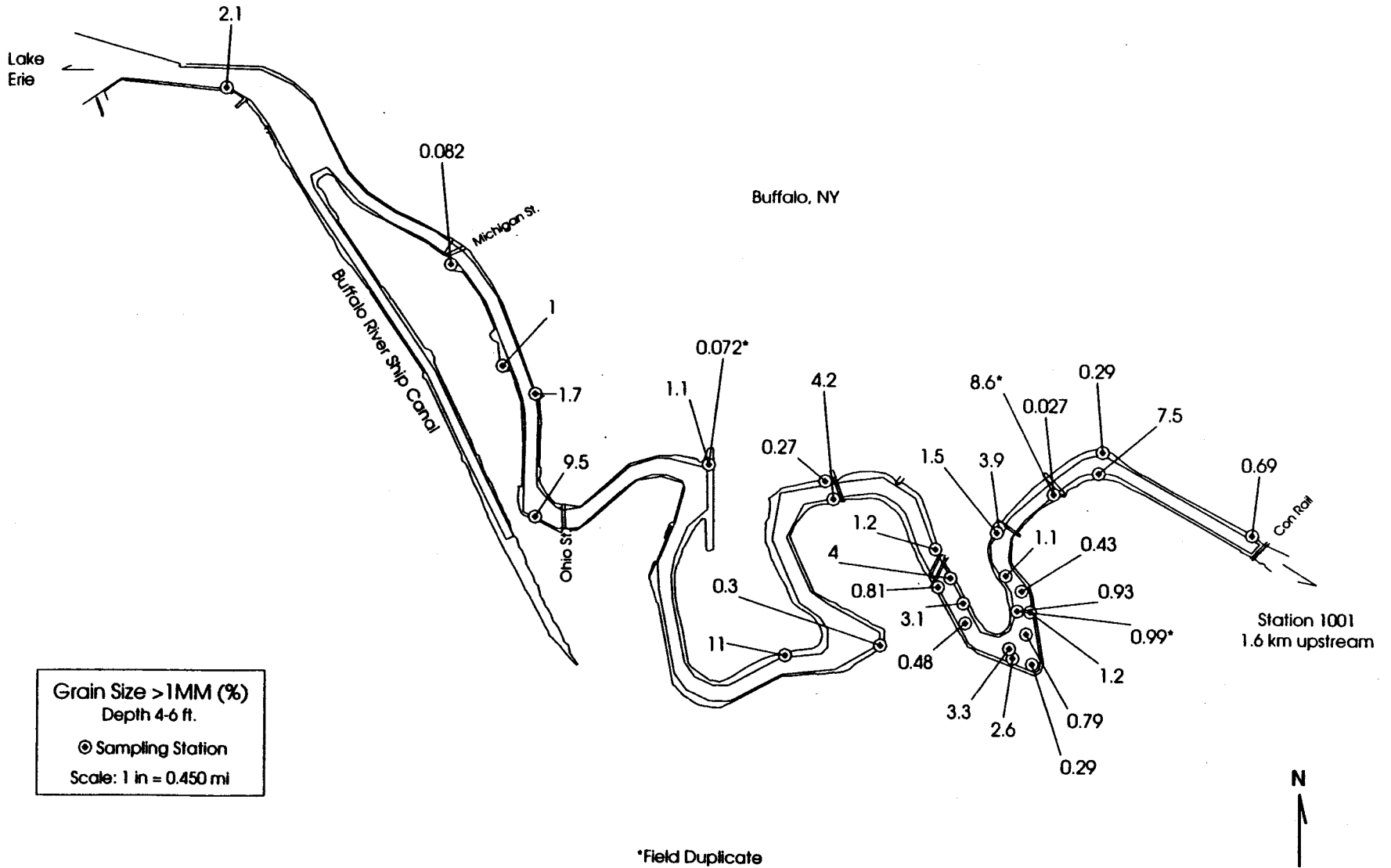
*Field Duplicate
 B-138

Buffalo River



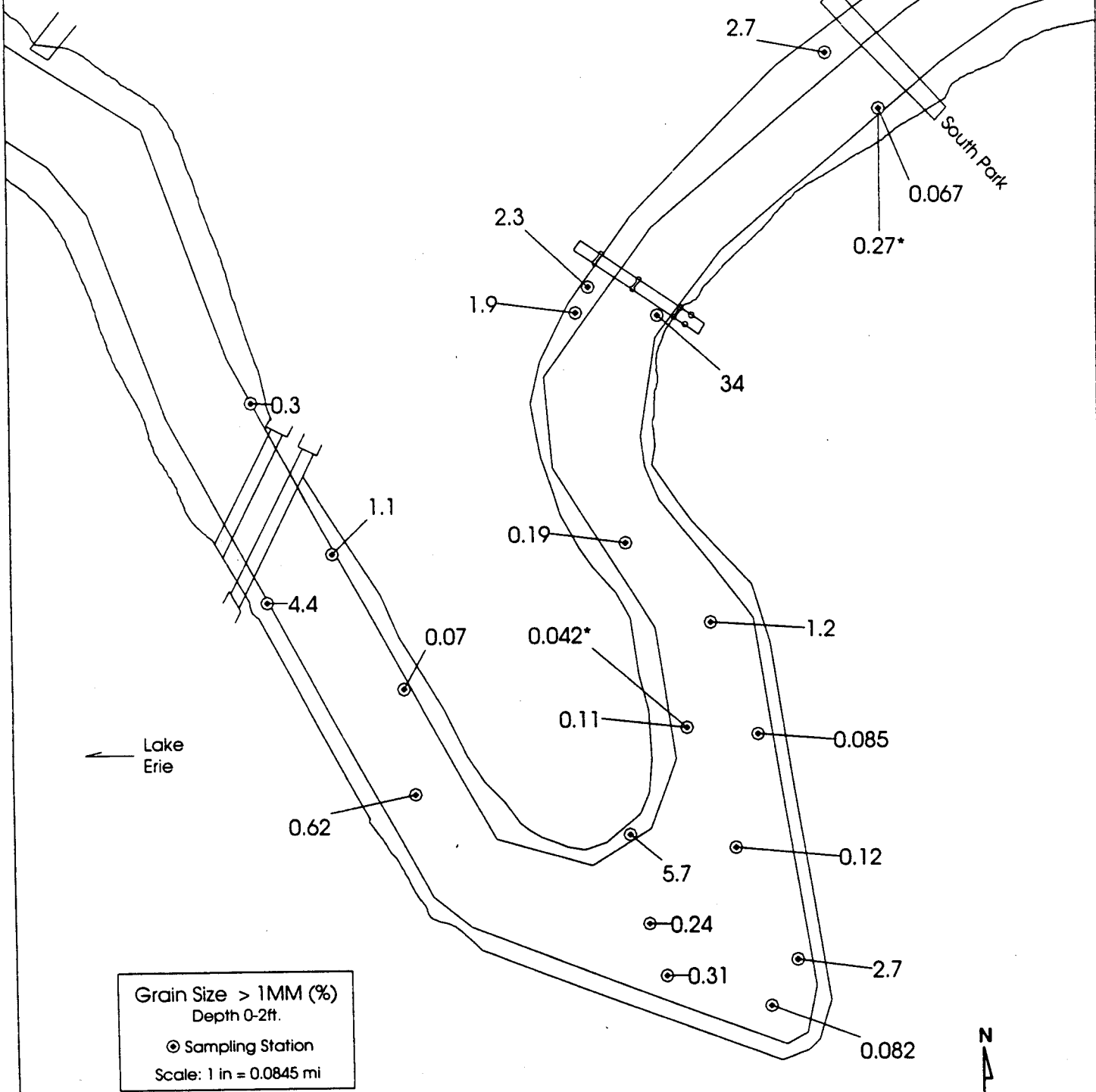
*Field Duplicate
B-139

Buffalo River



*Field Duplicate
 B-140

Buffalo River Intensive Zone



Grain Size > 1MM (%)
Depth 0-2ft.
⊙ Sampling Station
Scale: 1 in = 0.0845 mi

*Field Duplicate
B-141